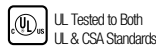
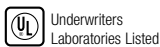


Icon Legend:



Product Index

133PE1484A	122	CA5100D	76	DIN-4	104	ET1725CR	43	FL070MH	114	GMXST-0-120	83
133T701A	28, 32	CA5300	77	DT121C	178	ET173C	42	FL100HPS	114	GMXST-0-24	83
133T773A	29	CA5500B	69	DT17C	178	ET174C	42	FL100MH	114	GMXST-0-240	83
143T145A	123	CA5500BAT	69	DT27C	178	ET175C	42	FL150HPS	114	GMXSW-I-120	83
156ET9402A	47	CA5500BR	69	E1010	62	ET279C	42	FL150MH	114	GMXSW-I-240	83
156ET9403A	47	CA5500R	69	E1020	62	E1616	96	FL150Q	115	GMXSW-I-240	83
156T1948A	27	CA600	71	E1500	104	ET70115C	45	FL150QMSW	116	GMXSW-0-120	83
156T1950A	28-30, 32	CA600D	71	E300	104	ET70115CR	45	FL175MH	114	GMXSW-0-24	83
156T1957A	34	CA7100	70	EH10	36	ET70115CR24	45	FL250HPS	114	GMXSW-0-240	83
156T1978A	35	CA8200	77	EH40	36	ET70215C	45	FL250MH	114	GZ40AJ	103
156T2548A	31, 33	CA8250	77	E15MH	59	ET70215CR	45	FL300MSW	116	GZ40BU	103
156T3085A	27	CA8700	78	E1200	58	ET70215CR24	45	FL300Q	115	GZ41U	103
178PA28A	123	CA8750	78	E1200LA	58	ET70415CR	45	FL400HPS	114	GZ52BU	103
22T338GR	38	CA8750SW	78	E1200W	58	ET70415CR24	45	FL400MH	114	GZ52U	103
22T535GR	38	CA9000	80	E1205	58	ET70815CR	46	FL500Q	115	HA01C	175
24EG5133	167	CADDTRM-E	71	E1205LA	58	ET70815CR24	46	FM1/1 S 12H-120	86	HA02C	175
2T2040GA	37	CADDTRM-G	71	E1205W	58	ET71615CR	46	FM1DIG14-120U	95	HA03C	175
2T2292GA	37	CADDTRM-I	71	E1210	58	ET71615CR24	46	FM1DIG20-120U	95	HA04C	123, 175
2T2293GA	37	CADDTRM-LA	71	E1210LA	58	ET7232M	47	FM1DIG20-240U	95	HA05C	176
2T2331GA	37	CADDTRM-W	71	E1210W	58	ET7232M1	47	FM1DIG20-24U	95	HA06C	176
2T2365GA	38	CADSTRM-E	72, 76	E1215	58	ET724-A-CS	98	FM1DIG20-277U	95	HA07	176
2T2485GA	37	CADSTRM-G	72, 76	E1215LA	58	ET724-CS	98	FM1DIG42-120U	95	HA09C	176
2T2500GA	37	CADSTRM-I	72, 76	E1215W	58	ET8015C	44	FM1DIG42-12U	95	HA14	177
2T2502GA	37, 128	CADSTRM-LA	72, 76	E1220	58	ET8015CPD82	44	FM1DIG42-24U	95	HA18	177
2T308A	38	CADSTRM-W	72, 76	E1220LA	58	ET8015CR	44	FM1QTUZH-120U	93	HA20	177
2T485GA	128	CATRFM	69	E1220W	58	ET8115C	44	FM1QTUZH-24U	93	HA23	177
2T511GA	37	CL0822	188	E1230	58	ET8115CPD82	44	FM1QUWZH-120U	93	HA24	177
2TP3352A	128	CL0830B	185	E1230LA	58	ET8115CR	44	FM1QUWZH-240U	93	HB1116R	181
6ET1398GA	38	CL086AB	185	E1230W	58	ET8215C	44	FM1S12H-120U	86	HB112C	179
6LV1352	21	CL1	188	E1235	58	ET8215CPD82	44	FM1STUZ-120U	93	HB113C	179
AG2083C	171	CL115	188	E1235LA	58	ET8215CR	44	FM1STUZ-240U	93	HB114C	179
AG2401C	171	CL191	186	E1235W	58	FD12HC	56	FM1STUZ-24U	93	HB31R	180
AG2401C-IND	171	CL191K	186	E400	59	FD12HH	56	FM1STUZH-120U	93	HB35R	180
AG2403C	171	CL191OB	186	E400LAC	59	FD12HWH	56	FM1STUZH-240U	93	HB51RC	180
AG4801	171	CL191S	186	E400WC	59	FD12HWC	56	FM1STUZH-24U	93	HB61RC	180
AG4803C	171	CL191V	186	E1500C	60	FD15MAC	56	FM1SUWZ-120U	93	HB77R	181
AG6503C	171	CL3050B	185	E1500LAC	60	FD15MC	56	FM1SUWZ-240U	93	HB89RC	181
AG6503C-IND	171	CL305P	185	E1500WC	60	FD15MH	56	FM1SUWZ-24U	93	HLMSW	116
AG6503L	171	CL33V	185	E1600C	61	FD15MWC	56	FM1SUWZH-120U	93	IG11246	166-167, 172
AL10210	109	CL501	189	E1600LAC	61	FD15MWH	56	FM1SUWZH-240U	93	IG11266	166-167, 172
AL102-5C	109	CL501S	189	E1600WC	61	FD2H	56	FM1SUWZH-24U	93	IG11266BLK10	166-167
AL111	109	CL503TA	189	EJ351C	179	FD2HW	56	FM1SUWZH-277U	93	IG11466	172
AL115	109	CL507	188	EJ500AC	179	FD30MAC	56	FW236-120U	101	IG1201EH	157
AL1160	109	CL508	188	EJ500C	179	FD30MC	56	FW253-120/50U	101	IG1201F20	165
AL1200MTSS	106	CL509	188	EL100	64	FD30MH	56	FW253-240U	101	IG1201LH	159
AL12210	109	CL635P	186	EL200	65	FD30MWC	56	FW253-24U	101	IG1240FMP3	168
AL122-5C	109	CL635R	186	EL200LA	65	FD30MWH	56	FW255-120U	101	IG1240RC	168-169, 172
AL300BW	108	CL635RK	186	EL200W	65	FD312HW	56	FW255-240U	101	IG1300-2T-1C	172
AL300MTSS	106	CL711	186	EL300	65	FD32H	56	FW256K-120U	101	IG1300-4T-2C	168-169, 172
AL300MTW	108	CL801BC8	185	EL300LA	65	FD32HW	56	FW256K-240	101	IG141	166-167, 172
AL300RTW	107	CL802BSB6	187	EL300W	65	FD34H	56	FW272-240U	101	IG143	166-167, 172
AL300TPWS	107	CL802P7	187	EL500	64	FD34HW	56	FW272-24U	101	IG1866A	172
AL375V	109	CL803BC9	187	EL500E	66	FD36H	56	FW272B-120U	101	IG1C	170
AL380C	109	CL803S2	187	EM1408MC	49	FD36HW	56	FW272B-240U	101	IG1C3R	170-172
AL385V	109	CL8041	187	EM1408SC	49	FD415M	56	FW272B-24U	101	IG1CM	170-172
AL395	109	CL9	188	EM1416MC	49	FD430M	56	FW272K-120U	101	IG2012B15	166-167, 172
AL395V	109	CL905	189	EM1416SC	49	FD430MW	56	FW272K-240U	101	IG2046	172
AL401	109	CL905K	189	EM14PS	52	FD460M	56	G55	104	IG20615	166-167
AL402	109	CL90B	188	EMDS	50	FD460MW	56	GM40	81-82	IG2066	166-167, 172
AL402TA	109	CL9S	188	EMKB1	50	FD46H	56	GM40E-120	87	IG2083CEY	155
AL403	109	CL9TA	188	EMKB2	50	FD4H	56	GM40E-240	87	IG2083LYH	159
AL403TA	109	CP150HPS	115	EMKB3	50	FD4HW	56	GM40E-277	87	IG2083YECA	154
AL405	110	CP150MH	115	EMKB4	50	FD5M	56	GM40E42-120	87	IG2083YEH	157
AL405V	110	CS110P	185	EMKB5	50	FD5MW	56	GM40E42-M-120	87	IG2086	166-167, 172
AL406	110	CS110TA	185	EMKB6	50	FD60MAC	56	GM40E-M-120	87	IG20B12	166-167, 172
AL406TA	110	CS120TA	187	EM-MOD	52	FD60MC	56	GM40E-M-240	87	IG2401ECS	155
AL407TA	110	CS140K	187	EMOPST1	52	FD60MH	56	GM40-M	82	IG2401EH	157
AL408TA	110	CS14P	187	EMPS3IN	50, 52	FD60MWC	56	GM40Q	82	IG2401F20	165
AL409	110	CS17K	187	EMRS-W-D	50	FD60MWH	56	GM40Q-M	82	IG2401LH	159
AL409TA	110	CS180C	188	EML600NC	51	FD6H	56	GM40QW	82	IG2401SECA	154
AL425C	110	CS200C	186	EML600NO	51	FD6HH	56	GM40QW-M	82	IG2403DECA	154
AL501	110	CS230R	187	EML600NC	51	FD6HWH	56	GM40W	82	IG2403DEH	157
AL502	110	CS240	187	EMLSLNO	51	FD6HW	56	GM40W-M	82	IG2403CED	155
AL502DS	110	CS3300B	185	ET051C120	39	FF12HC	57	GMX2DIG42I-120	88	IG2403LDH	159
AL502TA	111	CS501GR	185	ET051C24	39	FF12HHC	57	GMX2DIG42I-240	88	IG250LA	172
AL506	111	CS508K	188	ET051C240	39	FF15MC	57	GMX2DIG42I-240	88	IG2T	170
AL510V	111	CS508P	188	ET052C120	39	FF15MH	57	GMX2DIG42I-120	88	IG2T3R	169, 172
AL521	111	CS508S	188	ET052C24	39	FF2H	57	GMX471-I-120	92	IG2TM	169, 172
AL550	111	CS508TA	188	ET052C240	39	FF30MC	57	GMX472-I-120	92	IG3240FMP3	168
AL550DS	111	CS7AC1	186	ET100C	40	FF30MH	57	GMX891-I-120	92	IG3240RC	168-169, 172
AL550TA	111	CS7CT4	187	ET100CM	40	FF312H	57	GMX892-I-120	92	IG4803DECA	154
AL600MTSS	106	CS7E1	185	ET101C	40	FF312HH	57	GMX892-I-24	92	IG4803DEH	157
AL600MTW	108	CS7Z6	185	ET102C	40	FF315M	57	GMX894-I-120	92	IG4803CED	155
AL600TPWS	107	DC-FME	104	ET103C	40	FF32H	57	GMX894-I-24	92	IG4803CEY	155
AL600TW	107	DC-FME-A	104	ET104C	40	FF32HH	57	GMXDIG20-I-120	88	IG4803LDH	159
AL60TW	108	DD150HPS	114	ET104CP	40	FF330M	57	GMXDIG20-I-24	88	IG4803LYH	159
AL8-12	109	DD175MV	114	ET105C	40	FF34H	57	GMXDIG20-I-240	88	IG4803YECA	154
AL900MTSS	106	Digi20A-120	89	ET1105C	41	FF34HW	57	GMXDIG20-0-120	88	IG4806YEH	157
AL900TPWS	107	Digi20A-24	89	ET1105CPD82	41	FF360M	57	GMXDIG20-0-240	88	IG4TM	169, 172
AL900TW	107	Digi20A-240	89	ET1105CR	41	FF36H	57	GMXDIG20-0-240	88	IGFLUSH	170
BAT-LITHIUM	104	Digi20A-277	89	ET1115C	41	FF412H	57	GMXDIG42-I-12	88	K1121	24
BEZ-55BLACK	104	Digi20E-120	89	ET1115CPD82	41	FF415M	57	GMXDIG42-I-24	88	K1122	24
BEZ-55GRAY	104	Digi20E-24	89	ET1115CR	41	FF430M	57	GMXDIG42-I-240	88	K121	23
BEZ-72	104	Digi20E-240	89	ET1125C	41	FF460M	57	GMXDIG42-I-240	88	K121-30	23
BEZ-72P	104	Digi20E-277	89	ET1125CPD82	41	FF46H	57	GMXDIG42-0-12	88	K122	23
C8815	29	Digi42/2-120	90	ET1125CR	41	FF4H	57	GMXDIG42-0-120	88	K1221	24
C8835	29	Digi42/2-24	90	ET1705C	43	FF5M	57	GMXQT-I-120	83	K1222	24
C8845	29	Digi42/2-240	90	ET1705CPD82	43	FF5MH	57	GMXQT-I-24	83	K4021C	21, 106
C8865	29	Digi42A-12	89	ET1705CR	43	FF60MC	57	GMXQT-0-120	83	K4022	21
C8866	29	Digi42A-120	89	ET1715C	43	FF60MHC	57	GMXQW-I-120	83	K4023C	21
CA3000	72	Digi42A-24	89	ET1715CPD82	43	FF6H	57	GMXQW-I-24	83	K4027	21
CA3000D	72	Digi42A-240	89	ET1715CR	43	FF6HH	57	GMXQW-I-240	83	K4033	21</

K4123C	22	LZ1	194	NA320	189	PG3500-240-3HLD	150	SM4400*9	55	T7402BC	33
K4124	22	LZ1004BR	194	NE1C	182	PG3500-480-3DLL	150	SM6600*1	55	T7801B	33
K4127	22	LZ1008	194	NE200C	182	PG3500-480-3Y	150	SM6600*10	55	T7801BC	33
K4133	22	LZ10131	193	NE250C	182	PG3500-600-3D	150	SM6600*16	55	T7802B	33
K4135	22	LZ111010B	192	NEZC	182	PG3500-600-3Y	150	SM6600*2	55	T8805P101C	30
K4136M	22	LZ11101P	192	NE3BC	182	PG4001-208-3Y	148	SM6600*3	55	T8845PV	30
K4141C	22	LZ11771H	193	NE5C	182	PG4001-240-2S	148	SM6600*4	55	TALENT0121-120	86
K4221C	22, 106	LZ11771HK	193	P1101	140	PG4001-240-3HLD	148	SM6600*5	55	Talento-121-120	86
K4222	22	LZ14001H	192	P1102FE	126	PG4001-480-3DLL	148	SM6600*6	55	TALENT0121-240	86
K4223C	22	LZ14001HP	192	P1102ME	126	PG4001-480-3Y	148	SM6600*7	55	Talento-121-240	86
K4224	22	LZ15004	195	P1103FE	126	PG4001-600-3D	148	SM6600*8	55	TALENT0471-120	92
K4227	22	LZ16220	196	P1103ME	126	PG4001-600-3Y	148	SM6600*9	55	TALENT0472-120	92
K4233	22	LZ2004AS	193	P1121	140	PG40-208-3Y	156	SP130B	183	TALENT0891-120	92
K4235	22	LZ2004DR	193	P1131	140	PG40-240-2S	156	SP230B	183	TALENT0891-24	92
K4236C	22	LZ2005TC	193	P1161	140	PG40-240-3HLD	156	SP440B	183	TALENT0892-120	92
K4251	22, 106	LZ20060B	193	P1203FR	126	PG40-480-3D	156	SP500	183	TALENT0894-120	92
K4253	22	LZ2006WB	193	P1261P	140	PG40-480-3Y	156	SP640B	183	TALENT0894-24	92
K4321C	21	LZ20070B	194	P1261PE	140	PG4501-208-3Y	147	SRS3800-120	92	TB121C	178
K4421M	22, 106	LZ2015DR	194	P1353ME	121, 125, 134	PG4501-240-2S	147	ST01AC	179	TN111C	178
K4423M	22	LZ21811K	193	P4243ME	121, 134	PG4501-240-3HLD	147	ST01C	179	TN111GC	178
K4500	23	LZ21811WH	193	P7101ME	126	PG4501-480-3DLL	147	T1000R	38, 129	TN311C	178
K4521	23	LZ3001	191	P7102ME	126	PG4501-480-3Y	147	T10004R	129	TN711C	178
K4522	23	LZ3003TC	191	P7103ME	126	PG4501-600-3D	147	T10004RT1	134	TN811C	178
K4524	23	LZ30050B	191	PA114	141	PG4501-600-3Y	147	T10004RT3	134	TS100RS	37
K4533	23	LZ30080B	191	PA118	122	PG5001-208-3Y	146	T101	26	UWZ48-120U	102
K4535	23	LZ303RB	196	PA120	123	PG5001-240-2S	146	T10101R	129	UWZ48-240U	102
K4536SS	25	LZ314	196	PA121	123	PG5001-240-3HLD	146	T101B	129	UWZ48-240U	102
K4536SST	25	LZ3501DR	191	PA122	123	PG5001-480-3DLL	146	T101M	127, 129, 131	UWZ48A-120U	102
KL112H	56	LZ407	193	PAV215	142	PG5001-480-3Y	146	T101P	26	UWZ48A-240U	102
KL112H-A	57	LZ413	195	PAV215C	142	PG5001-600-3D	146	T101P201	128	UWZ48A-24U	102
KL112HH	56	LZ415	195	PAV220	142	PG5001-600-3Y	146	T101P3	128	UWZ48E-120U	102
KL112HH-A	57	LZ418	193	PAV220C	142	PG60-208-3Y	153	T101PCD82	26	UWZ48E-240U	102
KL112HH-W	56	LZ419	195	PAV315	142	PG60-240-2S	153	T101R	26	UWZ48E-24U	102
KL112H-W	56	LZ422W	193	PAV315C	142	PG60-240-3HLD	153	T101R201	128	UWZ48V-120U	102
KL115M	56	LZ422WBR	193	PAV320	142	PG60-480-3DLL	153	T101R3	128	UWZ48V-240U	102
KL115M-A	57	LZ4H	194	PAV320C	142	PG60-480-3Y	153	T102	26	UWZ48V-24U	102
KL115MH	56	LZ4HW	194	PC1-120-LS1	99	PG80-208-3Y	151	T102M	127	UWZ52E-120U	102
KL115MH-A	57	LZ4MMOB	194	PC1-120-LS2	99	PG80-240-2S	151	T102P	26	V45471CR	34
KL115MH-W	56	LZ511A	196	PC1-277-LS1	99	PG80-240-3HLD	151	T102R	26	V45471R	34
KL115M-W	56	LZ511B	196	PC1-277-LS2	99	PG80-480-3DLL	151	T103	26	V45472CR	34
KL12H	56	LZ511C	196	PC1-D20-120-LS1	100	PG80-480-3Y	151	T103M	127	V45472R	34
KL12H-A	57	LZ511R	196	PC1-D20-120-LS2	100	PJB2175	141	T103P	26	VPKG-11-CGI	116
KL12H-W	56	LZ5130B	193	PC1-D20-277-LS1	100	PJB4175	141	T103PCD82	26	VPKG-11-CGI	116
KL130M	56	LZ6	194	PC1-D20-277-LS2	100	PR3C	182	T103R	26	VWG-01-CGI	116
KL130M-A	57	LZ6001	195	PC2-120-LS1	99	PX100	133	T104	26	WH40	35
KL130MH	56	LZ6002	195	PC2-120-LS2	99	PX100S	133	T10404R	129	WHQ4	84
KL130MH-A	57	LZ601	192	PC2-277-LS1	99	PX300	133	T104-20	35	WHQ7	84
KL130MH-W	56	LZ602	192	PC2-277-LS2	99	PX600S	133	T104M	127, 129-132, 134	WL035HPS	112
KL130M-W	56	LZ603	192	PC2-D30-120-LS1	100	PX600	133	T104M201	127, 129, 131	WL050HPS	112
KL14H	56	LZ604B	196	PC2-D30-120-LS2	100	PX600S	133	T104P	26	WL050MH	112
KL14H-A	57	LZ605RP	195	PC2-D30-277-LS1	100	R8806P101C	30	T104P201	128	WL070HPS	112
KL14H-W	56	LZ701	194	PC2-D30-277-LS2	100	R8815P101C	30	T104P3	128	WL070HSPSC	115
KL15M	56	LZ701W	194	PE1501RC	119	R8816P101C	30	T104PCD82	26	WL070MH	112
KL15M-A	57	LZ702	194	PE153	124	RC1213MT	137	T104R	26	WL100HPS	112
KL15MH-A	57	LZ702W	194	PE153F	124	RC2123PT	137	T104R201	128	WL100MH	112
KL15M-W	56	LZ704	194	PE153P	124	RC2133M	137	T104R3	128	WL150HPS	112
KL160M	56	LZ704W	194	PE153PF	124	RC2133P	137	T105	26	WL150MH	112
KL160M-A	57	LZ706	196	PE153PW	124	RC2163BE	138	T10604R	129	WL175MH	112
KL160MH	56	LZ7C14	192	PE153PWF	124	RC2163BE	138	T106M	127, 129, 131	WL250HPS	112
KL160MH-A	57	LZ7FC4	192	PE153W	124	RC2163E	138	T106R	26	WL250MH	112
KL160MH-W	56	LZ7Z6	192	PE153WF	124	RC2163FE	138	T12404R	129	WL400HPS	112
KL160M-W	56	LZ80010B	191	PE1541RC	119	RC2233M	137	T1471BCR	27	WL400MH	112
KL16H	56	LZ8002	194	PE24VA	142	RC2233P	137	T1471BR	27	WLC100HPS	113
KL16H-A	57	LZ90004	195	PE25300	125	RC2263BE	138	T1472BR	27	WLC100MH	113
KL16HH	56	MB-48V	104	PE25300RC	125	RC2263E	138	T1475BR	27	WLC150HPS	113
KL16HH-A	57	MB-DIN	104	PE25K120V	118	RC2343M	137	T171	27	WLC150MH	113
KL16HH-W	56	ML72AQTUZH-120	85	PE25K240V	118	RC2343MT	137	T171CR	27	WLC175MH	113
KL16H-W	56	ML72AQTUZH-24	85	PE35300	125	RC2343P	137	T172	27	WLC250HPS	113
KM2ST-1G	97	ML72AQWUZH-120	85	PE40K120V	118	RC2343PT	137	T173	27	WLC250MH	113
KM2ST-2D	97	ML72AQWUZH-24	85	PE40K240V	118	RC2403RT	137	T173CR	27	WLC400HPS	113
KM2ST-2G	97	ML72AQWZH-240	85	PE45343RC	120	RC613	139	T173R	27	WLC400MH	113
KM2ST-2R	97	ML72ASTUZ-120	85	PE45343RCT1	120, 134	RC613L	139	T174	27	WLC70HPS	113
KM2ST-3D	97	ML72ASTUZ-24	85	PE45343RCT3	120, 134	RC613R	139	T174CR	27	WLCF150HPS	113
KM2ST-3G	97	ML72ASTUZ-240	85	PE650	120, 122	RC615	139	T174R	27	WLCF150MH	113
KM2ST-4G	97	ML72ASTUZH-120	85	PE950	120, 122	RC939	139	T175	27	WLCF175MH	113
KM2STST-2G	97	ML72ASTUZH-24	85	PEDCELL	118	RZ52DHU	103	T176	27	WP1000BOX	16
KM2STU-1G	97	ML72ASTUZH-240	85	PEDCHLR	118	RZ52H	104	T1871BR	27	WP1000C	19
KM2STUH-120	94	ML72ASWUZ-120	85	PF1102	135	RZ52HU	103	T1905	28	WP1000FLNG	16
KM2SW-1G	97	ML72ASWUZ-24	85	PF1102M	135	RZ52V	103	T1905E	28	WP1000GC	19
KM2SW-2D	97	ML72ASWUZ-240	85	PF1102MT	135	RZ52VU	103	T1906	28	WP1000HC	14, 19
KM2SW-2G	97	ML72ASWUZH-120	85	PF1102T	135	SG160K-208-3Y	164	T1975	28	WP1000HFN	16
KM2SWSW-2G	97	ML72ASWUZH-24	85	PF1103	135	SG160K-240-3HLD	164	T1975E	28	WP1000HRC	19
KM2SWU-1G	97	ML72ASWUZH-240	85	PF1103M	135	SG160K-480-3D	164	T1975ER	28	WP1000R	16
KWZ72-120U	101	ML72EQTUZH-120	85	PF1103MT	135	SG240K-208-3Y	163	T1975R	28	WP1000RC	16
LC2000	24	ML72EQTUZH-24	85	PF1103T	135	SG240K-240-3HLD	163	T1976	28	WP1000VFN	16
LC4521C	23	ML72EQWUZH-120	85	PF1112T	136	SG240K-480-3D	163	T1976R	28	WP101	18
LC4521LA	23	ML72EQWUZH-24	85	PF1202T	136	SG240K-480-3Y	163	T20004R	130	WP1010C	19
LC4523	23	ML72EQWUZH-240	85	PF1222TB	136	SG240K-480-3Y	163	T2005	32	WP1010HC	14, 19
LC4523LA	23	ML72ESTUZ-120	85	PG1000-208-3Y	161	SG320K-208-3Y	162	T2006	32	WP1010HMC	17, 19
LC4527	23	ML72ESTUZ-24	85	PG1000-240-2S	161	SG320K-240-3HLD	162	T21000R	130	WP1010MC	17, 19
LC4535	23	ML72ESTUZ-240	85	PG1000-480-3D	161	SG320K-480-3D	162	T21001R	130	WP102	18
LC4535LA	23	ML72ESTUZH-120	85	PG1000-480-3Y	161	SG320K-480-3Y	162	T21004R	130	WP1020C	14, 19
LC4536C	23	ML72ESTUZH-24	85	PG100-208-3Y	149	SM2200*1	55	T30000R	38	WP103	18
LC4536LAC	23	ML72ESTUZH-240	85	PG100-240-2S	149	SM2200*16	55	T30000R5	131	WP1030C	14, 19
LM1-1-120	99	ML72ESWUZ-120	85	PG100-240-3HLD	149	SM2200*2	55	T30004R	131	WP1030MC	17, 19
LM1-0-120	99	ML72ESWUZ-24	85	PG100-480-3DLL	149	SM2200*3	55	T30401R	131	WP1050	14, 19
LM1-0-277	99	ML72ESWUZ-240	85	PG100-480-3Y	149	SM2200*4	55	T30404R	131	WP107	18
LM2-1-120	99	ML72ESWUZH-120	85	PG1500-208-3Y	160	SM2200*5	55	T30604R	131	WP1100C	14, 19
LM2-0-120	99	ML72ESWUZH-24	85	PG1500-240-2S	160	SM2200*6	55	T32404R	131	WP1100WC	19
LM2-0-277	99	ML72ESWUZH-240	85	PG1500-480-3D	160	SM2200*7	55	T40000R	38, 132	WP1110C	14, 19
LT0870B	186	ML100THB	190	PG20-208-3Y	158	SM2200*8	55	T40000R4	132	WP1110WC	19
LT13	186	ML10401	190								

Grounded in a tradition of innovation and service

In 1891, Intermatic began producing portable fare registers for streetcars. Over the next 115 years, Intermatic developed a huge variety of products that have increased the safety, productivity and convenience of homes and businesses around the world.

Driven by new technology and the needs of our customers

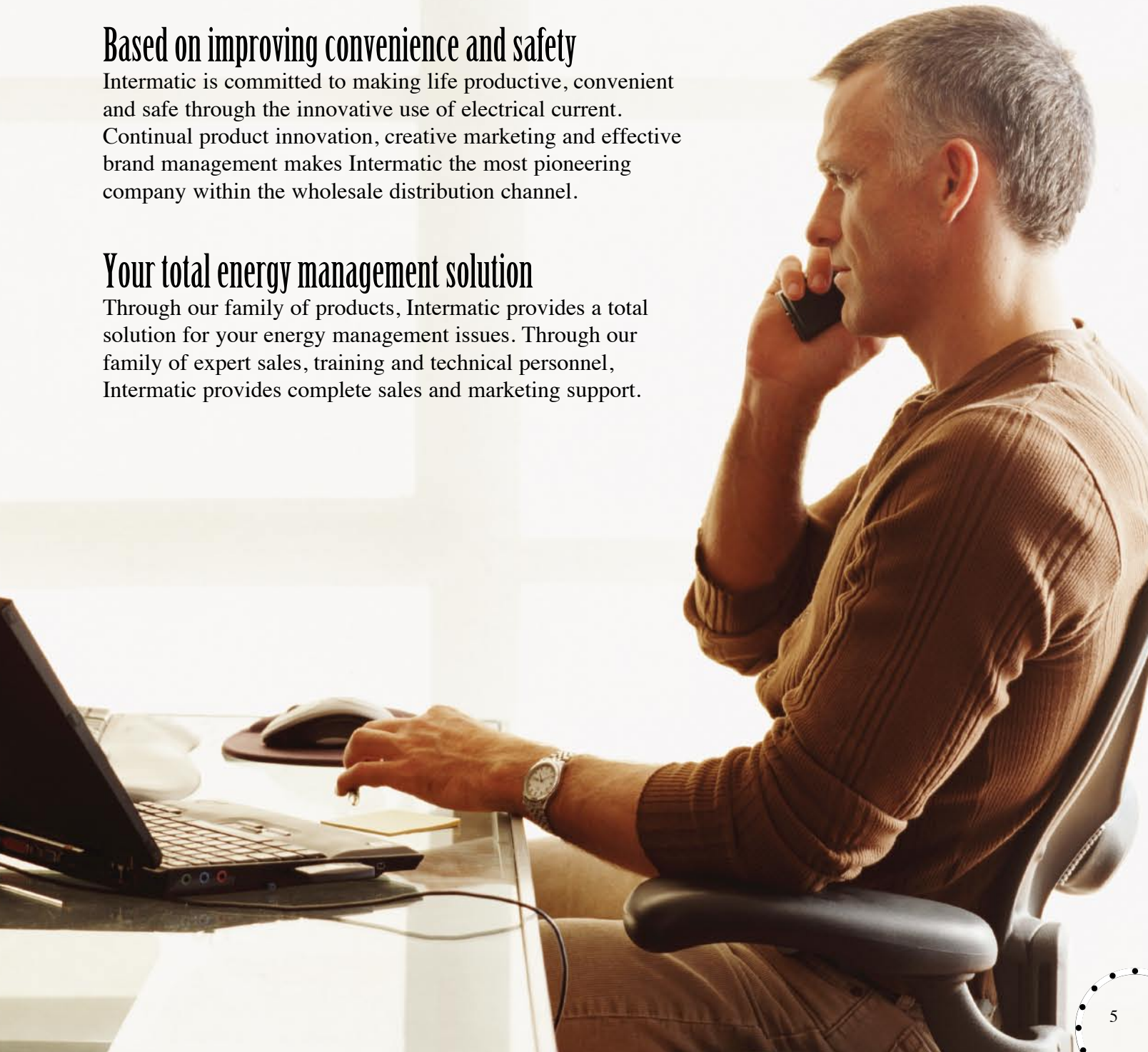
Today, Intermatic is the leading supplier of high quality energy control products for industrial and commercial markets — moving into the 21st century with an extensive line of technology-driven products backed by an unparalleled level of customer service.

Based on improving convenience and safety

Intermatic is committed to making life productive, convenient and safe through the innovative use of electrical current. Continual product innovation, creative marketing and effective brand management makes Intermatic the most pioneering company within the wholesale distribution channel.

Your total energy management solution

Through our family of products, Intermatic provides a total solution for your energy management issues. Through our family of expert sales, training and technical personnel, Intermatic provides complete sales and marketing support.



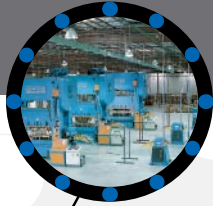
Service entrance surge protection



HVAC energy controls



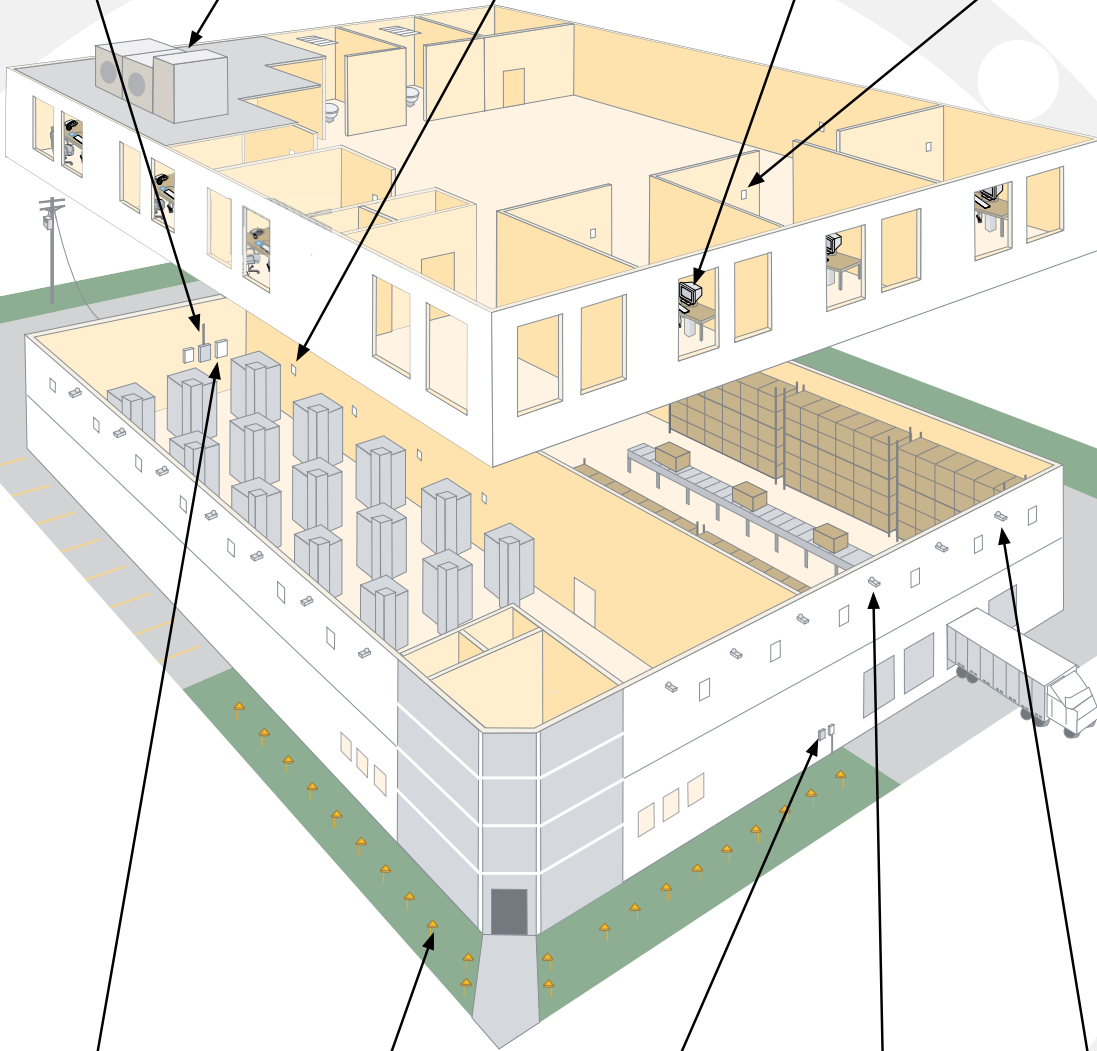
Auto shut-off timers



Office equipment surge protection



Interior lighting controls



Service entrance energy controls



Landscape lighting



Exterior receptacle covers

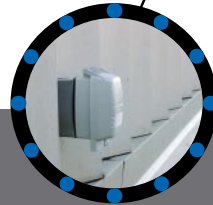
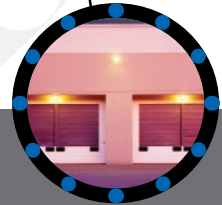


Photo controls



HID lighting



Intermatic has everything contractors, maintenance personnel and plant or facility managers need to keep their factories, centers and businesses running at their peak.

Intermatic Commercial and Industrial Applications

- Interior and exterior lighting control
- Parking lot lighting control
- Mechanical time switches
- Electronic time switches
- Service entrance and panelboard surge protection
- Point-of-use surge protection
- Exterior receptacle protection
- Landscape lighting

Intermatic has a full line of commercial and industrial products needed to reduce electricity and labor costs and decrease power quality problems. Small investments in Intermatic energy controls and surge protection can:

- Increase energy savings
- Increase up-time
- Increase productivity
- Increase data retention

Whether it's part of a manufacturing, distribution or office environment, Intermatic offers a broad line of commercially related products for:

- High amperage/voltage machinery
- Heavy duty pumps
- Motors
- Variable frequency drives
- HVAC systems

In addition to a broad range of products, Intermatic provides complete bid specifications and wiring diagrams for every model and each product is backed up by the industry's best sales support and technical assistance team.

Z-WAVE™

For more than a century, Intermatic has been a premier supplier of commercial and industrial products and has developed a reputation for providing its customers with innovative products that far exceed their expectations. The new InTouch Wireless Controls™ line of home controls will serve as the primary link to the Intermatic System. Brought to life with Z-Wave™ technology, InTouch Wireless Controls™ will help our customers grow their business within the booming home controls industry and will help home and business owners achieve higher levels of convenience, security and safety.

Residential Applications

Whether you're an electrical contractor, homebuilder or homeowner, Intermatic is the only name you need to know for increased levels of convenience, safety, security and electronic protection.

Intermatic Residential Applications

- Interior and exterior lighting control
- Whole home energy controls
- Whole home surge protection
- Home office and home theatre surge protection
- Pool and spa controls
- Landscape lighting
- Exterior receptacle protection
- Security floodlighting

With electricity costs on the rise and power quality problems at an all time high, Intermatic has a full line of residential products needed to combat these issues.

A minor investment in energy controls and surge protection can prove to have major long-term cost savings and home appliance/electronic preservation. Intermatic residential products provide homeowners with multiple benefits, including:

- Whole home energy savings
- Lighting automation to increase the beauty, Safety and security of your home
- Surge protection for home appliances and electronics
- Landscape lighting to accent your home and property
- Pool and spa controls for improved cost savings and convenience

Intermatic provides the home building industry with the most comprehensive offering of residential energy control and surge protection products. Intermatic also offers weatherproof products, pool and spa controls and low voltage landscape lighting. Intermatic products can be used through a home and the surrounding property, including:

- Garages and outbuildings
- Landscaping
- Entrances
- Kitchens and bathrooms
- Home offices and entertainment centers
- Pool and spas

Intermatic has developed two marketing programs to benefit those within the residential market:

- **Intermatic Authorized Installer Program** helps contractors up-sell during a service call.
- **InGenius Homebuilder Program** helps builders of new homes increase their add-on opportunities.

Z-WAVE™

The future of the digital home is closer than we realize. Intermatic has a growing list of home control products that work together to enhance the safety, security and convenience of our complex and eventful lives. Intermatic has the knowledge, ability and resources to revolutionize home automation.

Garage lighting controls



Bathroom fan, lighting and whirlpool controls



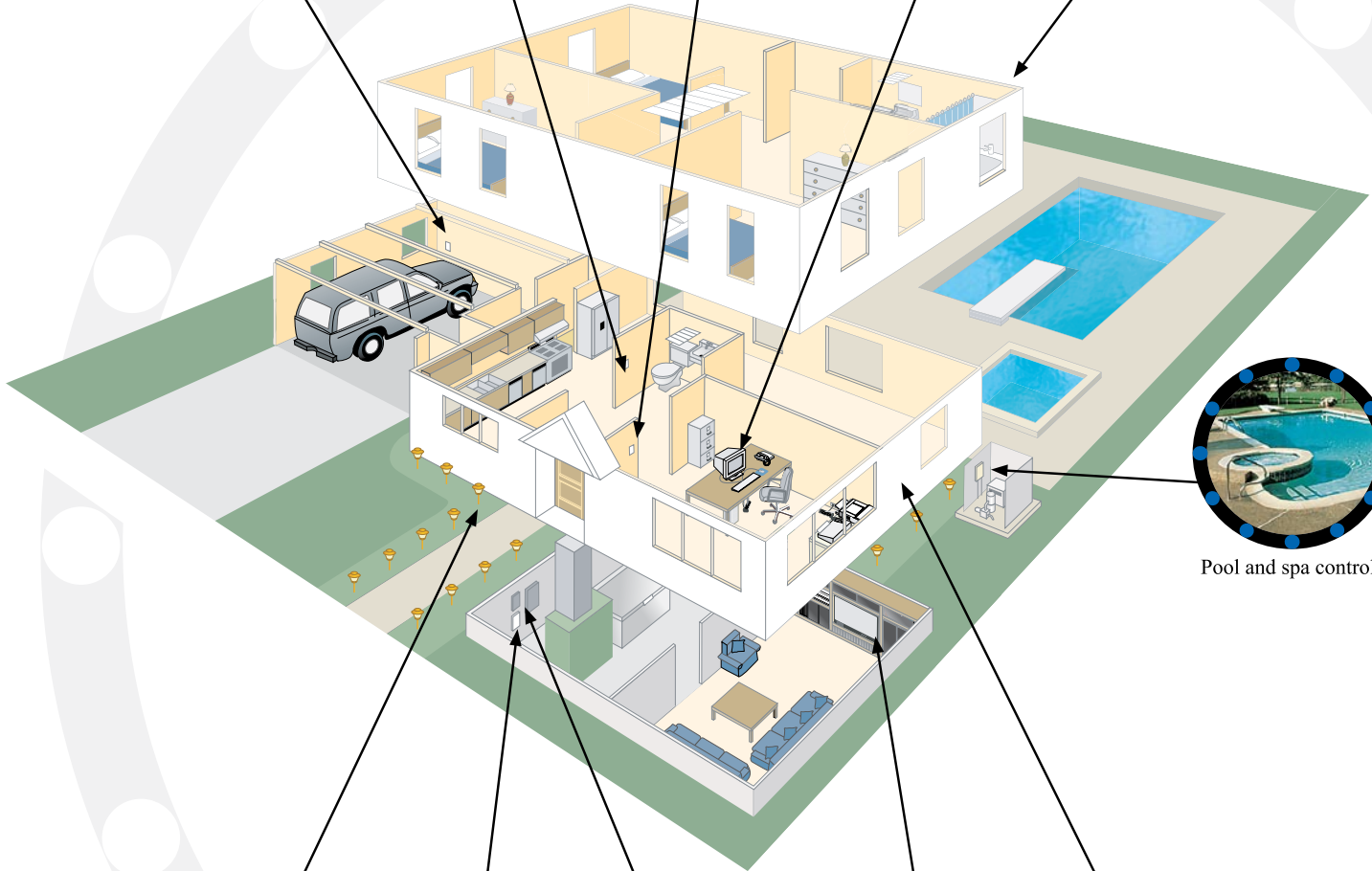
Entrance/porch lighting



Home office surge protection



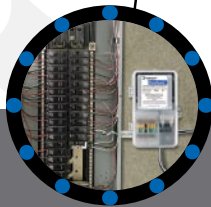
Area floodlighting



Pool and spa controls



Landscape lighting



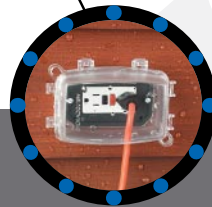
Whole home surge protection



Whole home energy controls



Wireless home controls



Exterior receptacle protection

Intermatic provides you with everything you need in order to draw, secure and maintain steady sales growth

Opportunities include:

- Advanced Sales Support
- Sales Incentives
- Sales Training
- Sales Programs and Promotions
- Merchandising
- Interactive Web Site

The Industry's Best Sales Support

Our distributor sales training includes ways to best merchandise and up-sell our wide array of products. Training takes place at local, regional and national trade shows. In addition, Intermatic holds regular counter days and product "lunch and learns," hosted by our direct sales personnel and sales agents, on location at local distributors.

Call 800-391-4555 for toll-free technical support and assistance with programming, installation or application questions. Intermatic also works with engineers and specifiers and holds seminars for them on InTouch Wireless Controls™, surge suppression products and Next Generation time switches. Contact your local Intermatic sales representative or visit www.intermatic.com.

Intermatic's order service support is set up to allow distributors and OEM customers to receive product when, where and how they want it. Drop shipments, multi-location shipments, blanket orders, express shipping and ship complete orders are complemented by a variety of other order support services. Our highly trained customer service representatives can also provide you with support for technical questions and applications by calling 815-675-7000 between 8:00 a.m. and 4:30 p.m. CST, Monday through Friday.



Intermatic Merchandising/Support

Customized Sales Incentives

Regular sales spiffs for sales and counter personnel are designed to motivate the seller and push product at every level. Customized sales support literature can also be designed for local made-to-order programs.

Comprehensive Sales Training

Providing you with the industry's best electrical products is step one. Helping you get those products into the hands of your customer is step two. The best way to make that happen is to supply you with specific information on how to sell and up-sell within our five categories of products. On site or at the counter, Intermatic gives you the answers to frequently asked questions and provides you with good, better and best scenarios and competitive comparisons in order to help you help your customers make the best buying decision.

Motivational Sales Programs and Promotions

Intermatic is a total business partner and backs the sale of its products with innovative programs and promotions at every level, with support provided to distributors, contractors and home builders.

- The Power-Plus Program for distributors increases their margins and inventory turns while lowering their transaction costs.
- The Authorized Installer Program helps contractors add to their bottom line by up-selling and installing additional products during service calls.
- The InGenius Program helps home builders sell upgrades at model homes and in the sales office.

Intermatic also provides a regular selection of promotions that include shipper/displays, product introductions, contractor bonus packs and Intermatic branded merchandise.

Thought-provoking Merchandising

Eighty percent of walk-in customers will buy additional products, if merchandising is done effectively. Sixty-five percent of all purchases are affected by displays and visual graphics. That is why Intermatic has invested heavily in merchandising resources in order to boost your return on investment. Intermatic's Industrial Merchandising program provides you with the support and information you need to achieve maximum results, increase impulse purchases and build effective displays.

Merchandising items include:

- Plan-o-grams
- Header cards
- Floor, wall and counter displays
- Self shipper displays
- P.O.P. displays
- Counter mats
- Banners
- Spec and cross reference CDs
- Product demo and literature CDs

Interactive Web Site Marketing

Intermatic's e-marketing program utilizes the Internet to provide fast, efficient, 24/7 communications with both distributors and end users.

Intermatic's Web site includes:

- Authorized distributor locator
- Authorized installer locator
- Downloadable specifications, wiring diagrams and instruction manuals
- E-mail technical support
- General catalog (downloadable PDF)
- Warranty registration

In the future, a variety of enhancements will be implemented that will include improved navigation, product search by category or model number, competitive product search, ordering of product literature and an events/news page. Also, a new secured-access distributor intranet will provide additional product education and sales training, distributor spec sheets, pricing and promotions, a job-quoting tool and a discussion board.

For more information on Intermatic sales support, programs and promotions, contact your local Intermatic sales representative, visit www.intermatic.com or call 815-675-7000 between 8:00 a.m. and 4:30 p.m. CST, Monday through Friday.

Five reasons to keep your eye on Intermatic

Superior New Product Developments

Intermatic is able to leverage its global and technological resources to provide its customers with products full of innovative features and benefits and maintain its first-to-market stature.

World-class Global Manufacturing

The Intermatic family is made up of a global workforce, who through lean manufacturing methods, produce the world's finest energy control products.

Excellent Supply Chain Management

Regardless of its substantial growth, Intermatic has remained flexible and responsive and completely customer focused. At Intermatic, intensive quality control and on-time deliveries are customary.

Complete Sales and Marketing Support

Over the course of the year, Intermatic helps promote its products through a variety of sales incentives, promotions and merchandising campaigns. We also offer distributor training and technical support at every level.

Superior Enterprise Information Systems

Flexible, Web-based information gives us a competitive advantage and real-time information keeps us up to date to help take better care of our customers.

WEATHERPROOF

Your Outdoor Needs are Covered

Often times, the simplest things in life make the biggest impact. Intermatic understands that simple measures can have a big effect in protecting the electrical systems and products within your home or business.

Intermatic has designed a line of hard wearing weatherproof products that provide an exact match to the application, are easy to install and provide reliability and longevity. Our full line of weatherproof products are the perfect combination of utility and innovation. From our patented Flexi-Guard covers to our heavy duty die-cast outlet boxes, lamp holders and fittings, Intermatic has you completely covered from start to finish.

Intermatic also makes it easy to stay current with the latest electrical codes and all models comply with 2002 NEC Article 250.146, which provides direct mounting of wiring devices to the switch box.

We have the best coverage in the industry and are constantly updating our product categories to meet your ever-changing needs and requirements. As new codes and articles are being introduced and enforced, Intermatic will have the box, cover or accessory you need to remain compliant.



Weatherproof Receptacle Covers with Patented Insert Design



These NEMA 3R receptacle covers ensure compliance with 2005 NEC Article 406.8 (B) (1) which requires that 15 and 20 ampere, 125 and 250 volt receptacles installed in a wet location have an enclosure that is weatherproof whether or not the attachment plug cap is inserted. They also meet the 1999 NEC Article 410-57(b) and are designed to meet the 1999 NEC Article 210-60(b), which requires that receptacles installed behind beds in hotels and motels be protected with a suitable guard.

All covers are shipped with gasket, mounting screws, base and cover assembly and patented inserts. The Flexi-Guard series provides inserts for a variety of applications; 16 for the WP3100/WP1100 single gang series and 70 for the WP1200 two gang series. The single gang Flexi-Guard models are all designed to mount horizontally or vertically. The patented insert design ensures flexibility in the field by simply inserting the proper insert into the base and cover assembly. The two gang Flexi-Guard models utilize six "split" inserts which create virtually any dual device combination, as well as providing additional flexibility because the inserts can be rotated 90, 180 or 270 degrees. This provides coverage for horizontally or vertically mounted devices as well as "left hand" or "right hand" applications without removing and switching the two installed devices.

The "jumbo covers" WP1150C, WP1250C, WP1050 and WP1050G provide protection for a single large cord set (up to 3/4" dia.) for portable spa heaters and other heavy duty applications. A lockable hasp is provided on selected models. The hasp accepts up to .315" (8 mm) diameter shank.

NEMA 3R

Meets UL and CSA Cold Impact Testing at -60°F (-51°C)

Patented: U.S. Patent #5 280 135 U.S. Design Pat. #342233
Canadian Patent #2 073 932 Other Patents Pending

Waterproof Cover Applications

- Vending Machines
- Amusement Equipment
- Ventilating Fans
- Landscape Lighting
- Outdoor Signs
- RV Connectors
- Seasonal Lighting
- Remote Power Needs
- Portable Spas
- Portable Marquees
- Sprinkling Controls
- Drinking Fountains
- Athletic Field Lighting
- Score Board Controls
- Bug Zappers
- Car Lot Lighting
- Gate Controls
- Process Start Up
- Equipment
- Septic Lift Pumps
- Car Washes
- Low Voltage Lighting
- Meat Processing
- Engine Block Heaters
- Holiday Lighting
- Food Preparation
- Plant Grow Lighting
- Plant Watering
- Remote Feeders
- Irrigation Pumps
- Hotel Applications
- Scoreboard Controls

Specifications

All covers for flushmount, surface mount or FS junction box mounting.

Cover – Clear (gray or white on selected models) UV stabilized polycarbonate with two cord outlets 1/2" (12.7 mm) Wide by 9/16" (14.2 mm) High. Models WP1150C, WP1250C and WP1050 one cord outlet 3/4" (19.1 mm) Wide by 1-5/16" (33.3 mm) High.

Mounting Base and Inserts – Black UV stabilized polycarbonate.

Gasket – Neoprene - 1/8" (4.8 mm) thick with slits for mounting screws.

Shipping Weight – WP3100C – .45 lbs. (0.20 kg)

WP1100C / WP1000HC – .38 lbs. (0.17 kg)

WP1110C / WP1010HC – .41 lbs. (0.19 kg)

WP1150C / WP1230C / WP1030C – .75 lbs. (0.34 kg)

WP1220C / WP1020C – .72 lbs. (0.33 kg)

WP1250C / WP1050 – .9 lbs. (0.41 kg)



UL514D
E142193



C22.2-42.1
LR88576

Weatherproof Receptacle Covers with Patented Insert Design



WP3100C - Vertical/Horizontal Cover

Flexi-Guard Weatherproof While-In-Use Cover

Product Features

- Complies with 2005 NEC® Article 406.8(B)(1): "15 and 20 Ampere, 125 and 250V receptacles installed in wet locations shall have an enclosure that is weatherproof whether or not the attachment plug cap is inserted"
- Easy to remove cord set exit ports

Applications

Provides an attractive, code compliant solution for protecting while-in-use outdoor receptacles.

Specifications

- Mounts Vertically or Horizontally
- Hidden Hinges
- Three patented inserts for GFCI, Duplex, Toggle and Single Receptacles
- Inserts include keyhole slots for 16 installation configurations
- Pre-adhered gasket
- Heavy-duty polycarbonate construction
- Clear Cover
- Gray Base
- Meets requirements for cold impact testing at -60° F (-51°C)
- Lockable hasp for 1/8" shank lock

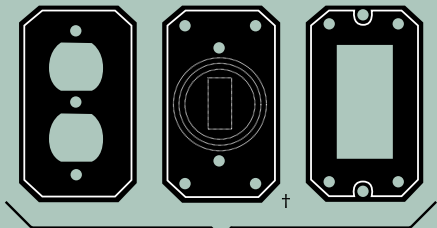
Warranty: Limited 1-year warranty



1.00 lbs
0.45 kg



GFCI DEVICE SHOWN NOT INCLUDED



Single Gang Flexi-Guard

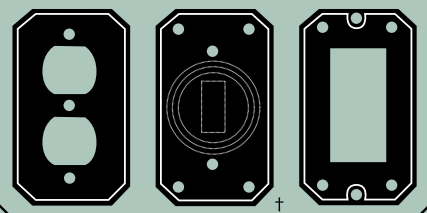
† Converts to toggle, 1-3/8", 1-5/8", 1-3/4", or 2-1/8" diameter round



Weatherproof Receptacle Covers with Patented Insert Design



GFCI DEVICE SHOWN NOT INCLUDED

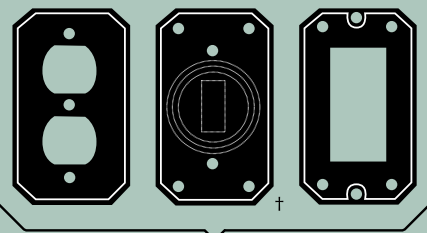


Single Gang Flexi-Guard

† Converts to toggle, 1-3/8", 1-5/8", 1-3/4", or 2-1/8" diameter round



GFCI DEVICE SHOWN NOT INCLUDED



Single Gang Flexi-Guard

† Converts to toggle, 1-3/8", 1-5/8", 1-3/4", or 2-1/8" diameter round

WP1000RC - Vertical Cover WP1000HRC - Horizontal Cover

Recessed Weatherproof While-In-Use Cover

Product Features

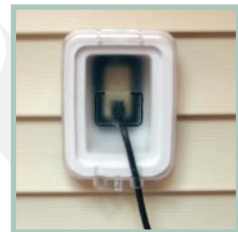
- Complies with 2005 NEC® Article 406.8(B)(1)
- Heavy duty, polycarbonate cover for long lasting durability

Applications

Provides an attractive, code compliant solution for protecting while-in-use outdoor receptacles.

Specifications

- Device installs recessed in wall for a flush finish for Siding, Stucco or Brick finishes
- Removable siding flange provides clear finish for all siding types
- Patented single gang inserts for GFCI, duplex, single receptacles, toggle switch and blank
- Heavy Duty Gasket ensures protection from the elements
- Recessed Sleeve adjusts to ensure lowest profile installation in every application
- Outlet box offers mounting options for stud, block, brick or cut-in
- Cord exit easily handles two 12/3 cord sets
- Handles NmB (Non-Metallic Building Wire) or conduit installations
- Wider access to device for easy cord set installation
- Heavy duty, UV resistant, polycarbonate constructed cover



2.00 lbs
0.91 kg

Warranty: Limited 1-year warranty

Item#	Description
WP1000RC	Recessed In-Use Cover Kit: Includes Back Box, Siding Flange, and Vertical Mount Finish Kit
WP1000HRC	Recessed In-Use Cover Kit: Includes Back Box, Siding Flange, and Horizontal Mount Finish Kit
WP1000BOX	Recessed In-Use Cover Back Box Only
WP1000FLNG	Recessed In-Use Cover Siding Flange Only
WP1000VFIN	Recessed In-Use Cover Vertical Finish Kit Only
WP1000HFIN	Recessed In-Use Cover Horizontal Finish Kit Only

WP2000 Flexi-Guard Outlet Post

Weatherproof While-In-Use Cover

Product Features

- Complies with 2005 NEC® Article 406.8(B)(1)
- Heavy duty PVC construction for long lasting durability

Applications

Provides a new, code compliant solution for supplying power to gardens and other out-of-the-way areas. A remotely mounted energy saving photo control and/or timer also available to activate area lighting

Specifications

- Patented single gang inserts for GFCI, duplex, single receptacles, toggle switch and blank
- Provisions for installing mechanical or digital timers to control area lighting:
 - PB912M10R: 24 hour, 120 Volt mechanical timer – allows for 2 ON/OFF daily cycles
 - PB313EK: 24 hour, 120 Volt electronic timer – allows for 8 ON/OFF daily cycles (Timers sold separately)
- Provisions for fixed-position, stem-mounting and stem & swivel mounting photo controls to control area lighting
- All ports accept 1/2", 3/4", or 1" PVC conduit (adapters included)
- Base includes mounting holes and template for optional concrete/pavement mounting
- Cover includes lockable hasp

Warranty: Limited-1 year warranty



3.00 lbs
1.36 kg

Weatherproof Receptacle Covers



Die Cast

These heavy duty die cast receptacle covers ensure compliance with the National Electrical Code (NEC). These models offer the same features as the plastic models but are manufactured of heavy duty cast metal for severe applications such as schools and commercial buildings. The two gang model WP1030MC includes inserts for double gang duplex and GFCI requirements. This patented insert design uses the same inserts as all WP1000 series weatherproof covers and provides flexibility in the field by selecting and inserting the proper insert. For other applications see insert listing below.

All models are recommended for 14 gauge or lighter cord sets. A lockable hasp is provided (lock not included). The hasp accepts up to .315" (8 mm) diameter shank.

Specifications

Cover – Gray die cast metal

Mounting Base – Gray die cast metal with cord outlets 1" (25.4 mm) Wide by 5/8" (15.9 mm) High; one for models WP1010MC and WP1010HMC and two for model WP1030MC.

Inserts – Black UV stabilized polycarbonate.

Gasket – Neoprene 1/8" (3.2 cm) thick with slits for mounting screws.

Shipping Weight – WP1010MC – 0.8 lbs. (0.36 kg)

WP1010HMC – 0.9 lbs. (0.41 kg)

WP1030MC – 1.1 lbs. (0.5 kg)

All models comply with 2005 NEC Article 250.146 which provides direct mounting of wiring devices to the switch box.



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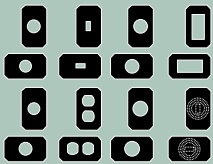


Now you can handle even more with less.

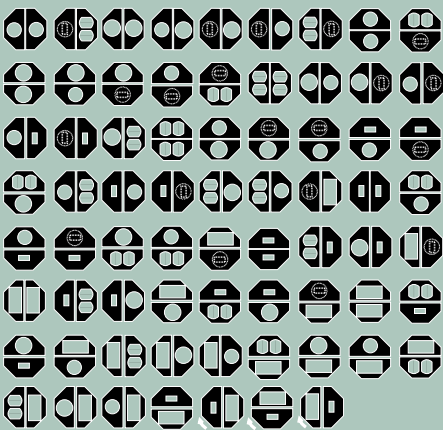
Inserts

Inserts fit single gang models and two gang models of clear, gray or die cast design. The 2-gang inserts for models WP1020, WP1030, WP1020GC, WP1030GC, WP1030MC and WP1050 can be mounted at any angle 90, 180 or 270 degrees from that shown. Additional hardware, if required, and special 2-gang gasket is packaged with 2-gang (WP200 series) inserts.

16 Configurations for Single Gang WP1100C Series



70 Configurations for Double Gang WP1200C Series



Additional inserts available for Flexi-Guard or Guardian Series



Two Gang Duplex	Two Gang GFCI	Two Gang Toggle	Two Gang Round	Two Gang Round
WP101	WP102	WP103	WP107	WP213
			1-3/8"	2-5/32"
			1-5/8"	2-21/32"
			1-3/4"	



Single Gang Flexi-Guard WP17	Two Gang Flexi-Guard WP217
† Converts to toggle, 1-3/8", 1-5/8", 1-3/4" or 2-1/8" diameter round	‡ Converts to toggle, 1-3/8" or 1-5/8" diameter round

Intermatic Flexi-Guard Weatherproof Receptacle Covers let you handle even more configurations with fewer units. The unique patented inserts and covers allow you to keep even less inventory than before, and cover more jobs out in the field.

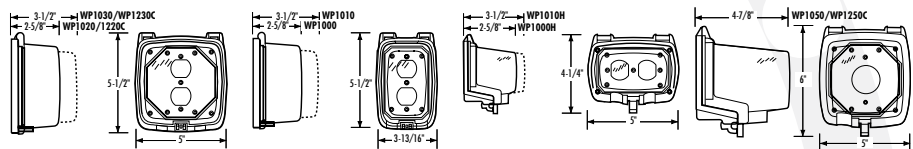
Our single gang models handle both vertical or horizontal applications, just by changing the hinge points. Our two-gang models include snap-together, rotating inserts that create combinations for almost every application.

With these new Flexi-Guard models, now more than ever, Intermatic is the best NEC code solution under the sun.

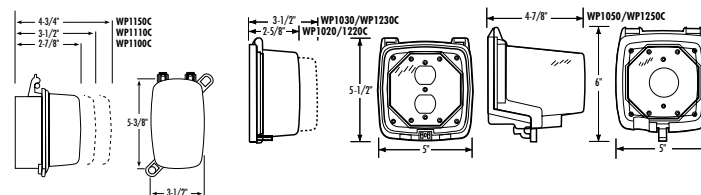
New Features

Single gang plastic models feature pre-adhered gaskets and all covers feature keyhole slots on inserts for the quickest installation available

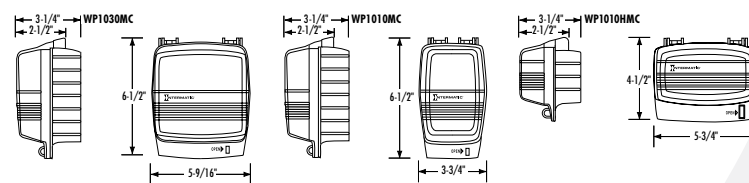
Clear & Opaque Gray Models



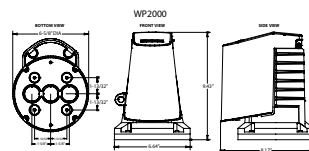
Clear & White Models



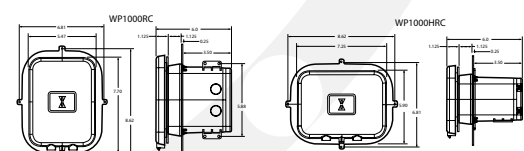
Heavy Duty Die Cast Models



Outlet Post



Recessed



Inset Design US Patent #5 280 135
Canadian Patent #2073932

Now you can handle even more with less.



	Patented Single Gang Vertical or Horizontal		Two Gang with Patented Snap-Together Inserts	Patented Die Cast Metal	Patented Two Gang Fixed	Patented Single Gang Fixed	
2-1/4" Standard Depth			Clear WP1220C		Clear WP1020C	Clear WP1000C Vertical WP1000HC Horizontal*	Gray WP1000GC Vertical WP1000HC Horizontal*
2-3/4" Standard Depth	Clear* WP1100C WP3100C	White* WP1100WC					
	Vertical or Horizontal						
3-1/8" Standard Depth			Clear WP1230C	Grey Die Cast WP1010MC Vertical Single Gang WP1030MC Two Gang WP1010HMC Horizontal Single Gang	Clear WP1030C	Clear WP1010C Vertical WP1010HC Horizontal*	
3-5/8" Standard Depth	Clear* WP1110C	White* WP1110WC					
	Vertical or Horizontal						
4-3/4" Standard Depth	Clear* WP1150C		Clear* WP1250C		Clear* WP1050		
	Vertical or Horizontal						
	WP1100 Series Includes 3 Patented Inserts		WP1200 Series Includes 6 Snap Together Patented Inserts	WP1000MC Series Includes these Patented Inserts	WP1000 Series Includes these Inserts	WP1000 Series Includes these Inserts	



* With lockable hasp

† Converts to toggle, 1-3/8", 1-5/8", 1-3/4" or 2-1/8" diameter round

‡ Converts to toggle, 1-3/8" or 1-5/8" diameter round

Insert Design US Patent #5 280 135
Canadian Patent #2073932

ENERGY CONTROLS

A photograph of a modern building at dusk. The building has a balcony with a black metal railing. A large glass door is open, revealing a brightly lit interior with a red wall and a sofa. The background shows a city skyline across a body of water under a dark blue sky.

Giving You Total Control

Within both home and work environments, Intermatic has been a leader in innovation for timing, switches and energy controls for more than 110 years. Intermatic provides the industry's broadest line of energy controls, with ratings and innovative features designed to handle any industrial, commercial or residential application.

Presently, the home controls industry is growing at an annual rate of 18 percent. Additionally, industry experts predict that the category of home controls could approach annual sales of \$500 million. Intermatic sees this as a wonderful opportunity, not only to grow our business, but help you grow yours as well – through the best product offerings, programs and support at every step of the way.



A full line of thermal type photo controls and relay type photo controls provide “dusk-to-dawn” lighting control. The thermal type controls feature a cadmium sulfide photocell and sonic welded polycarbonate case and lens to seal out moisture. The design utilizes a dual temperature compensating bimetal and a metal film resistor for reliable long life operation over ambient temperature extremes. The thermal type photo controls provide a delay action which eliminates loads switching OFF due to car headlights, lightning, etc.

Applications

- Parking Lot Lighting
- Area Lighting
- Car Lot Lighting
- Security Lighting
- Billboard Lighting
- Municipal Lighting
- Roadway Lighting
- Street Lighting



Model
K4321C
UL773A
E42722



C22.2-55
LR38068



K4000 Series
UL773A
E42722



5 Year
Warranty

Fixed Position Mounting, Thermal Type — K4000C Series

Designed to fit into a standard outlet box, a post lamp or wall packs. Model K4321 includes a weatherproof wall plate with neoprene gasket. The UL listing for this model applies to the entire plate assembly when properly mounted to an approved outdoor junction box. All other models are equipped with a 3/8"-18 threaded side mounting, locking nut and washer gasket. All models with 9" leads.

Size – Plate - 4-1/2" (11.4 cm) High, 2-3/4" (7.0 cm) Wide;
Mechanism - 1-5/16" (3.3 cm) W, 1-13/16" (4.6 cm) L, 13/16" (2.1 cm) D.

Model #	Watts Tungsten	VA Ballast	Amps Tungsten	Amps Ballast	Volts
K4021C	1800	1000	15	8.3	120
K4023C	3100-4150	1700-2300	15	8.3	208-277
K4022	3600	2000	15	8.3	240
K4033	4150	2300	15	8.3	277
K4027***	5205	2880	15	8.3	347
K4035*	7200	4000	15	8.3	480
K4321C**	1800	1000	15	8.3	120

Note: Wall plate with gasket available for other models; order No. K4001.

* Not UL listed or CSA certified.

** Wall plate included.

*** Certified by CSA to US and Canadian Standards.

Specifications

Unless noted otherwise, the specifications listed below apply to K4000, K4100, K4200, K4300 & K4500 Series.

Size – See individual models. Most hard wired models supplied with 6" leads. K4000 fixed position models have 9" leads.

Switch Rating – See chart for each series. Note that the ballast wattage rating is based upon a 50% power factor.

Activation – 1 - 5 FC “ON”; 3 - 15 FC “OFF” (without shield on models with shield.)

Color – Gray

Shipping Weight – See individual models.

K4021C



K4321C



Light Shield for K4000
Part Number 6LV1352



UL773A
E42722



C22.2-55
LR38068



K4000 Series
UL773A
E42722



5 Year
Warranty



Photo Controls

Stem Mounting, Thermal Type — K4100 Series

This series features single and multivolt models in both stem mount and stem mount with a swivel. All models are equipped with a light level slide adjustment and provide a 1/2"-14 threaded stem. A washer gasket and locking nut are packaged with each photo control. Models with "M" suffix have heavy duty die cast housings. Model K4251 and K4253 have photo eye located on top and are designed for spot/flood type fixtures.

Size – K4100 Series - 1-9/16" (4.0 cm) Square, 3" (7.6 cm) Long;
 K4200 Series - 1/2"-14 threaded swivel, 1-9/16" (4.0 cm) Square, 5-1/2" (14.0 cm) Long;
 Model K4236 - 5-3/4" (14.6 cm) High, 3" (7.6 cm) Diameter.

Model #	Watts Tungsten	VA Ballast	Amps Tungsten	Amps Ballast	Volts
K4121C	1800	1000	15	8.3	120
K4121M	2000	1800	16.7	15	120
K4421M	1800	1000	15	8.3	120
K4124	3100	1700	15	8.3	208
K4122	3600	2000	15	8.3	240
K4123C	3100-4150	1700-2300	15	8.3	208-277
K4423M***	3100-4150	1700-2300	15	8.3	208-277
K4133	4150	2300	15	8.3	277
K4127****	5205	2880	15	8.3	347
K4135*	7200	4000	15	8.3	480
K4136M	2000-4625	1800	16.7	8.6	120 or 277
**K4141C*	3000	3000	25	25	120

* Not UL listed or CSA certified.
 ** 1 year warranty.
 *** Model K4423M replaces K4123M
 **** Certified by UL, ULCS and Canadian Standards.



K4121C



K4121M



K4423M



K4221C



K4236C



K4251

Stem & Swivel Mounting, Thermal Type — K4200 Series

Model #	Watts Tungsten	VA Ballast	Amps Tungsten	Amps Ballast	Volts
K4221C	1800	1000	15	8.3	120
K4224	3100	1700	15	8.3	208
K4222	3600	2000	15	8.3	240
K4223C	3100-4150	1700-2300	15	8.3	208-277
K4233	4100	2300	15	8.3	277
K4227***	5205	2880	15	8.3	347
K4235*	7200	4000	15	8.3	480
K4236C	1800-4150	1000-2300	15	8.3	120 or 208-277
K4251***	1800	1000	15	8.3	120
K4253***	3100-4150	1700-2300	15	8.3	208-277

* Not UL listed or CSA certified.
 *** Certified by CSA to US and Canadian Standards.



C22.2-177
 LR3730



Locking-Type Mounting, Thermal Type — K4500 Series

Easy to install; just plug in and twist. This series is equipped with standard 3-prong NEMA locking-type plug connections. Incorporates K4000 style thermal switch for reliable long life performance. Complies with ANSI C136.10.

Size – 3-3/4" (9.5 cm) High, 3" (7.6 cm) Diameter.

Model #	Watts Tungsten	VA Ballast	Amps Tungsten	Amps Ballast	Volts
K4521	1800	1000	15	8.3	120
K4524**	3100	1700	15	8.3	208
K4522	3600	2000	15	8.3	240
K4533**	4100	2300	15	8.3	277
K4535**	7200	4000	15	8.3	480

* Ballast rating meets UL testing at 50% power factor.

** Not CSA certified.



UL773
E59121



C22.2-177
LR38068



3/4 lbs
.34 kg



5 Year
Warranty

Accessories for Locking-Type Controls

Pole Bracket Adapter – Model K122 - 105 to 480 Volts; for use with K1200, K4500 or LC4500 Series locking-type controls. K121 – receptacle only, K121-30 receptacle with 30 inch leads.

Shorting Cap – Model K4500 - 105 to 480 Volts; replaces locking-type photo control to complete circuit.



Low Cost Locking-Type, Thermal Type — LC4500 Series

The LC4500 Series provides low cost reliable control for street lighting and other applications requiring a NEMA twist and lock type plug connection. An integral housing and lens, with UV protection, keeps moisture out and ensures long life. Complies with ANSI C136.10.

Activation – .5 FC minimum "ON"; 15 FC maximum "OFF".

Size – 2-3/4" (7.0 cm) High, 3" (7.6 cm.) Diameter.

Color – Translucent with color coded band for voltage identification.

Model #	Watts Tungsten	VA Ballast	Volts
LC4521C	1000	1000	120
LC4523	1700-2300	1700-2300	208-277
LC4527	5205	2880	347
LC4535**	7200	4000	480
LC4536C	1000-2300	1000-2300	120 or 208-277
LC4521LA	1000	1000	120
LC4523LA	1700-2300	1700-2300	208-277
LC4535LA**	7200	4000	480
LC4536LAC	1000-2300	1000-2300	120 or 208-277

LA Models equipped with 2400 volt open type spark gap arrester.

* Ballast rating meets UL testing at 50% power factor.

** Not CSA certified.



UL773
E59121



C22.2-55
LR38068



.2 lbs
.09 kg



3 Year
Warranty



K4521



K122



K4500



K121
K121-30



LC4521C



Photo Controls

Relay Type Photo Controls With Adjustable Stem or Locking-Type Mounting — K1100, K1200 Series

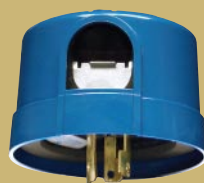
This series features "instant ON/OFF switching" in two mounting types. Complies with ANSI C136.10.



K1200



K1100



LC2000

Series K1100 – Equipped with an adjustable stem for mounting at almost any angle up to 80 degrees. Models equipped with three 6" color coded leads.

Series K1200 – Easy to install using NEMA plug-in locking type connection. Models are equipped with 2400 Volt open type spark gap arrester and standard 3-prong connector.

Size - K1100 Series – 5-3/4" (14.6 cm) High, 3" (7.6 cm) Diameter; 1/2"-14 NPT Stem;

K1200 Series – 3-3/4" (9.5 cm) High, 3" (7.6 cm) Diameter.

Activation – 1 FC "ON"; 3 - 10 FC "OFF"

Model #	Watts Tungsten	VA Ballast	Volts
K1121	1800	1800	105-130
K1122	1800	1800	210-240
K1221	1800	1800	105-130
K1222	1800	1800	210-240

** Ballast rating meets UL testing at 50% power factor.*



UL773
E59121



C22.2-55
LR38068



3/4 lbs
.34 kg



5 Year
Warranty



UL773A
E42722

Low Cost Relay Type Photo Control with Locking-Type Mounting — LC2000

Features "Instant ON/OFF Switching". Complies with ANSI C136.10

Size - 2-3/16" (5.6 cm) High, 3-3/16" (8.1 cm) Diameter

Activation – 1 to 3 FC "ON". Turn OFF to turn ON ratio is 4.

Model #	Watts Tungsten	VA Ballast	Volts
LC2000	1000	1800	110-277

Includes 110 Joule MOV Surge Arrester.



UL773
E59121



3/4 lbs
.34 kg



3 Year
Warranty



Solid State Photo Controls - Locking Type

The K4536SS Photo Control is electronically calibrated and provides reliable control of street lighting and other applications requiring a NEMA plug-in locking type connection. Complies with ANSI C136.10.

The K4536SST is the same as above, but provides a fixed "OFF" time adjustable in half hour increments from 6:00 PM to 2:00 AM and a fixed "ON" time adjustable in half hour increments from 4:00 AM to 8:00 AM. The fixed times are based on a real-time clock that sets itself based on the occurrence of sunrise and sunset.

Operation – Instant "ON", 10 Second Delay "OFF"

Size – same as LC4500 Series

Color – same as LC4500 Series

Model #	Watts Tungsten	VA Ballast	Volts
K4536SS	1000	1800	105-305
K4536SST	1000	1800	105-305

Includes 430 Joule MOV Surge Arrestor.



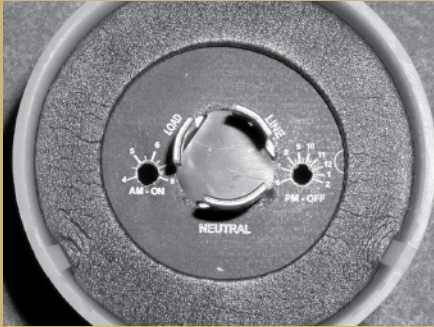
UL773A
E42722

3/4 lbs
.34 kg

5 Year
Warranty



K4536SS



K4536SST



Time Switches

24 Hour Dial

T100 Series – Designed for industrial, commercial and residential applications. Highest HP ratings in the industry for loads up to 40 amps, providing direct 24 hr. control of most loads. Provides 1 to 12 “ON/OFF” operations each day with minimum ON/OFF times of 1 hour. All models equipped with one “ON” and one “OFF” tripper.



Applications

- Indoor/Outdoor Lighting
- Signs
- Filters
- Air Conditioning
- Electric Fences
- Heating/Ventilating Systems
- Fans
- Conveyers
- Post Lanterns
- Pool Heaters
- Hydrochlorinators
- Blowers
- Pumps
- Music and Signal Systems
- Poultry Foggers

Specifications

Case – Drawn steel 7-3/4" (19.7 cm) H, 5" (12.7 cm) W, 3" (7.6 cm) D in gray finish. Spring hasp, with hole for lock, holds permanently attached, side hinged door closed. Three mounting holes on back plus handy box mounting holes.

Knockouts – Combination 1/2"-3/4" nominal knockouts, one on back and each side of case and two on bottom.

Optional Enclosures – See Time Switch Cases page for optional enclosures.

Special Voltages and Cycles – See Time Switch Motors page for available motors.

Switch Rating – Each Pole; 40 Amp Resistive, 120-480 VAC; 40 Amp Tungsten, inductive or 1000 VA pilot duty, 120-277 VAC; 2 HP (24 FLA) 120 VAC; 5 HP (28 FLA) 240 VAC single phase; 7-1/2 HP (28 FLA) 208 VAC three phase; 10 HP (28 FLA) 240 VAC three phase.

Model #	Model # w/See-Thru Cover	Model # Plastic Case	Model # Steel NEMA 3R Case	Switch	Clock Motor Volts 60 Hz	AMPS (per pole)	HP Rating
T101	T101PCD82	T101P	T101R	SPST	125	40	2
T102	—	T102P	T102R	SPST	208-277	40	5
T103	T103PCD82	T103P	T103R	DPST	125	40	2
T104	T104PCD82	T104P	T104R	DPST	208-277	40	5
T101B*	—	—	—	SPST	125	40	2
T105	—	—	—	1NO / 1NC**	125	40	2
T106R†	—	—	—	1NO / 1NC**	208-277	40	5

* Separate clock motor terminals for switching circuits not on line voltage.

** Can be wired as SPDT.

† Only available in NEMA 3R case.

For additional trippers (1 ON / 1 OFF per pack), order No. 156T1978A.



C22.2-177
LR3730
UL917

2.75 lbs
1.25 kg

-40°F
(-40°C)
to
130°F
(54°C)



24 Hr. w/Skipper, Optional Carryover

T170 Series – Same features as the T100 Series plus a skipper option to omit operation on selected days. Cutout screws are inserted in the dial for days which operation is to be skipped. Provides up to 10 ON/OFF operations each day with min. ON/OFF operations of 1 hour and max. ON time of 20 hours. Includes one CUTOUT tripper (also serves as an “ON” tripper), one “OFF” tripper and three skipping screws.

T170CR Series – Same features as the T170 Series Skipper models plus a min. of 16 hours carryover for maintaining preset schedules during power failures. Carryover automatically rewinds when power resumes; only one hour of rewinding time required for every two hours of power outage. 4PST models are ideal for 3-phase load control.

Specifications

Case – T170 Series same as T100 except as noted under Optional Enclosures. T170CR only in NEMA 3R drawn steel 9-3/8" (23.8 cm) H, 5-1/2" (14.0 cm) W, 3-5/8" (9.2 cm) in gray finish. Hasp, with hole for lock, holds permanently attached, side-hinged door closed. Bracket plus two holes on back below switch for mounting. Separate grounding terminal.

Optional Enclosures – 4 pole and 2 NO/ 2 NC models not available in standard or plastic case; only in NEMA 3R steel case. T170CR only available in steel NEMA 3R enclosure.

Special Voltages and Cycles – See Time Switch Motors for available motors. Contact factory for availability of time switch with 50 cycle or other voltages.

Special Voltages and Cycles – Same as T100 Series.

Switch Rating – Same as T100 Series.



C22.2-177
LR3730
UL916



-40°F
(-40°C)
to
130°F
(54°C)



2.75 lbs
1.25 kg



Same
as T100
Series

Model #	Model # Steel NEMA 3R Case	Switch	Clock Motor Volts 60 Hz	AMPS (per pole)	HP Rating
T171		SPST	125	40	2
T172		SPST	208-277	40	5
T173	T173R	DPST	125	40	2
T174	T174R	DPST	208-277	40	5
T175		1NO / 1NC**	125	40	2
T176		1NO / 1NC**	208-277	40	5
T1471BR*		4PST	125	40	2
T1472BR*		4PST	208-277	40	5
T1475BR*		4PST	480	40	5
T1871BR*		2NO / 2NC***	125	40	2
T171CR		SPST	125	40	2
T173CR		DPST	125	40	2
T174CR		DPST	208-277	40	5
T1471BCR*		4PST	125	40	2

* Separate clock motor terminals for switching circuits not on line voltage.

** Can be wired as SPDT.

*** Can be wired as DPDT.

For additional trippers (1 ON / 1 OFF / 1 CUTOUT per pack), order No. 156T1948A.

For additional skipper screws (3 skipper screws per pack), order No. 156T3085A.



Time Switches

24 Hour Dial w/Skipper

The T1900 Supervisor Series provides up to 96 operations (48 ON /48 OFF) every 24 hours. This series provides operations with minimum ON / OFF times of 15 minutes. Trippers slide in and out of dial for fast accurate setting. The skipper models provide for operations to be omitted on selected day(s) of the week. Model with carryover provides a minimum of 16 hours of carryover to maintain preset schedules within +/- 2% accuracy during power failures. The carryover automatically rewinds when power resumes. Only one hour is required to rewind the carryover for each two hours of power outage.

Applications

- Oil Well Pumps
- Filters
- Blowers
- Poultry Feeders
- Heaters
- Process Equipment
- Recorded Music
- Dairy Equipment
- Fans
- Silo Unloaders
- Poultry Foggers

Specifications

Case – Drawn steel 7-3/4" (19.7 cm) High, 5" (12.7 cm) Wide, 3" (7.6 cm) Deep in gray finish. Spring hasp, with hole for lock, holds permanently attached, side hinged door closed. Three mounting holes on back plus handy box mounting holes.

Knockouts – Combination 1/2"-3/4" nominal knockouts, one on back and each side of case and two on bottom.


Optional Enclosures – See Time Switch Cases for optional enclosures.

Special Voltages and Cycles – See Time Switch Motors for available motors.


Switch Rating – 20 Amp maximum 125, 208-277 and 480 VAC; 1/2 HP , 125 VAC; 1 HP, 250 VAC

Power Input – 5 Watts maximum.






C22.2-177
LR3730
UL917



2.75 lbs
1.25 kg



-40°F
(-40°C)
to
130°F
(54°C)

Model #	MODEL # STEEL NEMA 3R CASE	Switch	Clock Motor Volts 60 Hz	Spring Wound Carryover	Amps	Skipper Wheel
T1905		SPDT	125	No	20	No
T1905E		SPDT	480	No	20	No
T1906		SPDT	208-277	No	20	No
T1975	T1975R	SPDT	125	No	20	Yes
T1976	T1976R	SPDT	208-277	No	20	Yes
T1975E	T1975ER	SPDT	480	No	20	Yes

For additional trippers (12 per pack), order No. 156T1950A.
Replacement Snap Switch 133T701A.



Short Range Cycle Timer

Short Range Cycle Timers provide repeat cycling for “ON” times. Ten combination “ON/OFF” trippers supplied with each switch.

Applications

- Ventilating Fans
- Spraying Equipment
- Livestock Feeders
- Poultry Fans
- Fogging Equipment
- Poultry Feeders
- Pumps
- Bulk Milk Coolers
- Process Equipment

Specifications

Case – Same as T100 Series.

Knockouts – Same as T100 Series.

Optional Enclosures – Same as T100 Series.

Switch Rating – 20 Amp Resistive 125, 208-277 VAC; 1/2 HP, 125 VAC; 1 HP, 250 VAC

Model #	Switch	Clock Motor Volts 60 Hz	Dial Cycle	Tripper Actuating Time	Amps
C8815	SPDT	125	10 Min.	5 Sec.	20
C8835	SPDT	125	30 Min.	15 Sec.	20
C8865	SPDT	125	1 Hr.	30 Sec.	20
C8845	SPDT	125	4 Hr.	120 Sec.	20
C8866	SPDT	250	1 Hr.	30 Sec.	20

Note: The life of the switch contacts is affected by the size and type of the controlled load. The expected minimum life at 20 amps (resistive) load is 100,000 cycles.

Replacement Snap Switch 133T773A.

For additional trippers (12 trippers per pack), order No. 156T1950A.



C22.2-177
LR3730
UL917



2.75 lbs
1.25 kg



-40°F
(-40°C)
to
130°F
(54°C)



Time Switches

Sprinkler/Irrigation Timer with 14-Day Skipper

These irrigation timers permit 1 to 60 "ON" operations every 24 hours. This series is designed for water metering in increments of 12 minutes to 20 hours and 45 minutes for maximum conservation of precious water resources. The 14-day skipper feature permits irrigation to be omitted on selected day(s) and also provides for "every other" day operation. The "ON/OFF/AUTOMATIC" switch allows shutdown during rainy days or extended watering during dry periods without disturbing the automatic cycle set on dial.

Applications

- Multi-Station Hydro Indexing Valves
- Greenhouses
- Lawn Sprinkling
- Pumps
- Irrigation Control
- Feeders
- Drip Irrigation Systems

Specifications

Case – Plastic NEMA 3R case. Cases include hanging bracket plus two mounting holes on back below switch for mounting.

Knockouts – Combination 1/2"-3/4" nominal knockouts, one on back and each side of case, and two on bottom.

Switch Rating –

T8805P101C – 15 Amps, 125 VAC, 1/2 HP, SPST.

R8806P101C – 25 Amps, 208-277 VAC, 2 HP, DPST relay.

R8815P101C – 25 Amps, 120 VAC, 1-1/2 HP, DPST relay.

R8816P101C – 25 Amps, 208-277 VAC, 3 HP, DPST relay.

T8845PV – 125 VAC, SPST, output 24 Volts - 20VA



C22.2-177
LR3730
UL917

3.75 lbs
1.7 kg

-40°F
(-40°C)
to
130°F
(54°C)

Model #	Switch	Motor Voltage 60 Hz	Output Voltage 60 Hz	AMPS (per pole)	HP Rating
T8805P101C	SPST	125	—	15	1/2
R8806P101C	DPST	208-277	—	25	2
R8815P101C*	DPST	120	—	25	1-1/2
R8816P101C*	DPST	208-277	—	25	3
T8845PV**	SPST	125	24	20VA	—

* Includes rain sensor input terminals- rain sensor not supplied.

** Includes 24 volt - 20 VA transformer.

For additional trippers (12 per pack), order No. 156T1950A.

For additional skipper pins (14 per pack), order No. 156T1954A.



Timing Control Center, 7-Day Dial with Carryover

This series provides photo control initiated / time switch terminated control. These time switches provide a different "ON/OFF" program each day of the week and a spring wound carryover. These time switches are recommended for applications where you need to turn a load "ON" at dusk and "OFF" at a preset time. The spring wound carryover provides a carryover of 16 hours minimum to maintain accurate load control even during power failure. When power resumes, the carryover automatically rewinds itself. Only 1 hour is required to rewind the carryover for each 2 hours of outage. The three models provide control of 1, 2 or 3 circuits. A light level adjustment is provided on the photo control. All models have single pole double throw switches and manual circuit by-pass switches.

Unit is designed to control the contactor control circuit only. It is not recommended for direct switching of tungsten, mercury vapor or similar loads.

Applications

- Parking Lot Lighting
- Landscape Lighting
- Billboard Lighting
- Entryway Lighting
- Storefront Lighting
- Stairway Lighting
- Car Lot Lighting
- Security Lighting

Specifications

Case – Steel in gray finish 12-1/2" (31.7 cm) high, 8-1/4" (21.0 cm) wide, 4" (10.2 cm) deep. Indoor type with toggle action drawbolt and locking feature. Four mounting holes on back. Separate grounding terminal.

Knockouts – Combination 1/2"-3/4" nominal knockouts, two on back one on each side and two on bottom. Also one 1" nominal on bottom center.

Optional Enclosures – None available.




Contact Rating – 15 Amp, 1/2 HP, 125/250 VAC; 420 VA pilot duty; 150 Watts Tungsten, 125 VAC (May also be used with 24 volt systems if wired in accordance with National Electrical Code Regulations.)

Model #	Description	Clock Motor Volts 60 Hz
T51211BC	Circuit A - Sunset, Photo Control ON - Preset Time Switch OFF	120
	Circuit B - Sunset, Photo Control ON - Sunrise, Photo Control OFF	—
T51311BC	Circuit A - Sunset, Photo Control ON - Preset Time Switch OFF	120
	Circuit B - Sunset, Photo Control ON - Sunrise, Photo Control OFF	—
	Circuit C - Preset Time Switch ON - Preset Time Switch OFF	—

*All models have separate clock motor terminals for switching circuits not on line voltage.
For additional trippers (7 ON / 7 Off per pack), order No. 156T2548A.*

See Next Generation Electronic Time Switches with Astro Feature



		
C22.2-177 LR3730 UL917	10.5 lbs 4.8 kg	-40°F (-40°C) to 130°F (54°C)



Time Switches

Compact, 7-Day

The T2000 Series provides up to 84 (42 "ON/OFF") operations each week. Minimum "ON/OFF" times for this series are 2 hours each providing up to 6 "ON/OFF" operations each day.

Applications

- Heating
- Air Conditioning
- Ventilating
- Defrost Control
- Lights
- Pumps
- Motors
- Fans

Specifications

Case – Drawn steel 7-3/4" (19.7 cm) high, 5" (12.7 cm) wide, 3" (7.6 cm) deep in gray finish. Spring hasp, with hole for lock, holds permanently attached, side hinged door closed. Three mounting holes on back plus handy box mounting holes.

Knockouts – Combination 1/2"-3/4" nominal knockouts, one on back and each side of case and two on bottom.

Optional Enclosures – See Time Switch Cases for optional enclosures.


Special Voltages and Cycles – See Time Switch Motors for available motors.

Switch Rating – 20 Amp Resistive, 125 and 208-277 VAC; 1/2 HP 125 VAC; 1 HP 250 VAC


Model #	Switch	Clock Motor Volts 60 Hz	Amps
T2005	SPDT	125	20
T2006	SPDT	208-277	20

*For additional trippers (12 per pack), order No. 156T1950A.
Replacement Snap Switch 133T701A.*






C22.2-177
LR3730
UL917



2.75 lbs
1.25 kg



-40°F
(-40°C)
to
130°F
(54°C)



7-Day Dial With & Without Carryover

These time switches provide a different "ON/OFF" program each day of the week. They also provide for 4 pole single throw and 4 pole (2NO/2NC) switching. This series provides true 7-day load control with minimum ON and minimum OFF times of 3-1/2 hours. The "BC" models with carryover provide a carryover of 16 hours minimum to maintain accurate load control even during power failure. When power resumes, the carryover automatically rewinds itself. Only 1 hour is required to rewind the carryover for each 2 hours of outage.

Applications

- Heating
- Outdoor Lighting
- Ventilating Systems
- Air Conditioning
- Motors
- Fans
- Pumps
- Signs
- Filters
- Indoor Lighting
- Billboards
- 3 Phase Loads

Specifications

Case – Steel in gray finish 12-1/2" (31.7 cm) high, 8-1/4" (21.0 cm) wide, 4" (10.2 cm) deep. Indoor type with toggle action drawbolt and locking feature. Four mounting holes on back. Separate grounding terminal.

Knockouts – Combination 1/2"-3/4" nominal knockouts, two on back, one on each side and two on bottom. Also one 1" nominal on bottom center.

Optional Enclosures – See Time Switch Cases for optional enclosures.

Special Voltages and Cycles – See Time Switch Motors for available motors. Contact factory for availability of time switch with 50 cycle or other voltages.

Switch Rating – Each Pole 40 amp resistive, 120-480 VAC; 40 amp tungsten, inductive or 1000 VA pilot duty, 120-277 VAC; 2 HP (24 FLA) 120 VAC; 5 HP (28 FLA) 240 VAC single phase; 7-1/2 HP (28 FLA) 208 VAC three phase; 10 HP (28 FLA) 240 VAC three phase.

Carryover – Minimum time - mechanical operation: 16 hours. Carryover accuracy +/-2%.

Model #	Model # Steel NEMA 3R Case	Model with CarryOver	Switch	Clock Motor Volts 60 Hz	Amps (per pole)
T7401B	T7401BR	T7401BC	4PST	125	40
T7402B		T7402BC	4PST	208-277	40
T7801B		T7801BC	2NO/2NC	125	40
T7802B			2NO/2NC	208-277	40

* All models (B or BC suffix) have separate clock motor terminals for switching circuits not on line voltage. For additional trippers (7 ON / 7 OFF per pack), order No. 156T2548A.



C22.2-177
LR3730
UL917



Models without carryover
8 lbs
3.6 kg



Models with carryover
9 lbs
4.1 kg



-40°F (-40°C)
to
130°F (54°C)



Time Switches



Astro Dial With Skipper & Carryover

This time switch self adjusts for seasonal changes. The astronomic dial automatically adjusts itself as the days grow shorter or longer. A skipper provides lighting control to be omitted on selected day(s) of the week. The carryover is designed to maintain preset schedule during power outages for a minimum of 16 hours. Only 1 hour is required to rewind the carryover for each 2 hours of outage. The 3PST switch configuration provides for control of 3-phase lighting. Three skipper screws are furnished.

Lighting Applications

- Parking Lots
- Landscape Lights
- Stairways
- Billboards
- Entryways
- Security
- Storefronts
- Car Lots

Specifications

Case – NEMA 3R drawn steel 11-1/2" (29.2 cm) high, 8-1/4" (20.9 cm) wide, 4-1/2" (11.4 cm) deep in gray finish. Hasp, with hole for lock, holds permanently attached, side hinged door closed. Mounting bracket plus two holes below switch on back for mounting. Separate grounding terminal.

Knockouts – Combination 1/2"-3/4" nominal knockouts, one on back and each side of case and two on bottom.

Optional Enclosures – None.

Switch Rating – Each pole: 40 amp tungsten up to 277 VAC; 1 HP, 120 VAC; 690 VA pilot duty.

Model #	Switch	Clock Motor Volts 60 Hz	Amps
V45471CR*	3PST	125	40
V45472CR*	3PST	208-277	40
V45471R	3PST	125	40
V45472R	3PST	208-277	40

Indicate City and State nearest installation when ordering.
 * Includes spring wound carryover.
 For additional skipper screws (3 per pack), order No. 156T1953A.

For Electronic Time Switches which offer Astro Feature please see pages 42-44

UL917 E10694	C22.2-177 LR3730	Models V45471CR & V45472CR 9 lbs 4.1 kg	Other Models 5 lbs 2.3 kg	-40°F (-40°C) to 130°F (54°C)



Water Heater Time Switches

The WH40 provides a convenient external override switch. Utilities in many areas of the country offer two electric rates for residential or commercial customers. One rate has the regular daytime electrical rate, the other is “off peak” rate. The off peak rate provides customers with “lower-priced” electricity during the nighttime and weekend periods. These time switches allow the customer to shift electricity use into these off-peak time periods in an attempt to save utility costs.

Applications

Water Heater Control for:

- Residential
- Commercial
- Industrial
- Institutional / Schools
- Military Facilities

Specifications

Case – Drawn steel 7-3/4" (19.7 cm) High, 5" (12.7 cm) Wide, 3" (7.6 cm) Deep in gray finish. Spring hasp, with hole for lock, holds permanently attached, side hinged door closed. Three mounting holes on back plus handy box mounting holes.

Knockouts – Combination 1/2"-3/4" nominal knockouts, one on back and each side of case and two on bottom.

Special Voltages and Cycles – See Time Switch Motors for available motors.

Switch Rating – 40 Amp Resistive, Inductive or Tungsten 120-277 VAC; 1000 VA pilot duty 120-277 VAC; 2 HP (24 FLA) 125 VAC; 5 HP (28 FLA) 240 VAC.

Model #	Switch	Clock Supply Volts 60 Hz	Watts	External Switch	Amps/Pole
T104-20	DPST	208-240	10000	No	40
WH40	DPST	250	10000	Yes	40

For additional trippers (1 ON / 1 OFF per pack), order No. 156T1978A.



The "LITTLE GRAY BOX"®



C22.2-177
LR3730
UL917

2.75 lbs
1.25 kg

-40°F
(-40°C)
to
130°F
(54°C)



Time Switches

Electronic Water Heater Timers

These time switches provide automatic control for electric water heaters. They provide to-the-minute accuracy in programming and time keeping. The time switches can be programmed for repeat daily scheduling, 5-day working week scheduling, weekend scheduling or any individual day scheduling. Timers can be scheduled for operation during the lowest time-of-day rates or to switch off the electric heater during period of utilities peak power usage. The time switch can be set to operate for up to 6 ON/OFF operations daily for a maximum of 42 on/off operations weekly. Both models provide a convenient external override switch and LED load indicator for ease in scheduling hot water as required for extra hot water demands. The timers include a "AA" alkaline battery carryover which protects both time keeping and program information for a minimum of 3 years.

Applications

Water Heater Control for:

- Residential
- Institutional
- Industrial
- Military Facilities
- Schools
- Commercial

Specifications

Case – Drawn steel 7-3/4" (19.7 cm) H x 5" (12.7 cm) W x 3" (7.6 cm) D in gray finish. Spring hasp, with hole for lock, holds permanently attached, side hinged door closed. Three mounting holes on back plus handy box mounting holes.

Knockouts – Combination 1/2"-3/4" nominal knockouts, one on back and each side of case and two on bottom.


Switch Rating – 30 Amp Resistive or Inductive 120-240 VAC; 1 HP, 120 VAC; 1-1/2 HP, 240 VAC; 5 Amps Tungsten, 120/240 VAC.

Model #	Switch	Clock Supply Volts 50/60 Hz	Watts	External Switch	Amps/Pole
EH10	SPST	120	3600	Yes	30
EH40	DPST	240	7200	Yes	30




With Manual External
Override and Load Indicator

50/60 Hz Operation




UL916
E76987



C22.2-177
LR3730



2.75 lbs
1.25 kg



-4°F
(-20°C)
to
122°F
(50°C)



A. Plastic Case

Ends rusting problems forever.

Made of heavy-duty industrial grade plastic, Intermatic's rainproof all plastic case is perfect for applications where high humidity and/or dust can be a problem. Developed for use with pool and spa equipment, the non-corroding plastic case is useful for applications in other high moisture areas such as car washes, industrial water spray areas, etc; NEMA 3R case.

A hasp with a hole for lock holds the side-hinged door closed. A bracket plus two holes below the switch on the back are for mounting. Has five combination 1/2 - 3/4" nominal knockouts, one on back and each side of case, two on bottom.

2T2500GA*	Indoor / Outdoor Plastic Case – 9-3/8" x 5-1/2" x 3-3/4"	1.3 lbs
2T2502GA*	Beige Indoor / Outdoor Plastic Case – 9-3/8" x 5-1/2" x 3-3/4"	1.3 lbs

* Available for SERIES T100, T170, T180, T1100, T1200, T1400, T1900, T2000, C8800, ET100C, ET170C, ET700C and models EH10, EH40, ET279C, ET70115, ET70215, and ET8000 series

B. Standard Case

Drawn steel with gray powder coat paint finish. Spring hasp (with hole for seal or lock) holds permanently attached hinged door closed. Has combination 1/2" - 3/4" nominal knockouts, one on back and on each side, and two on bottom. (Except "P" Series switches which are equipped with cord-connection and receptacle.) Convenient mounting holes. NEMA Type 1.

2T2040GA*	Standard Indoor Case – 7 3/4" x 5" x 3"	1.4 lbs
2T2292GA**	Indoor Case – 12-1/2" x 8-1/4" x 3-7/8"	7.0 lbs

* Available for SERIES T100, T170, T180, T1100, T1200, T1400, T1900, T2000, C8800, ET100C, ET170C, ET700C and models EH10, EH40, ET279C, ET70115, ET70215, and ET8000 series

** Available for SERIES T7400B, T7800B, T7400BC and T7800BC.

C. Indoor-Outdoor Case

For protecting time switch from rain, sleet, snow and ice. Drawn steel with gray or beige powder coat paint .036" construction with side-hinged door. Hasp provided for lock. Has combination 1/2-3/4" nominal knockouts, one on back and each side of case, and two on bottom. Separate grounding terminal. Convenient mounting holes. NEMA 3R.

2T511GA*	Standard Indoor/Outdoor Case – 9-3/8" x 5-1/2" x 3-5/8"	2.5 lbs
2T2485GA*	Beige Standard Indoor/Outdoor Case – 9-3/8" x 5-1/2" x 3-5/8"	2.5 lbs
2T2331GA**	Indoor/Outdoor Case – 9-3/8" x 5-1/2" x 3-5/8"	2.5 lbs
2T2293GA***	Indoor/Outdoor Case – 12-1/2" x 8-1/4" x 3-7/8"	2.5 lbs

* Available for SERIES T100, T170, T180, T1100, T1200, T1400, T1900, T2000, C8800, ET100C, ET170C, ET700C and models EH10, EH40, ET279C, ET70115, ET70215, and ET8000 series

** Available for SERIES T100CR, T170CR, T1400BR, T1400BCR, T1800BR and T1800BCR.

*** Available for SERIES T7400B, T7800B, T7400BC and T7800BC.

D. Stainless Steel Indoor-Outdoor Case

TS100RS	Stainless Steel Indoor-Outdoor Case – 9 7/8" x 6 1/2" x 3 1/5"	3.5 lbs
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* Available for SERIES T100, T170, T1400, T1900, T2000, C8800, ET100C, ET170C, ET700C, EH40, ET279C, ET70115, ET70215 and ET8000.



A. 2T2500GA
Plastic Case NEMA 3R



B. 2T2040GA
Standard Case NEMA 1



Steel Indoor/Outdoor Case NEMA 3R



D. TS100RS
Steel Indoor/Outdoor Case NEMA 3R



UL & CSA apply to all enclosures shown.

UL917
E10694

C22.2-177
LR3730



Time Switch Cases

E. 2-in-1 Raintight Case and Panel

For use where 2 time switches are to be mounted side by side. Heavy-duty spot-welded raintight construction with powder coat paint. Hasp (with hole for lock) holds permanently attached hinged door closed. Combination 1/2" - 3/4" nominal knockouts conveniently located (two on back, five on bottom and one on each side). Top mounting brackets plus two holes below switch level on back of case.



E. T1000R
2-in-1 Raintight Case

Model Number	Description	Weight
T1000R (replaces 2T2089GA)*	2-in-1 Indoor/Outdoor Case – 10-1/2" x 10-1/2" x 4"	6.5 lbs
T3000R*	Indoor/Outdoor Panel – 16-3/4" x 10-1/2" x 4-1/4"	11.0 lbs
T4000R*	Indoor/Outdoor Panel – 20-3/4" x 12-3/4" x 4-1/4"	17.0 lbs

* Available for SERIES T100, T170, T180, T1900, T2000 and C8800. NOT FOR T1400/T1800/T1900 MODELS WITH BCR SUFFIX.

F. Flushmount Case

For concealing mechanism in wall and giving a finished, flushed appearance. Heavy-duty, .063" formed steel construction with hinged door. Gray finish with powder coat paint. Combination 1/2" - 3/4" nominal knockouts one each side, and two on bottom, plus one 1" knockout on top and bottom. Convenient mounting holes. With or without key lock. Cutout 9-1/8" x 6" x 4-1/8" deep; flange 11" x 8"



F. 2T2365GA
Flushmount Case

Model Number	Description	Weight
2T308A*	Standard Flushmount w/Lock	6.5 lbs
2T2365GA**	Flushmount Case w/Lock	7.0 lbs
6ET1398GA	Flush Cover for ET70415CR and ET70415CR24	2.5 lbs

* Available for SERIES T100, T170, T180, T1900, T2000 and C8800. NOT FOR T1400/T1800/T1900 MODELS WITH BCR SUFFIX.

** Available for SERIES ET100C, ET170C, ET700C and models EH10, EH40, ET279C, ET7115C, ET7215C, ET70215C and ET70115C.

G. Mounting Brackets

Heavy gauge steel mounting bracket mounts to a standard symmetrical rail TS35 according to DIN46277 and EN50022. Ideal for panel mounting of mechanical or electronic time switch controls, along side of other DIN rail mountable electrical devices. This snap-in type bracket accepts a wide range of Intermatic time switches including most T100, T170, T180, T1900, T2000, C8800, ET100, ET170, ET700 and ET70000 time switches.

Model Number	Description	Weight
22T535GR	Din Rail Bracket – 6" x 5" x 2"	1.0 lbs
22T338GR	Surface Mount Snap-in Bracket – 6" x 5" x 2"	1.0 lbs

Surface
Mount
Bracket



G. 22T338GR

Din Rail
Bracket



22T535GR



UL917
E10694



C22.2-177
LR3730

UL & CSA apply to all enclosures shown.

DIN Rail Mounted Timers



ET050 Series 7-Day Time Switch (Permits Different Operation Each Day)

The ET050 series of electronic DIN Rail mounted 7-day timers provide to-the-minute programming for accurate load control and reduced energy costs. Up to 16 set points or events (8 ON/8 OFF or any combination) can be preset to automatically repeat on a weekly or daily basis. The program can be overridden at any time by pressing the override button.

Specifications

Events – 8 ON/OFF operations per day

Mounting – DIN Rail mount – Includes adapter for surface mounting

Special Voltages and Cycles – ALL models 50 or 60 Hz.

Switch Configuration – Single Pole Double Throw (SPDT)

Switch Rating – Contact Configuration – SPDT; 20 Amp Resistive @ 120VAC; 16 Amp Resistive @ 250VAC; 3.5 AMP Inductive @ 250VAC; 500 Watt Tungsten

Carry-over – Field replaceable CR 2032 Lithium-Battery maintains program and accurate time keeping for 3 years minimum.

Wiring Terminals – #18 to #10 AWG wire.

Minimum ON/OFF Times – 1 minute.

Maximum ON/OFF Times – 6 days 23 hours 59 minutes

Engineering Specification

7 Day Electronic Time Switch
The time switch shall be a self-contained electronic control capable of permitting 8 ON/OFF set points per circuit to be distributed on a weekly or daily schedule. Set points shall be programmable to the nearest minute with a minimum ON duration of 1 minute and a maximum ON duration of 6 days 23 hours and 59 minutes. The timer shall have a digital LCD readout to show time-of-day using 12 hour indication. The time switch shall provide a manual override control for both temporary and permanent override. Time switch shall operate over a temperature range of -40°F (-40°C) to 155°F (68°C).
Industrial Lithium battery shall carryover time-of-day and program data for a minimum of 3 years. Switch shall have a frequency rating of: 16/20 amps Resistive, 120/250 Volts AC, 60 Hz; 3 HP, 240 Volts AC, 60 Hz; 20 Amps Resistive, 120/250 Hz. The time switch shall be powered by a (24 VDC) (120 VAC) (240 VAC) source.
The time switch shall be DIN rail or surface mountable. The time switch shall be listed under UL Category 910 by Underwriters Laboratories and shall be INTERMATIC Model (ET051C24), (ET051C120), (ET051C240), (ET052C24), (ET052C120), (ET052C240).

Model#	Circuits	Switch	Clock Voltage	Rating	Mounting
ET051C24	1	SPDT	24 VAC	3.5	DIN / Surface
ET051C120	1	SPDT	120 VAC	16	DIN / Surface
ET051C240	1	SPDT	240 VAC	20	DIN / Surface
ET052C24	2	SPDT	24 VAC	3.5	DIN / Surface
ET052C120	2	SPDT	120 VAC	16	DIN / Surface
ET052C240	2	SPDT	240 VAC	20	DIN / Surface

NEW



051

NEW



ET052



24-Hour Electronic Time Switches

ET100 Series 24-Hour Time Switch (Same Operation Each Day)

These time switches provide the same dependable and uncomplicated performance as the T101 mechanical time switch...plus to-the-minute programming for accurate load control and reduced energy costs. Up to 8 set points or events (4 ON/4 OFF) can be preset to automatically repeat on a daily basis. The program can be overridden at any time by placing the selector switch in the Manual position. Two industrial grade "AA" Alkaline batteries provide 3 years minimum program and timing protection.

Specifications

Case – NEMA 1 – Drawn steel 7-3/4" (19.7 cm) High, 5" (12.7 cm) Wide, 3" (7.6 cm) Deep in gray finish.

Note: The electronic mechanism snaps into the standard Intermatic time switch case, replacing mechanical mechanisms, if desired.

Knockouts – Combination 1/2"-3/4" nominal knockouts, one on back and each side of case and two on bottom.

Optional Enclosures – See Time Switch Cases for optional enclosures.

Special Voltages and Cycles – ALL models 50 or 60 Hz.

Switch Rating – Except model ET100C. 30 Amp Inductive/Resistive, 24 / 120 / 240 / 277 VAC 60 Hz; 20 Amp Resistive, 28 VDC; 1 HP 120 VAC 60 Hz; 2 HP 240 VAC 60 Hz; 5 Amp Tungsten, 120 / 240 / VAC 60 Hz; 20 Amp ballast, 120-277 VAC 60 Hz. ET100C same ratings for 120 Volt loads only. Models ET105C normally closed contact ratings: 10A Resistive/General purpose, 12 - 277VAC; 10A Resistive/General purpose, 28VDC; 3A Ballast, 120 - 277VAC; 1/4 HP, 120 VAC; 1/2 HP, 240 VAC; 30 LRA; 12 FLA; 275 VA pilot duty, 120 - 240 VAC

Carry-over – Field replaceable "AA" batteries maintain program and accurate time keeping for 3 years minimum. Up front replacement does not require removal of mechanism or field wiring.

Wiring Terminals – #18 to #10 AWG wire.

Minimum ON/OFF Times – 1 minute.

Maximum ON/OFF Times – 23 hours 59 minutes.

Engineering Specification

24 Hour Electronic Time Switch

The time switch shall be a solid state electronic control capable of permitting 8 ON/OFF set points to be distributed on a daily schedule. The time and set points shall be programmable to the nearest minute with a minimum ON duration of 1 minute and a maximum ON duration of 23 hours and 59 minutes. The timer shall have a digital LCD readout to show time-of-day using 12 hour AM/PM indicator. The time switch shall provide a manual override control for both temporary and permanent override. Time switch shall operate over a temperature range of -40°F (-40°C) to 155°F (68°C).

Industrial grade AA alkaline batteries shall protect program information and carryover time-of-day for a minimum of 3 years. Switch configuration to be _____ (SPST) or (DPST) with an agency listed rating of: 30 amp Inductive/Resistive, 24/120/240 Volts AC, 60 Hz; 20 amps Resistive, 28 VDC; 1 HP, 120 Volts AC, 60 Hz; 2 HP, 240 Volts AC, 60 Hz; 5 amps Tungsten, 120/240 Volts AC, 60 Hz; 20 amps Ballast, 120-277 Volts AC, 60 Hz. The time switch shall be powered by a _____ (120 volt), (120-277 volts) 50/60 Hz source. The time switch shall be enclosed in a lockable _____ (NEMA 1) or (NEMA 3R) rated enclosure. The time switch shall be agency listed under UL category 916 Energy Management Equipment and shall be INTERMATIC Model _____ (ET100C), (ET101C), (ET102C), (ET103C), (ET104C/CP) or (ET105C).

Model#	Circuits	Switch	Clock Voltage	Amp Rating	HP Rating	Enclosure
ET100C	1	SPST	120	30	1HP	NEMA1
ET100CM ¹	1	SPST	120	30	1HP	Mech.
ET101C	1	SPST	120	30	1HP / 2HP	NEMA1
ET102C	1	SPST	120/208/240/277	30	1HP / 2HP	NEMA1
ET103C	1	DPST	120	30	1HP / 2HP	NEMA1
ET104C	1	DPST	120/208/240/277	30	1HP / 2HP	NEMA1
ET104CP ²	1	DPST	120/208/240/277	30	1HP / 2HP	NEMA3R
ET105C	1	SPDT	120	10/30	1HP / 2HP	NEMA1

¹Mechanism only no case.

²NEMA 3R UV resistant polycarbonate plastic case.



Applications:

- Schools
- Offices
- Airports
- Stores
- Hotels
- Restaurants
- Parks
- Apartments

For Controlling:

- Water Heaters
- Parking Lot Lighting
- Commercial Ovens
- Interior Lighting
- Air Conditioners
- Fans/Blowers/Pumps
- Livestock Feeders
- Poultry Equipment
- Process Equipment



UL917
C22.2-177
LR3730



2.5 lbs
1.1 kg



-40°F
(-40°C)
to
155°F
(68°C)

24-Hour Electronic Time Switches



ET1100 Series 24-Hour Time Switch (Same Operation Each Day)

Upgrading to an electronic time switch has never been easier than now with the new ET1100 Series. Features include; Automatic Daylight Saving Time adjustment, multi-volt operation from 120 to 277 VAC, and to-the-minute programming for accurate load control and reduced energy costs. Up to 28 set points or events (14 ON/14 OFF per channel) can be preset to automatically repeat on a daily basis. The program can be overridden at any time. Two industrial grade "AAA" Alkaline batteries provide 3 years minimum program and timing protection.

Specifications

Case Options – Standard: NEMA 1 Grey Painted Drawn Steel; 'R' Option: NEMA 3R Grey Painted Drawn Steel; 'PD82' Option: NEMA 3R Grey High-Impact UV Resistant Polycarbonate Plastic with Clear Cover

Note: The electronic mechanism snaps into the standard Intermatic time switch case, replacing mechanical mechanisms, if desired.

Knockouts – Combination 1/2"-3/4" nominal knockouts, one on back and each side of case and two on bottom.

Optional Enclosures – See Time Switch Cases for optional enclosures.

Special Voltages and Cycles – ALL models 50 or 60 Hz.

Switch Rating – 30 Amp Inductive/Resistive, 24 / 120 / 240 / 277 VAC 60 Hz; 20 Amp Resistive, 28 VDC; 1 HP 120 VAC 60 Hz; 2 HP 240 VAC 60 Hz; 5 Amp Tungsten, 120 / 240 / VAC 60 Hz; 20 Amp ballast, 120-277 VAC 60 Hz.

ET100C same ratings for 120 Volt loads only. ET1115 models normally closed contact ratings: 10A Resistive/General purpose,

12 - 277VAC; 10A Resistive/General purpose, 28VDC; 3A Ballast, 120 - 277VAC; 1/4 HP, 120 VAC; 1/2 HP, 240 VAC; 30 LRA; 12 FLA; 275 VA pilot duty, 120 - 240 VAC

Pulse Feature – 2-Circuit models feature 2-Second pulse option for contactor and bell ringing applications.

Auto DST – Automatic Adjustment for Daylight Saving Time (DST)

Carry-over – Field replaceable "AAA" batteries maintain program and accurate time keeping for 3 years minimum.

Up front replacement does not require removal of mechanism.

Wiring Terminals – #18 to #10 AWG wire.

Minimum ON/OFF Times – 1 minute.

Maximum ON/OFF Times – 23 hours 59 minutes.

Engineering Specification

24 Hour Electronic Time Switch

The time switch shall be a solid state electronic control capable of permitting 28 ON/OFF set points per circuit to be distributed on a daily schedule. The time and set points shall be programmable to the nearest minute with a minimum ON duration of 1 minute and a maximum ON duration of 23 hours and 59 minutes. The timer shall have a digital LCD readout to show time-of-day using 12 hour AM/PM indicator. The time switch shall provide for automatic adjustment for Daylight Saving Time (DST). The time switch shall provide a manual override control for both temporary and permanent override. Time switch shall operate over a temperature range of -40°F (-40°C) to 155°F (68°C). Industrial grade AAA alkaline batteries shall carryover time-of-day and date for a minimum of 3 years. Program data shall be stored in non-volatile memory. Switch configuration to be _____ (SPST), (DPST) or (SPDT) with an agency listed rating of: 30 amp Inductive/Resistive, 24/120/240 Volts AC, 60 Hz; 20 amps Resistive, 28 VDC; 1 HP, 120 Volts AC, 60 Hz; 2 HP, 240 Volts AC, 60 Hz; 5 amps Tungsten, 120/240 Volts AC, 60 Hz; 20 amps Ballast, 120-277 Volts AC, 60 Hz. The time switch shall be powered by a 120-277 volts 50/60 Hz source. The time switch shall be enclosed in a lockable _____ (NEMA 1) or (NEMA 3R) rated enclosure.

The time switch shall be listed under UL category 916 Energy Management Equipment and shall be INTERMATIC Model _____ (ET1105C/CR/CPD82), (ET1115C/CR/CPD82), or (ET1125C/CR/CPD82).

Model#	Circuits	Switch	Clock Voltage	Amp Rating	HP Rating	Enclosure
ET1105C	1	SPST	120/208/240/277	30	1HP / 2HP	NEMA1
ET1105CPD82 ¹	1	SPST	120/208/240/277	30	1HP / 2HP	NEMA 3R
ET1105CR	1	SPST	120/208/240/277	30	1HP / 2HP	NEMA 3R
ET1115C	1	SPDT	120/208/240/277	10/30	1HP / 2HP	NEMA1
ET1115CPD82 ¹	1	SPDT	120/208/240/277	10/30	1HP / 2HP	NEMA 3R
ET1115CR	1	SPDT	120/208/240/277	10/30	1HP / 2HP	NEMA 3R
ET1125C ²	2	SPST	120/208/240/277	30	1HP / 2HP	NEMA1
ET1125CPD82 ^{1,2}	2	SPST	120/208/240/277	30	1HP / 2HP	NEMA 3R
ET1125CR ²	2	SPST	120/208/240/277	30	1HP / 2HP	NEMA 3R

¹ CPD82 Models feature NEMA 3R high impact polycarbonate plastic case with clear cover for easy viewing of time switch mode and current status.



Auto Daylight Saving Time Adjustment

Multi-Volt 120, 208, 240 & 277 VAC

Pulsed Contact Feature



UL917
C22.2-177
LR3730



2.5 lbs
1.1 kg



-40°F
(-40°C)
to
155°F
(68°C)



CPD82
NEMA 3R with clear cover



7-Day Electronic Time Switches

ET170 Series 7-Day Time Switch (Permits Different Operation Each Day)

These electronic time switches provide to-the-minute programming for accurate load control and reduced energy costs. Up to 20 set points or events (10 ON/10 OFF or any combination) can be preset to automatically repeat on a weekly or daily basis. The program can be overridden at any time by placing the selector switch in the Manual position. These time switches provide for true 7-day load control with up to 140 operations (70 ON/70 OFF or any combination) each week. Model ET279C provides 20 operations or momentary contact closures of 1 to 8 seconds (ten each or any combination) for two independent circuits.

Specifications

Case – NEMA 1 – Drawn steel 7-3/4" (19.7 cm) High, 5" (12.7 cm) Wide, 3" (7.6 cm) Deep in gray finish.

NEMA 3R – Drawn steel 9-3/8" (23.8 cm) high, 5-1/2" (14.0 cm) wide, 3-5/8" (9.0 cm) deep in gray finish.

Both types include permanently attached side hinged door with lockable hasp. Mounting holes and/or mounting bracket included. Separate grounding terminal.

Note: The electronic mechanism snaps into the standard Intermatic time switch case, replacing mechanical mechanisms, if desired.

Knockouts – Combination 1/2"-3/4" nominal knockouts, one on back and each side of case and two on bottom.

Optional Enclosures – See Time Switch Cases for optional enclosures.

Special Voltages and Cycles – ALL models 50 or 60 Hz.

Switch Rating – 30 Amp Inductive/Resistive, 24 / 120 / 240 / 277 VAC 60 Hz; 20 Amp Resistive, 28 VDC; 1 HP 120 VAC 60 Hz; 2 HP 240 VAC 60 Hz; 5 Amp Tungsten, 120 / 240 / VAC 60 Hz; 20 Amp ballast, 120-277 VAC 60 Hz. ET100C same ratings for 120 Volt loads only. Model ET175C normally closed contact ratings: 10A Resistive/General purpose, 12 - 277VAC; 10A Resistive/General purpose, 28VDC; 3A Ballast, 120 - 277VAC; 1/4 HP, 120 VAC; 1/2 HP, 240 VAC; 30 LRA; 12 FLA; 275 VA pilot duty, 120 - 240 VAC

Carry-over – Field replaceable "AA" batteries maintain program and accurate time keeping for 3 years minimum.

Up front replacement does not require removal of mechanism or field wiring.

Wiring Terminals – #18 to #10 AWG wire.

Minimum ON/OFF Times – 1 minute.

Maximum ON/OFF Times – 6 days 23 hours 59 minutes.

Engineering Specification

7 Day Electronic Time Switch

The time switch shall be a solid state electronic control capable of permitting 20 ON/OFF set points to be distributed on a daily or weekly schedule. The time and set points shall be programmable to the nearest minute with a minimum ON duration of 1 minute and a maximum ON duration of 6 days, 23 hours and 59 minutes. The timer shall have a digital LCD readout to show time-of-day using 12 hour AM/PM indicator. The time switch shall provide a manual override control for both temporary and permanent override. Time switch shall operate over a temperature range of -40°F (-40°C) to 155°F (68°C).

Industrial grade AA alkaline batteries shall protect program information and carryover time-of-day for a minimum of 3 years. Switch configuration to be _____ (SPST) or (DPST) with an agency listed rating of: 30 amp Inductive/Resistive, 24/120/240 Volts AC, 60 Hz; 20 amps Resistive, 28 VDC; 1 HP, 120 Volts AC, 60 Hz; 2 HP, 240 Volts AC, 60 Hz; 5 amps Tungsten, 120/240 Volts AC, 60 Hz; 20 amps Ballast, 120-277 Volts AC, 60 Hz. The time switch shall be powered by a _____ (120 volt), (240 volt) 50/60 Hz source. The time switch shall be enclosed in a lockable _____ (NEMA 1) or (NEMA 3R) rated enclosure. The time switch shall be agency listed under UL category 916 Energy Management Equipment and shall be INTERMATIC Model _____ (ET171C/CR), (ET173C), (ET174C), (ET175C), or (ET279C).

Model#	Circuits	Switch	Clock Voltage	Amp Rating	HP Rating	Enclosure
ET171C	1	SPST	120	30	1HP / 2HP	NEMA1
ET171CR ¹	1	SPST	120	30	1HP / 2HP	NEMA3R
ET173C	1	DPST	120	30	1HP / 2HP	NEMA1
ET174C	1	DPST	240	30	1HP / 2HP	NEMA1
ET175C	1	SPDT	120	10/30	1HP / 2HP	NEMA1
ET279C ^{2,3}	2	SPST	120	30	1HP / 2HP	NEMA1

¹NEMA 3R drawn steel enclosure.

²User selectable contacts independent 2xSPST, simultaneous DPST, or pulsed for mechanically held contactor operation.

³Complies with California Title 24 requirements for multi-level outdoor lighting control.



Applications:

- Schools
- Offices
- Airports
- Stores
- Hotels
- Restaurants
- Parks
- Apartments

For Controlling:

- Water Heaters
- Parking Lot Lighting
- Commercial Ovens
- Interior Lighting
- Air Conditioners
- Fans/Blowers/Pumps
- Livestock Feeders
- Poultry Equipment
- Process Equipment



UL917
C22.2-177
LR3730



2.5 lbs
1.1 kg



-40°F
(-40°C)
to
155°F
(68°C)

7-Day Electronic Time Switches



ET1700 Series 7-Day Time Switch (Permits Different Operation Each Day)

Upgrading to an electronic time switch has never been easier than now with the new ET1700 Series. Features include; Automatic Daylight Saving Time adjustment, multi-volt operation from 120 to 277 VAC, and to-the-minute programming for accurate load control and reduced energy costs. Up to 28 set points or events (14 ON/14 OFF per channel) can be distributed throughout the days of the week. The program can be overridden at any time. Two industrial grade "AAA" Alkaline batteries provide 3 years minimum program and timing protection.

Specifications

Case Options – Standard: NEMA 1 Grey Painted Drawn Steel; 'R' Option: NEMA 3R Grey Painted Drawn Steel; 'PD82' Option: NEMA 3R Grey High-Impact UV Resistant Polycarbonate Plastic with Clear Cover

Note: The electronic mechanism snaps into the standard Intermatic time switch case, replacing mechanical mechanisms, if desired.

Knockouts – Combination 1/2"-3/4" nominal knockouts, one on back and each side of case and two on bottom.

Optional Enclosures – See Time Switch Cases for optional enclosures.

Special Voltages and Cycles – ALL models 50 or 60 Hz.

Switch Rating – 30 Amp Inductive/Resistive, 24 / 120 / 240 / 277 VAC 60 Hz; 20 Amp Resistive, 28 VDC; 1 HP 120 VAC 60 Hz; 2 HP 240 VAC 60 Hz; 5 Amp Tungsten, 120 / 240 / VAC 60 Hz; 20 Amp ballast, 120-277 VAC 60 Hz.

ET100C same ratings for 120 Volt loads only. ET1115 models normally closed contact ratings: 10A Resistive/General purpose,

12 - 277VAC; 10A Resistive/General purpose, 28VDC; 3A Ballast, 120 - 277VAC; 1/4 HP, 120 VAC; 1/2 HP, 240 VAC; 30 LRA; 12 FLA; 275 VA pilot duty, 120 - 240 VAC

Pulse Feature – 2-Circuit models feature 2-Second pulse option for contactor and bell ringing applications.

Auto DST – Automatic Adjustment for Daylight Saving Time (DST)

Carry-over – Field replaceable "AAA" batteries maintain program and accurate time keeping for 3 years minimum.

Up front replacement does not require removal of mechanism.

Wiring Terminals – #18 to #10 AWG wire.

Minimum ON/OFF Times – 1 minute.

Maximum ON/OFF Times – 6 days 23 hours 59 minutes.

Engineering Specification

7 Day Electronic Time Switch

The time switch shall be a solid state electronic control capable of permitting 28 ON/OFF set points per circuit to be distributed on a weekly or daily schedule. The time and set points shall be programmable to the nearest minute with a minimum ON duration of 1 minute and a maximum ON duration of 6 days, 23 hours and 59 minutes. The timer shall have a digital LCD readout to show time-of-day using 12 hour AM/PM indicator. The time switch shall provide for automatic adjustment for Daylight Saving Time (DST). The time switch shall provide a manual override control for both temporary and permanent override. Time switch shall operate over a temperature range of -40°F (-40°C) to 155°F (68°C). Industrial grade AAA alkaline batteries shall carryover time-of-day and date for a minimum of 3 years. Program data shall be stored in non-volatile memory. Switch configuration to be _____ (SPST), (DPST) or (SPDT) with an agency listed rating of:

30 amp Inductive/Resistive, 24/120/240 Volts AC, 60 Hz; 20 amps Resistive, 28 VDC; 1 HP, 120 Volts AC, 60 Hz; 2 HP, 240 Volts AC, 60 Hz; 5 amps Tungsten, 120/240 Volts AC, 60 Hz; 20 amps Ballast, 120-277 Volts AC, 60 Hz. The time switch shall be powered by a 120-277 volts 50/60 Hz source. The time switch shall be enclosed in a lockable _____ (NEMA 1) or (NEMA 3R) rated enclosure. The time switch shall be listed under UL category 916 Energy Management Equipment and shall be INTERMATIC Model _____ (ET1705C/CR/CPD82), (ET1715C/CR/CPD82), or (ET1725C/CR/CPD82).

Model#	Circuits	Switch	Clock Voltage	Amp Rating	HP Rating	Enclosure
ET1705C	1	SPST	120/208/240/277	30	1HP / 2HP	NEMA1
ET1705CPD82 ¹	1	SPST	120/208/240/277	30	1HP / 2HP	NEMA 3R
ET1705CR	1	SPST	120/208/240/277	30	1HP / 2HP	NEMA 3R
ET1715C	1	SPDT	120/208/240/277	10/30	1HP / 2HP	NEMA1
ET1715CPD82 ¹	1	SPDT	120/208/240/277	10/30	1HP / 2HP	NEMA 3R
ET1715CR	1	SPDT	120/208/240/277	10/30	1HP / 2HP	NEMA 3R
ET1725C ²	2	STST	120/208/240/277	30	1HP / 2HP	NEMA1
ET1725CPD82 ^{1 2}	2	SPST	120/208/240/277	30	1HP / 2HP	NEMA 3R
ET1725CR ²	2	SPST	120/208/240/277	30	1HP / 2HP	NEMA 3R

¹ CPD82 Models feature NEMA 3R high impact polycarbonate plastic case with clear cover for easy viewing of time switch mode and current status.

² ET8725 Models feature contacts that can be field configured to act as two independently operated SPST, one simultaneous operated DPST, or independently



Auto Daylight Saving Time Adjustment

Multi-Volt 120, 208, 240 & 277 VAC

Pulsed Contact Feature

California Title 24 Approved



UL917
C22.2-177
LR3730

2.5 lbs
1.1 kg

-40°F
(-40°C)
to
155°F
(68°C)



CPD82

NEMA 3R with clear cover



7-Day Electronic Astronomic Time Switches



ET8000 Series 7-Day Astronomic Time Switch (Tracks Sunrise & Sunset)

Intermatic's Electronic Astronomic 7-Day Time Switch automatically switches loads according to a preset weekly schedule with to-the-minute accuracy. The astronomic feature provides sunset ON and sunrise OFF settings to eliminate the need for separate photo control devices. The independent 7-day programming provides complete flexibility for applications where load switching differs each day of the week. Astronomic programming can be combined with independent programs to provide a sunset ON and timed OFF program.

Specifications

Case Options – Standard: NEMA 1 Grey Painted Drawn Steel; 'R' Option: NEMA 3R Grey Painted Drawn Steel; 'PD82' Option: NEMA 3R Grey High-Impact UV Resistant Polycarbonate Plastic with Clear Cover

Note: The electronic mechanism snaps into the standard Intermatic time switch case, replacing mechanical mechanisms, if desired.

Knockouts – Combination 1/2"-3/4" nominal knockouts, one on back and each side of case and two on bottom.

Optional Enclosures – See Time Switch Cases for optional enclosures.

Special Voltages and Cycles – ALL models 50 or 60 Hz.

Switch Rating – 30 Amp Inductive/Resistive, 24 / 120 / 240 / 277 VAC 60 Hz; 20 Amp Resistive, 28 VDC; 1 HP 120 VAC 60 Hz; 2 HP 240 VAC 60 Hz; 5 Amp Tungsten, 120 / 240 / VAC 60 Hz; 20 Amp ballast, 120-277 VAC 60 Hz.

ET100C same ratings for 120 Volt loads only. ET1115 models normally closed contact ratings: 10A Resistive/General purpose,

12 - 277VAC; 10A Resistive/General purpose, 28VDC; 3A Ballast, 120 - 277VAC; 1/4 HP, 120 VAC; 1/2 HP, 240 VAC; 30 LRA; 12 FLA; 275 VA pilot duty, 120 - 240 VAC

Pulse Feature – 2-Circuit models feature 2-Second pulse option for contactor and bell ringing applications.

Auto DST – Automatic Adjustment for Daylight Saving Time (DST)

Carry-over – Field replaceable "AAA" batteries maintain program and accurate time keeping for 3 years minimum.

Up front replacement does not require removal of mechanism.

Wiring Terminals – #18 to #10 AWG wire.

Minimum ON/OFF Times – 1 minute.

Maximum ON/OFF Times – 6 days 23 hours 59 minutes.

Engineering Specification

7 Day Electronic Time Switch

The time switch shall be a solid state electronic control capable of permitting 28 ON/OFF set points per circuit to be distributed on a weekly or daily schedule with 1 astro ON and 1 astro OFF set point per circuit. The time and set points shall be programmable to the nearest minute with a minimum ON duration of 1 minute and a maximum ON duration of 6 days, 23 hours and 59 minutes. The timer shall have a digital LCD readout to show time-of-day using 12 hour AM/PM indicator. The time switch shall provide for automatic adjustment for Daylight Saving Time (DST). The time switch shall provide a manual override control for both temporary and permanent override.

Time switch shall operate over a temperature range of -40°F (-40°C) to 155°F (68°C).

Industrial grade AAA alkaline batteries shall carryover time-of-day and date for a minimum of 3 years. Program data shall be stored in non-volatile memory. Switch configuration to be _____ (SPST), (DPST) or (SPDT) with an agency listed rating of: 30 amp Inductive/Resistive, 24/120/240 Volts AC, 60 Hz; 20 amps Resistive, 28 VDC; 1 HP, 120 Volts AC, 60 Hz; 2 HP, 240 Volts AC, 60 Hz; 5 amps Tungsten, 120/240 Volts AC, 60 Hz; 20 amps Ballast, 120-277 Volts AC, 60 Hz. The time switch shall be powered by a 120-277 volts 50/60 Hz source. The time switch shall be enclosed in a lockable _____ (NEMA 1) or (NEMA 3R) rated enclosure.

The time switch shall be listed under UL category 916 Energy Management Equipment and shall be INTERMATIC Model _____ (ET1705C/CR/CPD82), (ET1715C/CR/CPD82), or (ET1725C/CR/CPD82).

Model#	Circuits	Switch	Clock Voltage	Amp Rating	HP Rating	Enclosure
ET8015C	1	SPST	120/208/240/277	30	1HP / 2HP	NEMA1
ET8015CPD82 ¹	1	SPST	120/208/240/277	30	1HP / 2HP	NEMA3R
ET8015CR	1	SPST	120/208/240/277	30	1HP / 2HP	NEMA3R
ET8115C	1	SPDT	120/208/240/277	10/30	1HP / 2HP	NEMA1
ET8115CPD82 ¹	1	SPDT	120/208/240/277	10/30	1HP / 2HP	NEMA3R
ET8115CR	1	SPDT	120/208/240/277	10/30	1HP / 2HP	NEMA3R
ET8215C ²	2	SPST	120/208/240/277	30	1HP / 2HP	NEMA1
ET8215CPD82 ^{1,2}	2	SPST	120/208/240/277	30	1HP / 2HP	NEMA3R
ET8215CR ²	2	SPST	120/208/240/277	30	1HP / 2HP	NEMA3R

✓ Auto Daylight Saving Time Adjustment

✓ Multi-Volt 120, 208, 240 & 277 VAC

✓ Pulsed Contact Feature

✓ California Title 24 Approved



UL917
C22.2-177
LR3730

2.5 lbs
1.1 kg

-40°F
(-40°C)
to
155°F
(68°C)



CPD82

NEMA 3R with clear cover

365-Day Electronic Astronomic Time Switches



ET70000 Series 365-Day Time Switch (1, 2, & 4 Circuit Models)

These electronic time switches provide to-the-minute programming for 7-day or full year load control. Features: 12/24 Hr clock format, 1,000 + ON/OFF events, 99 holiday schedules, and auto daylight savings time adjustment. Flexible load control is enhanced by Astro, Variable Pulse, and Interval options as required for outdoor lighting control, bell ringing and after hour temporary override respectively. Non-volatile memory maintains all programmed switching times for the life of the time switch. A factory installed field replaceable lithium battery maintains accurate time keeping and calendar information for a minimum of 8 years.

Specifications

Case – ET70115 & ET70215 Models: NEMA 1 – Drawn steel 7-3/4" (19.7 cm) High, 5" (12.7 cm) Wide, 3" (7.6 cm) Deep in gray finish. NEMA 3R – Drawn steel 9-3/8" (23.8 cm) high, 5-1/2" (14.0 cm) wide, 3-5/8" (9.0 cm) deep in gray finish. ET70415 Model: NEMA 3R – Heavy duty .047" 18 gauge steel in gray finish; 12-1/2" (31.7 cm) High, 8-1/4"

(21.0 cm) Wide, 4" (10.2 cm) Deep.

ON/OFF Events – 1,000+ Events.

Knockouts – Combination 1/2"-3/4" nominal knockouts, one on back and each side of case and two on bottom.

Optional Enclosures – See Time Switch Cases for optional enclosures.

Special Voltages and Cycles – Line voltage models 50 or 60 Hz; Low voltage models 60 Hz 24 Volts.

Switch Rating – Each Pole; 20 amp resistive/general purpose, 12–277 Volts AC; 20 amp resistive/general purpose, 28 Volts DC; 20 amp ballast, 120–277 VAC; 1 HP, 120 VAC 60 Hz; 98 LRA; 22 FLA; 2 HP, 240 VAC 60 Hz; 80 LRA; 30 FLA; 5 amp tungsten, 120–240 VAC; 470 VA pilot duty, 12–240 VAC; TV-5, 120–240 VAC

Carry-over – Non-volatile memory requires no backup. Time keeping and calendar data maintained within 0.01% accuracy for minimum of 8 years with one factory installed, field replaceable lithium coin cell.

Wiring Terminals – #18 to #10 AWG wire.

Minimum ON/OFF Times – 1 minute.

Maximum ON/OFF Times – 6 days 23 hours 59 minutes.

Engineering Specification

365 Day 1, 2, & 4 Circuit Electronic Astronomic Time Switches

The time switch shall be a solid state electronic control capable of permitting 1000 ON/OFF set points to be distributed on independent daily schedules through a 7-day time period and across 99 separate holiday schedules. The time switch shall include a 7-day repeat feature for simplifying programming of identical set points. The time and set points shall be programmable to the nearest minute with a minimum ON duration of 1 minute and a maximum ON duration of 6 days, 23 hours, 59 minutes. The timer shall have a digital LED readout to show day-of-week and time-of-day using 12/24 hour time format. The time switch shall provide a manual override control for both temporary and permanent override. Time switch shall operate over a temperature range of -40°F (-40°C) to 155°F (68°C). A non-volatile memory shall maintain all program data for the life of the time switch without the need for battery backup. The time switch shall include a factory installed lithium battery backup which shall maintain clock time and calendar data for 8 years minimum. Switch configuration to be SPDT for each circuit with a UL 916 Energy Management Equipment listed rating of: Normally Open Contacts Each Pole; 20 amp resistive/general purpose, 12-277 Volts AC; 20 amp resistive/general purpose, 28 Volts DC; 20 amp ballast, 120-277 VAC; 1 HP, 120 VAC 60 Hz; 98 LRA; 22 FLA; 2 HP, 240 VAC 60 Hz; 80 LRA; 30 FLA; 5 amp tungsten, 120-240 VAC; 470 VA pilot duty, 12-240 VAC; TV-5, 120-240 VAC Normally Closed Contacts 10 Amp Resistive/general purpose, 12-277 VAC; 10 Amp Resistive/general purpose, 28 Volts DC; 3 Amp ballast, 120-277 VAC; 1/4 HP, 120 VAC 60 Hz; 1/2 HP, 240 VAC 60 Hz; 30 LRA; 12 FLA; 275 VA pilot duty, 12-240 VAC. The time switch shall be enclosed in a lockable steel _____ (NEMA 1) (NEMA 3R) enclosure. The time switch shall be powered by a _____

(user selectable 120, 208, 240 or 277 VAC 50 or 60 Hz) (24 VAC 60 Hz) source. The time switch shall be INTERMATIC Model

_____ (ET70115C, ET70115CR or ET70115CR24 1-circuit) (ET70215C, ET70215CR or ET70215CR24 2-circuits)

(ET70415CR, or ET70415CR24 4-circuits)

Model#	Circuits	Switch	Clock Voltage	Amp Rating	HP Rating	Enclosure
ET70115C	1	SPDT	120/208/240/277	20	1HP / 2HP	NEMA1
ET70115CR	1	SPDT	120/208/240/277	20	1HP / 2HP	NEMA3R
ET70115CR24	1	SPDT	24	20	1HP / 2HP	NEMA3R
ET70215C ^{1,2}	2	SPDT	120/208/240/277	20	1HP / 2HP	NEMA1
ET70215CR ^{1,2}	2	SPDT	120/208/240/277	20	1HP / 2HP	NEMA3R
ET70215CR24 ^{1,2}	2	SPDT	24	20	1HP / 2HP	NEMA3R
ET70415CR ^{1,2}	4	SPDT	120/208/240/277	20	1HP / 2HP	NEMA3R
ET70415CR24 ^{1,2}	4	SPDT	24	20	1HP / 2HP	NEMA3R

¹ Multi-Circuit Models feature contacts that can be field configured to act independently operated SPDT, or simultaneously operated, or independently pulsed SPDT for contactor and bell ringing applications.



California Title 24 Approved



UL916
E76987



UL917
C22.2-177
LR3730



-40°F
(-40°C)
to
155°F
(68°C)



365-Day Electronic Astronomic Time Switches

ET70000 Series 365-Day Time Switch (8 & 16 Circuit Models)

These electronic time switches provide to-the-minute programming for 7-day or full year load control. Features: 12/24 Hr Clock Format, 4,000+ ON/OFF Events, 99 Holiday Schedules, and Auto Daylight Savings Time Adjustment. Flexible load control is enhanced by Astro, Variable Pulse, and Interval options as required for outdoor lighting control, bell ringing and after-hour temporary override respectively. Non-volatile memory maintains all programmed switching times for the life of the time switch. A factory installed field replaceable lithium battery maintains accurate time keeping and calendar information for a minimum of 8 years.

Specifications

Case – 8-Circuit NEMA 3R - Heavy duty .048" steel in gray finish; 10-3/4" (27.3 cm) High, 11-1/2" (29.2 cm) Wide, 4-3/4" (12.1 cm) deep with lockable hasp. 16-Circuit NEMA 3R - Heavy duty .060" steel in gray finish; 20-5/8" (52.4 cm) High, 13-1/4" (33.7 cm) Wide, 5-1/8" (13.0 cm) Deep with lockable hasp.

ON/OFF Events – 8 & 16-Circuit - 4,000+ Events.

Special Voltages and Cycles – Line voltage models 50 or 60 Hz; Low voltage models 60 Hz 24 Volts.

Switch Rating – Each Pole; 20 amp resistive/general purpose, 12–277 Volts AC; 20 amp resistive/general purpose, 28 Volts DC; 20 amp ballast, 120–277 VAC; 1 HP, 120 VAC 60 Hz; 98 LRA; 22 FLA; 2 HP, 240 VAC 60 Hz; 80 LRA; 30 FLA; 5 amp tungsten, 120–240 VAC; 470 VA pilot duty, 12–240 VAC; TV-5, 120–240 VAC

Carry-over – Non-volatile memory requires no backup. Time keeping and calendar data maintained within 0.01% accuracy for minimum of 8 years with one factory installed, field replaceable lithium coin cell.

Wiring Terminals – #18 to #10 AWG wire.

Minimum ON/OFF Times – 1 minute.

Maximum ON/OFF Times – 6 days 23 hours 59 minutes.

Engineering Specification

365 Day 8 & 16 Circuit Electronic Astronomic Time Switches

The time switch shall be a solid state electronic control capable of permitting 4000+ ON/OFF set points to be distributed on independent daily schedules through a 7-day time period and across 99 separate holiday schedules. The time switch shall include a 7-day repeat feature for simplifying programming of identical set points. The time and set points shall be programmable to the nearest minute with a minimum ON duration of 1 minute and a maximum ON duration of 6 days, 23 hours, 59 minutes. The timer shall have a digital LED readout to show day-of week and time-of-day using 12/24 hour time format. The time switch shall provide a manual override control for both temporary and permanent override. Time switch shall operate over a temperature range of -40°F (-40°C) to 155°F (68°C). A non-volatile memory shall maintain all program data for the life of the time switch without the need for battery backup. The time switch shall include a factory installed lithium battery backup which shall maintain clock time and calendar data for 8 years minimum. Switch configuration to be SPDT for each circuit with a UL 916 Energy Management Equipment listed rating of: Normally Open Contacts Each Pole; 20 amp resistive/general purpose, 12-277 Volts AC; 20 amp resistive/general purpose, 28 Volts DC; 20 amp ballast, 120-277 VAC; 1 HP, 120 VAC 60 Hz; 98 LRA; 22 FLA; 2 HP, 240 VAC 60 Hz; 80 LRA; 30 FLA; 5 amp tungsten, 120-240 VAC; 470 VA pilot duty, 12-240 VAC; TV-5, 120240 VAC/1 Normally Closed Contacts 10 Amp Resistive/general purpose, 12-277 VAC; 10 Amp Resistive/general purpose, 28 Volts DC; 3 Amp ballast, 120-277 VAC; 1/4 HP, 120 VAC 60 Hz; 1/2 HP, 240 VAC 60 Hz; 30 LRA; 12 FLA; 275 VA pilot duty, 12-240 VAC. The time switch shall be enclosed in a lockable steel _____ (NEMA 1) (NEMA 3R) enclosure. The time switch shall be powered by a _____ (user selectable 120, 208, 240 or 277 VAC 50 or 60 Hz) (24 VAC 60 Hz) source. The time switch shall be INTERMATIC Model _____ (ET70815CR or ET70815CR24 8-circuit) (ET71615CR or ET71615CR24 16-circuits).

Model#	Circuits	Switch	Clock Voltage	Amp Rating	HP Rating	Enclosure
ET70815CR ¹²	8	SPDT	120/208/240/277	20	1HP / 2HP	NEMA3R
ET70815CR24 ¹²	8	SPDT	24	20	1HP / 2HP	NEMA3R
ET71615CR ¹²	16	SPDT	120/208/240/277	20	1HP / 2HP	NEMA3R
ET71615CR24 ¹²	16	SPDT	24	20	1HP / 2HP	NEMA3R

¹ Multi-Circuit Models feature contacts that can be field configured to act independently operated SPDT, or simultaneously operated, or independently pulsed SPDT for contactor and bell ringing applications.

² Complies with California Title 24 for multi-level outdoor lighting control.



Applications:

- Schools
- Offices
- Airports
- Stores
- Hotels
- Restaurants
- Factories
- Parks
- Apartments

For Controlling:

- Water Heaters
- Parking Lot Lighting
- Commercial Ovens
- Interior Lighting
- Bells & Signals
- HVAC Equipment
- Fans/Blowers/Pumps
- Livestock Feeders
- Poultry Equipment
- Process Equipment

California Title 24 Approved



UL916
E76987

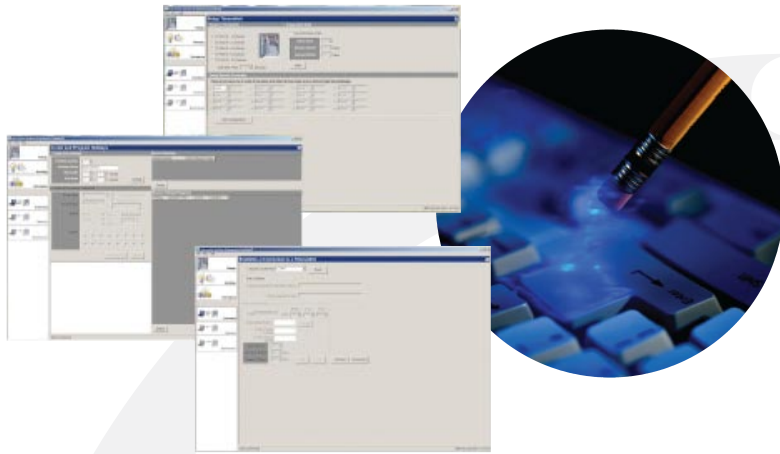


UL917
C22.2-177
LR3730



-40°F
(-40°C)
to
155°F
(68°C)

Next Generation Programming Software



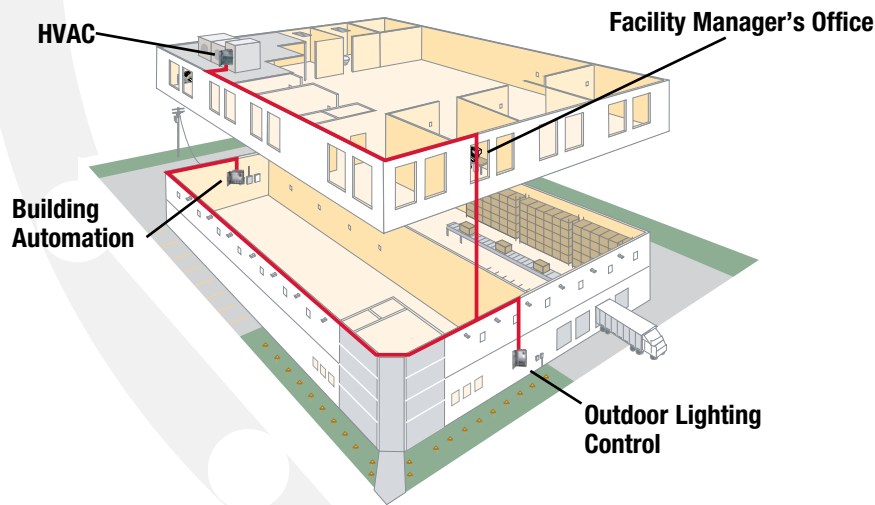
Unleash the Power of the Next Generation Time Switch!

The NextGen programming software written specifically for installing contractors and maintenance personnel is the fastest and easiest way to program the Intermatic Next Generation series of electronic time switches.

Features

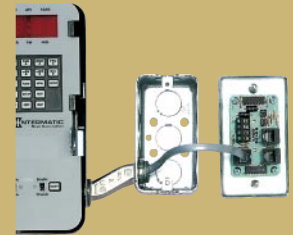
- Programming of all current Next Generation models (1, 2, 4, 8, & 16 circuits)
- Easy point-n-click programming of holiday and daily event schedules
- File save function for archiving event schedules for future editing and use
- On-line help manual gives easy to follow directions
- One-button time and date programming synchronizes the time switch with your PC's date and time

Request Item# 300ET10018



Networking capabilities allow programming of the Next Generation time switches allowing facility managers to make schedule changes from across the building or campus through an intranet or even across country through the Internet.

NEXT GENERATION ACCESSORIES



ET7232M / ET7232M1

RS232 Serial Interface for all Next Generation Time switches. Also used as remote override for 1 & 2 circuit models.



156ET9402A

8-Circuit remote override input header. (Not Pictured)

156ET9403A

16-Circuit remote override input header.

LAN Connection to a PC

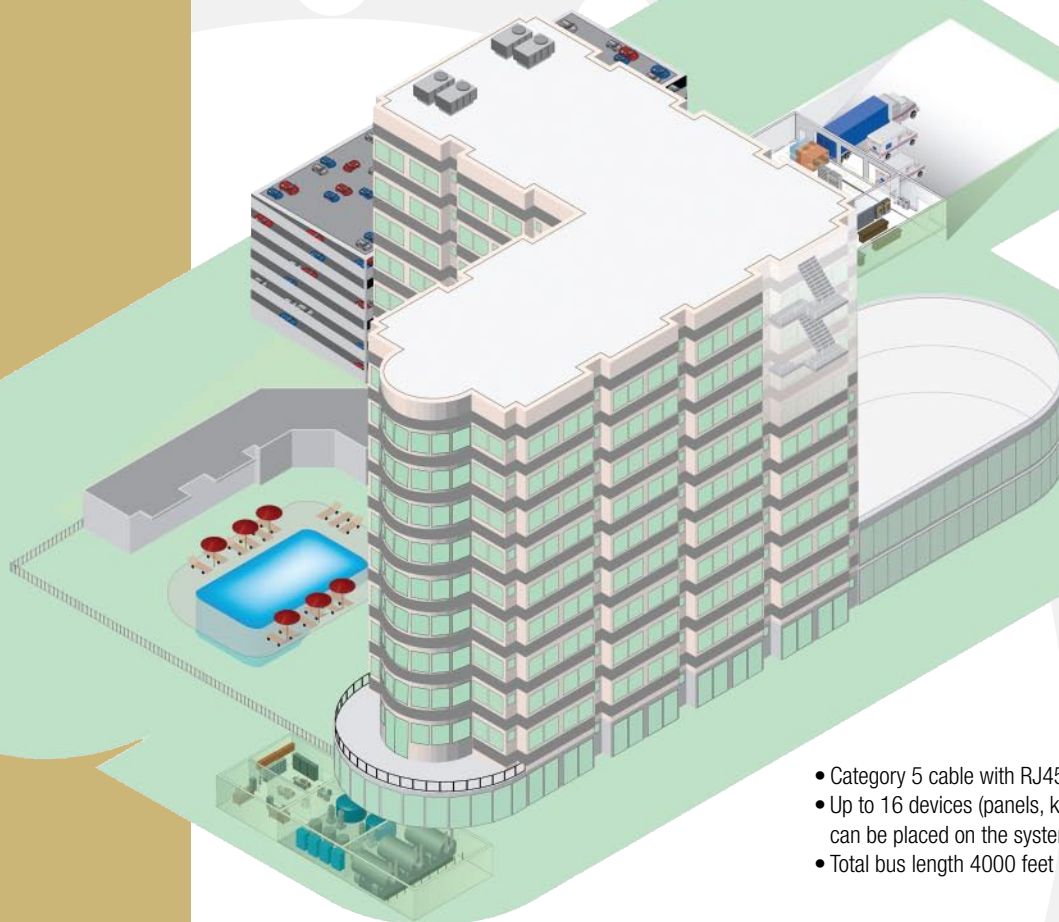
Office computers are typically connected through a local area networks (LANs) which provides an in-place backbone to allow control of Next Generation time switches from any linked PC. This applies to office buildings as well as distributed facilities such as university or corporate campuses.

NextGen Distributed Control

By linking distributed Next Generation time switches together with the facility manager's PC the time and associated cost of making periodic schedule changes is greatly reduced and all timing throughout the network can be synchronized to the second with the PC's internal clock.



Energy Master Series Advanced Lighting Control System



- Category 5 cable with RJ45 connectors
- Up to 16 devices (panels, keypads, etc.) can be placed on the system bus
- Total bus length 4000 feet maximum



Energy Master Series Advanced Lighting Control System



Energy Master Panels

The Energy Master Control System provides 100% digital replacement for traditional time clocks, twist timers and contactor packages. Panels and switches daisy-chain together using category 5 patch cables with RJ45 connectors. The digital timing control (DTC) of the EM1400 Energy Master Series includes many advance features and provides for complete control of up to 256 circuits. Control options are enhanced by the ability of the EM1400 series to accept inputs from a variety of accessory devices including; digital photo sensors, dry contact closures, keypads & switches, as well as peripheral devices such as serial and Ethernet interfaces.

DTC Features:

- 32 independent 365-day schedules
- Astronomical timing of Sunrise and Sunset events
- Large LCD user interface display
- Ten-year battery backup of time-of-day
- Non-volatile system memory stores all programming
- Manual override of each circuit
- On-Board digital contact closure inputs
- On-Board photo sensor input

MASTER PANELS

Enclosure dimensions: 12" w x 18" h x 6" d (8 or 16 relays)
 Enclosure type: Surface mount, hinged cover enclosure with friction catch, NEMA 1
 Bus specifications: Devices: 16 Maximum
 Length: 4000 feet Maximum
 Listings: UL/CUL 916 listed, ETL listed to UL 924 (for emergency circuit use)
 Programming: Via EM1400 clock or via PC with EM I-Manager Software
 Max. humidity: 10% - 90% non-condensing
 Ambient temperature: 0° - 105° F
 Power supply voltage: 120v/277v
 Bus protocol: RS 485 (EM1400 bus)
 Bus connector: RJ45 connectors
 System Inputs: 10 Digital contact closure inputs
 1 Photo sensor input (Use EM14PS photo sensor)

SLAVE PANELS

Enclosure dimensions: 12" w x 18" h x 6" d (8 or 16 relays)
 Enclosure type: Surface mount, hinged cover enclosure with friction catch, NEMA 1
 Listings: UL/CUL 916 listed, ETL listed to UL 924 (for emergency circuit use)
 Max. humidity: 10% - 90% non-condensing
 Ambient temperature: 0° - 105° F
 Power supply voltage: 120v/277v
 Bus protocol: RS 485 (EM1400 bus)
 Bus connector: RJ45 connectors

Model#	Circuits	Switch	Clock Voltage	Amp Rating	DTC	Enclosure
EM1408MC	8	SPST	120/277	30	Yes	NEMA1
EM1416MC	16	SPST	120/277	30	Yes	NEMA1
EM1408SC	8	SPST	120/277	30	No	NEMA1
EM1416SC	16	SPST	120/277	30	No	NEMA1

Contacts can be field configured to independently operated SPDT, or simultaneously operated, or independently pulsed SPDT for contactor and bell ringing applications.

Complies with California Title 24 for multi-level outdoor lighting control.



EM1416MC





Energy Master Series Advanced Lighting Control System



Energy Master Control Stations

These 100% digital momentary switches control partitions, groups or scenes of lighting. A single button can be set up to control up to 240 circuits. Programming also allows keypad inputs to be configured for momentary, toggle, bypass timing, as well as many other popular switching functions. Control stations may be ordered with up to six buttons per gang.

Model#	Buttons	Style	Color
EMKB1	1	Decorator	White
EMKB2	2	Decorator	White
EMKB3	3	Decorator	White
EMKB4	4	Decorator	White
EMKB5	5	Decorator	White
EMKB6	6	Decorator	White

Energy Master Rocker Stations

Since they look like traditional wall switches, rocker switches provide a familiar interface to a modern lighting control system and can be mounted in standard switch boxes. Both digital and contact closure rocker switches can be programmed to control any relay in any panel in the system.

Model EMDS

The Momentary Rocker Switch interfaces with lighting control system through digital contact input on the master control panel or through connection to photo sensor input module (EMPS3IN).

Model EMRS-W-D

The Digital Rocker Switch interfaces directly with the lighting control system communication bus using standard category 5 patch cables with RJ45 connectors.



Energy Master Series Advanced Lighting Control System



Energy Master 120-347 Volt Relay Modules

Intermatic offers a variety of relay configurations for different applications including the demands of today's high-efficiency ballast loads. Each relay is individually removable from the insulating track, where it is mounted within the relay panel. All relays are UL and CUL 916 listed as well as ETL Listed to UL Standard 924.

Model EMSLNC - Normally Closed Latching Relay

Model EMSLNO - Normally Open Latching Relay

Load Ratings

Ballast: 30A @ 277VAC
Tungsten: 20A @ 120VAC
Ballast: 20A @ 347VAC

Performance Ratings

Maximum conductors: 2 each # 8AWG per lug
Short circuit current rating: 18,000 Amps @ 277VAC
Cycle rating: 250,000 Cycles

Energy Master 120-347 Volt Relay Modules

The 600 volt double-pole relay occupies the footprint of two standard single-pole relays when mounted in a EM1400 Series panel. The 600 volt relay is ideal for 277/480v (347/600 in Canada) HID loads and eliminates the need to have relays controlling lighting contactors.

Model EMSL600NC - Normally Closed Double-Pole 600 Volt Relay

Model EMSL600NO - Normally Open Double-Pole 600 Volt Relay

Load Ratings

Ballast: 20A @ 600VAC
Motor: 1HP @ 120/208 or 120/240VAC, 2HP @ 277/480VAC
(or 347/600VAC in Canada)

Performance Ratings

Maximum conductors: 2 each # 8AWG per lug
Short circuit current rating: 5,000* Amps @ 600VAC

** Implied SCCR for all UL 50 or UL 916 products is 5000 amps.
This relay has not been tested to any specific SCCR.*



EMSLNC & EMSLNO



EMSL600NC & EMSL600NO



Energy Master Series Advanced Lighting Control System

Energy Master Photo Sensors & Accessories

Intermatic has a complete line of photo sensors to optimize your lighting control system for both simple and complex site lighting applications and can even stagger ON lighting as outdoor light levels decrease. When using the photo sensor input module in conjunction with digital photo sensors the system becomes capable of delivering up to 14 different levels of lighting in reaction to sensed ambient light.

NEW



EM14PS & EMOPS1

Model EM14PS - Outdoor Local Photo Sensor

- May be used as part of a single time schedule for outdoor lighting schedules (Photo sensor ON, time clock OFF)
- Designed for single zone or multi-zone lighting applications
- Suitable for wet locations
- Standard 1/2" - 14 threaded mounting

Model EMOPS1 - Outdoor Digital Global Photo Sensor

- When combined with a photo sensor input module this sensor provides up to 14 different trigger points, each controlling a unique relay group in as many as 15 relay panels
- Designed for single zone or multi-zone lighting applications
- Suitable for wet locations
- Standard 1/2" - 14 threaded mounting

NEW



EMPS3IN

Model EMPS3IN - Photo Sensor Input Module

- Accepts input from up to 3 connected indoor or outdoor Digital Photo Sensors or contact closure inputs
- Up to 14 switch-trigger points
- Inputs may be digitally enabled or disabled via time clock or other controllers such as digital switch, building automation or occupancy sensors
- Triggers act as global ON and OFF commands; each programmed at a unique light level and controlling a unique group of relays
- Advanced daylight harvesting features

Model EM-MOD - Modem Module

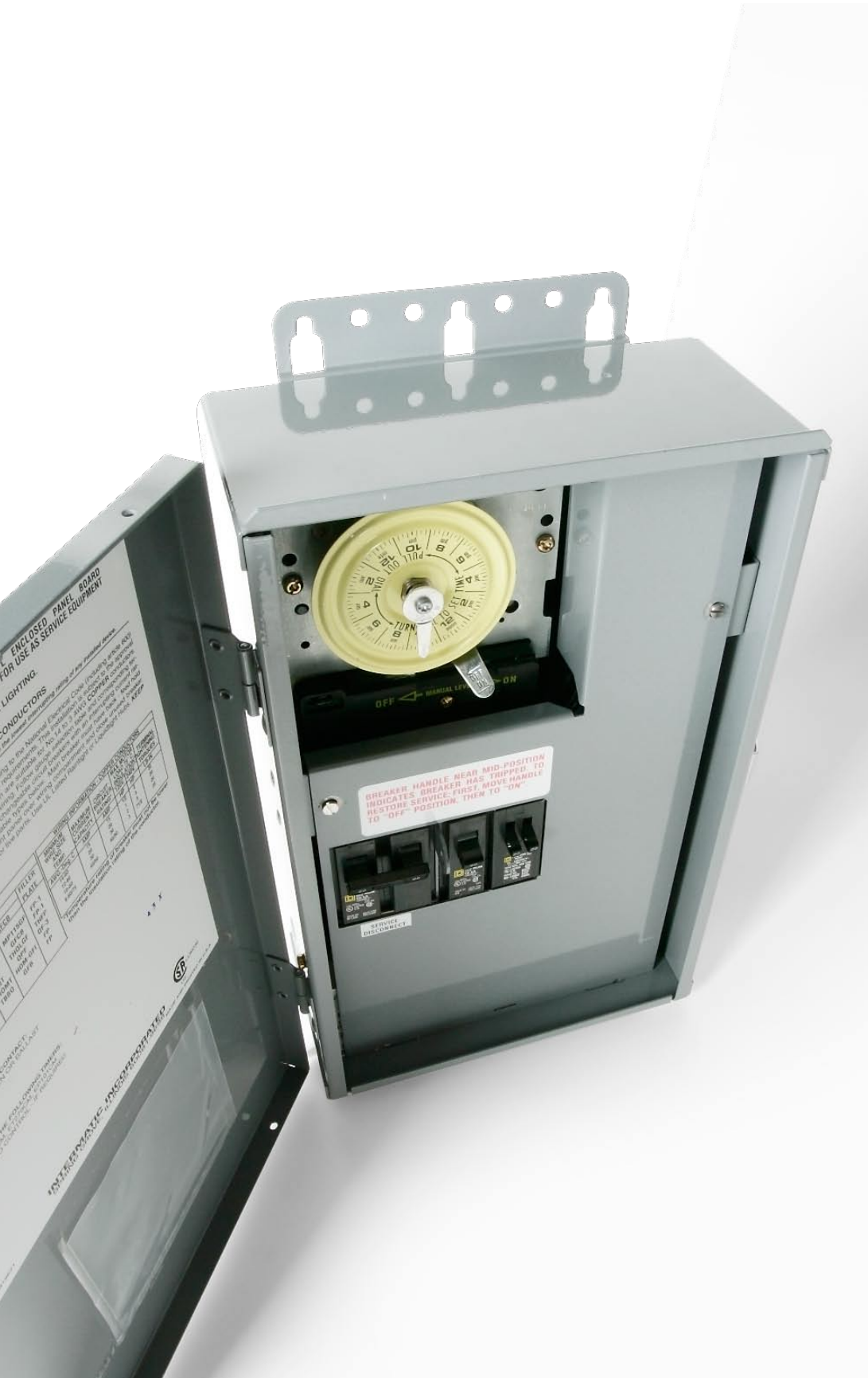
- Mounts directly into the EM1408MC or EM1416MC master panel
- Allows the EM1400 series to be programmed remotely over standard telephone lines
- Requires EM I-Manager Software

NEW



EM-MOD

SiteMaster Lighting Panels



SiteMaster

Intermatic's site lighting control includes mechanical, electronic or astronomic time switch control of high current loads. Relay, breaker and multi-circuit options allow for electrical configurations up to 120 Amp.

- Pre-wired for easy installation
- Heavy duty mounting bracket for secure panel mounting
- Option of mechanical, 24-hour or 7-day electronic or astronomic controls
- Captive screws for added convenience while panel is being serviced
- NEMA 3R lockable enclosure
- Main disconnect lock for added safety during maintenance
- Stainless steel enclosure option for long life in severe conditions



SM2200 Series



SM4400 Series



SM6600 Series



SiteMaster Lighting Panels



SiteMaster Site Lighting Control Panels

These heavy duty lighting control panels are designed for harsh environmental and lighting load conditions. Features include; Pre-wiring for quick installation, heavy-duty NEMA 3R enclosures, mercury or "Ice Cube" relays, agency approved disconnect, 40, 80, 120 Amp design, locking hasps, and dead-front storage. Mechanical or electronic timing, lightning arrester, photo control, and stainless steel options.

SM2200 Series Specifications

Gasketless panel with two 20 Amp DPST Relays. Pre-wired with one 20 Amp double-pole Square D Homeline™ main breaker. 120 V output: one twin 20 Amp breaker & one single-pole 20 Amp breaker (for 240 V output- quad breaker with common trip on outside and inside). Capable of controlling 40 Amps @ 120 V and 20 Amps @ 240 V or 12- 400 Watt HID fixtures.

SM4400 Series Specifications

Gasketless panel with two 20 Amp DPST Relays. Pre-wired with one 40 Amp double-pole Square D Homeline™ main breaker. 120 V output: Six single-pole 20 Amp breakers (240 V output: three double-pole 20 Amp breakers). Capable of controlling 80 Amps @ 120 V and 40 Amps @ 240 V or 24- 400 Watt HID fixtures.

SM6600 Series Specifications

Gasketless panel with one 60 Amp DPST mercury relay. Split buss service- Upper buss. 120 V output: Pre-wired with one 60 Amp double-pole Square D Homeline™ main breaker and one single pole 20 Amp breaker (240 V output: one 60 Amp double-pole and one 20 Amp double-pole breaker) Lower Buss - for load connections. Eight single-pole 20 Amp breakers (for 240 V output - four double-pole breakers). Capable of controlling 120 Amp @ 120 V and 60 Amps @ 240 V or 36- 400 Watt HID fixtures.

SM6240DOT & SM6277DOT Series Specifications

Gasketless 14 AWG stainless-steel panel with 3-point locking system. SM6240DOT: 60 Amp DPST mercury relay. Split buss service- Upper buss. 120 V output: Pre-wired with one 60 Amp double-pole Square D Homeline™ main breaker and one single-pole 20 Amp breaker. Lower Buss - for load connections: Four double-pole 20 Amp breakers. Capable of controlling 60 Amps @ 240 V or 36- 400 Watt HID fixtures. Pre-installed 15 Amp GFCI duplex convenience receptacle. SM6277DOT: 60 Amp 3PST mercury relay. Input power 480/277 V 3-Phase: Pre-wired with one 60 Amp 3-Phase main breaker and one single-phase 20 Amp breaker. Load Output: Six 20 Amp 277 V Single-Phase breakers. Capable of controlling 180 Amps @ 277 V or 54- 400 Watt HID fixtures.

Engineering Specification

Site Lighting Control Panel

The site lighting control panel shall incorporate agency approved disconnect means with lockout capability, branch circuit breakers for feeding connected lighting loads, electrically held contactor suitable for switching attached loads, and timing mechanism for control of said contactor. The control panel shall be pre-wired for installation convenience and reliability. The control panel shall be designed to accept a variety of timing mechanisms including mechanical and electronic. The control panel and all related components shall operate over a temperature range of -31°F (-35°C) to 130°F (54°C). The capacity of each branch circuit within the control panel shall be 20 amps minimum. The control panel shall be a lockable steel NEMA 3R enclosure. The control panel shall be INTERMATIC Model _____ (SM2200x-x 2-branch; 4,800 Watt HID) (SM4400x-x 6-branch; 9,600 Watt HID) (SM6600x-x 8-branch; 14,400 Watt HID) (SM6240DOT) (SM6277DOT).

Applications:

- Schools
- Offices
- Airports
- Stores
- Hotels
- Restaurants
- Factories
- Apartments
- Electrical Utilities
- Municipalities

For Controlling:

- Roadway Lighting
- Parking Structures
- Parking Lots
- Billboards
- Entertainment Venues
- Ball Fields
- Driving Ranges
- Parks
- Outdoor Area Lighting



C22.2-177
LR3730

-40°F
(-40°C)
to
130°F
(54°C)

SiteMaster Lighting Panels



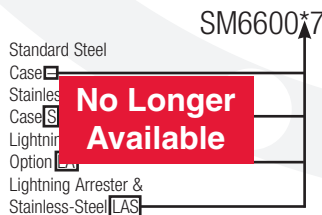
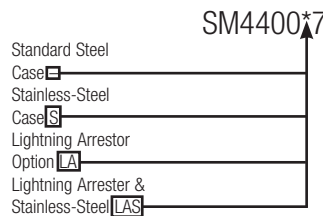
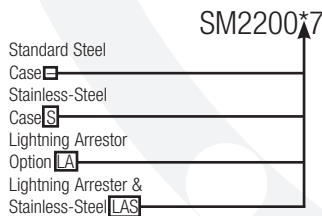
Model#	Time Switch/Description	# Outputs	Output VAC	Photo Control
SM2200*1	T103M Mechanical Time Switch	2	120 VAC	No
SM2200*2	T103M Mechanical Time Switch	2	120 VAC	Yes
SM2200*3	ET101CM Electronic Time Switch	2	120 VAC	No
SM2200*4	ET101CM Electronic Time Switch	2	120 VAC	Yes
SM2200*5	ET279C Electronic Time Switch	2	120 VAC	No
SM2200*6	ET279C Electronic Time Switch	2	120 VAC	Yes
SM2200*7	ET104CM Electronic Time Switch	1	240 VAC	No
SM2200*8	ET104CM Electronic Time Switch	1	240 VAC	Yes
SM2200*16	ET8215CM Astronomic Time Switch	2	120 VAC	No

Model#	Time Switch/Description	# Outputs	Output VAC	Photo Control
SM4400*1	T103M Mechanical Time Switch	4	120 VAC	No
SM4400*2	T103M Mechanical Time Switch	4	120 VAC	Yes
SM4400*3	ET101CM Electronic Time Switch	4	120 VAC	No
SM4400*4	ET101CM Electronic Time Switch	4	120 VAC	Yes
SM4400*5 ¹	ET279C Electronic Time Switch	4	120 VAC	No
SM4400*6 ¹	ET279C Electronic Time Switch	4	120 VAC	Yes
SM4400*7	ET70115C Electronic Astro Time Switch	4	120 VAC	No
SM4400*8 ¹	ET70215C Electronic Astro Time Switch	4	120 VAC	No
SM4400*9 ¹	ET70215C Electronic Astro Time Switch	4	120 VAC	Yes
SM4400*10	T104M Mechanical Time Switch	2	240 VAC	No
SM4400*11	T104M Mechanical Time Switch	2	240 VAC	Yes
SM4400*12	ET104CM Electronic Time Switch	2	240 VAC	No
SM4400*13	ET104CM Electronic Time Switch	2	240 VAC	Yes
SM4400*14 ¹	ET70215C Electronic Astro Time Switch	2	240 VAC	No
SM4400*16	ET8215CM Astronomic Time Switch	4	120 VAC	No

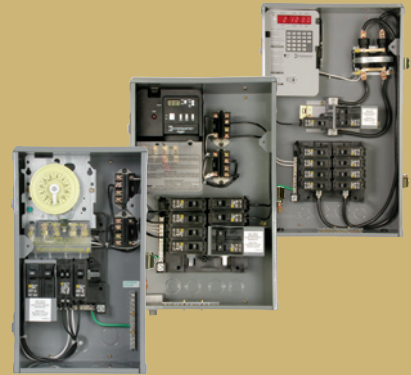
Model#	Time Switch/Description	# Outputs	Output VAC	Photo Control
SM6600*1	T103M Mechanical Time Switch	8	120 VAC	No
SM6600*2	T103M Mechanical Time Switch	8	120 VAC	Yes
SM6600*3	ET101CM Electronic Time Switch	8	120 VAC	No
SM6600*4	ET101CM Electronic Time Switch	8	120 VAC	Yes
SM6600*5	ET104CM Electronic Time Switch	2	240 VAC	No
SM6600*6	ET104CM Electronic Time Switch	2	240 VAC	Yes
SM6600*7 ¹	ET279C Electronic Time Switch	2	120 VAC	No
SM6600*8 ¹	ET279C Electronic Time Switch	2	120 VAC	Yes
SM6600*9	ET70115C Electronic Astro Time Switch	8	120 VAC	No
SM6600*10 ¹	ET70215C Electronic Astro Time Switch	8	120 VAC	No
SM6600*16	ET8215CM Astronomic Time Switch	8	120 VAC	No

No Longer Available

¹Two independent circuits for bi-level or 2-sided control. Complies with California Title 24 requirements for multi-level outdoor lighting control



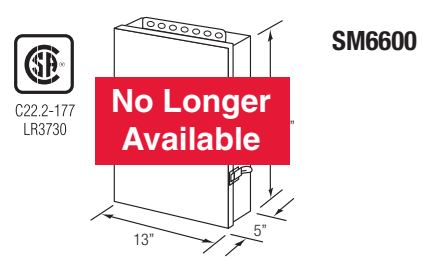
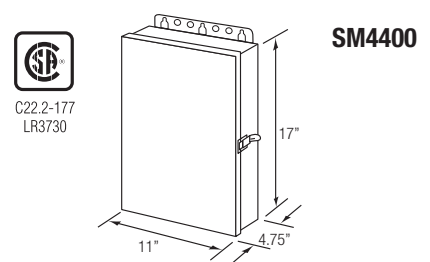
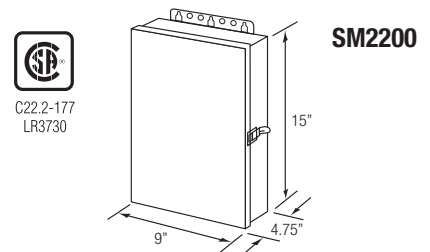
No Longer Available



SITE LIGHTING PANEL TIME SWITCH OPTIONS

Mechanical, Electronic, & Astronomic Field Changeable Mechanisms

Panel Dimensions



No Longer Available



Decorator Spring Wound Timers



Applications:

- Indoor Lighting
- Outdoor Lighting
- Lighting Overrides
- Exhaust Fans
- Whole House Fans
- Ventilating Fans
- Tennis Court Lighting
- Pumps
- Air Conditioners
- Steam Rooms
- Bathroom Fans
- Whirlpools
- Porch Lights
- Broom Closets
- Carriage Lights
- Television Sets
- Self Storage Units
- Engine Block Heaters
- Process Controls



UL916
E76987



C22.2-177
LR3730



2.5 lbs
1.1 kg



-40°F
(-40°C)
to
155°F
(68°C)

FD Decorator Series Auto-Off Timers

These energy saving timers use no electricity to operate. These timers are designed to replace any standard wall switch, single or multi-gang, and automatically limit the "ON" time of fans, lights, motors, heaters and other energy consuming loads. Time limits of 5, 15, 30 and 60 minutes and 2, 4, 6 and 12 hours are available. The "hold feature" allows the user to override the automatic shut-off function for extended use of the load as required. Supplied with a molded white, ivory or almond time dial plate designed to fit either toggle or decorator style switch plates; single or multi-gang with no field modifications required to fit either style switch plate. Time saving "up front" terminal connection with teeter type terminals and an easy "press-on" knob design ensure quick and easy installation.

Specifications

Switch Rating –

Inductive: 20 Amp 125 VAC 50/60 Hz; 10 Amp 250 VAC 50/60 Hz; 10 Amp 277 VAC 50/60 Hz,

Tungsten: 7 Amp 125 VAC,

Motor: 1 HP 125 VAC 50/60 Hz; 2 HP 250 VAC 50/60Hz

Caution: Do not use for sunlamps, sauna, etc...

Colors – Available in White, Ivory, and Almond

Style – Decorator Styling - Can be used with decorator or toggle type switch plates.

Engineering Specification

Spring Wound Auto Shut-Off Timer (a.k.a. Interval Timer).

Provide and install as indicated a mechanical spring wound timer that requires no electricity to operate the timing mechanism. The timer shall be supplied with a threaded shaft. The timer must be able to fit a standard 2-1/2 inch deep wall box and accept a rectangular decorator wall plate, standard toggle switch plate or be capable of mounting easily in a panel board. Timer contacts shall break current at the end of timed cycle. Various timing ranges and switch contact arrangements shall be available up to 12 hours, with or without "HOLD" feature for constant ON. Timer shall be Intermatic Model FD _____ (Fill in for required time range, contact arrangement and color).

Time Cycle	Switch	Hold	IVORY		WHITE		ALMOND	
			Intermatic	Grasslin	Intermatic	Grasslin	Intermatic	Grasslin
5 Min	SPST	No	FD5M	KLT5M	FD5MW	KLT5M-W	---	---
15 Min	SPST	No	FD15MC	KLT15M	FD15MWC	KLT15M-W	FD15MAC	---
15 Min	SPST	Yes	FD15MH	KLT15MH	FD15MWH	KLT15MH-W	---	---
30 Min	SPST	No	FD30MC	KLT30M	FD30MWC	KLT30M-W	FD30MAC	---
30 Min	SPST	Yes	FD30MH	KLT30MH	FD30MWH	KLT30MH-W	---	---
60 Min	SPST	No	FD60MC	KLT60M	FD60MWC	KLT60M-W	FD60MAC	---
60 Min	SPST	Yes	FD60MH	KLT60MH	FD60MWH	KLT60MH-W	---	---
2 Hr	SPST	No	FD2H	KLT2H	FD2HW	KLT2H-W	---	---
4 Hr	SPST	No	FD4H	KLT4H	FD4HW	KLT4H-W	---	---
6 Hr	SPST	No	FD6H	KLT6H	FD6HW	KLT6H-W	---	---
6 Hr	SPST	Yes	FD6HH	KLT6HH	FD6HHW	KLT6HH-W	---	---
12 Hr	SPST	No	FD12HC	KLT12H	FD12HWC	KLT12H-W	---	---
12 Hr	SPST	Yes	FD12HH	KLT12HH	FD12HHW	KLT12HH-W	---	---
2 Hr	SPDT	No	FD32H	KLT2H	FD32HW	KLT2H-W	---	---
4 Hr	SPDT	No	FD34H	KLT4H	FD34HW	KLT4H-W	---	---
6 Hr	SPDT	No	FD36H	KLT6H	FD36HW	KLT6H-W	---	---
12 Hr	SPDT	No	---	---	FD312HW	KLT12H-W	---	---
15 Min	DPST	No	FD415M	---	---	---	---	---
30 Min	DPST	No	FD430M	---	FD430MW	---	---	---
60 Min	DPST	No	FD460M	---	FD460MW	---	---	---
6 Hr	DPST	No	FD46H	---	FD36HW	---	---	---

Commercial Spring Wound Timers



FF Commercial Series Auto-Off Timers

These energy saving commercial timers use no electricity to operate. These timers are designed to replace any standard wall switch, single or multi-gang, and automatically limit the "ON" time of fans, lights, motors, heaters and other energy consuming loads. Time limits of 5, 15, 30 and 60 minutes and 2, 4, 6 and 12 hours are available. The "hold feature" allows the user to override the automatic shut-off function for extended use of the load as required. Rugged time-dial plate takes the abuse encountered in commercial environments. Time saving "up front" terminal connection with teeter type terminals and an easy "press-on" knob design ensure quick and easy installation.

Specifications

Switch Rating –

Inductive: 20 Amp 125 VAC 50/60 Hz; 10 Amp 250 VAC 50/60 Hz; 10 Amp 277 VAC 50/60 Hz,

Tungsten: 7 Amp 125 VAC,

Motor: 1 HP 125 VAC 50/60 Hz; 2 HP 250 VAC 50/60Hz

Caution: Do not use for sunlamps, sauna, etc...

Colors – Commercial "brush metal" look.

Style – New simulated metal finish meets NEC requirements.

Engineering Specification

Spring Wound Auto Shut-Off Timer (a.k.a. Interval Timer).

Provide and install as indicated a mechanical spring wound timer that requires no electricity to operate the timing mechanism. The timer shall be supplied with a threaded shaft. The timer must be able to fit a standard 2-1/2 inch deep wall box with commercial wall plate or be capable of mounting easily in a panel board. Timer contacts shall break current at the end of timed cycle. Various timing ranges and switch contact arrangements shall be available up to 12 hours, with or without "HOLD" feature for constant ON. Timer shall be Intermatic Model FF_____ (Fill in for required time range and contact arrangement).



UL916
E76987



C22.2-177
LR3730



2.5 lbs
1.1 kg



-40°F
(-40°C)
to
155°F
(68°C)

Time Cycle	Switch	Hold	Intermatic	Grasslin
5 Min	SPST	No	FF5M	KLT5M-A
5 Min	SPST	No	FF5MH	KLT5MH-A
15 Min	SPST	No	FF15MC	KLT15M-A
15 Min	SPST	Yes	FF15MH	KLT15MH-A
30 Min	SPST	No	FF30MC	KLT30M-A
30 Min	SPST	Yes	FF30MH	KLT30MH-A
60 Min	SPST	No	FF60MC	KLT60M-A
60 Min	SPST	Yes	FF60MHC	KLT60MH-A
2 Hr	SPST	No	FF2H	KLT2H-A
4 Hr	SPST	No	FF4H	KLT4H-A
6 Hr	SPST	No	FF6H	KLT6H-A
6 Hr	SPST	Yes	FF6HH	KLT6HH-A
12 Hr	SPST	No	FF12HC	KLT12H-A
12 Hr	SPST	Yes	FF12HHC	KLT12HH-A

Time Cycle	Switch	Hold	Intermatic	Grasslin
15 Min	SPDT	No	FF315M	KLT15MH-A
30 Min	SPDT	No	FF330M	KLT30MH-A
60 Min	SPDT	No	FF360M	KLT60MH-A
2 Hr	SPDT	No	FF32H	KLT2H-A
2 Hr	SPDT	Yes	FF32HH	---
4 Hr	SPDT	No	FF34H	KLT4H-A
4 Hr	SPDT	Yes	FF34HH	---
6 Hr	SPDT	No	FF36H	KLT6H-A
12 Hr	SPDT	No	FF312H	KLT12H-A
12 Hr	SPDT	Yes	FF312HH	KLT12HH-A
15 Min	DPST	No	FF415M	---
30 Min	DPST	No	FF430M	---
60 Min	DPST	No	FF460M	---
6 Hr	DPST	No	FF46H	---
12 Hr	DPST	No	FF412H	---



Electronic Auto-Off Timers

EI200 Series Decorator Electronic Auto-Off Timer

The EI200 series timers provide silent operation in time ranges from 30 minutes up to 12 hours. Four basic models available in three colors reduce the need to stock as many timers, freeing up shelf space and providing more specification flexibility. Replaces single-pole switches in a variety of applications.

Specifications

Switch – Single-pole

Switch Rating –

Resistive (heater): 15 Amp, 120 VAC 1800 Watts;

Tungsten (incandescent): 8.3 Amp, 120 VAC 1000 Watts;

Ballast (Fluorescent): 8 Amp, 120 VAC;

Motor: 1/4 H.P., 120 VAC;

Caution: Do not use for sunlamps, sauna, etc...

Colors – Available in White, Ivory, and Light Almond

Style – Decorator Styling.

Special Voltages and Cycles – 50 or 60 Hz.

Engineering Specification

Electronic Auto Shut-Off Timer (a.k.a. Interval Timer).

Provide and install as indicated an electronic timing mechanism. The timer shall be supplied with an LED display and single-button operation. The timer must be able to fit a standard wall box and accept a rectangular decorator wall plate. Timer contacts shall break current at the end of timed cycle. Timer shall be capable of single-pole operation. Various user selectable timing ranges shall be available up to 12 hours, with or without "HOLD" feature for constant ON. Timer shall be Intermatic Model _____ (For 5/10/15/30 Minute EI200 - Ivory, EI200W - White, EI200LA - Light Almond; For 10/20/30/60 Minute EI210 - Ivory, EI210W - White, EI210LA - Light Almond; For 1/2/4/8 Hour EI220 - Ivory, EI220W - White, EI220LA - Light Almond; For 2/4/8/12 Hour EI230 - Ivory, EI230W - White, EI230LA - Light Almond).



Applications:

- Indoor Lighting
- Outdoor Lighting
- Lighting Overrides
- Exhaust Fans
- Whole House Fans
- Ventilating Fans
- Tennis Court Lighting
- Pumps
- Air Conditioners
- Steam Rooms
- Bathroom Fans
- Whirlpools
- Porch Lights
- Broom Closets
- Carriage Lights
- Television Sets
- Self Storage Units
- Engine Block Heaters
- Process Controls



UL916
E76987



-32°F
(0°C)
to
158°F
(70°C)



2.5 lbs
1.1 kg

Model#	Time Range	Switch	Clock Voltage	Max Wattage	Color	HOLD
EI200	5/10/15/30 Minute	Single-Pole	120 VAC	1,800	Ivory	Yes
EI200W	5/10/15/30 Minute	Single-Pole	120 VAC	1,800	White	Yes
EI200LA	5/10/15/30 Minute	Single-Pole	120 VAC	1,800	Light Almond	Yes
EI205*	5/15/30/45/60 Minute	Single-Pole	120 VAC	1,800	Ivory	No
EI205W*	5/15/30/45/60 Minute	Single-Pole	120 VAC	1,800	White	No
EI205LA*	5/15/30/45/60 Minute	Single-Pole	120 VAC	1,800	Light Almond	No
EI210	10/20/30/60 Minute	Single-Pole	120 VAC	1,800	Ivory	Yes
EI210W	10/20/30/60 Minute	Single-Pole	120 VAC	1,800	White	Yes
EI210LA	10/20/30/60 Minute	Single-Pole	120 VAC	1,800	Light Almond	Yes
EI215**	15/30/60 Minute, 2/4 Hour	Single-Pole	120 VAC	1,800	Ivory	No
EI215W**	15/30/60 Minute, 2/4 Hour	Single-Pole	120 VAC	1,800	White	No
EI215LA**	15/30/60 Minute, 2/4 Hour	Single-Pole	120 VAC	1,800	Light Almond	No
EI220	1/2/4/8 Hour	Single-Pole	120 VAC	1,800	Ivory	Yes
EI220W	1/2/4/8 Hour	Single-Pole	120 VAC	1,800	White	Yes
EI220LA	1/2/4/8 Hour	Single-Pole	120 VAC	1,800	Light Almond	Yes
EI230	2/4/8/12 Hour	Single-Pole	120 VAC	1,800	Ivory	Yes
EI230W	2/4/8/12 Hour	Single-Pole	120 VAC	1,800	White	Yes
EI230LA	2/4/8/12 Hour	Single-Pole	120 VAC	1,800	Light Almond	Yes
EI235*	15/30/45/60/120 Minute	Single-Pole	120 VAC	1,800	Ivory	No
EI235W*	15/30/45/60/120 Minute	Single-Pole	120 VAC	1,800	White	No
EI235LA*	15/30/45/60/120 Minute	Single-Pole	120 VAC	1,800	Light Almond	No

* Meets or exceeds CEC Title 24, ASHRAE 90.1 and IECC requirements for enclosed spaces.

** Meets or exceeds ASHRAE 90.1 Requirements for enclosed spaces.



EI400 Series Decorator Electronic Auto-Off Timer

The EI400 series effectively replaces 16 different spring-wound models, freeing up additional shelf space, providing more specification flexibility, ease of installation and absolutely silent operation. A factory supplied CR2 lithium battery provides up to three years of time keeping without AC power and user program selection is stored in non-volatile memory. A low battery indicator appears in the display when the battery requires replacement. A field selectable warning feature provides an audible and/or visual signal that the load is about to switch off. Functions to control all voltages and frequencies (within the contact ratings) with no adjustments required. Provides "true" 3-way control allowing the load interval to be started and stopped using a standard mechanical switch.

Specifications

Switch – Single-pole or 3-way (Multi-way) Compatible

Switch Rating –

Resistive (heater): 20 Amp, 120-277 VAC;

Tungsten (incandescent): 15 Amp, 120 VAC; 6 Amp, 208-277 VAC;

Ballast (Fluorescent): 16 Amp, 120-277 VAC;

Motor: 1 H.P., 120 VAC; 2 HP, 240 VAC; 4 Amp,

Caution: Do not use for sunlamps, sauna, etc...

Colors – Available in White, Ivory, and Light Almond

Style – Decorator Styling.

Special Voltages and Cycles – 50 or 60 Hz.

Engineering Specification

Electronic Auto Shut-Off Timer (a.k.a. Interval Timer).

Provide and install as indicated an electronic timer that requires no neutral to operate the timing mechanism. The timer shall be supplied with an LCD screen and user selectable end-of-interval warning visual or audible warning. The timer must be able to fit a standard wall box and accept a rectangular decorator wall plate. Timer contacts shall break current at the end of timed cycle. Timer shall be capable of single-pole or 3-way (multi-pole) operation and compatible with standard electrical wiring of said. Various user selectable timing ranges shall be available up to 12 hours, with or without "HOLD" feature for constant ON. Timer shall be Intermatic Model _____ (EI400 - Ivory, EI400W - White, EI400LA - Light Almond).

Model#	Switch	Contact Voltage	Wattage	Color
EI400C	Single-Pole / 3-Way	12 - 277 VAC; 12 - 28 VDC	1,800 - 4,155	Ivory
EI400WC	Single-Pole / 3-Way	12 - 277 VAC; 12 - 28 VDC	1,800 - 4,155	White
EI400LAC	Single-Pole / 3-Way	12 - 277 VAC; 12 - 28 VDC	1,800 - 4,155	Light Almond

EI15MH Minute Electronic Auto-Off Timer

This energy saving timer is designed to replace any standard wall switch, single or multi-gang, and automatically limits the "ON" time of lighting loads. This compact solid-state design with silent, state-of-the-art technology provides 2-way operation – immediate switch "OFF" or a time-delayed "OFF" after 15 minutes. To restart timer, simply switch to "OFF" for one second then move toggle switch back to TIMER position. A blocking plate, supplied with the timer, may be used to eliminate permanent "ON" mode for timed "ON" use only.

Specifications

Switch Rating – 40 - 500 Watt incandescent or P-type thermally protected fluorescent ballast.



Applications:

- Indoor Lighting
- Outdoor Lighting
- Lighting Overrides
- Exhaust Fans
- Whole House Fans
- Ventilating Fans
- Tennis Court Lighting
- Pool Pumps
- Fountain Pumps
- HID Lighting
- Feeding Equipment
- Watering Equipment
- Library Lights
- Classroom Lights
- Fluorescent Lighting
- PAR Lights
- Heaters
- Recreational Vehicles
- Air Conditioners
- Steam Rooms
- Bathroom Fans
- Whirlpools
- Porch Lights
- Broom Closets
- Carriage Lights
- Television Sets
- Self Storage Units



UL916
E76987



C22-2-177
LR3730
UL917



2.5 lbs
1.1 kg



-40°F
(-40°C)
to
155°F
(68°C)





Digital 7-Day Time Switch



Applications:

- Schools
- Offices
- Airports
- Stores
- Hotels
- Restaurants
- Parks
- Apartments

For Controlling:

- Hall Lights
- Ceiling Lights
- Whole House Fans
- Paddle Fans
- Porch Lights
- Outdoor Lights
- Air Conditioners
- Coffee Makers
- Boilers
- Attic Fans
- Industrial Fans
- Automated Control



UL916
E76987

32°F
(0°C)
to
158°F
(70°C)

2.5 lbs
1.1 kg

EI500 Series Decorator Digital 7-Day Time Switch

The EI500 series compact 7-day timers provides up to 7-ON and 7-OFF operations per week which can be used for 24-hour or 7-day load control of lights, fans, pumps, and other medium-duty loads for energy savings, security, and convenience. Its compact, quiet, low profile design is easy to program for to-the-minute 24-hour or 7-day control. In addition, the display continuously shows time of day, day of the week, timer load and the load status. Available in three colors white, ivory, and light almond. Replaces single-pole switches in a variety of applications.

Specifications

Switch – Single-pole

Switch Rating –

Resistive (heater): 15 Amp, 120 VAC 1800 Watts;

Tungsten (incandescent): 8.3 Amp, 120 VAC 1000 Watts;

Ballast (fluorescent): 8 Amp, 120 VAC;

Motor: 1/4 H.P., 120 VAC;

Caution: Do not use for sunlamps, sauna, etc...

Events – 7 ON & 7 OFF Events per Day.

Colors – Available in White, Ivory, and Light Almond

Style – Decorator Styling.

Special Voltages and Cycles – 50 or 60 Hz.

Engineering Specification

Electronic 7-Day Timer.

The timer switch shall be a solid state electronic control capable of permitting 7-ON and 7-OFF set points to be distributed through a 7-day time period. The time and set points shall be programmable to the nearest minute with a minimum ON duration of 1 minute and a maximum ON duration of 6 days, 23 hours, 59 minutes. The timer shall have a backlit digital LCD readout to show day-of-week and time-of-day using 12 hour AM/PM indicator. The time switch shall provide a manual override control for both temporary or permanent override.

Time switch shall operate over a temperature range of 32°F (0°C) to 158°F (70°C). An internal rechargeable battery shall protect program

information and time-of-day for a minimum of 36 hours. Switch configuration to be SPST with a UL listed rating of: 20 amp Resistive, 120 Volts AC, 50/60 Hz; 15 amps Resistive, 120 Volts AC, 50/60 Hz; 1/4 HP, 120 Volts AC, 50/60 Hz; 8.3 amps Tungsten, 120 Volts AC,

50/60 Hz; 10 amps Ballast, 120 Volts AC, 50/60 Hz The timer must be able to fit a standard wall box and accept a rectangular decorator wall plate. Timer contacts shall make or break current according to user adjustable program. Timer shall be Intermatic Model _____ (Ivory - EI500, White - EI500W, Light Almond - EI500LA)

Model#	Switch	Clock Voltage	Max Wattage	Color
EI500C	Single-Pole	120 VAC 50/60 Hz	1,800	Ivory
EI500WC	Single-Pole	120 VAC 50/60 Hz	1,800	White
EI500LAC	Single-Pole	120 VAC 50/60 Hz	1,800	Light Almond

Electronic 7-Day Astro Time Switch



EI600 Series Decorator Electronic 7-Day Astro Time Switch

This easy to program timer provides up to 40 ON/OFF operations per week which can be used for 24-hour or 7-day load control. The astronomic feature provides sunset ON and sunrise OFF settings and the auto daylight savings adjustment means you can “set-it and forget-it”. The independent 7-day programming provides complete flexibility for applications where load switching differs each day of the week. Astronomic programming can be combined with independent programs to provide a sunset ON and timed OFF program. A factory supplied CR2 lithium battery provides up to three years of time keeping without AC power and user program selections are stored in non-volatile memory. A low battery indicator appears in the display when the battery requires replacement. In addition, the display continuously shows time of day, day of the week, timer load and the load status. The timer has an isolated single pole single throw switch which allows the timer to switch any load type, including PAR lamps and motor loads from 12 to 277 volts AC or 12 to 28 volts DC, within the specified ratings. A “3 wire” design allows the timer to replace, or be used as a single-pole or 3-way (multi-way) switch.

Specifications

Switch – Single-pole or 3-way (Multi-way) Compatible

Switch Rating –

Resistive (heater): 20 Amp, 120-277 VAC

Tungsten (incandescent): 15 Amp, 120 VAC; 6 Amp, 208-277 VAC

Ballast (fluorescent): 16 Amp, 120-277 VAC

Motor: 1 H.P., 120 VAC; 2 H.P., 240 VAC; 4 Amp, DC Loads:12 VDC; 2 Amp, 28 VDC

Caution: Do not use for sunlamps, sauna, etc...

Events – 40 ON/OFF Events per week.

Colors – Available in White, Ivory, and Light Almond

Style – Decorator Styling.

Special Voltages and Cycles – 50 or 60 Hz.

Warranty – 5 Years

Engineering Specification

Electronic 7-Day astronomic Timer.

The timer switch shall be a solid state electronic control capable of permitting 40 ON/OFF set points to be distributed through a 7-day time period with 1 astro ON and 1 astro OFF set point per day. The time and set points shall be programmable to the nearest minute with a minimum ON duration of 1 minute and a maximum ON duration of 6 days, 23 hours, 59 minutes. The timer shall have a digital LCD readout to show day-of-week and time-of-day using 12 hour AM/PM indicator. The time switch shall provide a manual override control for both temporary or permanent override.

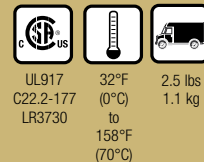
Time switch shall operate over a temperature range of 32°F (0°C) to 104°F (40°C). A lithium battery provides up to three years of time keeping without AC power and user program selections are stored in a non-volatile memory. Switch configuration to be SPST with a UL listed rating of: Resistive (heater): 20 Amp,120-277 VAC; Tungsten (incandescent):15 Amp, 120 VAC; 6 Amp, 208-277 VAC; Ballast (Fluorescent): 16 Amp, 120-277 VAC; Motor: 1 H.P., 120 VAC; 2 H.P., 240 VAC; 4 Amp, DC Loads: 12 VDC; 2 Amp, 28 VDC. The timer must be able to fit a standard wall box and accept a rectangular decorator wall plate. Timer contacts shall make or break current according to user adjustable program. Timer shall be Intermatic Model _____ (Ivory - EI600, White - EI600W, Light Almond - EI600LA)

Model#	Switch	Contact	Max Wattage	Color
EI600C	Single-Pole / 3-way	12 - 277 VAC; 12 - 28 VDC	1,800-4,155	Ivory
EI600WC	Single-Pole / 3-way	12 - 277 VAC; 12 - 28 VDC	1,800-4,155	White
EI600LAC	Single-Pole / 3-way	12 - 277 VAC; 12 - 28 VDC	1,800-4,155	Light Almond



Energy Code Tip:

Meet energy codes with a simple wall switch replacement. Manual ON assures lights are used only when needed. The sweep OFF makes sure lights are not left ON all night long with a switch that is set to turn OFF multiple times in the evening. Replace wall switch occupancy sensors to eliminate nuisance turn OFF.





24-Hour Mechanical Time Switches



Applications:

- Schools
- Offices
- Airports
- Stores
- Hotels
- Restaurants
- Parks
- Apartments

For Controlling:

- Hall Lights
- Ceiling Lights
- Whole House Fans
- Paddle Fans
- Porch Lights
- Outdoor Lights
- Air Conditioners
- Coffee Makers
- Boilers
- Attic Fans
- Industrial Fans
- Automated Control



UL917
C22.2-177
LR3730



2.5 lbs
1.1 kg

Heavy Duty In-Wall Time Switches

These heavy duty timers can be used to turn on lights, fans, pumps and other heavy duty loads for energy savings, security and convenience. The timer is designed to mount to any standard junction box for replacing a wall switch. Models are available in single ON / OFF or multiple ON / OFF type. Both models have an easy to use manual override.

Model E1010 equipped with a 24 hour dial divided in half-hour increments with a permanently attached "ON" and "OFF" tripper permitting single "ON / OFF" control every 24 hours. Model E1020 equipped with a multiple program dial. The dial accommodates 12 "ON" and 12 "OFF" trippers. Furnished with two "ON" and two "OFF" trippers. Both timers have three color code leads and require a hot, neutral and one side of the load.

Specifications

Size – 4-1/4" (10.8 cm) High, 3-1/4" (9.5 cm) Wide, 1-3/8" (3.5 cm) Deep.

Switch Rating – 120 VAC 60 Hz; 1440 Watts Tungsten; 12 Full load Amps.; 15 Amp max load.

Timing Cycle – Minimum "ON" time 1/2 hour, maximum "ON" time 22-1/2 hours; Minimum time between any two "ON" trippers (and any two "OFF" trippers) is 2 hours.

Model#	Switch	Volts	Amps	Max Wattage	Color
E1010	SPST	120	15	1800	Stonedust white housing
E1020	SPST	120	15	1800	Stonedust white housing

For additional trippers for E1020 (2 "ON" / 2 "OFF" per pack), order No. 156EB1945A.

Don't Be Caught in the Dark





Power Failure Lighting

NEW



Power Save Mode



Nightlight Mode



Power Failure Mode

Decorator Power Failure Lighting

These power failure lights fit into standard electrical wall boxes and are powered by line voltage. During normal power conditions power failure lights will charge their internal high-capacity Nickel-Metal-Hydride (NiMH) battery. A full charge can take up to 6 days to achieve from a completely discharged state.

When line power fails, power failure light will automatically switch into power failure mode where the three high-intensity white LEDs are driven to full brightness to provide ample lighting for moving around in dark areas. The power failure lights also feature a nightlight mode that can be turned on and off to provide low-level lighting when desired.

Full lens models fit in standard decorator plate and clear lens design blends with any trim plate color. Depressible lens acts as mode select switch as well as battery test switch. While in power failure mode unit can be placed in power save mode to conserve battery power for when it is needed most. Battery life of a fully charged unit is 4 hours minimum from onset of power failure event.

The EL500 also features an emergency input that can be connected to smoke detectors, fire alarm systems or security systems. When a signal is received the EL500 will go into a 1Hz flash mode to alert occupants of the event.

Model EL100 & EL500

Specifications

Voltage – 120 Volts, 50/60 Hz. (Optional 277 VAC Operation)

Power Consumption – 17.0 Watts Max

Features – EL100 & EL500: Power Failure Mode, Night Light Mode, Power Save Mode, Battery Test Mode; EL500: Flash Mode

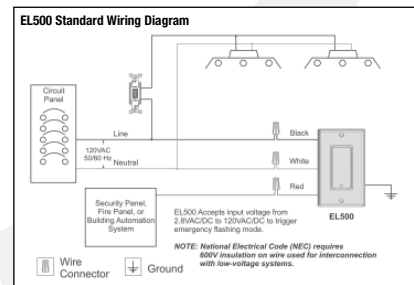
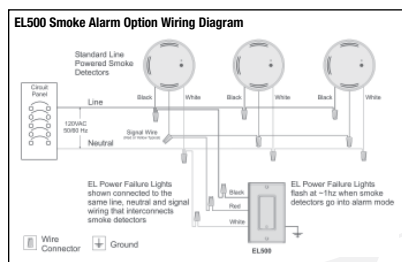
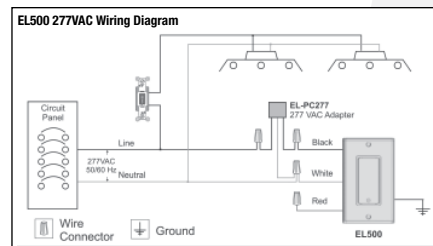
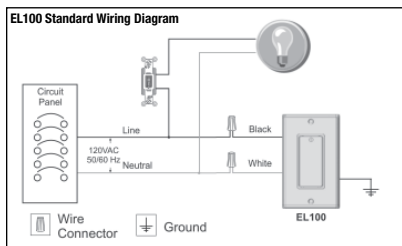
Light Source – 3 High-Intensity White LEDs

Battery – Rechargeable AA2200mAh NiMH Battery

Battery Life – 4-Hours Minimum

Temperature Operating Range – 32°F to 104°F / 0°C to 40°C

Environmental - 10% to 95% non-condensing relative humidity





Integrated Decorator Power Failure Lighting

These power failure lights fit into standard electrical wall boxes and are powered by line voltage. During normal power conditions power failure lights will charge their internal high-capacity Nickel-Metal-Hydride (NiMH) battery. A full charge can take up to 6 days to achieve from a completely discharged state.

When line power fails, power failure light will automatically switch into power failure mode where the three high-intensity white LEDs are driven to full brightness to provide ample lighting for moving around in dark areas. The power failure lights also feature a nightlight mode that can be turned on and off to provide low-level lighting when desired.

Integrated models fit in standard decorator plate without sacrificing existing necessary electrical devices. Depressible lens acts as mode select switch as well as battery test switch. While in power failure mode unit can be placed in power save mode to conserve battery power for when it is needed most. Battery life of a fully charged unit is 90 minutes minimum from onset of power failure event.

Model EL200 & EL300

Specifications

Voltage – 120 Volts, 50/60 Hz.

Power Consumption – 17.0 Watts Max

Features – Power Failure Mode, Night Light Mode, Power Save Mode, Battery Test Mode

Integrated Electrical Device:

- **Model EL200:** 15 Amp 125 VAC General Purpose Receptacle
- **Model EL300:** 15 Amp General Purpose Single-Pole Switch

Light Source – 3 High-Intensity White LEDs

Battery – Rechargeable 2/3A 900 mAh NiMH Battery

Battery Life – 4-Hours Minimum

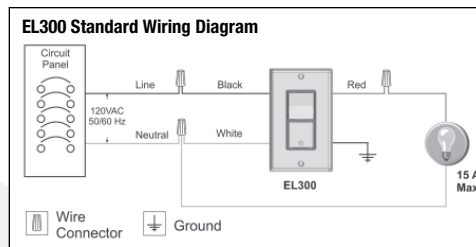
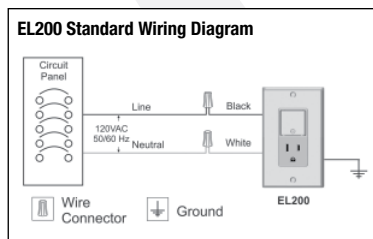
Temperature Operating Range – 32°F to 104°F / 0°C to 40°C

Environmental - 10% to 95% non-condensing relative humidity

Colors - Ivory, Light Almond, and White



Model#	Device	Voltage	Amp Rating	Style	Color
EL200	Receptacle	120 VAC	15 Amp	Decorator	Ivory
EL200LA	Receptacle	120 VAC	15 Amp	Decorator	Light Almond
EL200W	Receptacle	120 VAC	15 Amp	Decorator	White
EL300	Switch	120 VAC	15 Amp	Decorator	Ivory
EL300LA	Switch	120 VAC	15 Amp	Decorator	Light Almond
EL300W	Switch	120 VAC	15 Amp	Decorator	White



EL200W



EL300W



Power Failure Egress Lighting

Power Failure Egress Lighting

The EL500E power failure egress light fits into standard electrical wall boxes and is powered by line voltage. During normal power conditions unit will charge its internal high-capacity Nickel-Metal-Hydride (NiMH) battery. A full charge can take up to 6 days to achieve from a completely discharged state.

When line power fails, egress light will automatically switch into power failure mode where the three high-intensity red LEDs are driven to full brightness to provide low-level path of egress marking, guiding occupants to safety. These egress lights also feature a pilot mode that can be turned on and off to provide always-on path marking.

Depressible chevron lens acts as mode select switch as well as battery test switch. While in power failure mode unit can be placed in power save mode to conserve battery power for when it is needed most. Battery life of a fully charged unit is 4 hours minimum from onset of power failure event.

The EL500E also features an emergency input that can be connected to smoke detectors, fire alarm systems or security systems. When a signal is received the EL500E will go into a 1Hz flash mode to lead occupants to safety.

Specifications

Voltage – 120 Volts, 50/60 Hz. (Optional 277 VAC Operation)

Power Consumption – 17.0 Watts Max

Features – Power Failure Mode, Pilot Light Mode, Power Save Mode, Battery Test Mode, Flash Mode

Integrated Electrical Device:

- **Model EL200:** 15 Amp 125 VAC General Purpose Receptacle
- **Model EL300:** 15 Amp General Purpose Single-Pole Switch

Light Source – 3 High-Intensity Red LEDs

Battery – Rechargeable AA 2200 mAh NiMH Battery

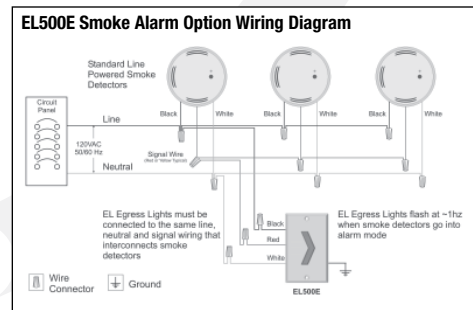
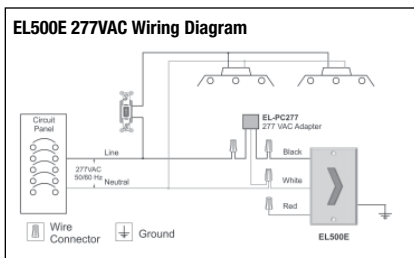
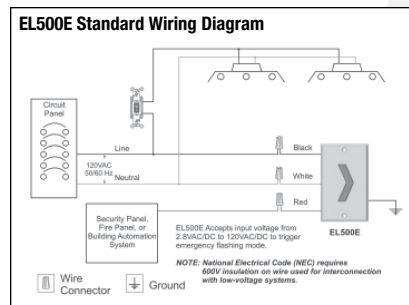
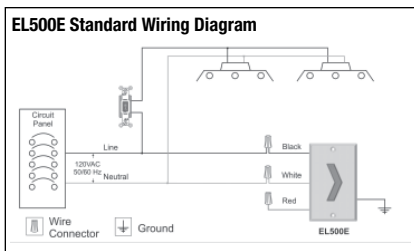
Battery Life – 4-Hours Minimum

Temperature Operating Range – 32°F to 104°F / 0°C to 40°C

Environmental - 10% to 95% non-condensing relative humidity



EL500E





Finally... A Wireless System Within Reach

Connect with an affordable, reliable and easy to install system of wireless home controls.

Intermatic® makes affordable and reliable home control a reality with the InTouch™ series of wireless controls. Until now, home controls had only two options — reliable controls that were too expensive or low-cost controls that were unreliable. That's all changed with Intermatic's InTouch wireless controls, which bring reliable controls together with low cost to deliver a home solution everyone can enjoy.



www.intouchcontrols.com

Contractor Benefits:

- ✓ Affordable – Less than the Cost of Other Systems
- ✓ Reliable – No Late Night Call Backs
- ✓ Easy to Install – No Special Wiring
- ✓ Easy to Program – Finish in Minutes Instead of Days

Home Owner Benefits:

- ✓ Comfort – Simple Push Button Control
- ✓ Easy to Use – Simple Scene Creation & Editing
- ✓ Convenience – Scheduled Events Adds Simplicity to Every Home
- ✓ Peace of Mind – Never Enter a Dark Home Again
- ✓ Energy Savings – With Proper Programming System Can Pay for Itself



InTouch Residential and Small Business Applications



CA3000
Lighting Control



CA5000
Multi-Scene Controller



CA9000
Motion Controller



CA3500
Appliance Control



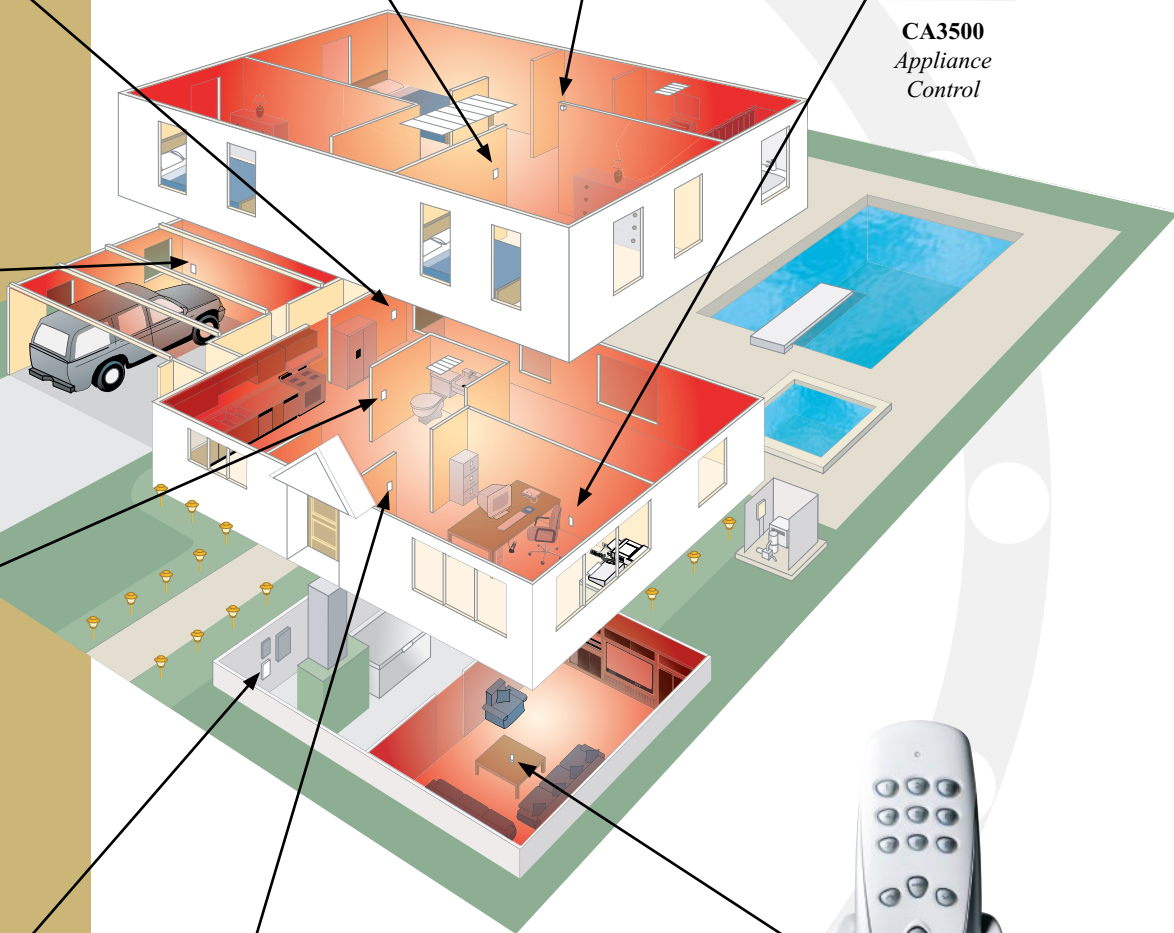
CA600
Dimming Control



CA5100
Single Scene Controller



CA3750
Heavy Load Control



CA7100
Timing Controller and Graphical Interface



CA5500BR
Hand Held Remote and Server Base

InTouch Residential and Small Business Applications



Hand-Held Remote & Server Base

InTouch™ systems require the CA5500BR to take advantage of all the system features.

The CA5500BR Hand-Held Remote Controller and Server Base make up the heart of the InTouch™ network. The InTouch™ system has taken Z-wave® technology to an even higher level of functionality with the introduction of its patent pending InTouch™ server technology. The InTouch™ server provides full two-way, real-time status of every device in the network including legacy Z-wave® devices. The InTouch™ server also makes a host of never before seen features available to the installer and homeowner including:

- Greater network range – doubling the number of “hops” a signal can take to get to its target from the Z-wave® standard of 4 to 8
- In-field firmware upgrade capability – future-proofing an InTouch™ network from protocol changes
- Centralized scene and status information – ability to remotely edit scenes from anywhere in the network
- Full Z-wave® compatibility – adding an InTouch™ server to any manufacturer’s Z-wave® product instantly upgrades their capabilities to share many of the InTouch™ features

To build an InTouch™ network, start with the CA5500BR. Create a custom network with nine scenes that are unique to your home. To do this, add up to 230 additional devices such as the CA600 dimmer or CA3500 controlled receptacle. Add additional scenes and create convenient locations to launch them with an in-wall controller such as the CA5000. Use specialty controllers to add additional features. The CA9000 occupancy sensor launches a scene by walking into a room. The CA7100 launches scenes based on time-of-day and serves as a graphical interface to create and maintain all scenes in the network.

Remote Specifications:

User Interface: Nine Scene Selection Buttons with LED Scene Status Indicators, Network Setup Indicator, and Four Action Buttons (Enter, Raise, Lower & Home)

Lost Remote Locator: Audible & Visual Indication when Activated

Network Setup: Include & Exclude Buttons

Battery: Rechargeable Nickel Metal Hydride (NiMH)

Color: White & Gray

Charger Specifications:

Supply Power: 120 Volts 50/60 Hz Wall Pack Transformer 9VDC Output

Network: Scene & Status Server and Network Memory Backup

Charging: Smart Charging with LED Indication of Progress

Color: White

Network Specifications:

Minimum Range: Indoor 50ft

Frequency: 908.42 MHz

Mesh Network: Each line powered node acts as a repeater to route distant signals.

Size: 232 Z-Wave® Nodes

Model#	Description
CA5500BR	Hand Held Remote w/Charger Base & Power Supply
CA5500R	Hand Held Remote Charger Base
CA5500B	Hand Held Remote Control



CA5500BR





InTouch Residential and Small Business Applications



Model CA7100



InTouch™ System Timing Control

The CA7100 InTouch™ System Timing Control allows the home owner to get the maximum value out of their InTouch™ system. By creating a central point of control for load scheduling throughout the home the user is freed of the hassle of setting schedules on multiple timers around the home and increases the energy management benefits to be gained.

The capabilities of the Timing Control are not limited to those applications that are preloaded but can be field upgraded to take advantage of future ones as well, planned enhancements include: HVAC Energy Management, Pool & Spa Control as well as Irrigation control.

- Provides astro or time of day control of events and scenes
- Allows for real-world naming of rooms and scenes
- Easy scene or event creation and editing
- Features "Random" function for a realistic "lived in" look
- Allows for creation of events based on time, action or a combination of time and action

Physical Specifications:

Supply: 120 Volts 50/60 Hz

Operating Temperature Range: 32°F (0°C) to 104°F (40°C)

Power Consumption: 4.0W Max

Display: Backlit 128 x 64 Dot LCD Display

Real-Time Clock: Super-Cap Backed Clock Chip Keeps Time & Date Information Current for up to 3 Days.

Colors: White Face Plate with Gray Trim

Mounting: Mounts to Standard 3-Gang Electrical Box

Programming:

Events: Based on Time, Action or Combination of Time & Action

Scheduling: Time of Day, Date, & Astronomic Schedules

User Interface: Six LED Scene Status Indicators, Menu Driven GUI, Six Button Navigation Pad, and Audio Feedback

Network Specifications:

Minimum Range: Indoor 50ft

Frequency: 908.42 MHz

Mesh Network: Each line powered node acts as a repeater to route distant signals.

Size: 232 Z-Wave® Nodes

NOTE: REQUIRES CA5500BR TO FUNCTION

InTouch Residential and Small Business Applications



InTouch™ Dimmers

Intermatic InTouch™ Dimmers allow for full range control of incandescent loads from any Z-wave® compatible controller. Additional features are obtained by using InTouch™ Dimmers within an InTouch™ network.

- Multiple location dimming when used with wireless accessory controls.
- Multiple location On/Off control using conventional 3-way or 4-way wiring and devices.
- Lights fade up or down when turned on or off.
- Automatically returns to last level in the event of power fluctuations.
- Light levels can be set by pressing and holding the rocker until the desired light level is reached.
- Full 230 device scene control when used with Intermatic InTouch™ scene and status server (CA5500BR).
- Dimmer always operates local load, does not require central control system.

Physical Specifications:

Switch: Single-Pole (One Location) or 3-Way (Multi-Location) or Wireless RF Control

Supply: 120 Volts 50/60 Hz

Operating Temperature Range: 32°F (0°C) to 104°F (40°C)

Power Consumption: 2.0W Max

Maximum wattage: 600W

Minimum wattage: 40W

Colors: Ships with Ivory, Light Almond, & White Rocker Plates

Mounting: Mounts to Standard Single or Multi-Gang Electrical Boxes

Programming:

InTouch™ Scenes: Can Create Scenes with up to 230 Z-wave® Devices When Used With Scene & Status Server

Routing Slave: Can Control up to Five Associated Z-wave® Devices in non-InTouch™ network

Dimming: 1% Increments; 100 Steps

Network Specifications:

Minimum Range: Indoor 50ft

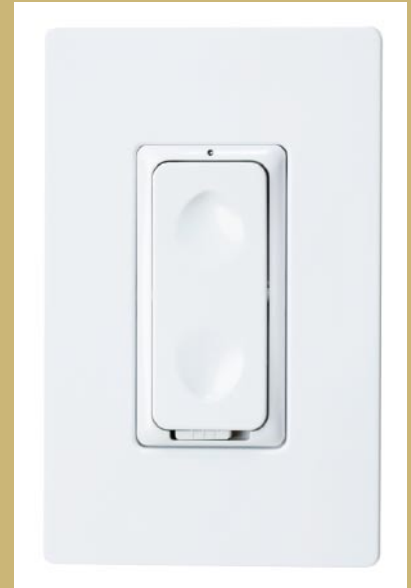
Frequency: 908.42 MHz

Mesh Network: Each line powered node acts as a repeater to route distant signals.

Size: 232 Z-Wave® Nodes

Model#	Dimmer Type	Watt Min	Watt Max
CA600	Incandescent Contemporary Style Dimmer	40 W	600 W
CA600D	Incandescent Decorator Style Dimmer	40 W	600 W

Model#	Dimmer Type	Color	Qty Pack
CADDTRM-I	Decorator Replacement Trim Plate for CA600 Series	Ivory	3pk
CADDTRM-LA	Decorator Replacement Trim Plate for CA600 Series	Light Almond	3pk
CADDTRM-W	Decorator Replacement Trim Plate for CA600 Series	White	3pk
CADDTRM-G	Decorator Replacement Trim Plate for CA600 Series	Gray	3pk
CADDTRM-E	Decorator Replacement Trim Plate for CA600 Series	Black	3pk



CA600



CA600D



InTouch Residential and Small Business Applications



CA3000



CA3000D

InTouch™ General Purpose Switches

Intermatic InTouch™ Switches allow for On/Off control of connected general purpose loads from any Z-wave® compatible controller. Additional features are obtained by using InTouch™ Switches within an InTouch™ network.

- Multiple location On/Off when used with wireless accessory controls.
- Multiple location On/Off control using conventional 3-way or 4-way wiring and devices.
- Automatically returns to last state in the event of power fluctuations.
- Full 230 device scene control when used with Intermatic InTouch™ scene and status server (CA5500BR).
- Switch always operates local load, does not require central control system.

Physical Specifications:

Switch: Single-Pole (One Location) or 3-Way (Multi-Location) or Wireless RF Control

Supply: 120 Volts 50/60 Hz

Operating Temperature Range: 32°F (0°C) to 104°F (40°C)

Power Consumption: 2.0W Max

Ratings: 120VAC, 50/60 Hz 1800 Watts 15A Tungsten; 1800 Watts 15A Resistive/Inductive; 1800VA 15A Ballast; 1/2HP Motor

Colors: Ships with Ivory, Light Almond, & White Rocker Plates

Mounting: Mounts to Standard Single or Multi-Gang Electrical Boxes

Programming:

InTouch™ Scenes: Can Create Scenes with up to 230 Z-wave® Devices

When Used With Scene & Status Server

Routing Slave: Can Control up to Five Associated Z-wave® Devices in non-InTouch™ network

Network Specifications:

Minimum Range: Indoor 50ft

Frequency: 908.42 MHz

Mesh Network: Each line powered node acts as a repeater to route distant signals.

Size: 232 Z-Wave® Nodes

Model#	Description	Voltage	Tungsten Rating	Resistive Rating	Ballast Rating	Motor Rating
CA3000	15 Amp Contemporary Style Switch	120 VAC	1800 W	1800 W	1800 VA	1/2 HP
CA3000D	15 Amp Decorator Style Switch	120 VAC	1800 W	1800 W	1800 VA	1/2 HP

Model#	Description	Color	Qty Pack
CADSTRM-I	Decorator Replacement Trim Plate for CA3000 & CA5100 Series		Ivory
3pk			
CADSTRM-LA	Decorator Replacement Trim Plate for CA3000 & CA5100 Series		Light Almond
3pk			
CADSTRM-W	Decorator Replacement Trim Plate for CA3000 & CA5100 Series		White
3pk			
CADSTRM-G	Decorator Replacement Trim Plate for CA3000 & CA5100 Series		Gray
3pk			
CADSTRM-E	Decorator Replacement Trim Plate for CA3000 & CA5100 Series		Black
3pk			



InTouch Residential and Small Business Applications



InTouch™ General Purpose Receptacle

Intermatic CA3500 InTouch™ Receptacle allows for On/Off control of connected general purpose loads from any Z-wave® compatible controller. Control applications include kitchen & bath appliances and table lamps.

- Multiple location On/Off control of receptacle when used with wireless accessory controls.
- "Local Control" feature senses user need for current and will automatically activate receptacle.
- Up-front activator switch always operates local load, does not require central control system.

Physical Specifications:

Supply: 125 Volts 50/60 Hz

Operating Temperature Range: -40°F (-40°C) to 104°F (40°C)

Power Consumption: 2.0W Max

Rating: 15 Amp General Purpose

Colors: Ships with Ivory, Light Almond, & White Bezel Plates

Mounting: Mounts to Standard Single or Multi-Gang Electrical Boxes

Network Specifications:

Minimum Range: Indoor 50ft

Frequency: 908.42 MHz

Mesh Network: Each line powered node acts as a repeater to route distant signals.

Size: 232 Z-Wave® Nodes



CA3500





InTouch Residential and Small Business Applications



CA3750

InTouch™ Heavy Duty Contactor

Intermatic CA3750 InTouch™ Contactor allows for On/Off control of heavy current connected loads from any Z-wave® compatible controller. Control applications include; outdoor lighting, pool, spa, & irrigation pumps, water & baseboard heaters, and other high current loads.

- Multiple location On/Off control of contactor when used with wireless controls.
- Multi-Volt supply 120, 208, 240, or 277 VAC
- Factory set for simultaneous DPST contact operation.
- Configurable for 2 independently controllable SPST contacts when used with Intermatic InTouch™ scene and status server (CA5500BR) and a InTouch™ Timing Controller (CA7100).
- Up-front activator switch always operates load, does not require central control system.

Physical Specifications:

Supply: 120, 208, 240, or 277 Volts 50/60 Hz

Operating Temperature Range: -20°F (-29°C) to 155°F (68°C)

Power Consumption: 6.0W Max

Rating: 6600 Watts 30 A Resistive;

5500VA 25 A Inductive;

5540 Watts 20 A@ 277VAC Ballast;

4400 Watts 20 A Tungsten;

1 HP @ 120VAC Motor;

3 HP @ 240VAC Motor

Enclosure: Grey NEMA 3R High Impact Polycarbonate Case

Network Specifications:

Minimum Range: Indoor 50ft

Frequency: 908.42 MHz

Mesh Network: Each line powered node acts as a repeater to route distant signals.

Size: 232 Z-Wave® Nodes



InTouch Residential and Small Business Applications



InTouch™ System Scene / Group Controller

The CA5000 Scene / Group Control allows the system designer to give the end user multiple control capabilities from a single wall box location. The CA5000 control operates on line voltage and can be ganged with switches and dimmers to eliminate wall clutter and special control station wiring. Additionally the enhance features of the InTouch™ network allows CA5000 to perform scene and group or partition control functions instead of requiring separate controls.

- Multiple location On/Off & Raise/Lower control when used with Z-wave® enabled devices.
- Allows control of up to 6 individual pre-set scenes or groups containing any number of Z-wave® enabled devices.
- Features individual scene status feedback for enhanced control.
- Separate focus and control buttons allow the user to custom mix scene or group selections and vary light levels.
- Home key provides for quick de-selection of scenes.

Specifications:

Supply: 120 Volts 50/60 Hz

Operating Temperature Range: 32°F (0°C) to 104°F (40°C)

Power Consumption: 2.0W Max

User Interface: Six Scene / Group Selection Buttons with LED Scene Status Indicators, Network Setup Indicator, and Four Action Buttons (Enter, Raise, Lower & Home)

Network Setup: Include & Exclude Functions

Colors: Ships with Ivory, Light Almond, & White Bezel Plates

Mounting: Mounts to Standard Single or Multi-Gang Electrical Boxes

Network Specifications:

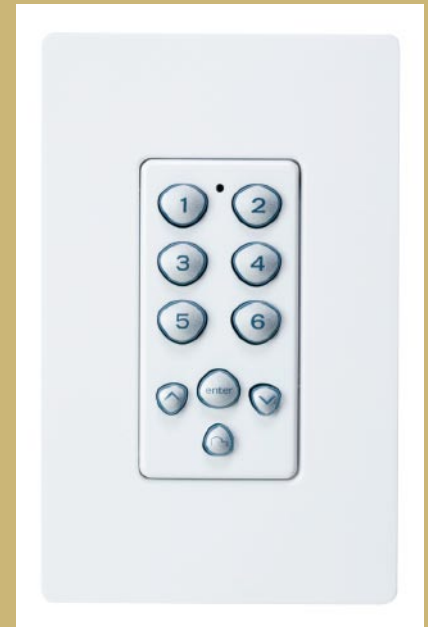
Minimum Range: Indoor 50ft

Frequency: 908.42 MHz

Mesh Network: Each line powered node acts as a repeater to route distant signals.

Size: 232 Z-Wave® Nodes

NOTE: REQUIRES CA5500BR TO FUNCTION



CA5000





InTouch Residential and Small Business Applications



CA5100D

InTouch™ Accessory Controllers

The Accessory Controllers provide remote control of any Z-wave® enabled device. These controls operate on line voltage and can be ganged with switches and dimmers to eliminate wall clutter and special control station wiring. Additionally the enhance features of the InTouch™ network allow these controls to perform advanced scene control functions instead of requiring separate controls.

- Multiple location On/Off & Raise/Lower control when used with Z-wave® enabled switches and dimmers.
- Full 229 device scene control when used with Intermatic InTouch™ server (CA5500BR).

Specifications:

Supply: 120 Volts 50/60 Hz

Operating Temperature Range: 32°F (0°C) to 104°F (40°C)

Power Consumption: 2.0W Max

Colors: Ships with Ivory, Light Almond, & White Rocker Plates

Mounting: Mounts to Standard Single or Multi-Gang Electrical Boxes

Programming:

InTouch™ Scenes: Can Create Scenes with up to 229 Z-wave® Devices When Used With Scene & Status Server

Routing Slave: Can Control up to Five Associated Z-wave® Devices in non-InTouch™ network

Network Specifications:

Minimum Range: Indoor 50ft

Frequency: 908.42 MHz

Mesh Network: Each line powered node acts as a repeater to route distant signals.

Size: 232 Z-Wave® Nodes

Model#	Description	Voltage
CA5100	Contemporary Style Accessory Controller	120 VAC
CA5100D	Decorator Style Accessory Controller	120 VAC

Model#	Description	Color	Qty Pack
CADSTRM-I	Decorator Replacement Trim Plate for CA3000 & CA5100 Series		Ivory
3pk			
CADSTRM-LA	Decorator Replacement Trim Plate for CA3000 & CA5100 Series		Light Almond
3pk			
CADSTRM-W	Decorator Replacement Trim Plate for CA3000 & CA5100 Series		White
3pk			
CADSTRM-G	Decorator Replacement Trim Plate for CA3000 & CA5100 Series		Gray
3pk			
CADSTRM-E	Decorator Replacement Trim Plate for CA3000 & CA5100 Series		Black
3pk			



InTouch Residential and Small Business Applications



InTouch™ Wireless Gateway

The CA8200 InTouch™ Wireless Gateway gives the user greater control of their InTouch™ system by allowing them to activate and deactivate scenes from the comfort of their vehicle using either in-headliner mounted garage door opener buttons or the optional keychain remote. This feature gives the user greater peace of mind knowing they never have to enter a dark garage or home.

- 3 Preset Scenes of Control
- Compatible with popular in-headliner mounted garage door openers
- Stand alone operation; will control loads directly without the need for a CA5500BR InTouch™ Scene & Status Server

Specifications:

Supply: 120 Volt 50/60 Hz

Battery: 9 Volt Alkaline (For Mobile Requirements)

Color: White

Network Specifications:

Minimum Range: Indoor 50ft

Frequency: 908.42 MHz

Mesh Network: Each line powered node acts as a repeater to route distant signals.

Size: 232 Z-Wave® Nodes

InTouch™ 3-Button Keychain Controller

The CA5300 3-button Keychain Controller is for use with the CA8200 only and cannot directly control any of the InTouch™ devices. This accessory switch option allows users who do not have in-headliner or compatible garage door opener controls to use the CA8200 Wireless Gateway.

Specifications:

Battery: 3 Volt Lithium CR2016

Color: White

Frequency: 372.0 MHz

InTouch™ Wireless Conversion Module

The CA8250 conversion module allows the CA5300 keychain or in-headliner control to operate with any garage door opener. It is a convenience accessory and is not required for a lighting control only application.

Specifications:

Supply: 120 Volt

Color: White



CA5300



CA8250





InTouch Residential and Small Business Applications



CA8750

InTouch™ USB Controller

The InTouch™ CA8700 USB Controller allows installers and users to access their InTouch™ network using a PC. The USB stick when paired with a variety of applications software can give whole home control, remote access through the Internet and allows for in-field upgrade of InTouch™ controllers.

- Blue status LED
- Optional desktop stand for improved RF range

USB Controller Specifications:

- Supply:** 5 Volts
- Version:** USB HID (Human Interface Device)
- Operating Temperature Range:** 32°F (0°C) to 104°F (40°C)
- Status Indicator:** Blue LED
- Color:** White & Silver
- Mounting:** Standard USB Connector

Desktop Stand Specifications:

- Operating Temperature Range:** 32°F (0°C) to 104°F (40°C)
- Connector:** Standard USB Socket
- Cable:** 6 foot USB extension cable
- Color:** White

Network Specifications:

- Minimum Range:** Indoor 50ft
- Frequency:** 908.42 MHz
- Mesh Network:** Each line powered node acts as a repeater to route distant signals.
- Size:** 232 Z-Wave® Nodes

Model#	Description
CA8700	InTouch USB Stick
CA8750	InTouch USB Stick w/Desktop Stand
CA8750SW	InTouch USB Stick, Stand Home Control Software (PC), and Firmware Update Software



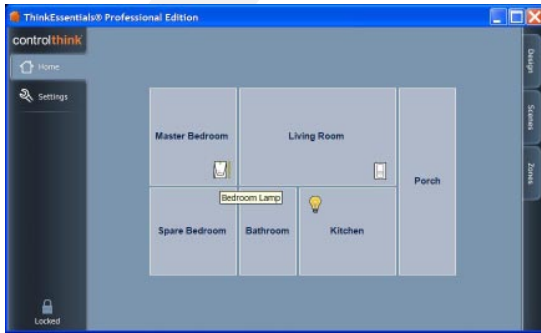
InTouch Residential and Small Business Applications



Home Control Software

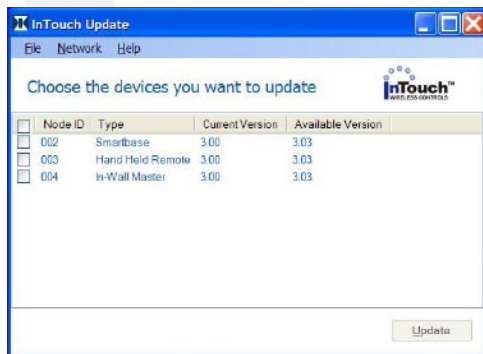
Use the ThinkEssentials® Pro software to supplement your CA5500BR network or use it as a primary controller by itself. Includes the following features:

- Set up and control up to 230 Z-Wave devices
- Draw a basic floor plan of your home with ease and see the state of all your devices
- Activate mood lighting (scenes) in your home or turn on/off zones of devices
- Schedules – activate scenes or turn on/off zones at specific times of day, including sunrise/sunset
- Schedules can be set for every day, individual days of the week, or multiple days of the week
- Turn all devices on or off with the push of one button
- Optimize and repair your network of Z-Wave devices



Firmware Update Utility

Your InTouch™ network is never obsolete with the Firmware Update Utility. Firmware is the operating software located on each of the InTouch controllers. Install the software and a CA8700 or CA8750 on a computer in your home. Download the latest firmware version from the web at InTouchControls.com. Now push the latest features and improvements to your system.





InTouch Residential and Small Business Applications



CA9000



InTouch™ Wireless PIR Occupancy Sensor

The InTouch™ CA9000 Occupancy Sensor provides passive infrared motion sensing to the InTouch™ system. Environmental controls such as lights, heating / cooling and even window shades can be activated by the home owner's entry to a room giving them an even higher level of automation.

- Multiple location On/Off control when used with Z-wave® enabled devices.
- Full 229 device scene control when used with Intermatic InTouch™ server (CA5500B).
- Pre-set scene control when used with up to 5 Z-wave® enabled devices in non-InTouch™ networks.
- Wide detection pattern can be used for whole room coverage.

Specifications:

Battery: 3 x "AA" Alkaline Batteries

Optional Supply: 9VDC Wallpack Transformer (CATRFM)

Operating Temperature Range: 32°F (0°C) to 104°F (40°C)

Battery Life: 6 Months Under Normal Usage

Color: White

Mounting: Adjustable swivel neck rotates 30° vertically and 30° horizontally, Flat on wall, or Corner mount

Timing: Pulse, 5 minute, 10 minute, 15 minute, and Manual Off time ranges

Sensing: Twin pyro sensor elements provide for high accuracy and reliability

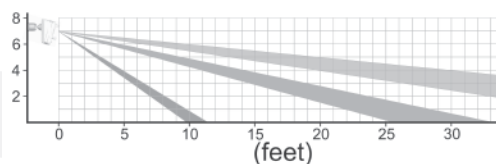
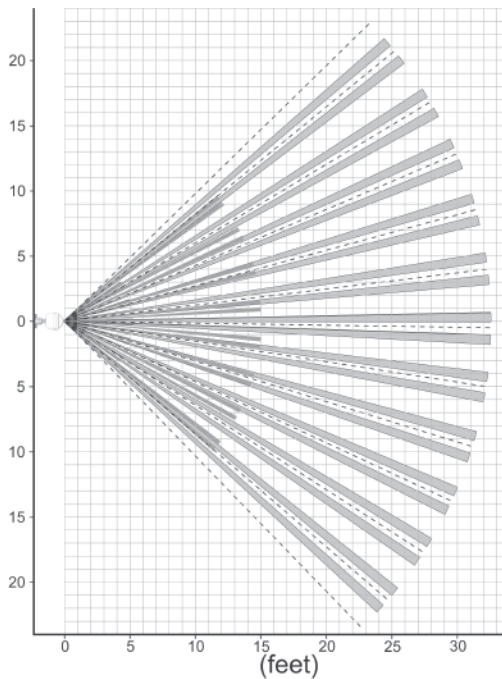
Network Specifications:

Minimum Range: Indoor 50ft

Frequency: 908.42 MHz

Mesh Network: Each line powered node acts as a repeater to route distant signals.

Size: 232 Z-Wave® Nodes





GM40 Series (24-Hour/7-Day)

The GM40 Multi-Volt Series Time Controls are universal, electromechanical time switches which can be field configured for various power supply voltages. The voltage options include 120VAC, 208/240VAC, and 277VAC, all within the same unit! Selection of the desired supply voltage is easily achieved by selecting the DIP to the corresponding input voltage. The mechanism is mounted in a compact NEMA 3R outdoor enclosure and features a DPDT switching configuration standard (i.e. two normally open and two normally closed contacts). All GM40 models are available as "Mechanism Only" (-M) for installation in other enclosures or control panels or "Bracket Mount" (-B). The GM40 is also available in a NEMA 1 Indoor Metal Enclosure (-IM).

The GM40 is a robust time switch capable of switching high amperage. Below are samples of the many applications where the GM40 can be used:

- Lighting Control
- Heating, Air-Conditioning
- Pumps/Motors/Fan Control
- Access Control
- Agricultural Facilities
- General Purpose Electrical Circuits

Amber and Green LED Lights Indicate Power and Status

Easy Multi-Voltage Field Adjustable DIP Switch for 120, 208/240, or 277 VAC

New Compact VALOX® NEMA 3R Outdoor Enclosure is Standard

Large Screw Terminals for Easy Wiring #8 AWG

Ground Lug Termination

Captive Trippers Can't Be Lost

Independently Adjustable Trippers at 15 Minute Intervals (2 hrs. for 7-day model)

True Clock Face with ON/OFF/AUTO Override Switch

NO TOOLS REQUIRED! Our "GUTS" simply snap into existing INTERMATIC® enclosures

40 Amp Rated Contacts

Moisture Resistant Conformal Coated Board

SPDT and DPDT ALL-IN-ONE!



Electromechanical Time Controls

GM40 Series Ordering Data			
Grasslin/Intermatic Model	Voltage	Output	Battery Backup
24-Hour Electromechanical, Multi-Voltage, SPDT/DPDT, NEMA 3R Outdoor Enclosure			
GM40	120, 208~240, 277VAC	40A DPDT	—
GM40Q	120, 208~240, 277VAC	40A DPDT	Yes
7-Day (Skip-A-Day/Weekly) Electromechanical, Multi-Voltage, SPDT/DPDT, NEMA 3R Outdoor Enclosure			
GM40W	120, 208~240, 277VAC	40A DPDT	—
GM40QW	120, 208~240, 277VAC	40A DPDT	Yes
24-Hour Electromechanical, Multi-Voltage, SPDT/DPDT, Mechanism Only			
GM40-M	120, 208~240, 277VAC	40A DPDT	—
GM40Q-M	120, 208~240, 277VAC	40A DPDT	Yes
7-Day (Skip-A-Day/Weekly) Electromechanical, Multi-Voltage, SPDT/DPDT, Mechanism Only			
GM40W-M	120, 208~240, 277VAC	40A DPDT	—
GM40QW-M	120, 208~240, 277VAC	40A DPDT	Yes

ELECTRICAL RATINGS:

N.O. Contacts:

40A Resistive @ 120~277VAC
 1HP, 16FLA, 90LRA @ 120VAC
 2HP, 12FLA, 52LRA @ 208~277VAC
 30A Ballast @ 120VAC
 20A Ballast @ 277VAC
 15A Tungsten @ 120VAC
 300VA Pilot Duty 120~240VAC

Screw box lug terminals

Operating Temperature Range:

–40°F to 131°F (–40°C to 55°C)

Operating Humidity: 0 to 95% non-condensing

8.795" x 6.631" x 2.935" (H x W x D)

3 lbs.

50,000 Operations at Full Load

N.C. Contacts:

30A Resistive @ 120~277VAC
 1HP, 12FLA, 30LRA @ 120VAC
 2HP, 10FLA, 30LRA @ 240VAC
 2A Tungsten @ 120VAC
 10A Ballast @ 277VAC

DPDT (2-N.O. and 2-N.C. Contacts)

7 Days

SPECIFIERS GUIDE

Furnish and install a Intermatic GM40 _ Multi-Volt Series 24 hour or (7 day) time switch with captive trippers and quartz or synchronous drive. Input voltage shall be 120, 208/240 or 277VAC selectable via simple to set DIP switch. All units shall incorporate both SPDT and DPDT contacts that shall be rated at 40A, 2 HP @ 277V. To set the starting time and to provide time indication, the unit shall have an authentic clock face with hour and minute hands. LED indicators shall provide Power and Status feedback. Enclosure shall be NEMA 3R suitable for both indoor or outdoor installation. Time switch shall contain an OFF/AUTO/ON manual override. **For Carry-over:** The time switch shall have a quartz drive with 7 day reserve carry-over.



GMX Series (24-Hour/7-Day)

General Purpose Time Switch

The GMX Series Time Controls are universal, electromechanical time switches. They are a low cost alternative for applications that do not require more than 21A or 2HP @240VAC. The unit is mounted in a NEMA 1 Indoor or NEMA 3R Outdoor enclosure.

APPLICATION: The GMX is a light duty commercial time switch ideal for 24, 120, or 277 VAC single phase applications such as:

- Lighting Control
- Heating, Air-Conditioning
- Pumps/Motors/Fan Control
- Access Control
- Agricultural Facilities
- General Purpose Electrical Circuits

GMX Series Ordering Data			
Grasslin/Intermatic Model	Voltage	Output	Battery Backup
24-Hour Electromechanical, SPDT, NEMA 1 Outdoor Enclosure			
GMXST-I-120	120VAC, 60Hz	21A SPDT	—
GMXQT-I-120	120VAC, 50/60Hz	21A SPDT	Yes
GMXST-I-240	240VAC, 60Hz	21A SPDT	—
GMXST-I-24	24VAC, 60Hz	21A SPDT	—
GMXQT-I-24	24VAC, 50/60Hz; 12~24VDC	21A SPDT	Yes
7-Day (Skip-A-Day/Weekly) Electromechanical, SPDT NEMA 1 Outdoor Enclosure			
GMXSW-I-120	120VAC, 60Hz	21A SPDT	—
GMXQW-I-120	120VAC, 50/60Hz	21A SPDT	Yes
GMXSW-I-240	240VAC, 60Hz	21A SPDT	—
GMXQW-I-240	240VAC, 50/60Hz	21A SPDT	Yes
GMXSW-I-24	24VAC, 60Hz	21A SPDT	—
GMXQW-I-24	24VAC, 50/60Hz; 12~24VDC	21A SPDT	Yes
24-Hour Electromechanical, SPDT, NEMA 3R Outdoor Enclosure			
GMXST-O-120	120VAC, 60Hz	21A SPDT	—
GMXQT-O-120	120VAC, 50/60Hz	21A SPDT	Yes
GMXST-O-240	240VAC, 60Hz	21A SPDT	—
GMXST-O-24	24VAC, 60Hz	21A SPDT	—
7-Day (Skip-A-Day/Weekly) Electromechanical, SPDT, NEMA 3R Outdoor Enclosure			
GMXSW-O-120	120VAC, 60Hz	21A SPDT	—
GMXQW-O-120	120VAC, 50/60Hz	21A SPDT	Yes
GMXSW-O-240	240VAC, 60Hz	21A SPDT	—
GMXSW-O-24	24VAC, 60Hz	21A SPDT	—



Features:

- 21 Amp. Rating
- NEMA 1 Indoor or 3R Outdoor Enclosure
- SPDT Switch
- Captive trippers with intervals of 15 minutes on 24-hour models (2 hours on 7-day models)
- True clock face, easy to set
- Finger safe terminals
- Enclosure provides space for field added contactor or other accessories.



Electromechanical Time Controls



Features:

- 40 Amp. Rating
- Saves energy by shutting heaters OFF during “off-peak” periods
- Captive trippers with easy to read clock face
- Manual Override
- Power and Status LED Indicators
- Ground Lug
- Built-In Battery Backup Standard
- Raintight NEMA 3R Enclosure
- True Clock Face

WHQ Series (24-Hour/7-Day)

Water Heater Timers w/Battery Backup

The WHQ Series Water Heater Timers are designed for control of residential, commercial, or industrial electric water heaters up to 10,000 Watts capacity running at 208/240VAC. The unit is mounted in a NEMA 3R Outdoor enclosure and can be placed in basements or mechanical rooms.

APPLICATION: This unit is designed to save energy and maximize hot water usage throughout the day. For example, the unit could be programmed to turn ON during periods of high usage such as in the early morning hours and OFF during low demand periods such as late evenings.

WHQ Series Ordering Data			
Grasslin/Intermatic Model	Voltage	Output	Battery Backup
24-Hour Electromechanical, DPDT, NEMA 3R Outdoor Enclosure			
WHQ4	208~240VAC, 60Hz	40A DPDT	Yes
7-Day (Skip-A-Day/Weekly) Electromechanical, DPDT, NEMA 3R Outdoor Enclosure			
WHQ7	208~240VAC, 60Hz	40A DPDT	Yes

ELECTRICAL RATINGS:

N.O. Contacts:

40A Resistive @ 250VAC

10,000 Watts

N.C. Contacts:

30A Resistive @ 250VAC

7,500 Watts

WIRING CONNECTIONS:

Screw box lug terminals

ENVIRONMENTAL RATINGS:

Operating Temperature Range:

-40°F to 131°F (-40°C to 55°C)

Operating Humidity: 0 to 95%

non-condensing

ENCLOSURE DIMENSIONS:

8.795" x 6.631" x 2.935" (H x W x D)

SHIPPING WEIGHT: 3 lbs.

ELECTRICAL LIFE:

50,000 Operations at Full Load

SWITCH CONFIGURATION:

DPDT (2-N.O. and 2-N.C. Contacts)

BATTERY BACKUP OPTION: 7 Days

SPECIFIERS GUIDE

Furnish and install a Intermatic WHQ ___ Water Heater Time Control with captive trippers and quartz (battery backup) drive. Input voltage shall be 208/240VAC on all models. Contacts shall be (DPDT) rated at 40A, 10,000 Watts @ 250VAC. To set the starting time and to provide time indication, the unit shall have an authentic clock face with hour and minute hands. Enclosure to be NEMA 3R rain-tight. Time switch shall contain an OFF/AUTO/ON manual override.

Electromechanical Time Controls



MIL72 Series (24-Hour/7-Day)

Surface or Flush Mounted Time Switches

The MIL72 Series time switches are designed to be mounted inside a control panel and can accommodate surface/DIN rail or flush/panel mounting.

APPLICATION: The MIL72 Series is a light duty commercial time switch ideal for 24, 120, or 277VAC single phase applications such as:

- Lighting Control
- Heating, Air-Conditioning
- Pumps/Motors/Fan Control
- Access Control
- Agricultural Facilities
- General Purpose Electrical Circuits

MIL 72A
(Surface Mounting)



MIL 72E
(Flush Mounting)

Features:

- Synchronous drive or quartz drive with battery backup
- 21A SPDT switch
- Captive trippers with intervals as low as 15 minutes
- With or without 3-way override
- True clock face
- Surface, flush, or DIN rail mount

Grasslin Model	Intermatic Model	Override	Mount		Input Voltage	Switch Rating 250V Res.	Minimum On/Off Time	Event On/Off Time	
24-Hour Time Control									
MIL72A STuZ-24	MIL72ASTUZ-24	No	Surface	Synchronous	24VAC	SPDT 21A	15 Min	ON 1/4 hr.	
MIL72A STuZ-120	MIL72ASTUZ-120	No	Surface	Synchronous	120VAC	SPDT 21A	15 Min	ON 1/4 hr.	
MIL72A STuZ-240	MIL72ASTUZ-240	No	Surface	Synchronous	208/240VAC	SPDT 21A	15 Min	ON 1/4 hr.	
MIL72A STuZH-24	MIL72ASTUZH-24	Yes	Surface	Synchronous	24VAC	SPDT 21A	15 Min	ON 1/4 hr.	
MIL72A STuZH-120	MIL72ASTUZH-120	Yes	Surface	Synchronous	120VAC	SPDT 21A	15 Min	ON 1/4 hr.	
MIL72A STuZH-240	MIL72ASTUZH-240	Yes	Surface	Synchronous	208/240VAC	SPDT 21A	15 Min	ON 1/4 hr.	
MIL72A QTuZH-24	MIL72AQTUZH-24	Yes	Surface	Quartz*	24VAC	SPDT 21A	15 Min	ON 1/4 hr.	
MIL72A QTuZH-120	MIL72AQTUZH-120	Yes	Surface	Quartz	120VAC	SPDT 21A	15 Min	ON 1/4 hr.	
MIL72E STuZ-24	MIL72ESTUZ-24	No	Flush	Synchronous	24VAC	SPDT 21A	15 Min	ON 1/4 hr.	
MIL72E STuZ-120	MIL72ESTUZ-120	No	Flush	Synchronous	120VAC	SPDT 21A	15 Min	ON 1/4 hr.	
MIL72E STuZ-240	MIL72ESTUZ-240	No	Flush	Synchronous	208/240VAC	SPDT 21A	15 Min	ON 1/4 hr.	
MIL72E STuZH-24	MIL72ESTUZH-24	Yes	Flush	Synchronous	24VAC	SPDT 21A	15 Min	ON 1/4 hr.	
MIL72E STuZH-120	MIL72ESTUZH-120	Yes	Flush	Synchronous	120VAC	SPDT 21A	15 Min	ON 1/4 hr.	
MIL72E STuZH-240	MIL72ESTUZH-240	Yes	Flush	Synchronous	208/240VAC	SPDT 21A	15 Min	ON 1/4 hr.	
MIL72E QTuZH-24	MIL72EQTUZH-24	Yes	Flush	Quartz*	24VAC	SPDT 21A	15 Min	ON 1/4 hr.	
MIL72E QTuZH-120	MIL72EQTUZH-120	Yes	Flush	Quartz	120VAC	SPDT 21A	15 Min	ON 1/4 hr.	
7-Day Time Control									
MIL72A SWuZ-24	MIL72ASWUZ-24	No	Surface	Synchronous	24VAC	SPDT 21A	2 hr.	ON 2 hr.	
MIL72A SWuZ-120	MIL72ASWUZ-120	No	Surface	Synchronous	120VAC	SPDT 21A	2 hr.	ON 2 hr.	
MIL72A SWuZ-240	MIL72ASWUZ-240	No	Surface	Synchronous	208/240VAC	SPDT 21A	2 hr.	ON 2 hr.	
MIL72A SWuZH-24	MIL72ASWUZH-24	Yes	Surface	Synchronous	24VAC	SPDT 21A	2 hr.	ON 2 hr.	
MIL72A SWuZH-120	MIL72ASWUZH-120	Yes	Surface	Synchronous	120VAC	SPDT 21A	2 hr.	ON 2 hr.	
MIL72A SWuZH-240	MIL72ASWUZH-240	Yes	Surface	Synchronous	208/240VAC	SPDT 21A	2 hr.	ON 2 hr.	
MIL72A QWuZH-24	MIL72AQWUZH-24	Yes	Surface	Quartz*	24VAC	SPDT 21A	2 hr.	ON 2 hr.	
MIL72A QWuZH-120	MIL72AQWUZH-120	Yes	Surface	Quartz	120VAC	SPDT 21A	2 hr.	ON 2 hr.	
MIL72A QWuZH-240	MIL72AQWUZH-240	Yes	Surface	Quartz	208/240VAC	SPDT 21A	2 hr.	ON 2 hr.	
MIL72E SWuZ-24	MIL72ESWUZ-24	No	Flush	Synchronous	24VAC	SPDT 21A	2 hr.	ON 2 hr.	
MIL72E SWuZ-120	MIL72ESWUZ-120	No	Flush	Synchronous	120VAC	SPDT 21A	2 hr.	ON 2 hr.	
MIL72E SWuZ-240	MIL72ESWUZ-240	No	Flush	Synchronous	208/240VAC	SPDT 21A	2 hr.	ON 2 hr.	
MIL72E SWuZH-24	MIL72ESWUZH-24	Yes	Flush	Synchronous	24VAC	SPDT 21A	2 hr.	ON 2 hr.	
MIL72E SWuZH-120	MIL72ESWUZH-120	Yes	Flush	Synchronous	120VAC	SPDT 21A	2 hr.	ON 2 hr.	
MIL72E SWuZH-240	MIL72ESWUZH-240	Yes	Flush	Synchronous	208/240VAC	SPDT 21A	2 hr.	ON 2 hr.	
MIL72E QWuZH-24	MIL72EQWUZH-24	Yes	Flush	Quartz*	24VAC	SPDT 21A	2 hr.	ON 2 hr.	
MIL72E QWuZH-120	MIL72EQWUZH-120	Yes	Flush	Quartz	120VAC	SPDT 21A	2 hr.	ON 2 hr.	
MIL72E QWuZH-240	MIL72EQWUZH-240	Yes	Flush	Quartz	208/240VAC	SPDT 21A	2 hr.	ON 2 hr.	

*Quartz 24VAC models will operate on 12-24VDC



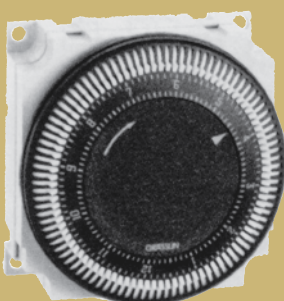
Electromechanical Cycle Time Switches



Talento 121

Features:

- Synchronous drive or quartz drive with battery backup
- 21A SPDT switch
- Captive trippers with interval as low as 15 minutes
- With or without 3-way override
- True clock face
- Surface, flush, or DIN rail mount



FM/1 S 12H

Features:

- 12 hour cycle
- 7.5 minute resolution
- Captive trippers
- SPDT 21A switch
- Flush, surface or DIN rail mounting

Talento 121

One Hour Repeat Cycle Time Switch

The Talento 121 is a synchronous motor driven electromechanical one hour time switch intended as a low cost repeat cycle timer for industrial processes and other applications. It provides continuous on and off cycling of a load in a pattern which will repeat every hour. Captive trippers allow setting up to 24 ON and 24 OFF times in 1.25 minute increments over a one hour period. It may be used in conjunction with an Intermatic 24-hour or 7-day time switch to provide repeat cycle timed switching only during selected periods of the day or week. It may be surface or DIN rail mounted within panels, or may be mounted in an Intermatic indoor or outdoor enclosure.

Specifications:

Size – 2.13" x 3.31" x 2.56" deep

Switch Output – SPDT isolated contacts
 16A Resistive @ 125/250VAC
 4A Inductive @ 125/250VAC
 1350W Tungsten @ 240V

Shortest Switching Time – 1.25 Minutes

Operating Temperature – –13°F to 130°F

Operating Humidity – 0 to 95% RH non-condensing

Wiring Connections – Screw terminals for up to #12AWG wire

FM/1 S 12H

12 Hour Repeat Cycle Time Switch

The FM/1 S 12H is a synchronous motor driven electromechanical 12 hour time switch intended as a low cost repeat cycle timer for industrial processes and other applications. It provides continuous on and off cycling in a pattern which will repeat every 12 hours. Captive trippers allow setting up to 48 ON and 48 OFF times in 7.5 minute increments over a 12 hour period.

Specifications:

Size – 2.36" x 2.36" x 1.25"

Supply Voltage – 24, 120, 240VAC

Power Consumption – 1VA

Switch Rating – SPDT

Resistive: 21A

Tungsten: 1350W

Inductive: 1HP @ 120VAC

2HP @ 240VAC

Wiring Connections – 1/4" quick-connects

Talento 121 and FM/1 S 12H Ordering Data

Grasslin Model	Intermatic Model	Voltage	Carryover	Switch Program	Minimum On/Off Time	Switch Output
Talento-121-120	TALENTO121-120	120VAC	No	1 Hour	1.25 Minutes	SPDT 16A Res.
Talento-121-240	TALENTO121-240	208/240VAC	No	1 Hour	1.25 Minutes	SPDT 16A Res.
FM/1 S 12H-120	FM1S12HU-120U	120VAC	No	12 Hour	7.5 Minutes	SPDT 21A Res.



GM40E Series (24-Hour and/or 7-Day All-In-One)

Electronic General Purpose Time Switch

The GM40E Series Time Controls are universal, electronic time switches designed for general purpose commercial applications. Available in voltage specific 120VAC, 208/240VAC or 277VAC 60/50Hz. The mechanism is mounted in a NEMA 3R outdoor enclosure and features a DPDT switching configuration standard (i.e. two normally open and two normally closed contacts). All GM40E models are available as "Mechanism Only" (-M) for installation in other enclosures or control panels or "Bracket Mount" (-B). The GM40E is also available in a NEMA 1 Indoor Metal Enclosure (-IM).

APPLICATION: The GM40E is a robust time switch capable of switching high amperage. Below are samples of the many applications where the GM40E can be used:

- Lighting Control
- Heating, Air-Conditioning
- Pumps/Motors/Fan Control
- Access Control
- Agricultural Facilities
- General Electrical Circuits

GM40E Series Ordering Data				
Grasslin/Intermatic Model	Voltage	Output	Programs	Battery Backup
24-Hour/7-Day Electronic, DPDT, NEMA 3R Outdoor Enclosure				
GM40E-120	120VAC, 50/60Hz	40A DPDT	14	Yes
GM40E-240	240VAC, 50/60Hz	40A DPDT	20	Yes
GM40E-277	277VAC, 60Hz	40A DPDT	20	Yes
24-Hour/7-Day Electronic, DPDT, NEMA 3R Outdoor Enclosure w/Automatic Daylight Saving Adjustment				
GM40E42-120	120VAC, 50/60Hz	40A DPDT	42	Yes
24-Hour/7-Day Electronic, DPDT, Mechanism Only				
GM40E-M-120	120VAC, 50/60Hz	40A DPDT	14	Yes
GM40E-M-240	240VAC, 50/60Hz	40A DPDT	20	Yes
24-Hour/7-Day Electronic, DPDT, Mechanism Only w/Automatic Daylight Saving Adjustment				
GM40E42-M-120	120VAC, 50/60Hz	40A DPDT	42	Yes



Features:

- 40 Amp. Rating
- Rechargeable battery backup
- SPDT and DPDT All-in-One!
- NEMA 3R Outdoor Enclosure is Standard
- No Tools Required—Guts Snap Easily Into Intermatic® Enclosure.
- Power and Status LED Indicators
- GM40E42 Models have automatic Daylight Saving Time adjustment
- Ground Lug

ELECTRICAL RATINGS:

N.O. Contacts:

- 40A Resistive @ 120~277VAC
- 1HP, 16FLA, 90LRA @ 120VAC
- 2HP, 12FLA, 52LRA @ 208~277VAC
- 30A Ballast @ 120VAC
- 20A Ballast @ 277VAC
- 15A Tungsten @ 120VAC
- 300VA Pilot Duty 120~240VAC

N.O. Contacts:

- 30A Resistive @ 120~277VAC
- 1HP, 12FLA, 30LRA @ 120VAC
- 2HP, 10FLA, 30LRA @ 240VAC
- 2A Tungsten @ 120VAC
- 10A Ballast @ 277VAC

WIRING CONNECTIONS:

Screw box lug terminals

ENVIRONMENTAL RATINGS:

Operating Temperature Range:
-40°F to 131°F (-40°C to 55°C)
Operating Humidity: 0 to 95% non-condensing

ENCLOSURE DIMENSIONS:

8.795" x 6.631" x 2.935" (H x W x D)

SHIPPING WEIGHT: 3 lbs.

ELECTRICAL LIFE:

50,000 Operations at Full Load

SWITCH CONFIGURATION:

DPDT (2-N.O. and 2-N.C. Contacts)

BATTERY BACKUP OPTION: 7 Days



GMX Series

Features:

- 16 Amp. Rating
- NEMA 1 Indoor or 3R Outdoor Enclosure
- SPDT
- 24-Hour/7-Day Electronic w/Battery Backup
- GMX Digi42 has automatic Daylight Saving Time adjustment
- Finger safe terminals
- Enclosure provides space for field added contactor or other accessories

GMX Digi Series (24-Hour and/or 7-Day All-in-one)

General Purpose Time Switch

The GMX Digi Series Time Controls are universal, electronic time switches. They are a low cost alternative for applications that do not require more than 16A. The unit is mounted in a NEMA 3R Outdoor enclosure.

APPLICATION: The GMX Digi is a light duty commercial time switch ideal for 24, 120, or 277 VAC single phase applications such as:

- Lighting Control
- Heating, Air-Conditioning
- Pumps/Motors/Fan Control
- Access Control
- Agricultural Facilities
- General Electrical Circuits

GMX Digi Series Ordering Data

Grasslin Model	Intermatic Model	Enclosure	Voltage	Program	Switch	Amps
GMX-digi20-I-120	GMXDIGI20-I-120	NEMA 1	120 50/60HZ	20	SPDT	16
GMX-digi20-I-240	GMXDIGI20-I-240	NEMA 1	208/240V 50/60HZ	20	SPDT	16
GMX-digi20-I-24	GMXDIGI20-I-24	NEMA 1	24V 50/60HZ	20	SPDT	16
GMX-digi42-I-120	GMXDIGI42-I-120	NEMA 1	120 50/60HZ	42	SPDT	16
GMX-digi42-I-240	GMXDIGI42-I-240	NEMA 1	208/240V 50/60HZ	42	SPDT	16
GMX-digi42-I-24	GMXDIGI42-I-24	NEMA 1	24V 50/60HZ	42	SPDT	16
GMX-digi42-I-12	GMXDIGI42-I-12	NEMA 1	12VDC	42	SPDT	16
GMX-digi20-O-120	GMXDIGI20-O-120	NEMA 3R	120 50/60HZ	20	SPDT	16
GMX-digi20-O-240	GMXDIGI20-O-240	NEMA 3R	208/240V 50/60HZ	20	SPDT	16
GMX-digi20-O-24	GMXDIGI20-O-24	NEMA 3R	24V 50/60HZ	20	SPDT	16
GMX-digi42-O-120	GMXDIGI42-O-120	NEMA 3R	120 50/60HZ	42	SPDT	16
GMX-digi42-O-12	GMXDIGI42-O-12	NEMA 3R	12VDC	42	(2) SPDT	16
GMX2-digi42-I-120	GMXDIGI42-I-120	NEMA 1	120 50/60HZ	42	(2) SPDT	16
GMX2-digi42-I-240	GMXDIGI42-I-240	NEMA 1	208/240V 50/60HZ	42	(2) SPDT	16
GMX2-digi42-I-24	GMXDIGI42-I-24	NEMA 1	24V 50/60HZ	42	(2) SPDT	16
GMX2-digi42-O-120	GMXDIGI42-O-120	NEMA 3R	120 50/60HZ	42	(2) SPDT	16

ELECTRICAL RATINGS:

SPDT Contacts:
16A Resistive @ 120~250VAC
1,000W Tungsten @ 240VAC

WIRING CONNECTIONS:

Screw terminals accepts up to 12AWG wire

ENVIRONMENTAL RATINGS:

Operating Temperature Range:
-20°F to 140°F (-28.9°C to 60°C)
Operating Humidity: 0 to 95% non-condensing

ENCLOSURE DIMENSIONS:

10" x 6.50" x 3.75" (H x W x D)

SHIPPING WEIGHT: 2 lbs.

ELECTRICAL LIFE:

6,000 Operations at Full Load

SWITCH CONFIGURATION:

SPDT (1-N.O. and 1-N.C. Contacts)

BATTERY BACKUP OPTION: 7 Days

Single Channel Electronic Time Controls



Digi 20 and Digi 42 Series

24-Hour and/or 7-Day

APPLICATION: Time based control of lighting, ventilating, heating, cooling or other electrical loads in commercial and industrial applications. These one channel time switches are programmable for 24-hour or 7-day schedules. The Digi 42 offers an "8th day" or holiday schedule. The Digi 20A or Digi 42A are intended for either surface or DIN rail mounting. Both models are completely enclosed in a plastic housing and includes a terminal cover and sub-base for installation and hard wiring. The Digi 20E or Digi 42E are intended for flush mounting. Both models are supplied with a clear plastic snap-on dust cover.

Specifications:

	Digi 20	Digi 42
Channels	1	1
Programs	20	42
Holiday Program	No	Yes
Reserve Carryover, min.	1 week	2 weeks
Automatic Spring/Fall Daylight Saving Time Changeover	No	Yes

Technical Data

Output – 1 SPDT relay with dry contacts

Switching Capacity – 16A Resistive @ 277VAC
1000W Tungsten @ 240VAC

Input Draw – 4VA

Shortest Switching Time – 1 minute

Accuracy: Less than ±4 minutes per year deviation

Ambient Temperature: 0°F to 140°F (-18°C to 60°C)

Ambient Humidity: 0 to 95% RH, non-condensing

Selectable AM/PM or 24 hr. (military) time LCD display

One Key Daylight Time Changeover (automatic on Digi 42)

Manual 3-Way Override: Temporary or permanent ON or OFF status indication in LCD display.

Wiring Connections:

"A" Models: screw terminals for

#10 to #24 AWG wire

"E" Models: 1/4" quick connects



Features:

- 24 hour or 7 day programming with accuracy to the second
- Easy programming; minimal keys and programming steps
- Unique "Circular Programming" with large keys is easier to use
- Selectable blocks of weekdays or weekends for quick programming on Digi 20, any combination of days on Digi 42
- Holiday program on Digi 42 may be scheduled a week in advance for one or more days
- Rechargeable battery backup with 1-4 weeks reserve carry-over
- Manual override provides for either temporary or continuous ON or OFF state, with status displayed in large LCD
- Digi 42 models have automatic Daylight Saving Time changeover
- 24V models will operate either on AC or DC

Digi 20 and Digi 42 Series Ordering Data

Grasslin/Intermatic Model	Timer Voltage	Mounting	Setpoint Programs	Maximum weekly On/Off Events	Relay Output Resistive Rating
Digi20A-120	120V, 50/60Hz	Surface or DIN Rail	20	140	SPDT, 16A, 250V
Digi20A-240	208/240V, 50/60Hz	Surface or DIN Rail	20	140	SPDT, 16A, 250V
Digi20A-24	24V, 50/60Hz	Surface or DIN Rail	20	140	SPDT, 16A, 250V
Digi20A-277	277V, 50/60Hz	Surface or DIN Rail	20	140	SPDT, 16A, 250V
Digi42A-120	120V, 50/60Hz	Surface or DIN Rail	42	294	SPDT, 16A, 250V
Digi42A-240	208/240V 50/60Hz	Surface or DIN Rail	42	294	SPDT, 16A, 250V
Digi42A-24	24V, 50/60Hz	Surface or DIN Rail	42	294	SPDT, 16A, 250V
Digi42A-12	12VOC, 50/60Hz	Surface or DIN Rail	42	294	SPDT, 16A, 250V
Digi20E-120	120V, 50/60Hz	Flush Panel	20	140	SPDT, 16A, 250V
Digi20E-240	208/240V 50/60Hz	Flush Panel	20	140	SPDT, 16A, 250V
Digi20E-24	24V, 50/60Hz	Flush Panel	20	140	SPDT, 16A, 250V
Digi20E-277	277V, 50/60Hz	Flush Panel	20	140	SPDT, 16A, 250V
Digi42E-120	120V, 50/60Hz	Flush Panel	42	294	SPDT, 16A, 250V
Digi42E-240	208/240V 50/60Hz	Flush Panel	42	294	SPDT, 16A, 250V
Digi42E-24	24V, 50/60Hz	Flush Panel	42	294	SPDT, 16A, 250V
Digi42E-12	12VOC, 50/60Hz	Flush Panel	42	294	SPDT, 16A, 250V

(24V models will operate on AC or DC)



Dual Channel Electronic Time Controls



Features:

- 24 hour or 7 day programming with resolution to the minute and accuracy to the second
- Large keys ease programming
- Unique circular programming pattern and minimal steps simplify programming
- Automatic Daylight Saving Time changeover in Spring and Fall eliminates need to manually change the time
- Holiday, or "8th day" program may be scheduled a week in advance for one or more days
- Each channel may be programmed separately, or both together
- Automatically recharged NiCad battery maintains program and display for two weeks or more
- Manual override for each channel provides for either temporary or continuous ON or OFF state, with status displayed in large LCD

Digi 42/2

24-Hour and/or 7-Day

APPLICATION: This unit can be used to control 240VAC two-phase loads such as pumps, compressors, etc. It can also be used to provide time based control of two circuit lighting, ventilating, heating, cooling or other electrical loads in commercial and industrial applications. The Digi 42/2 time switches are programmable for 24-hour or 7-day schedules as well as an "8th day" or holiday schedule. Each channel can operate independently or combined.

Specifications:

Output Switches – Two SPDT relays with dry contacts

Switch Capacity – 16A General Purpose, 125-250VAC
1000W Tungsten, 250V
500W Tungsten, 125V

N.O. Contact: 1HP, 240VAC; 1/2HP, 120VAC
Pilot Duty: 720VA, 120-240VAC

N.C. Contact: 3/4HP, 240VAC; 1/3HP, 120VAC
Pilot Duty: 360VA, 120-240VAC

Input Power – 4.4VA

Shortest Switching Time – 1 minute

Accuracy: Less than ±4 minutes per year deviation

Ambient Temperature: 0°F to 140°F (–18°C to 60°C)

Ambient Humidity: 0 to 95% RH, non-condensing

Selectable AM/PM or 24 hr. (military) time display

Selectable completely automatic or one key manual daylight time changeover

Manual 3-Way Override: Temporary or permanent ON or OFF status indication in LCD display.

Wiring Connections: Screw terminals #12 to #24AWG

SIZE: 2.83" x 2.83" square face, x 2.28" deep

UL AND CANADIAN UL RECOGNIZED: File E83486

Digi 42/2 Ordering Data

Grasslin/Intermatic Model	Timer Voltage	Mounting*	Setpoint Programs	Maximum weekly On/Off Events	Relay Output General Purpose Rating
Digi42/2-120	120V, 50/60Hz	Flush or Surface	42	294	(2) SPDT, 16A, 250VAC
Digi42/2-240	240V, 50/60Hz	Flush or Surface	42	294	(2) SPDT, 16A, 250VAC
Digi42/2-24	24V, 50/60Hz	Flush or Surface	42	294	(2) SPDT, 16A, 250VAC

* For DIN rail mounting, order: MB-DIN Rail Mounting Base

Advanced Electronic Time Controls 1, 2, and 4 Channels



Talento 400 & 800 Series

24 Hour, 7 Day, 365 Day Multi-Function Time Controls

APPLICATION: The Talento series electronic time switches provide time-of-day control for lighting, heating, air conditioning, pumps, motors or general electrical circuits. The "400" series are 24-hour/7-day controls, while the "800" series units offer 365-day programming with holiday capability through the year 2095. All models offer automatic leap year and daylight savings adjustment. These features are activated when the user enters the current date and respective Daylight Saving Time change-over dates. From that point on, daylight change-over dates will never have to be entered again. An LCD display indicates the load status, time-of-day, weekday and on the "800" series, the date. The units can be surface mounted, mounted to a standard DIN rail or within an Intermatic enclosure for stand-alone installations. Enclosure options include indoor or outdoor plastic (with solid or clear cover) or indoor metallic. In addition to the conventional ON/OFF programming format, these units offer pulse and cycle functions. A pulse is simply an ON or OFF event with a duration of one or more seconds. The cycle function provides for a repeating ON event within a selectable total cycle. Both the ON duration and the total cycle duration are independently programmable in minutes or seconds. In addition, the cycle function can be set to repeat indefinitely or to occur within a time and/ or date range.

SPECIFIERS GUIDE

800 Series: The contractor shall furnish and install a Intermatic talento 894, 4 channel (892, 2 channel / 891, 1 channel) electronic time switch. Each channel shall be independently programmable. A total of 400 events shall be provided. The time switch shall offer daily, weekly or annual programming capability with up to 99 separate holiday periods of any duration and priority. Three types of switching commands shall be provided; on/off, pulse and cycle. Automatic or user selectable Daylight Saving Time change-over shall be incorporated through the year 2095. An optional Windows®-based software program shall be available for remote programming capability. It shall provide full graphic indication of the switching schedule. It shall also include a database of fixed and floating holidays. Floating holidays will automatically repeat each year on the correct date. An astronomical program shall be included which will automatically adjust the switch event schedule according to the changing sunrise and sunset times. An LCD display shall be provided to indicate the current time, date, switch contact status and program schedule. A replaceable lithium battery shall be provided to maintain the current time and date in the event of a power failure for up to six (6) years; the switch program shall be stored in non-volatile (EEPROM) memory. The SPDT switch contacts shall be rated for 16A at 250VAC. Time switch supply voltage shall be 24VAC/DC or 120VAC or 240VAC. The time switch shall be capable of surface or DIN rail mounting or it can be provided in an indoor or outdoor (NEMA 1 or 3R) enclosure. It shall be UL, C-UL recognized, and UL/C-UL listed in optional enclosure.

400 Series: The contractor shall furnish and install a Intermatic talento 472, 2 channel (471, 1 channel) electronic time switch. Each channel shall be independently programmable. A total of 40 (30, 471) events shall be provided. The time switch shall offer daily or weekly programming. Three types of switching commands shall be provided; on/off, pulse and cycle. Automatic or user selectable Daylight Saving Time change-over shall be incorporated through the year 2095. An LCD display shall be provided to indicate the current time, day, switch contact status and program schedule. A lithium battery shall be provided to maintain the current time and date in the event of a power failure for up to three (3) years; the switch program shall be stored in non-volatile (EEPROM) memory. The SPDT switch contacts shall be rated for 16A at 250 VAC. Time switch supply voltage shall be 24VAC/DC or 120VAC, or 240VAC. The time switch shall be capable of surface or DIN rail mounting or it can be provided in an indoor or outdoor (NEMA 1 or 3R) enclosure. It shall be UL, C-UL recognized, and UL/C-UL listed in optional enclosure.



Features:

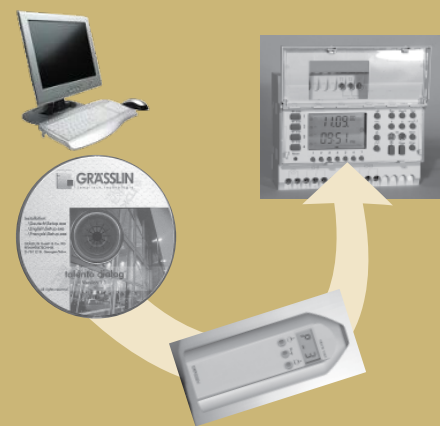
- 1, 2 & 4 channels programmable independently or simultaneously
- Automatic leap year and daylight saving time adjustment
- Pulse programming for school bells, sirens, or lighting contactor applications
- Cycle programming for pump or other sequencing applications
- Lithium battery backup keeps clock running
- EEPROM Non-Volatile program memory
- Astronomical function on Talento 800 series (Requires Software)

Remote PC Programming

The talento 800 series can be programmed from a PC utilizing the optional **talento dialog set**. The set includes Windows®-based software, the **taxxi** hand-held programmer, CD-ROM, interconnect cable and instructions.

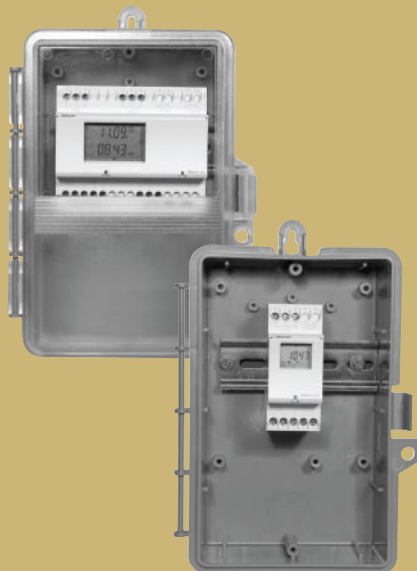
The software contains a schedule of **fixed** and **floating** holidays that can be selected, as required, for the particular application. **Floating** holidays will automatically repeat on the correct date, year after year. Thus, all **fixed** and **floating** holidays need only be programmed once. In addition, an **astronomical** program is included which will automatically adjust the program schedule to follow the changing sunrise and sunset times.

Once the programming is completed on the PC, it is transferred to the **taxxi** hand-held programmer from which programs are downloaded into one or more installed talento 800 series time controls. The **taxxi** can store up to four independent programs and can also upload a program from the talento into a PC for review or editing.





Advanced Electronic Time Controls 1, 2, and 4 Channels



Talento 400/800 Series Ordering Data				
Grasslin/Intermatic Model	Voltage	Output	Channels	Programs
Mechanism Only				
TALENT0471-120	120VAC, 50/60Hz	16A SPDT	1	30
TALENT0891-24	24VAC/DC, 50/60Hz	16A SPDT	1	400
TALENT0891-120	120VAC, 50/60Hz	16A SPDT	1	400
TALENT0472-120	120VAC, 50/60Hz	16A SPDT	2	30
TALENT0892-24	24VAC/DC, 50/60Hz	16A SPDT	2	400
TALENT0892-120	120VAC, 50/60Hz	16A SPDT	2	400
TALENT0894-24	24VAC/DC, 50/60Hz	16A SPDT	4	400
TALENT0894-120	120VAC, 50/60Hz	16A SPDT	4	400
NEMA 1 Indoor Enclosure				
GMX471-I-120	120VAC, 50/60Hz	16A SPDT	1	30
GMX891-I-120	120VAC, 50/60Hz	16A SPDT	1	400
GMX472-I-120	120VAC, 50/60Hz	16A SPDT	2	30
GMX892-I-24	24VAC/DC, 50/60Hz	16A SPDT	2	400
GMX892-I-120	120VAC, 50/60Hz	16A SPDT	2	400
GMX894-I-24	24VAC/DC, 50/60Hz	16A SPDT	4	400
GMX894-I-120	120VAC, 50/60Hz	16A SPDT	4	400

SRS 3800

7 Day, 8-Channel End Time Switch

APPLICATION: Time of day ON/OFF control of 8 circuits of HVAC systems, zone heating, industrial processes, alarm systems, lighting, fans, pumps or other loads in commercial, industrial, institutional, and agricultural facilities. A simple and effective energy management system for small and mid-sized office buildings, schools, banks, malls, and government buildings.

Specifications:

- Input Voltage** – 120VAC 50/60 Hz
- Output Rating** – 10A Resistive @ 120~240VAC per channel
- Output Configuration:** 6 SPDT, 2 SPST (NO)
- Power Consumption:** 12VA
- Shortest Switching Time:** 1 minute
- Ambient Temperature:** 14°F to 122°F (-10°C to 50°C)
- Ambient Humidity:** 0 to 95% RH, non-condensing
- Manual 3-Way Override:** Auto-On-Off
- "ON" or "OFF" status indicator for each channel
- Wiring Connections:** Screw terminals, 12-24AWG
- Size:** 8.38 (213mm) x 7.08" (180mm) x 4.5" (114mm)

SRS 3800 Ordering Data				
Grasslin/Intermatic Model	Voltage	Output	Channels	Programs
Plastic Clear Enclosure				
SRS3800-120	120VAC, 60Hz	10A, 6-SPDT & 2-SPST	8	224

Features:

- 8 channels programmable independently or simultaneously
- 7 day programming
- 2 ON and 2 OFF settings per day
- ON-OFF-AUTO Override for each channel
- Holiday "OFF" provision
- Indoor/Outdoor enclosure w/clear door
- Battery backup for 1 month
- 10 Amp, SPDT switching



Electromechanical Timer Modules



FM/1 Series

24 Hour, 7 Day

APPLICATION: The FM/1 series electromechanical timer modules are designed to be placed inside a machine control panel, circuit board, or other equipment. It offers up to 21A switching designed for control of heating, ventilating, air conditioning, refrigeration, lighting, security, circulating pumps, spas or any electrical load requiring 24-hour or 7-day scheduling.

Specifications:

Size: 2.36" x 2.36" x 1.25"

Supply Voltage: 24, 120, 240VAC

Power Consumption: 1 VA

Switch Rating: SPDT

Resistive: 21A

Tungsten: 1350W

Inductive: 1HP @ 120VAC

2HP @ 240VAC

Wiring Connections: 1/4" quick-connects

Installation: Stand Alone: With indoor or outdoor enclosure

Panel: Surface mounting



Features:

- 21A SPDT switch
- Captive Trippers
- 1/4" quick terminals
- Noise Immune—Ideal for robust applications

FM/1 Series Ordering Data[†]

Grasslin Model	Intermatic Model	Override	Switch Program	Carryover	Program On/Off Every	Minimum On/Off Time	Switch Output Type	Switch Output Rating
FM/1 STuZ-120	FM1STUZ-120U	No	24 Hr.	No	15 Minutes	15 Minutes	SPDT	21A. Res.
FM/1 STuZ-24	FM1STUZ-24U	No	24 Hr.	No	15 Minutes	15 Minutes	SPDT	21A. Res.
FM/1 STuZ-240	FM1STUZ-240U	No	24 Hr.	No	15 Minutes	15 Minutes	SPDT	21A. Res.
FM/1 SWuZ-120	FM1SWUZ-120U	No	7 day	No	2 Hours	2 Hours	SPDT	21A. Res.
FM/1 SWuZ-24	FM1SWUZ-24U	No	7 day	No	2 Hours	2 Hours	SPDT	21A. Res.
FM/1 SWuZ-240	FM1SWUZ-240U	No	7 day	No	2 Hours	2 Hours	SPDT	21A. Res.
FM/1 STuZH-120	FM1STUZH-120U	Yes	24 Hr.	No	15 Minutes	15 Minutes	SPDT	21A. Res.
FM/1 STuZH-24	FM1STUZH-24U	Yes	24 Hr.	No	15 Minutes	15 Minutes	SPDT	21A. Res.
FM/1 STuZH-240	FM1STUZH-240U	Yes	24 Hr.	No	15 Minutes	15 Minutes	SPDT	21A. Res.
FM/1 SWuZH-120	FM1SWUZH-120U	Yes	7 day	No	2 Hours	2 Hours	SPDT	21A. Res.
FM/1 SWuZH-24	FM1SWUZH-24U	Yes	7 day	No	2 Hours	2 Hours	SPDT	21A. Res.
FM/1 SWuZH-240	FM1SWUZH-240U	Yes	7 day	No	2 Hours	2 Hours	SPDT	21A. Res.
FM/1 SWuZH-277	FM1SWUZH-277U	Yes	7 day	No	2 Hours	2 Hours	SPDT	21A. Res.
FM/1 QTuZH-120	FM1QTUZH-120U	Yes	24 Hr.	7 day	15 Minutes	15 Minutes	SPDT	21A. Res.
FM/1 QTuZH-24	FM1QTUZH-24U	Yes	24 Hr.	7 day	15 Minutes	15 Minutes	SPDT	21A. Res.
FM/1 QWuZH-120	FM1QWUZH-120U	Yes	7 day	2 Hr.	2 Hours	2 Hours	SPDT	21A. Res.
FM/1 QWuZH-240	FM1QWUZH-240U	Yes	7 day	2 Hr.	2 Hours	2 Hours	SPDT	21A. Res.

Available with 24V, 120V, 240V, 277VAC input





Electromechanical Timer Modules



Features:

- Very small and compact, fits anywhere
- On/Auto/Off manual switch standard
- Captive trippers for easy programming
- 1/4" quick terminals



KM2 Series

24 Hour, 7 Day

APPLICATION: The KM/2 series modules are designed to fit into tight locations. It offers up to 21A switching designed for control of heating, ventilating, air conditioning, refrigeration, lighting, security, circulating pumps, spas or any electrical load requiring 24-hour or 7-day scheduling.

Specifications:

Size: 1.67" x 2.64" x 1.67"

Supply Voltage: 24, 120, 240VAC

Power Consumption: 1 VA

Switch Rating: SPDT

Resistive: 21A @ 250V

Motor: 1HP @ 125VAC

2HP @ 250VAC

Inductive: 8A @ 250VAC

Tungsten: 1350W

Wiring Connections: 1/4" quick-connects

KM2 Series Ordering Data

Grasslin/Intermatic Model	OPERATING FEATURES			Switch Output	
	Switch Program	Program On/Off Every	Minimum On/Off Time	Type	Rating
KM2STUH-120	24 Hr.	20 Minutes	20 Minutes	SPDT	21A Res.

Electronic Timer Modules



FM/1 digi 20

24 Hour and/or 7 Day

Specifications:

Switch Rating: SPDT
 16A Resistive @ 277VAC
 1000W Tungsten @ 240VAC
Input Draw: 4VA
Input Frequency: 50/60Hz
Shortest Switching Time: 1 minute
Ambient Temperature: 0°F to 140°F (-18°C to 60°C)
Ambient Humidity: 0 to 95% RH, non-condensing
Wiring Connections: 1/4" quick connects
 UL and Canadian UL File E 83486

Features:

- 20 programs, up to 140 events per week
- Easy to program with large keys
- 16 Amp @ 277V SPDT switching
- Capacitor backup with 5 day carryover
- Manual override



FM/1 digi 14

Specifications:

Wiring Connections: 1/4" Quick Terminals
Supply Voltage: 125VAC, 60 Hz.
Switch Output: SPDT (Form C Relay Contacts)
Switch Rating: 15A General Purpose/Resistive @125VAC
 1000W Tungsten @125VAC
 1/2HP @125VAC
Battery Back-Up: Rechargeable Ni-MH (Holds program and keeps time for up to 60 days)
Operating Temperature: -10°C to + 55°C
Accuracy: ± 1 sec/day at 20°C
Number of Programs: 7 ON, 7 OFF
Block Programming: MON-SUN, MON-FRI, SAT-SUN, MON-SAT, MON-WED-FRI
Shortest Switching Time: 1 Minute
Display: Backlit LCD (Illuminates in the dark)
Protection: MOV and Thermal Fuse
Approvals: UL & Canadian UL

Features:

- Integrated MOV surge protection assures reliable operation
- Thermal fuse protects unit in the event of overload
- 1/4" quick terminals for easy wiring connection
- Rechargeable Ni-MH battery holds program and keeps time for up to 60 days
- Block programming reduces number of events: MON-SUN, MON-FRI, SAT-SUN, MON-SAT, MON-WED-FRI
- Backlit LCD illuminates in the dark
- 14 programs for maximum 98 weekly ON/OFF



FM/1 digi 42

Specifications:

Switch Rating: SPDT
 16A Resistive @ 277VAC
 1000W Tungsten @ 240VAC
Input Draw: 4VA
Input Frequency: 50/60Hz
Shortest Switching Time: 1 minute
Ambient Temperature: 0°F to 140°F (-18°C to 60°C)
Ambient Humidity: 0 to 95% RH, non-condensing
Wiring Connections: 1/4" quick connects
 UL and Canadian UL File E 83486

Features:

- Automatic Daylight Saving Time Changeover
- 42 programs, up to 294 events per week
- Holiday programming
- 16 Amp @ 277V SPDT switching
- Rechargeable battery backup with carryover of over 4 weeks



FM/1 Series Ordering Data - FM/1 digi 42 also available for 12VDC input, 24V models are AC/DC.

Grasslin Model	Intermatic Model	Input Voltage	Switch Program	Programs	Max. Weekly On/Off Events	Holiday Program	Reserve Carryover	Relay Output
FM/1 digi 14-120	FM1DIG14-120U	120V, 50/60Hz	24 hr. / 7 day	14	98	No	60 days	SPDT 15A
FM/1 digi 20-120	FM1DIG20-120U	120V, 50/60Hz	24 hr. / 7 day	20	140	No	1 week	SPDT 16A
FM/1 digi 20-240	FM1DIG20-240U	240V, 50/60Hz	24 hr. / 7 day	20	140	No	1 week	SPDT 16A
FM/1 digi 20-24	FM1DIG20-24U	24V, 50/60Hz	24 hr. / 7 day	20	140	No	1 week	SPDT 16A
FM/1 digi 20-277	FM1DIG20-277U	277V, 50/60Hz	24 hr. / 7 day	20	140	No	1 week	SPDT 16A
FM/1 digi 42-120	FM1DIG42-120U	120V, 50/60Hz	24 hr. / 7 day	42	294	Yes	2 weeks	SPDT 16A
FM/1 digi 42-24	FM1DIG42-24U	24V, 50/60Hz	24 hr. / 7 day	42	294	Yes	2 weeks	SPDT 16A
FM/1 digi 42-12VDC	FM1DIG42-12U	24V, 50/60Hz	24 hr. / 7 day	42	294	Yes	2 weeks	SPDT 16A



In-Wall Electronic Timer



ET616

Electronic Interval Countdown Timer

The ET616 is a wall mounted Electronic Time Switch which automatically turns lights or other loads OFF after a preset time period. When used for control of lights in a conference room, rest room, or similar temporary use room, it functions like a standard light switch, turning the lights ON when the button is pressed, and OFF when pressed again. If left ON, it will automatically turn OFF after a time period settable from 5 minute to 12 hours via tamper-proof dip switches. It is also suitable for the control of tanning beds, fans, heaters, chemical pumps, laboratory apparatus, and other applications requiring a preset ON time and automatic shutoff.

Specifications:

Input: 120V or 277VAC 50/60 Hz

Switch Rating:

- 1000W Tungsten, 800W Ballast Switch Rating @ 120VAC
- 1500W Tungsten, 1200W Ballast Switch Rating @ 277VAC
- 8.3A Resistive @120VAC
- 5.4A Resistive @277VAC

Operating Temperature: 0° to 100°F (-18° to 38°C)

Operating Humidity: 0-95% RH Non-Condensing

Faceplate Color: White

Timing Accuracy: Less Than 1% Deviation

Wiring Connections: 6" Leadwires

Features:

- Operates on 120V or 277VAC
- Mounts in standard wallbox
- Single button ON/OFF operation
- Backlit LCD display
- Preset time adjustments; 5, 15, 30, 60 minutes, 3, 6, 9, 12 hours
- Switch holds position during a power failure (on or off), restarts at preset time when power is restored
- UL and cUL Listed
- Clamshell packaging available
- Wall plate included
- Works with fluorescent and compact fluorescent lights



File

SPECIFIERS GUIDE

Furnish and install a Intermatic Model ET616 Electronic Interval Timer. The timer shall fit a standard 2-1/2" deep single or multigang wall box and decorator style wall plate. It shall be capable of being powered by 120 or 277 volts without a neutral connection. The unit shall offer preset time intervals of 5, 15, 30 or 60-minutes and 3, 6, 9 or 12- hours set with "DIP" switches. Operation shall be via a single push button located on the front of the time switch. The push button shall operate as a standard on/off switch as well as to initiate the selected countdown interval. The time switch shall incorporate a "scroll-up" or "scroll-down" feature that allows the preset time to be adjusted up or down. The timer shall provide a "beep" and "flash" mode to indicate the last minute of operation. If activated, the unit shall flash once at the one-minute mark or beep once every 5 seconds from the one-minute mark to the shutdown point. The unit shall provide a reset feature, activated by pressing the push button once during the last minute of operation, to reinitiate the selected countdown interval. The time switch shall incorporate a backlit LCD to display the countdown time. The unit shall contain a capacitor to retain the switch position during a power failure for up to 10 hours.

ET616 Ordering Data

Grasslin/Intermatic Model	Voltage	Timing Interval	Switch Rating
ET616	120 or 277 VAC, 50/60 Hz	5, 15, 30, 60 Min. 3, 6, 9, 12 Hr.	1000W (Tungsten) @ 120V 800W (Ballast) @ 120V 1500W (Tungsten) @ 277V 1200W (Ballast) @ 277V

In-Wall Electromechanical Timer



KM2 In-Wall Timer

24 Hour, 7 Day

Replaces standard wall switch (toggle) to provide automatic control of outdoor or indoor lighting, fans, pumps, office machines, and other types of circuits. Captive trippers are easy to set, can't be lost. 72 trippers provide up to 36 ON/OFF events in 24 hour period. Three way, OFF/AUTO/ON override switch provides continuous ON or OFF positions. UL Listed. Easy wiring and installation.

Specifications:

Switch Rating:

- 20A @ 120VAC, 60Hz
- 2400W Resistive
- 8A Inductive
- 1HP @ 120VAC
- 1350W Tungsten

Environmental Ratings:

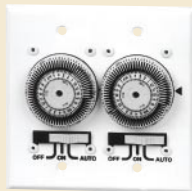
- Operating Temperature Range: -40°F to 180°F (-40°C to 85°C)
- Operating Humidity: 0 to 95% non-condensing

Wiring Connections: (3) #14AWG color coded lead wires

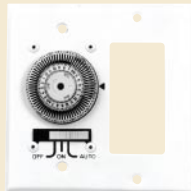
- Hot – Black
- Switched – Red
- Neutral – White



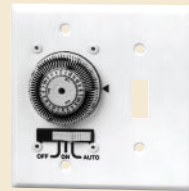
4-gang/toggle



Dual Timer
(2-gang with 2 KM2's)



2-gang/decorator



2-gang/toggle

Features:

- Captive trippers with 20 minute switching interval (2-1/3 hr. for 7 day)
- SPST 20A, 1HP @ 120V switch
- Replaces standard wall switches
- Multiple plates available
- Reliable synchronous timer motor
- Easy wiring and installation
- Works with fluorescent and compact fluorescent lights



File #E83486

KM2 Ordering Data			
24 Hour	7 Day	Wallplate Configuration	Switch
KM2ST-1G	KM2SW-1G	1 Gang	SPST
KM2STU-1G	KM2SWU-1G	1 Gang, 3 Way	SPDT
KM2ST-2G	KM2SW-2G	2 Gang, Toggle	SPST
KM2ST-3G	—	3 Gang, Toggle	SPST
KM2ST-4G	—	4 Gang, Toggle	SPST
KM2ST-2D	KM2SW-2D	2 Gang, Decorator	SPST
KM2ST-3D	—	3 Gang, Decorator	SPST
KM2ST-2R	—	2 Gang, Receptacle	SPST
KM2STST-2G	KM2SWSW-2G	2 Gang, Dual Timers	(2) SPST



In-Wall Electronic Timer

ET724 Electronic In-Wall Timer

24 Hour and/or 7 Day

Replaces standard wall switch (toggle) to provide automatic control of outdoor or indoor lighting, fans, pumps, office machines, and other types of circuits. The unit can be programmed for 7-ON and 7-OFF events daily or weekly. Large clear LCD display indicates the time of day and ON/OFF status. The ET724 is designed to be mounted in a standard decorator plate for a sleek modern look.

Specifications:

Input: 120VAC, 60 Hz

Switch Rating:

- 15A Ballast @ 120VAC
- 15A Tungsten @ 120VAC
- 1800W Resistive
- 1HP Motor

Operating Temperature: 32° to 122°F (0° to 50°C)

Faceplate Color: White or Light Almond

Timing Accuracy: Less Than 1% Deviation

Wiring Connections: 6" Leadwires



Profile

Features:

- Sleek profile
- Easy to program
- Single push-button control
- Mounts in standard wallbox
- Built-in rechargeable battery never needs replacement
- LCD display
- Flush mounted design
- Non-volatile memory
- Captive cover plate
- UL Listed and CSA Approved
- Wall plate included
- Works with fluorescent and compact fluorescent lights



File

Digi 42/2 Ordering Data

Grasslin/Intermatic Model	Color	Voltage	Programs	Blocks	Battery Backup
ET724-CS	White	120VAC, 60Hz	7-ON and 7-OFF	Mon~Sun, Mon~Fri, Sat~Sun	30 Days
ET724-A-CS	Light Almond	120VAC, 60Hz	7-ON and 7-OFF	Mon~Sun, Mon~Fri, Sat~Sun	30 Days

SPECIFIERS GUIDE

Furnish and install a Intermatic model ET724 electronic in-wall 7 day time control. The timer shall fit into a standard 2-1/2" deep single or multigang wall box and decorator style wallplate. It shall not protrude from the wall more than 1/8" and have a captive cover plate over the programming keys. The unit shall be capable of switching a 15 amp ballast or general purpose load or 1 HP motor and have seven independently programmable events. The battery backup will be a rechargeable NiMH type that does not require replacement.



LM Series

Light Sensor Controller

The LM series includes one or two channels for electronic lighting controls. They are provided with a waterproof light level sensor that can be remotely mounted up to 330 feet away. For large installations, up to 10 units (20 channels) can be connected to a single sensor. The integral light sensitivity adjustment provides a wide range of settings, making these units applicable for control of indoor and outdoor lighting as well as automatic awnings or shades. These units operate strictly via a light level adjustment. The LM2 units have an independent light level setting for each channel. Either unit can be connected in series with any Intermatic Time Switch to provide time-of-day control.

APPLICATIONS:

- Parking Lights
- Perimeter Lighting
- Retail Stores
- Warehouses
- Schools
- 24-Hour Convenience Stores

Specifications:

Input Voltage: Separate models available for 120V or 277VAC; 50/60 Hz

Resistive Rating: 10A @ 277VAC per Channel

Ballast Rating: 8A @ 277VAC per Channel

Output Relay: SPDT "dry" contacts for each channel

Power Consumption: 2.5VA

Temperature Range:

Control Unit -4°F to 131°F (-20°C to 55°C)

Sensor -22°F to 158°F (-30°C to 70°C)

Humidity Range:

Control Unit 0 to 95% RH non-condensing

Sensor 0 to 100% RH

Weight: 8.5 oz.

Mounting: Surface & DIN rail

(NEMA 1 & 3R enclosures available)

Light Sensitivity Adj.: .2 to 50 Foot Candles

(w/LS1 sensor)

(10 to 1000 F.C. w/LS2 sensor)

Sensor Time Delay - 0 to 100 sec.

Time Switch Accuracy: ± 2.5 seconds per day @

68°F (20°C)



File #E83486

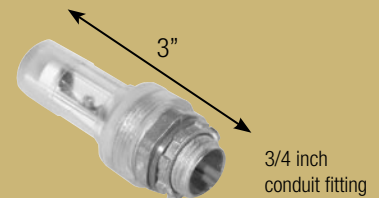


Features:

- Single channel (PC1) or Dual channel (PC2) models available
- Single channel unit for 1 light level set point
- Dual channel for 2 separate light level set points
- Adjustable dial for foot-candle settings
- Includes remote light sensor with lifetime warranty
- DIN Rail/Surface mount or in our NEMA 3R Outdoor Enclosure

LM Series Ordering Data

Grasslin/Intermatic Model	Sensor	Voltage	Channel	Enclosure	Mounting
LM1-I-120	—	120V	1	NEMA 1	—
LM1-O-120	—	120V	1	NEMA 3R	—
LM1-O-277	—	277V	1	NEMA 3R	—
LM2-I-120	—	120V	2	NEMA 1	—
LM2-O-120	—	120V	2	NEMA 3R	—
LM2-O-277	—	277V	2	NEMA 3R	—
PC1-120-LS1	LS1	120V	1	—	Surface or DIN Rail
PC1-120-LS2	LS2	120V	1	—	Surface or DIN Rail
PC1-277-LS1	LS1	277V	1	—	Surface or DIN Rail
PC1-277-LS2	LS2	277V	1	—	Surface or DIN Rail
PC2-120-LS1	LS1	120V	2	—	Surface or DIN Rail
PC2-120-LS2	LS2	120V	2	—	Surface or DIN Rail
PC2-277-LS1	LS1	277V	2	—	Surface or DIN Rail
PC2-277-LS2	LS2	277V	2	—	Surface or DIN Rail



LS1 Transparent Sensor

Sensitivity: 0.2 to 50 Foot-Candles

Case: Transparent (IP65)

Application: Dusk to Dawn



LS2 Dark Sensor

Sensitivity: 10 to 1,000 Foot-Candles

Case: Dark UV Filter (IP65)

Application: Cloudy Environment



Lighting Controller w/Electronic Time Switch 1 and 2 Channels



LightMaster

PC Digi Series

24 Hour and 7 Day Combination Light Sensor Controller & Time Switch

The PC Digi and LM Digi series are one or two channel electronic lighting controls and time switch combination. They are provided with a waterproof light level sensor that can be remotely mounted up to 330 feet away. For large installations, up to 10 units (20 channels) can be connected to a single sensor. The integral light sensitivity adjustment provides a wide range of settings, making these units applicable for control of indoor and outdoor lighting as well as automatic awnings or shades. The PC "Digi" models incorporate an integral one or two channel electronic timer with automatic "DayLight Savings Time" changeover.

Specifications:

Input Voltage: Separate models available for 120V or 277VAC; 50/60 Hz

Resistive Rating: 10A @ 277VAC per Channel

Ballast Rating: 8A @ 277VAC per Channel

Output Relay: SPDT "dry" contacts for each channel

Power Consumption: 2.5VA

Temperature Range:

Control Unit -4°F to 131°F (-4°C to 55°C)

Sensor -22°F to 158°F (-22°C to 70°C)

Humidity Range:

Control Unit 0 to 95% RH non-condensing

Sensor 0 to 100% RH

Weight: 8.5 oz.

Mounting: Surface & DIN rail

(NEMA 1 & 3R enclosures available)

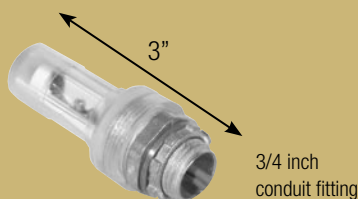
Light Sensitivity Adj.: .2 to 50 Foot Candles (w/LS1 sensor)

(10 to 1000 F.C. w/LS2 sensor)

Sensor Time Delay - 0 to 100 sec.

Features:

- Single or two channel
- 10A switch rating
- Battery backup
- Delay Adjustment Potentiometer prevent nuisance activation
- Remote sensor
- Automatic Daylight Saving time changeover



LS1 Transparent Sensor

Sensitivity: 0.2 to 50 Foot-Candles

Case: Transparent (IP65)

Application: Dusk to Dawn



LS2 Dark Sensor

Sensitivity: 10 to 1,000 Foot-Candles

Case: Dark UV Filter (IP65)

Application: Cloudy Environment



File #E83486

PC Digi Series Ordering Data

Grasslin Model	Intermatic Model	Sensor	Voltage	Channel	Mounting
PC1-digi20-120	PC1-D20-120-LS2	—	120V	1	Surface or DIN Rail
PC1-digi20-277	PC1-D20-277-LS2	—	277V	1	Surface or DIN Rail
PC2-digi30-120	PC2-D30-120-LS2	—	120V	2	Surface or DIN Rail
PC2-digi30-277	PC2-D30-277-LS2	—	277V	2	Surface or DIN Rail
PC1-D20-120-LS2	PC1-D20-120-LS1	LS1	120V	1	Surface or DIN Rail
PC2-D20-277-LS2	PC1-D20-277-LS1	LS1	277V	1	Surface or DIN Rail
PC2-D30-120-LS2	PC2-D30-120-LS1	LS1	120V	2	Surface or DIN Rail
PC2-D30-277-LS2	PC2-D30-277-LS1	LS1	277V	2	Surface or DIN Rail

AC Hour Meter (Non-Reset Type)



FWZ Series

FWZ 36, 53, and 55 Hour Meters are rectangular flush panel mount designed to fit into tight locations. All can withstand IP54 environmental rating (requires use of gasket). See IP rating table on page 40 for more detail.

All models also available with 1/4" spade terminals **without** screw clamp.

FWZ53-120/50U

FWZ53-240U

FWZ53-24U



- Bezel: 1.42" x 0.95" (36 x 24mm)
- Capacity: 99,999.99 hours
- Digits: 7
- Voltage: 24, 120, 240, 50 or 60Hz models
- Power Consumption: 1VA
- Temperature: -40° to 160°F (-40° to 72°C)
- Termination: Combination 1/4" spade and screw clamp. Rear access screw terminals available (model "K")
- Weight: 1.2oz
- Flush panel retainer mounted with wire spring clip retainer
- Panel Opening: 1.36" x 0.90" rectangular (34.5 x 23mm)

FWZ55K-240U*

FWZ55K-120U*

FWZ55-120U

FWZ55-240U



- Bezel: 2.36" x 1.36" (60 x 34.5mm)
- Capacity: 99,999.99 hours
- Digits: 7 - 0.16" high numerals
- Voltage: 24, 120, 240, 50 or 60Hz models
- Power Consumption: 1VA
- Temperature: -40° to 160°F (-40° to 72°C)
- Termination: Combination 1/4" spade and screw clamp. Rear access screw terminals available (model "K")
- Weight: 1.8oz
- Flush panel retainer mounted with slip-on plastic retaining bracket
- Panel Opening: 2.06" x 1.08" rectangular (52 x 27.5mm)

*Rear access screw terminals

FWZ36-120U



- Bezel: 1.42" x 0.95" (36 x 24mm)
- Capacity: 99,999.99 hours
- Digits: 7
- Voltage: 24, 120, 240, 50 or 60Hz models
- Power Consumption: 1VA
- Temperature: -40° to 160°F (-40° to 72°C)
- Termination: Combination 1/4" spade and screw clamp. Rear access screw terminals available (model "K")
- Weight: 1.2oz
- Flush panel retainer mounted with wire spring clip retainer
- Panel Opening: 1.36" x 0.90" rectangular (34.5 x 23mm)



FWZ72-120U

FWZ72-240U

FWZ72-24U

FWZ72K-120U*

FWZ72K-240U*

**Black
Polycarbonate**

- Bezel: 2.83" round (72mm) 3-hole
- Capacity: 99,999.99 hours
- Digits: 7 - 0.16" high numerals
- Voltage: 24, 120, 240, 50 or 60Hz models
- Power Consumption: 1VA
- Temperature: -40° to 160°F (-40° to 72°C)
- Termination: Combination 1/4" spade and screw clamp. Rear access screw terminals available (model "K")
- Weight: 1.8oz
- Flush panel mounted with (3) 0.185" holes for #8 screws
- Panel Opening: 1.75" round (44.5mm) or 1.50" x 1.00" rectangular (38 x 25mm)

*Rear access screw terminals



FWZ72B-120U

FWZ72B-240U

FWZ72B-24U

**Blue-Silver
on Colorless
Frosted Polycarbonate**



File
#LR44080



File
#E86119



AC Hour Meter (Non-Reset Type)

UWZ48A-120U
UWZ48A-240U
UWZ48A-24U



- Bezel: 1.89" x 1.89" (48 x 48mm)
- Capacity: 99,999.99 hours
- Mounting: Surface
- Digits: 7 – 0.16" high
- Voltage: 24, 120, 240, 50 or 60Hz
- Power Consumption: 1VA
- Temperature: –40° to 160°F (–40° to 72°C)
- Termination: Screw Lugs
- Weight: 2.5oz.

Wall mounted type. Used in conjunction with a terminal cover for added safety, the UWZ 48A is surface mounted. Installation merely requires fixing the base to wall or panel with two screws, wiring the base, and plugging in the meter with the terminal cover.

Ordering Information: UWZ 48A – voltage/freq.

UWZ Series

The UWZ 48 Series is designed to meet IP20 environmental rating for indoor applications. All models are light grey color with white numerals on black background. Tenths and hundredths numerals are yellow. An orange dial adjacent to the hundredths digit provides running indication. See IP rating table on page 40 for more detail.



UWZ48-120U
UWZ48-240U
UWZ48-24U

- Bezel: 1.89" x 1.89" (48 x 48mm)
- Capacity: 99,999.99 hours
- Mounting: Surface
- Digits: 7 – 0.16" high
- Voltage: 24, 120, 240, 50 or 60Hz
- Power Consumption: 1VA
- Temperature: –40° to 160°F (–40° to 72°C)
- Termination: Screw Lugs
- Weight: 2.5oz.

Surface mounted type. The UWZ 48 unit with plug-in base where terminal protection is not necessary. The socket base is easy to install and connect. The meter is simply plugged into the base and secured by one screw.

Ordering Information: UWZ 48 – voltage/freq.



UWZ48E-120U
UWZ48E-240U
UWZ48E-24U

- Bezel: 1.89" x 1.89" (48 x 48mm)
- Capacity: 99,999.99 hours
- Mounting: Flush
- Digits: 7 – 0.16" high numerals
- Voltage: 24, 120, 240, 50 or 60Hz
- Power Consumption: 1VA
- Temperature: –40° to 160°F (–40° to 72°C)
- Termination: Combination 1/4" spade and screw clamp
- Weight: 2.1oz.

Flush mounted with bracket. The UWZ 48E unit fits into a 1.79 x 1.79in. (45.5 x 45.5mm) cut-out. The thickness of the panel for flush mounting can be up to 0.35in. (9mm). The unit is secured in position by a plastic slip-on retaining bracket. Also fits square or round openings for 72mm meters with optional 72mm bezel.

Ordering Information: UWZ 48E – voltage/freq.



UWZ48V-120U
UWZ48V-240U
UWZ48V-24U

- Bezel: 1.89" x 1.89" (48 x 48mm)
- Capacity: 99,999.99 hours
- Mounting: DIN Rail
- Digits: 7 – 0.16" high numerals
- Voltage: 24, 120, 240, 50 or 60Hz
- Power Consumption: 1VA
- Temperature: –40° to 160°F (–40° to 72°C)
- Termination: Combination 1/4" spade and screw clamp
- Weight: 2.5oz.

DIN rail mounting. A special snap-on socket base enables the unit to be quickly and simply fitted on DIN rail.

Ordering Information: UWZ 48V – voltage/freq.



UWZ52E-120U

- Bezel: 2.28" round (58mm)
- Capacity: 99,999.99 hours
- Mounting: Flush
- Digits: 7 – 0.16" high numerals
- Voltage: 24, 120, 240, 50 or 60Hz
- Power Consumption: 1VA
- Temperature: –40° to 160°F (–40° to 72°C)
- Termination: Combination 1/4" spade and screw clamp
- Weight: 2.1oz.

Flush mounted with bracket. The UWZ 52E with round face is fastened with a plastic slip-on retaining bracket. For larger cutouts up to a 60mm diameter, a slip-on 65mm Ø bezel is available.

Ordering Information: UWZ 52E – voltage/freq.



File
#LR44080



File
#E86119

DC Hour Meter (Non-Reset Type)



GZ Series



GZ40AU

- SAE Bezel: 2.31" dia. (59mm)
- Capacity: 99,999.9 hours
- Digits: 6 – 0.125 high numerals
Hours: white on black
Tenths: red on white
- Voltage: 4-40VDC and 10-80VDC
- Power Consumption: .03W @ 12VDC
.70W @ 48VDC
- Temperature: -22° to 150°F (-30° to 65°C)
Special Model Temp: -40° to 185°F (-40° to 85°C)
- Vibration Resistance: 10 to 75Hz @ 1-8g's
- Termination: 1/4" spade terminals
- Protected From: reverse polarity, inductive switch
- Weight: 2oz



GZ40BU

- 3-Hole Bezel: 2.80" dia. (72mm)
- Totally sealed case
- Capacity: 99,999.9 hours
- Digits: 6 – 0.125 high numerals
Hours: white on black
Tenths: red on white
- Voltage: 4-40VDC and 10-80VDC
- Power Consumption: .03W @ 12VDC
.70W @ 48VDC
- Temperature: -22° to 150°F (-30° to 65°C)
Special Model Temp: -40° to 185°F (-40° to 85°C)
- Vibration Resistance: 10 to 75Hz @ 1-8g's
- Termination: 1/4" spade terminals
- Protected From: reverse polarity, inductive switch
- Weight: 2oz



**GZ52U
GZ52BU**

GZ52U	GZ52BU	8-30VDC
Operating Voltage	8-30VDC	<3mA @12VDC
Current Consumption	<3mA @12VDC	<3mA @12VDC
Accuracy	±0.5sec/day@20°C	±0.5sec/day@20°C
Mechanical Movement	2-Phase Step Motor	2-Phase Step Motor
Display	6 Digits (99999.9 Hours)	6 Digits (99999.9 Hours)
Operation Indicator	LED	LED
Bezel	Metal (Chrome) Circular	Black (Plastic) Circular
Electrical Connection	1/4" Quick Connectors	1/4" Quick Connectors
Polarity Protection	Diode	Diode
Mounting	Flush (screw adj.)	Flush (screw adj.)
Operating Temperature	-40°C - 85°C	-40 C - 85°C
Storage Temperature	-40°C - 90°C	-40 C - 90°C
Environmental Rating	IP 65	IP 65
Shock Resistance	DIN EN60068-2-27	DIN EN60068-2-27
Vibration Resistance	DIN EN60068-2-64	DIN EN60068-2-64
Approvals	CE	CE



GZ41U



- Bezel: 2.12" x 1.25" (54 x 32mm)
- Capacity: 99,999.9 hours
- Digits: 6 – 0.125 high numerals
Hours: white on black
Tenths: red on white
- Voltage: 10-80VDC
- Power Consumption: .03W @ 12VDC
.70W @ 48VDC
- Temperature: -22° to 150°F (-30° to 65°C)
Special Model Temp: -40° to 185°F (-40° to 85°C)
- Vibration Resistance: 10 to 75Hz @ 1-8g's
- Termination: 1/4" spade terminals
- Protected From: reverse polarity, inductive switch
- Weight: 2oz

RZ Series

The Hour Meter Without Electrical Connection



**RZ52HU
RZ52DHU
RZ52VU
RZ52V**

Bezel: 2.28" round (58mm)

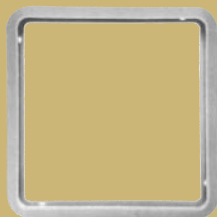
The RZ hour meter records the running time of machines, vehicles, etc. which vibrate during operation. The automatic mechanism in this meter converts vibrations into energy which drives the hour meter and minute sweep hand. It is so sensitive, it is capable of operating from the slight vibration of a moving car.

LEGEND RZ52/RZ60

- RZ52 = Model reference
- D = Rubber mounting assembly
- h = Horizontal installation
- v = Vertical installation

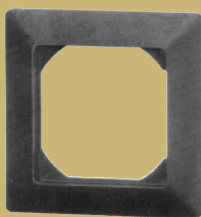


Accessories



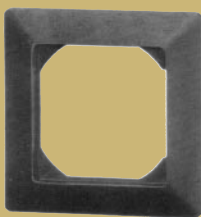
55mm Bezel for UWZ 48E

BEZ-55GRAYU



72mm Bezel for UWZ 48E

BEZ-72U



72mm Bezel w/3 pins for round 3-bolt hole openings for UWZ 48E

BEZ-72PU

E300 Compact Plastic Outdoor Enclosure



E300

- Plastic NEMA 3R raintight enclosure with hinged door and latch.
- Provisions for mounting Intermatic timer modules.
- Five combination 1/2"-3/4" knockouts: In bottom, sides and back.
- Exterior Size: 8.795" x 6.631" x 2.935" deep.
- Dark grey plastic finish.

E150 Plastic Indoor Enclosure



E150

- Plastic NEMA 1 enclosure with hinged door and latch.
- Provisions for mounting ANY Intermatic time control.
- Five combination 1/2"-3/4" knockouts: In bottom, sides and back.
- Exterior Size: 6.5" x 10" x 3.75" deep.
- Interior Size: 4.75" x 7.75" x 3" deep.
- Pale grey plastic finish.

Miscellaneous Accessories

Intermatic/ Grasslin

DIN-4 4" Metal Rail

REPLACEMENT BATTERIES

DC-FMEU Clear Plastic Cover FM/1 Electronic
DC-FME-AU Clear Plastic Cover FM/1 Electromechanical

HOUR METER ACCESSORIES

BEZ-55GRAYU 55mm Sq. Bezel Adapter, Grey, UWZ 48E
BEZ-55BLACKU 55mm Sq. Bezel Adapter, Black, UWZ 48E
BEZ-72U 72mm Sq. Bezel Adapter, Grey, UWZ 48E
BEZ-72PU 72mm Sq. Bezel Adapter w/pins for 3-Hole Pattern, Grey, UWZ 48E
G-55U Gasket for FWZ55 Models

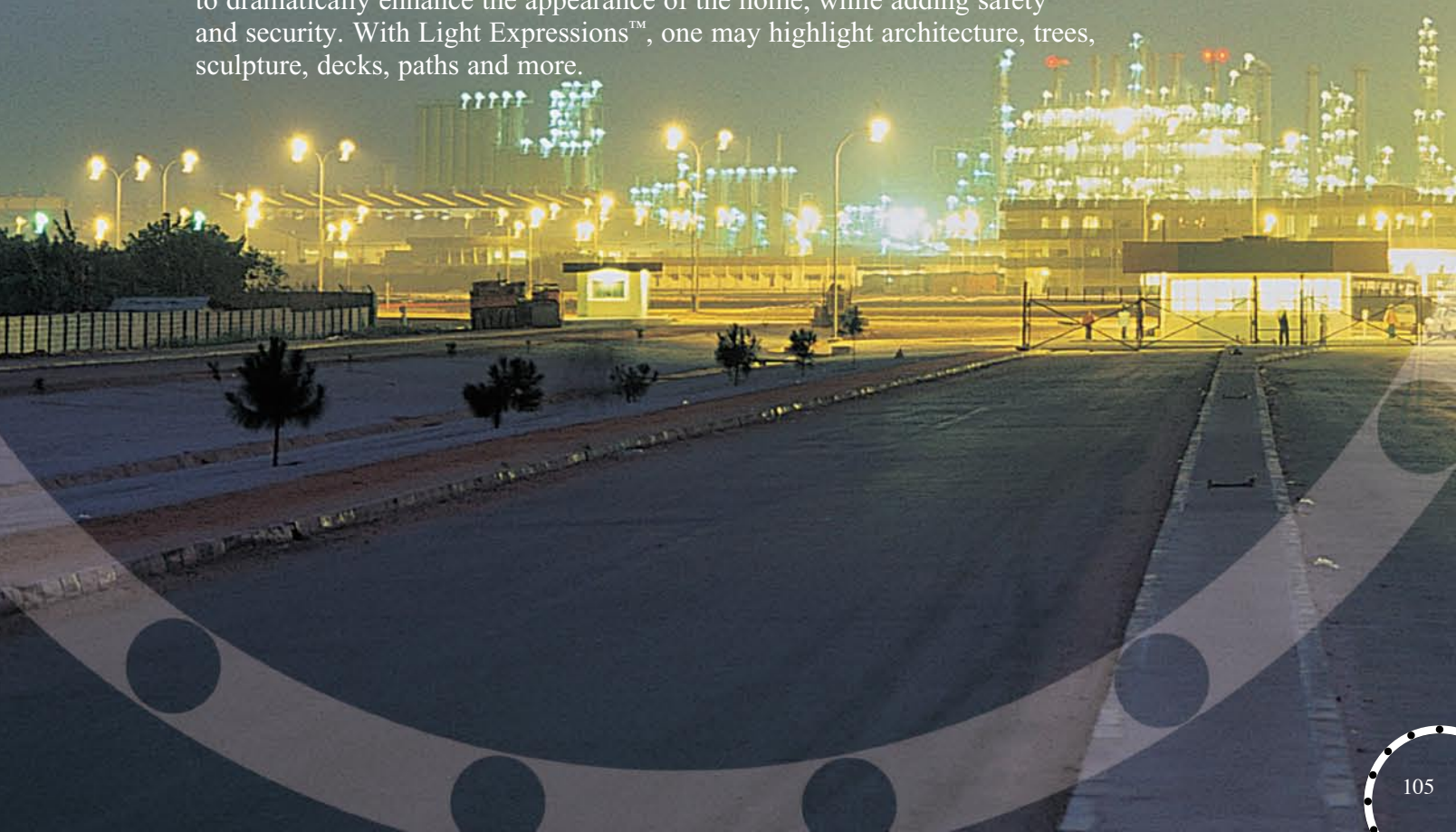
PROFESSIONAL LIGHTING

Your Total Professional Solution

Whether you are looking to light a garden pathway or signs along the highway, Intermatic has a comprehensive line of professional lighting to suit your every need.

Intermatic recently introduced its line of High Intensity Discharge (HID) lighting to satisfy the growing demand for high quality industrial lighting. With the same high quality that you've come to expect from Intermatic controls, Intermatic HID lighting can withstand the harshest elements while providing constant and reliable operation. When married with Intermatic switches and other HID control features like time clocks and photo controls, Intermatic provides a total lighting solution from beginning to end.

Intermatic's Light Expressions™ series of low voltage lighting fixtures is a professional grade series of landscape lighting that blends superior styling with extreme durability. The Light Expressions™ line offers contractors and landscape designers a high-end family of landscape fixtures and transformers to dramatically enhance the appearance of the home, while adding safety and security. With Light Expressions™, one may highlight architecture, trees, sculpture, decks, paths and more.





Professional Grade Transformers

Light Expressions™

Intermatic® professional grade transformers are the most reliable low voltage transformers available. Manufactured by Intermatic Incorporated – recognized worldwide for high quality timers and system controls – these transformers are especially designed for trouble-free operation and long lasting durability. Ensure that all of your professional lighting installations operate trouble-free and provide long-lasting service by using only Intermatic® professional grade transformers.

“Your success can depend on it!”

Professional Grade Low Voltage Multi-Tap Lighting Transformers

Product Features:

- 19 gauge stainless steel NEMA 3R enclosure with winter wheat finish
- Hinged door with lockable latch
- Knock-outs on back, bottom and sides for supply and load lines
- **AL300MTSS/AL600MTSS:** One combination 1/2”–3/4” knockout on the left side. Two combination 1/2”–3/4” and two combination 1”–1-1/4” Knockouts on the bottom.
- **AL900MTSS/AL1200MTSS:** One combination 1/2”–3/4” knockout on the left side. Five combination 1/2”–3/4” and three combination 1”–1-1/4” Knockouts on the bottom.
- Heavy-duty mounting brackets with quick-hang keyhole slots
- Protective cover separating supply voltage and low voltage wiring
- Re-settable circuit breaker for each 300 Watt circuit

Specifications:

- Multi-voltage outputs (12, 13, 14, and 15V)
- Two common terminals per 300 watt circuit
- Six foot supply cord with 3-prong plug
- CSA listed in US and Canada to UL1838 standards for low voltage lighting transformers

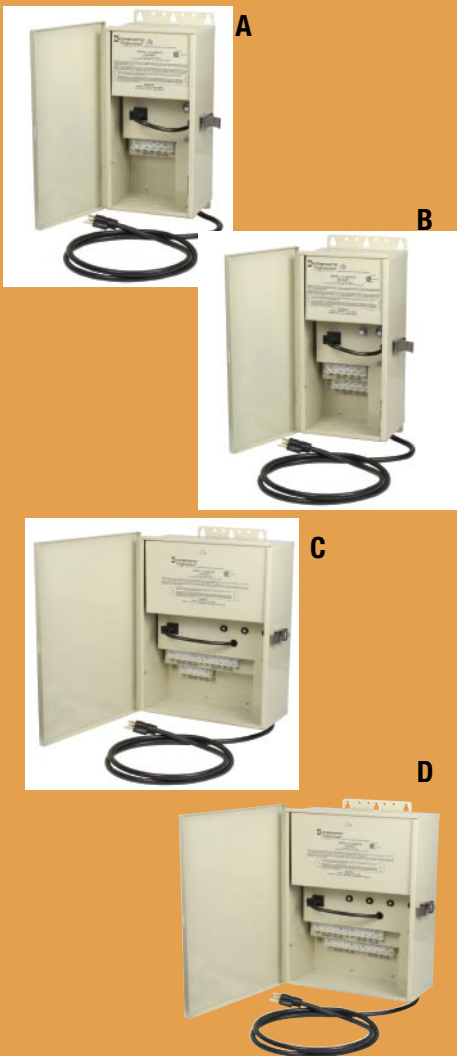


Image	Model#	Wattage	300W Circuits	Weight (lbs)
A	AL300MTSS	300	1	19
B	AL600MTSS	600	2	24
C	AL900MTSS	900	3	38
D	AL1200MTSS	1200	4	44

Field Installed Photo Controls (sold separately)

Fixed Position Mounting, Thermal-Type

Model#	Watts Tungsten	VA Ballast	Amps Tungsten	Amps Ballast	Volts
K4021C	1800	1000	15	8.3	120

Stem Mounting, Thermal-Type

Model#	Watts Tungsten	VA Ballast	Amps Tungsten	Amps Ballast	Volts
K4121C	1800	1000	15	8.3	120
K4121M	2000	1800	16.7	15	120
K4421M	1800	1000	15	8.3	120

Stem & Swivel Mounting, Thermal-Type

Model#	Watts Tungsten	VA Ballast	Amps Tungsten	Amps Ballast	Volts
K4221C	1800	1000	15	8.3	120
K4251*	1800	1000	15	8.3	120

* Certified by CSA to US and Canadian Standards.

For more information see pages 21-22.

Field Installed Timer TN111RM40



- 24-Hour Mechanical
- 2 ON / 2 OFF settings per day
- Rated for outdoor use

WP3100C



While-In-Use Outdoor
Outlet Cover

- Install new transformers with while-in-use cover to comply with 2005 NEC.

For more information see page 15.

Professional Grade Transformers



Light Expressions™

E. AL300TPWS

- Heavy-duty 16 ga. stainless steel case
- Built-in photo control option
- Manual ON/OFF switch
- Fully programmable timer
- One set of 300 watt terminal blocks
- Heavy-duty power cord
- 5 Year limited warranty
- Re-settable circuit breaker
- Rain tight enclosure with lifetime limited warranty
- Complete ground shield protection for safe operation. Suitable for use with submersible luminaries or submersible pumps
- Suitable for use with submersible luminaries or submersible pumps
- Meets UL and cCSAus safety standards
- Field Selectable Output Voltage Switch (12V, 13V, or 14V) - One switch per 300W circuit.

F. AL600TPWS

- Heavy-duty 16 ga. stainless steel case
- Built-in photo control option
- Manual ON/OFF switch
- Fully programmable timer
- Two sets of 300 watt terminal blocks
- Heavy-duty power cord
- 5 year limited warranty
- Re-settable circuit breaker
- Rain tight enclosure with lifetime limited warranty
- Complete ground shield protection for safe operation. Suitable for use with submersible luminaries or submersible pumps
- Suitable for use with submersible luminaries or submersible pumps
- Meets UL and cCSAus safety standards
- Field Selectable Output Voltage Switch (12V, 13V, or 14V) - One switch per 300W circuit.

G. AL900TPWS

- Heavy-duty 16 ga. stainless steel case
- Built-in photo control option
- Manual ON/OFF switch
- Fully programmable timer
- Three sets of 300 watt terminal blocks
- Heavy-duty power cord
- 5 year limited warranty
- Re-settable circuit breaker
- Rain tight enclosure with lifetime limited warranty
- Complete ground shield protection for safe operation. Suitable for use with submersible luminaries or submersible pumps
- Suitable for use with submersible luminaries or submersible pumps
- Meets UL and cCSAus safety standards
- Field Selectable Output Voltage Switch (12V, 13V, or 14V) - One switch per 300W circuit.

H. AL300RTW

- Heavy-duty 18 ga. steel housing
- Manual ON/OFF switch
- Fully programmable timer
- One set of 300 watt terminal blocks
- Heavy-duty power cord
- 5 year limited warranty
- Automatic circuit breaker
- Rain tight enclosure
- Complete ground shield protection for safe operation. Suitable for use with submersible luminaries or submersible pumps
- Suitable for use with submersible luminaries or submersible pumps
- Meets UL and cCSAus safety standards

I. AL600TW

- Heavy-duty 18 ga. steel housing
- Manual ON/OFF switch
- Fully programmable timer
- Two sets of 300 watt terminal blocks
- Heavy-duty power cord
- 5 year limited warranty
- Automatic circuit breaker
- Rain tight enclosure
- Complete ground shield protection for safe operation. Suitable for use with submersible luminaries or submersible pumps
- Suitable for use with submersible luminaries or submersible pumps
- Meets UL and cCSAus safety standards

J. AL900TW

- Heavy-duty 18 ga. steel housing
- Manual ON/OFF switch
- Fully programmable timer
- Three sets of 300 watt terminal blocks
- Heavy-duty power cord
- 5 year limited warranty
- Automatic circuit breaker
- Rain tight enclosure
- Complete ground shield protection for safe operation. Suitable for use with submersible luminaries or submersible pumps
- Suitable for use with submersible luminaries or submersible pumps
- Meets UL and cCSAus safety standards



All Intermatic AL Transformers meet UL1838 Standards



Professional Grade Transformers

Light Expressions™



K. AL60TW

- High-impact polymer case
- Manual ON/OFF switch
- Fully programmable timer
- 2 sets of ON/OFF trippers
- Automatic circuit breaker
- Ground shield protection
- Heavy-duty power cord
- 5 year limited warranty
- Rain tight enclosure

L. AL300MTW

TRANSFORMER:

- 300VA (True Watts) multi-tap (12V, 13V, 15V)
- Heavy 18 ga. painted steel housing
- Re-settable circuit breaker
- Heavy duty power cord code compliant for use with submersible luminaries
- Easy hook-up to color coded and labeled leads
- Conduit ready with knockouts
- 10 year limited warranty on transformer

INDEPENDENT DIGITAL SELF ADJUSTING INDOOR TIMER:

- Set it once, no re-setting required
- Automatically adjusts sunrise/sunset times
- Automatically adjusts for daylight savings time
- Battery back-up included
- Easy to read LCD display
- One year limited warranty on timer

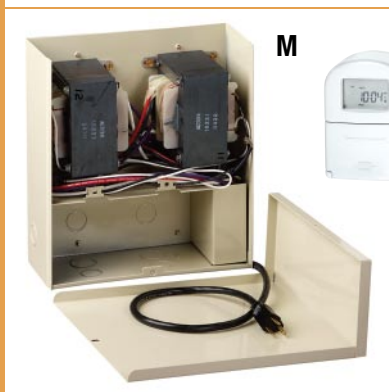
M. AL600MTW

TRANSFORMER:

- 600VA (True Watts) multi-tap (12V, 13V, 15V)
- Heavy 18 ga. painted steel housing
- Re-settable magnetic circuit breakers (2)
- Heavy duty power cord code compliant for use with submersible luminaries
- Easy hook-up to color coded and labeled leads
- Conduit ready with knockouts
- 10 year limited warranty on transformer

INDEPENDENT DIGITAL SELF ADJUSTING INDOOR TIMER:

- Set it once, no re-setting required
- Automatically adjusts sunrise/sunset Times
- Automatically adjusts for daylight savings time
- Battery back-up included
- Easy to read LCD display
- One year limited warranty on timer



N. AL300BW

- High-impact PVC case
- Water tight enclosure, can be buried to ground level
- Can be controlled externally
- Three 1.5" I.D. knockouts for line voltage conduit
- Automatic circuit breaker
- Ground shield protection for safe operation
- 5 year limited warranty



All Intermatic AL Transformers meet UL1838 Standards

Professional Grade Transformers



Light Expressions™

Our Professional Grade Lighting line includes a wide range of weatherproof transformers, low voltage fixtures, specialty insulated cables and a variety of accessories. Intermatic offers an expanded selection of fixtures designed for easy installation. All have the most advanced features that result from our many years of experience in low voltage lighting.



AL111
Well Light with 14W
Poly-Star bulb



AL115
Submersible Light with
20W halogen MR16 bulb



AL375V
Metal Light with 18W
wedge base bulb and
Verde finish



AL385V
Brass Light with 18W
wedge base bulb and
Verde Patina finish



AL395
Brass Light with 18W
wedge base bulb and
Aged Brass finish



AL395V
Brass Light with 18W
wedge base bulb and
Verde Patina finish



AL401
Metal Floodlight with
35W MR16 bulb and
Black finish



AL402
Metal Floodlight with
50W PAR36 bulb and
Black finish



AL402TA
Metal Floodlight with
50W PAR36 bulb and
Textured Architectural
Bronze finish



AL403
Metal Floodlight with
35W Halogen MR16
bulb and Black finish



AL403TA
Metal Floodlight with
35W Halogen MR16
bulb and Textured
Architectural Bronze
finish



Accessories

Low Voltage Cable



AL10210

10/2 100 ft.

AL102-5C

10/2 500 ft.

AL12210

12/2 100 ft.

AL122-5C

12/2 500 ft.



AL8-12

Designed specifically for
weatherproof, outdoor,
hard-wire installations



AL1160

Fixture Ground Stake,
1/2" Female Thread,
Heavy Duty Plastic



Professional Grade Transformers

Light Expressions™



AL405
Brass Light with 18W wedge base bulb and Aged Brass finish



AL407TA
Metal Cone Walk Light with 18W wedge base bulb and Textured Architectural Bronze finish



AL425C
Copper Ellipse Light with 18W wedge base bulb



AL405V
Brass Light with 18W wedge base bulb and Verde Patina finish



AL406
Metal Deck Light with 8W bayonet bulb and Black finish



AL406TA
Metal Deck Light with 8W bayonet bulb and Textured Architectural Bronze finish



AL408TA
Metal Dome Walk Light with 18W wedge base bulb and Textured Architectural Bronze finish



AL409
Metal Bollard Light with 50W MR16 bulb and Black finish



AL409TA
Metal Bollard Light with 50W MR16 bulb and Textured Architectural Bronze finish



AL501
Mini Floodlight with 35W halogen MR16 bulb and Black finish



AL502
Large Floodlight with 50W PAR36 bulb and Black finish



AL502DS
Large Floodlight with 50W PAR36 bulb and Dark Sand finish

Professional Grade Transformers



Light Expressions™



NEW

AL502TA
Large Floodlight with
50W PAR36 bulb and
Architectural Bronze
finish



NEW

AL506
Metal Floodlight with
35W halogen MR16 bulb
and Black finish



NEW

AL510V
Large Brass Floodlight
with 50W PAR36 bulb
and Verde finish



NEW

AL521
Cast Metal Acorn Style
Path Light with 35W
halogen MR16 bulb and
Black finish



NEW

AL550
3 Tier Path Light with
18W wedge base bulb
and Black finish



NEW

AL550DS
3 Tier Path Light with
18W wedge base bulb
and Dark Sand finish



NEW

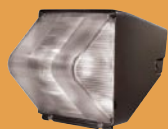
AL550TA
3 Tier Path Light with
18W wedge base bulb
and Architectural Bronze
finish



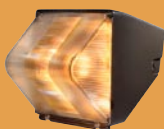


High Intensity Discharge (HID) Lighting

Intermatic's line of HID lighting is the perfect solution for a wide variety of outdoor lighting needs. In addition, Intermatic has a full array of controls and sensors designed to complement any residential, commercial or industrial lighting system.



WL050MH
WL070MH
WL100MH



WL035HPS
WL050HPS
WL070HPS
WL100HPS



WL150MH
WL175MH



WL150HPS



WL250MH



WL250HPS



WL400MH



WL400HPS

Wall Packs

Ideal for: Parking Areas, Entrances, Walkways, Underpasses, Loading Docks, Recreation Areas and

• Suitable for wet locations

• Heavy duty die-cast aluminum powder coating construction

• Corrosion-resistant hardware

• 1/2" tapped holes available for installing photocell (photocell optional)

Part Number	Wattage	Lamp	Voltage	Finish	Lens
WL035HPS	35W	High Pressure Sodium	120V	Bronze	Polycarbonate
WL050HPS	50W	High Pressure Sodium	120V	Bronze	Polycarbonate
			120/208/240/277V		
WL050MH	50W	Metal Halide	Quad Tap*	Bronze	Polycarbonate
			120/208/240/277V		
WL070HPS	70W	High Pressure Sodium	Quad Tap*	Bronze	Polycarbonate
			120/208/240/277V		
WL070MH	70W	Metal Halide	Quad Tap*	Bronze	Polycarbonate
			120/208/240/277V		
WL100HPS	100W	High Pressure Sodium	Quad Tap*	Bronze	Glass
			120/208/240/277V		
WL100MH	100W	Metal Halide	Quad Tap*	Bronze	Glass
			120/208/240/277V		
			120/208/240/277V		
WL150HPS	150W	High Pressure Sodium	Quad Tap*	Bronze	Glass
			120/208/240/277V		
WL150MH	150W	Metal Halide	Quad Tap*	Bronze	Glass
			120/208/240/277V		
WL175MH	175W	Metal Halide	Quad Tap*	Bronze	Glass
			120/208/240/277V		
			120/208/240/277V		
WL250HPS	250W	High Pressure Sodium	Quad Tap*	Bronze	Glass
			120/208/240/277V		
WL250MH	250W	Metal Halide	Quad Tap*	Bronze	Glass
			120/208/240/277V		
			120/208/240/277V		
WL400HPS	400W	High Pressure Sodium	Quad Tap*	Bronze	Glass
			120/208/240/277V		
WL400MH	400W	Metal Halide	Quad Tap*	Bronze	Glass

*NOTE: Fixture is available as 120, 277, 347V Trip Tap Ballast fixtures. Add a "T" suffix to the appropriate part number.



High Intensity Discharge (HID) Lighting



Cut-Off Wall Packs

Ideal for: Buildings, Backyards, Parks, Signs and Sports Fields.

- UL/CUL listed for wet locations
- Reduces light pollution
- Dark Sky compliant with shield
- Multi-tap ballast:
120/208/240/277 Volts
- Heavy duty die cast construction – dark bronze color
- 1/2" tapped holes available for installing photocell (sold separately)
- US brand lamp included

Part Number	Wattage	Lamp	Voltage	Finish	Lens
WLC70HPS	70W	High Pressure Sodium	120V 120/208/240/277V	Bronze	Glass
WLC100HPS	100W	High Pressure Sodium	Quad Tap 120/208/240/277V	Bronze	Glass
WLC100MH	100W	Metal Halide	Quad Tap 120/208/240/277V	Bronze	Glass
WLC150HPS	150W	High Pressure Sodium	Quad Tap 120/208/240/277V	Bronze	Glass
WLC150MH	150W	Metal Halide	Quad Tap 120/208/240/277V	Bronze	Glass
WLC175MH	175W	Metal Halide	Quad Tap 120/208/240/277V	Bronze	Glass
WLC250HPS	250W	High Pressure Sodium	Quad Tap 120/208/240/277V	Bronze	Glass
WLC400HPS	400W	High Pressure Sodium	Quad Tap 120/208/240/277V	Bronze	Glass
WLC250MH	250W	Metal Halide	Quad Tap 120/208/240/277V	Bronze	Glass
WLC400MH	400W	Metal Halide	Quad Tap	Bronze	Glass

Full Cut-Off Wall Packs

Part Number	Wattage	Lamp	Voltage	Finish	Lens
WLFC150HPS	150W	High Pressure Sodium	120/208/240/277V Quad Tap	Bronze	Glass
WLFC150MH	150W	Metal Halide	120/208/240/277V Quad Tap	Bronze	Glass
WLFC175MH	175W	Metal Halide	120/208/240/277V Quad Tap	Bronze	Glass



WLC70HPS
WLC100HPS



WLC100MH



WLC150HPS



WLC150MH
WLC175MH



WLC250HPS
WLC400HPS



WLC250MH
WLC400MH



WLFC150HPS



WLFC150MH
WLFC175MH



High Intensity Discharge (HID) Lighting

Floodlights

Ideal for: Buildings, Backyards, Highway Signs, Outdoor Advertising Boards, Parks and Sports Fields

- UL and CUL listed for wet locations
- Heavy duty die-cast aluminum powder coating construction
- Corrosion-resistant hardware
- High impact-resistant tempered glass
- Lamp holder E-26, UL approved
- Multi-tap ballast: 120/208/240/277 Volts



FL035HPS
FL050HPS
FL070HPS

Part Number	Wattage	Lamp	Voltage	Finish	Lens
FL035HPS	35W	High Pressure Sodium	120V	Bronze	Glass
FL050HPS	50W	High Pressure Sodium	120V	Bronze	Glass
FL070HPS	70W	High Pressure Sodium	120V	Bronze	Glass



FL050MH
FL070MH
FL100MH



FL100HPS

FL050MH	50W	Metal Halide	120/208/240/277V Quad Tap*	Bronze	Glass
FL070MH	70W	Metal Halide	120/208/240/277V Quad Tap*	Bronze	Glass
FL100HPS	100W	High Pressure Sodium	120/208/240/277V Quad Tap*	Bronze	Glass
FL100MH	100W	Metal Halide	120/208/240/277V Quad Tap*	Bronze	Glass



FL150MH
FL175MH



FL150HPS

FL150HPS	150W	High Pressure Sodium	120/208/240/277V Quad Tap*	Bronze	Glass
FL150MH	150W	Metal Halide	120/208/240/277V Quad Tap*	Bronze	Glass
FL175MH	175W	Metal Halide	120/208/240/277V Quad Tap*	Bronze	Glass



FL250MH
FL400MH



FL250HPS
FL400HPS

FL250HPS	250W	High Pressure Sodium	120/208/240/277V Quad Tap*	Bronze	Glass
FL250MH	250W	Metal Halide	120/208/240/277V Quad Tap*	Bronze	Glass
FL400HPS	400W	High Pressure Sodium	120/208/240/277V Quad Tap*	Bronze	Glass
FL400MH	400W	Metal Halide	120/208/240/277V Quad Tap*	Bronze	Glass

*NOTE: Fixture is available as 120, 277, 347V Trip Tap Ballast fixtures. Add a "T" suffix to the appropriate part number.

Dusk-to-Dawn Lights

Ideal for: Perimeter and Security Lighting, Loading Platforms, Barnyards, Parking Lots, Rural Homes, Public Entrances and OFF-Street Parking

- UL listed for wet locations
- Precision die-cast aluminum housing with natural finish
- UV-stabilized PS Lens
- 24" arm
- Dusk-to-dawn with twist-lock photo control
- Mounting hardware included
- Lamp holder E-39, 4KV and UL approved
- 120 Volt fixture

Part Number	Wattage	Lamp	Voltage	Lens	Arm
DD150HPS	150W	High Pressure Sodium	120V	Polycarbonate	24"
DD175MV	175W	Me	No Longer Available	Polycarbonate	24"



No Longer Available

DD175MV



DD150HPS



High Intensity Discharge (HID) Lighting



Quartz Floodlights

Ideal for: Building Facades, Signs, Sports Fields and Emergency and Temporary Floodlighting

- UL and CUL listed for wet locations
- Die-cast aluminum construction
- Tempered door glass
- Hinged front door
- 1/2" threaded swivel mount
- Dark bronze finish
- 120 Volt fixture

Part Number	Wattage	Lamp	Voltage	Finish	Lens
FL150Q	150W	Quartz Halogen	120V	Bronze	Glass
FL300Q	300W	Quartz Halogen	120V	Bronze	Glass
FL500Q	500W	Quartz Halogen	120V	Bronze	Glass



FL150Q



FL300Q
FL500Q

Canopy Lights

Ideal for: Parking Areas, Entrances, Walkways, Underpasses, Loading Docks and Recreation Areas

- UL listed for wet locations
- Heavy duty die-cast aluminum powder coating construction
- High impact polycarbonate lens
- Corrosion-resistant hardware
- 1/2" tapped holes available for installing photocell (photocell optional)
- multi tap ballast: 120/208/240/277 Volts

Part Number	Wattage	Lamp	Voltage	Finish	Lens
			120/208/240/277V		
CP150HPS	150W	High Pressure Sodium	Quad Tap	Bronze	Polycarbonate
			120/208/240/277V		
CP150MH	150W	High Pressure Sodium	Quad Tap*	Bronze	Polycarbonate

*NOTE: Fixture is available as 120, 277, 347V Trip Tap Ballast fixtures. Add a "T" suffix to the appropriate part number.



CP150HPS



CP150MH

Wall Fixture with Photocell

Ideal for: Parking Areas, Entrances, Walkways, Underpasses, Loading Docks and Recreation Areas

- UL listed for wet locations
- High-impact polycarbonate lens and housing
- Aluminum baseplate with conduit access
- Corrosion-resistant hardware
- 120 Volt installed photocell included
- Multi-tap ballast: 120 Volt fixture

Part Number	Wattage	Lamp	Voltage	Finish	Lens
WL070HPSPC	70W	High Pressure Sodium	120V	Bronze	Polycarbonate



WL070HPSPC





High Intensity Discharge (HID) Lighting

FL150QMSW



Ideal for: Entries, Patios, Porches, Garages and Out Buildings

- UL and CUL listed for wet locations
- Distortion free lens
- Built in surge protection
- Manual override
- 150 W halogen max (bulb included)
- Voltage — 120V/60Hz
- Wall mount
- Adjustable "ON" time

Part Number	Wattage	Description	Voltage	Finish	Lamp Included
FL150QMSW	150W	Dual Sensor Motion Detection Security Light	120V	White	Yes

FL300MSW



Ideal for: Buildings, Backyards, Parks, Signs and Sports Fields

- UL and CUL listed for wet locations
- Distortion free lens with two detection planes
- Built in surge protection
- Manual override
- Voltage — 120V/60Hz
- Wall mount and soffit/eave mount applications
- Adjustable "ON" time

Part Number	Wattage	Description	Voltage	Finish	Lamp Included
FL300MSW	300W	Motion Detection Security Light	120V	White	No



HLMSW

Ideal for: Lighting, Alarms, Video Cameras, Fans and Electrical Appliances

- UL and CUL listed for wet locations
- Distortion free lens with two detection planes
- Built in surge protection
- Manual override
- Voltage — 120V/60Hz
- Wall mount and soffit/eave mount applications
- Adjustable "ON" time

Part Number	Wattage	Description	Voltage	Finish	Lamp Included
HLMSW	300W	Motion Detection Security Switch	?	White	N/A

VPXG-11-CGI



Vapor Tight Fixtures

Ideal for: Use in severe service areas where extreme conditions prevail; Subways, Construction Sites, Bridges, Tunnels, Freezers, Waste Water & Sewage Treatment Plants

- Rugged, seamless, die-cast construction prevents moisture to enter
- Powder coat finish for maximum durability
- Industrial grade, fully enclosed and gasketed
- Heat resistant glass globes

Part Number	Wattage	Lamp	Voltage	Glass Globe	Cast Guard
VPXG-11-CGI	100W	Not included	120	Yes	Yes
VPKG-11-CGI	100W	Not included	120	Yes	Yes
VWG-01-CGI	100W	Not included	120	Yes	Yes

VPKG-11-CGI



VWG-01-CGI



POOL & SPA



Helping Maintain the Luxuries of Life

Few things exceed the pleasure of a refreshing dip in the pool on a hot summer day or a relaxing soak in the hot tub on a chilly evening. Intermatic helps maintain these luxuries with a variety of reliable controls, which combine economy and flexibility in a single enclosure.

Too often, as technology advances, controlling that technology becomes exceedingly complex. Intermatic has made a commitment to provide its customers with controls that are as easy to install as they are to use. While maintaining its reputation for reliability, Intermatic designs innovative pool and spa controls that are powerful and intuitive.

Providing simple, focused controls allows the consumer to purchase only the features they need for their application – saving money and easing frustration. Intermatic's products are flexible and designed to work together cohesively in an endless number of scenarios. Intermatic controls reduce installation costs and maintain consistent performance for aeration, freeze protection, lighting and pumping year after year.



Salt Chlorine Generators



PE40K240V



Cell Features

The I-Pure system utilizes plates that are specially coated to convert regular table salt into natural chlorine. The system uses the most advanced self-cleaning technologies, including reversed polarity, which allows the Cell to stay cleaner and last longer than other self-cleaning cells. The clear Cell also allows for easy regular inspections for calcium build-up.



PE25KCELLPE40KCELL

PE25 & PE40 Series

I-Pure Stand Alone Salt Chlorine Generator

While traditional Salt Chlorine Generators can be difficult to manage and operate, the new I-Pure Salt Chlorine Generator takes the hassle out of sanitizing pools and spas. The I-Pure system produces more chlorine than other Salt Chlorine Generators and provides homeowners with easy-to-use, high quality sanitation at a competitive price.

Designed for pools up to 25,000 gallons or 40,000 gallons, the I-Pure Stand Alone Salt Generator's self-adjustable control allows users to increase or decrease chlorine production with ease. The simplified controls of the I-Pure deliver easy pool maintenance.

Applications

- Residential Pools
- Commercial Pools
- Water Features
- Fountains

Specifications

Case — 15.0" (38.3 cm) high x 10.5" (26.8 cm) wide x 4.5" (11.4 cm) deep.

Voltage: 120VAC or 240VAC (See Below)

Shipping Weight: See Chart

Agency Approval: ARL

Checklist for proper operation:

- Salt** 3000 to 4000 ppm
- Free Chlorine** 1 to 3 ppm
- PH** 7.2 to 7.8
- Total Alkalinity** 80 to 180 - adjust per calcium hardness level
- Stabilizer (Cyanuric Acid)** 60 - 80
- Nitrates** 0 ppm
- Metals** 0 ppm
- Phosphates** 0 ppm
- Calcium Hardness** Determine level for individual pool surface
- Saturation Index** -0.3 to 0.3 (0 is ideal)

Model	Max Gallons	Volts 60 Hz	Shipping Weight
PE25K120V	25,000	120	22.0 lbs (9.9 kg)
PE25K240V	25,000	208-240	22.0 lbs (9.9 kg)
PE40K120V	40,000	120	22.0 lbs (9.9 kg)
PE40K240V	40,000	208-240	22.0 lbs (9.9 kg)

I-Pure Demo Kits

PEDCHLR - Empty I-Pure shell only

PEDCELL - Empty I-Pure cell only



PE1500RC Series Mini-Wave Wireless Pool/Spa Control Panels



For pool/spa combinations or pool/water feature combinations, the PE1541RC controls four circuits, two PE24VA valve actuators, Wireless Panel Mounted Transceiver (PE650) and Hand-Held Transceiver (PE950), which allows the system to display the status of each of the four on-demand circuits, pool and spa water temperature, pool and spa thermostat set point, heating status and overall communication status. PE1501RC does not include actuators and is designed for pool or spa applications.

Applications

- Pool & Spa Lighting
- Pool / Water Feature Applications
- Landscape Lighting
- Garden & Fountain Applications

PE1500RC

Case – 22" (55.9 cm) high x 14-3/4" (37.5 cm) wide x 4-1/4" (10.8 cm) deep, 0.048" steel with light beige finish.
Knockouts – One 1.09 diameter through hole, six combination 1/2"-3/4" knockouts, 2 combination 3/4", 1", 1-1/4" knockouts, four 1/2" knockouts on the bottom. Two combination 1/2"-3/4" knockouts on the left side and four combination 1/2"-3/4" knockouts, two combination 3/4"-1" on the back. One knockout 1-3/4" x 2-3/4" on the right side for mounting switches or GFCI.

Panel Rating – 100 Amp 120/240 VAC or 120/208 VAC single phase

Switch Rating – 17A Resistive, 120/240 VAC., 50/60 Hz; 1.5 HP @ 120 VAC., 50/60 Hz; 3.0 HP @ 240 VAC., 50/60 Hz; 10 Amp Tungsten, 120/240 VAC, 50/60 Hz

Shipping Weight – 24.3 lbs. (10.9 kg)

Agency Approval – CSA/C-US

Model #	Description/Mechanism	Circuits	Actuators	Switch	Clock Supply Volts 60 Hz
PE1541RC	PB313E	4	2	4-SPST	120 or 240
PE1501RC	PB313E	4	None	4-SPST	120 or 240



PE1541RC



PE1501RC



Digital Wireless Controls

PE40000 Series

I-Wave Wireless Pool/Spa Control

Intermatic's wireless pool and spa controls utilize ground-breaking Z-wave™ technology. While some controls communicate transmission problems, Intermatic's wireless devices allow total and uninterrupted communication between the controller and the equipment.

Intermatic's modular approach provides for added diversity and convenience. Modules are capable of working independently or within a system. Portions can be added or replaced without interfering with the original system, and each system can be designed to incorporate as many or as few features as needed to accomplish the task at hand – making Intermatic the most value added and cost-effective choice.

All I-Wave Models include wireless transmitter and receiver, two PE24VA valve actuators, five total circuits (three timed and two on demand), two-speed control, water temperature display, heater temperature control, fireman switch, freeze protection and 125 Amp breaker base.

Applications

- Pool/Spa combinations
- Water features
- Fountains

Specifications

Case — 26.0" (66.3 cm) high x 18.0" (45.9 cm) wide x 5.5" (14.0 cm) deep, 0.048" steel with electrostatically applied light beige finish.

Knockouts: Two combination 3/4"-1"-1-1/4" and eleven combination 1/2"-3/4" knockouts on the bottom. Two 3/4"-1" combination and four combination 1/2"-3/4" knockouts on the back. Low voltage compartment has two combination 1/2"-3/4" knockouts and one 3/4" hole with a shutter bushing installed. Two combination 3/4"-1" and one combination 1/2"-3/4" knockouts. One 1-3/4" x 2-3/4" knockout on the right side.

Switch Rating: P1353ME and P4243ME – see page 121



PE45343RC

Model	Mechanisms	Switch	Transformer	Volts 60Hz	Shipping Weight
PE45343RC	P1353ME and P4243ME	5 - SPST	None	120 or 208-240	44.0 lbs.
PE45343RCT1	P1353ME and P4243ME	5 - SPST	100 Watt	120 or 208-240	51.0 lbs
PE45343RCT3	P1353ME and P4243ME	5 - SPST	300 Watt	120 or 208-240	56.0 lbs
PE650	Wireless Receiver	–	–	–	5.5 lbs
PE950	Wireless Transmitter	–	–	–	5.5 lbs



PE950



PE650





I-Wave Mechanisms — Three Circuit Clock P1353ME

Designed as part of the I-Wave system and for aftermarket and retro-fit applications, the P1353ME can be installed into almost any Intermatic enclosure and has the ability to program up to three circuits. Choose between six pre-programmed modes of operation, which include single speed pump or 2-speed pump/cleaner pump combinations. In addition, programmed modes that include auxiliaries can control pumps up to 3 HP as well as underwater, landscape and/or fountain lighting. Countdown and Override features allow cycle interruptions when pool/spa service is required. All timing and protection associated with filter pump/cleaner pump combinations and two-speed pumps has already been integrated into the software.

- 120 or 208-240 volt input voltage
- Memory backup
- Freeze protection
- Heater protection (fireman switch)
- LCD readout
- Three ON/OFF events per day per circuit
- Shipping weight - 3 lbs (1.4 kg)
- Agency approval - CSA/C-US

CONTACT RATINGS — EACH CIRCUIT, ALL MODES

- 20A Resistive, 120/240 VAC., 50/60 Hz
- 20A FLA@120 VAC, 96A LRA@120 VAC, 50/60 Hz
- 17A FLA@240 VAC, 80A LRA@120 VAC, 50/60 Hz
- 5 Amps Tungsten, 120/240 VAC, 50/60 Hz
- 5 Amps Ballast, 120/240 VAC, 50/60 Hz

Valve/Pump Switch — P4243ME

Designed as part of the I-Wave system and for aftermarket and retro-fit applications, the P4243ME is most suited for controlling up to two different circuits associated with pool/spa combinations but can also be used to control all the equipment typically needed in connection with water features, water gardening, solar heating and other similar applications. This unit snaps into almost any Intermatic enclosure and controls pumps up to 3HP, 24 volt supply for up to three valve actuators, automatic HIGH/LOW water temperature selector, heater connection circuit and push button control for each load with indicator lights on the face of switch. In addition, the unit has connections for a hard wired or wireless remote and a master switch controller.

- 120 or 208-240 volt input voltage
- Controls up to three valve actuators
- Controls two circuits
- Switches heater thermostat
- Remote control capabilities
- Shipping weight - 3 lbs (1.4 kg)
- Agency approval - CSA/C-US

CONTACT RATINGS — EACH CIRCUIT

- 17A Resistive, 120/240 VAC., 50/60 Hz
- 1.5 HP @ 120 VAC., 50/60 Hz
- 3.0 HP @ 240 VAC., 50/60 Hz
- 10 Amp Tungsten, 120/240 VAC, 50/60 Hz
- Valve Actuator Supply: 24VAC 40VA

Mode 1 – (Aux1, Aux2, Aux3)

The time switch is 3-circuit switch with all three switches controlling auxiliary devices.

Mode 2 – (Pump High, Pump Low, Aux3)

The time switch is a 2-circuit switch with the 1st & 2nd switch controlling a two-speed pump. The 3rd switch is controlling any auxiliary device. All protection associated with a two speed pump is preprogrammed into this mode.

Mode 3 – (Pump, Aux2, Cleaner Pump)

The time switch is a 3-circuit switch with the 1st switch controlling a single speed pump, the 2nd switch controls any auxiliary device, and the 3rd switch operates a booster/cleaner pump. All timing & protection associated with a filter pump/cleaner pump combination is preprogrammed into this mode.

Mode 4 – (Pump High, Pump Low, Cleaner Pump)

The time switch is a 2-circuit switch with the 1st & 2nd switch controlling a 2-speed pump. The 3rd switch is controlling a booster/cleaner pump. All protection associated with a 2-speed pump and booster/cleaner pump combination is preprogrammed into this mode.

Mode 5 – (Pump L1, Pump L2, Aux3)

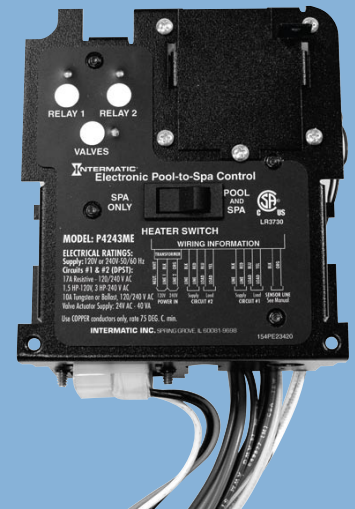
The time switch is a 2-circuit switch with the 1st & 2nd switch controlling a 240V pump, where both L1 & L2 are required to be disconnected when the pump is OFF. The 3rd switch is controlling any auxiliary device.

Mode 6 – (Aux1, Aux2, Aux3)

Identical to Mode 1, in which each of the three single pole circuits are defined generically and can control any load within each of its individual circuit ratings, with all three circuits acting independent of each other. However, with Mode 6, the fireman switch closes only when circuit 1 (the filter pump) is manually turned on — not when the clock turns it ON. This mode is useful when you have Circuit 1 connected to a circulation pump in the spa. When the spa is not in use, the clock circulates the water to filter it, but does not turn ON the heater. When the spa is in use, the heater is also turned ON by manually



P1353ME



P4243ME



Digital Control Accessories



PE650

I-Wave Remote Controls Panel Mounted Transceiver (PE650) with Antenna (PA118)

Utilizing ground breaking Z-Wave technology, Intermatic's Wireless Panel Mounted Transceiver and Hand-Held Transceiver provides for reliable two-way communication and long range ability that is unmatched by any other wireless protocols.

The main function of the Panel Mounted Transceiver is to take commands from the Wireless Hand Held Transceiver (PE950) and hand them off to two mechanisms (P1353ME and/or P4243ME).

This unit can control:

- One P1353ME unit and one P4243ME unit
- One or Two P1353ME units
- One or Two P4243ME units
- Gas or Electric heater Thermostat

In cases where the two devices are too far apart for direct communication, a Transceiver Repeater Module (HA04C) can be installed and will relay commands between the two devices. You can also purchase a (PA121) 35-ft. Antenna Extension Cable Assembly when structures impede transmissions between the Panel Mounted Transceiver and Hand Held Transceiver.



PE950

Wireless Hand-Held Transceiver (PE950)

The main function of the Wireless Hand-Held Transceiver is to transmit user commands to the Panel-Mounted Transceiver (PE650) and display the status of the equipment, pool and spa water temperature, pool and spa thermostat set point, heating status and overall communication status. The device can control up to five loads, typically:

- The three loads in the Three-Circuit Clock
- The two relays in the Valve/Pump Switch, usually water temperature controls for pool/spa
- The actuators that switch between pool and spa

The unit floats if thrown in the pool or spa, is water-submersible, shock resistant and requires three (3) AA batteries. Expected battery life is approximately one year in typical use.

The Wireless Hand-Held Transceiver (PE950) can only communicate with the Panel-Mounted Transceiver (PE650) and Transceiver Repeater Module (HA04C) and is compatible with no other hardware. In addition, when the components of a specific system are linked together into a network, communication with another neighboring system cannot occur. Up to five PE950 units can be used in a single installation.



133PE1484A

Three-Button Wired Remote Control (133PE1484A)

The Three-Button Wired Remote Control (133PE1484A) plugs into either the Three-Circuit Clock (P1353ME) or Valve/Pump Switch (P4243ME) and is normally installed as a spa-side remote. Most often the remote controls the filter pump, jets and lights, plus includes indicator lights on the face of the button. When installed as part of a system, it replaces the wireless method of controlling the three circuits within the mechanism. The Three-Button Wired Remote Control can also be installed where a third mechanism is needed in the enclosure, since the Wireless Hand-Held Transceiver (PE950) can only control two mechanisms.



I-Wave Accessories

Water Temperature Sensor (PA122)

The Intermatic Water Temperature Sensor (PA122) installs in the inlet side of the heater and monitors both pool and spa water temperature, depending on the position of the diverter valves. Installation is necessary for the thermostatic control to work. The sensor plugs into the Panel Mounted Transceiver (PE650) and the water temperature is displayed on the Hand-Held Transceiver (PE950).



PA122

Freeze (Air Temperature) Sensor (178PA28A)

Add the Intermatic Freeze or Air Temperature Sensor (178PA28A) to installations where below-freezing outdoor temperatures are a concern. The sensor is designed to protect the pool and spa equipment and plumbing against freeze damage. The sensor plugs into the circuit board on the back of the P1353ME and turns ON the filter pump when air temperature drops below the programmed temperature. The freeze programming mode will not appear unless the sensor is plugged into the clock.



178PA28A

35-ft. Antenna Extension Cable Assembly (PA121)

When a structure impedes transmission between the Panel-Mounted Transceiver (PE650) and Handheld Transceiver(s) (PE950), you can use the 35-ft. Antenna Extension Cable Assembly (PA121) to relocate the antenna from the Panel-Mounted Transceiver to the area of operation, ensuring that communication between the Hand-Held unit and the control center is successful.



Antenna Extension Cable Accessory
PA121

Transceiver Repeater Module (HA04C)

The Transceiver Repeater Module (HA04C) ensures that no problems in reception occur between the Hand-Held Controller(s) (PE950) and the Panel-Mounted Transceiver (PE650). Reception is affected by distance (about 100 feet, direct line of sight) and by physical obstacles (like brick walls or structures). However, by plugging in a Transceiver Repeater Module where necessary, long distances or physical obstructions can be overcome.



HA04C

Model #	Description	Case Qty.	Case Weight
PA122	Water temperature sensor	1	0.3 lbs. (0.1 kg)
178PA28A	Freeze sensor	1	0.3 lbs. (0.1 kg)
PA121	Antenna extension	1	3.0 lbs. (0.1 kg)
HA04C	Repeater module - outdoor	6	4.5 lbs. (2.0 kg)
PA120	Relay - DPST, 24VAC coil	1	0.4 lbs. (0.2 kg)
143T145A	Relay - DPST, 24VDC coil	1	0.4 lbs. (0.2 kg)



143T145A

PA120



Digital Controls



PE100 Series

Mini PE Series Digital Pool or Spa Controls

Intermatic's Mini-PE Series Digital Controls couple the standard features of our compact T100 Series mechanical time switches with the convenience of digital automation. One of Intermatic's latest innovations, the P1353ME allows the ability to program up to three circuits. Beyond single and two-speed pump/booster pump applications, auxiliary modes can control pumps up to 3HP as well as underwater, garden and/or fountain lighting.

Countdown and override features allow cycle interruptions when pool/spa service is required. All timing and protection associated with filter pump/booster pump combos and two-speed pumps has already been integrated into the digital software. The Mini-PE Series is available in both metal and plastic enclosures and with a wired remote command, freeze probe or both. See chart below for details.

Intermatic makes it simple to convert your Mini-PE Series Digital Control into a Wireless Control System. Simply install a Panel Mounted Transceiver (PE650) and Hand-Held Transceiver (PE950) to any Mini-PE Series control, which allows the system to display the status of each of the three circuits as well as pool or spa water temperature, pool or spa thermostat set point, heating status and overall communication status.

Applications

- Single Speed Pump/Booster Pump Combos
- Two-Speed Pump/Booster Pump Combos
- Water Feature Applications
- Garden & Fountain Applications
- Pool & Spa Lighting
- Landscape Lighting

Specifications

Case – NEMA 3R rated for indoor-outdoor installation. 9-3/8" (23.8 cm) high, 5-1/2" (14.0 cm) wide, 3-5/8" (9.2 cm) deep in beige finish. "P" suffix models are same dimensions, except made from outdoor grade plastic.

Knockouts – Combination 1/2" – 3/4" nominal knockouts, one on back and each side of case and two on bottom.

Switch Rating (each circuit) – 20 Amp Resistive, 120/240 VAC, 50/60 Hz; 20 Amp FLA @ 120 VAC, 96 Amp LRA @ 120 VAC, 50/60 Hz; 17 Amp FLA @ 240 VAC, 80 Amp LRA @ 240 VAC, 50/60 Hz; 5 Amp Tungsten, 120/240 VAC, 50/60 Hz; 5 Amp Ballast, 120/240V VAC, 50/60 Hz

Shipping Weight – 3.7 lbs (1.7 kg)

Agency Approval – CSA/C-US



PE153



PE153W



PE153F



PE153WF

Model #	Description	Switch	Clock Supply
PE153	Digital Time Clock in Metal Enclosure	3 - SPST	120 or 240V
PE153W	Digital Time Clock in Metal Enclosure with 100' Wired Remote Command	3 - SPST	120 or 240V
PE153F	Digital Time Clock in Metal Enclosure with Freeze Protection Probe	3 - SPST	120 or 240V
PE153WF	Digital Time Clock in Metal Enclosure with 100' Wired Remote Command & Freeze Protection Probe	3 - SPST	120 or 240V
PE153P	Digital Time Clock in Plastic Enclosure	3 - SPST	120 or 240V
PE153PW	Digital Time Clock in Plastic Enclosure with 100' Wired Remote Command	3 - SPST	120 or 240V
PE153PF	Digital Time Clock in Plastic Enclosure with Freeze Protection Probe	3 - SPST	120 or 240V
PE153PWF	Digital Time Clock in Plastic Enclosure with 100' Wired Remote Command & Freeze Protection Probe	3 - SPST	120 or 240V

NOTE: See page 122 for PE650 and PE950 specifications and page 121 for P1353ME specifications



PE Series Digital Controls



For pool, spa or water feature applications, the I-Wave PE3 Series Wireless Control System includes one P1353ME mechanism that controls a total of three timed circuits, including single speed or two-speed filter pumps, cleaner/booster pumps, pool lights, spa lights and landscape lights. Countdown and override features allow programs to be interrupted for service and automatically resumed without reprogramming your system.

Intermatic makes it simple to convert your PE Series Digital Control into a Wireless Control System. Simply install a Panel Mounted Transceiver (PE650) and a Hand-Held Transceiver (PE950) to any PE Series Control, which allows the system to display the status of each of the three circuits as well as pool or spa water temperature, pool or spa thermostat set point, heating status and overall communication status.

PE25300RC comes complete with Wireless Panel Mounted Transceiver and Hand-Held Transceiver.

Applications

- Single Speed Pump/Booster Pump Combos
- Two-Speed Pump/Booster Pump Combos
- Pool & Spa Lighting
- Water Feature Applications
- Garden & Fountain Applications
- Landscape Lighting

PE25300 / PE25300RC

Case – 16-1/2" (41.9 cm) high x 10-7/8" (27.6 cm) wide x 4-1/4" (10.8 cm) deep, 0.048" steel with electrostatically applied light beige finish.

Knockouts – One 1.09 diameter through hole, six combination 1/2"-3/4" knockouts, and three combination 3/4"-1" knockouts on the bottom. Two combination 1/2"-3/4" on the left side and one combination 3/4"-1" on the back. One knockout 1-3/4" x 2-3/4" on the right side for mounting switches or GFCI.

Panel Rating – 60 Amp 120/240 V.A.C or 120/208 VAC single phase

Switch Rating – P1353ME - See page 121

Agency Approval – CSA/C-US

PE35300

Case – 22" (55.9 cm) high x 14-3/4" (37.5 cm) wide x 4-1/4" (10.8 cm) deep, 0.048" steel with light beige finish.

Knockouts – One 1.09 diameter through hole, six combination 1/2"-3/4" knockouts, 2 combination 3/4", 1", 1-1/4" knockouts, four 1/2" knockouts on the bottom. Two combination 1/2"-3/4" knockouts on the left side and four combination 1/2"-3/4" knockouts, two combination 3/4"-1" on the back. One knockout 1-3/4" x 2-3/4" on the right side for mounting switches or GFCI.

Panel Rating – 80 Amp 120/240 VAC or 120/208 VAC single phase

Switch Rating – P1353ME - See page 121

Agency Approval – CSA/C-US

Model #	Description/Mechanism	Switch	Clock Supply Volts 60 Hz	Shipping Weight
PE25300	P1353ME	3-SPST	120 or 240	14.0 lbs (6.3 kg)
PE25300RC	P1353ME	3-SPST	120 or 240	15.0 lbs (6.8 kg)
PE35300	P1353ME	3-SPST	120 or 240	19.0 lbs (8.6 kg)



PE25300



PE25300RC



PE35300



Electronic Time Switches

P1000 & P7000 Series Electronic Time Switches and Mechanisms

This line of electronic time switches in safety enclosures are specially suited for applications where a need to turn equipment up to 8 ON and OFF cycles daily, and where the automatic operation of the equipment requires occasional override by someone other than a qualified service professional. Electronic technology allows up-to-the-minute programming accuracy. The unique "door within the door" provides safe access to the timer control buttons, but prevents entry into the wiring compartment. Light indicator illuminates when timer is in ON position. An override feature is provided to allow pool service without interruption of ON-OFF settings. Select feature allows timer to be continuously ON, OFF or in Auto mode. The addition of a radio receiver (Model P1203FR) provides a 2nd circuit for any other load (light, blower etc.) requiring control from a remote location. Typical application for the clock circuit would be the pool pump, and a pool light for the radio circuit. In case of power failure, a replaceable battery preserves programming for up to three years.



P1102ME



P1102FE



P1203FR

Applications

- Filter pumps
- Pool/Spa lights
- Water Features
- Fountains

Specifications

Case – All plastic NEMA 3R rated for indoor-outdoor installation. 9-3/8" (23.9 cm) H, 5-1/2" (14.0 cm) W, 3-5/8" (9.2 cm) D in beige finish.

Knockouts – Combination 1/2" - 3/4" nominal knockouts, (1) on back and each side of case, and (2) on bottom.

Rating – P1102FE - 3.0 HP @ 240V, 30 Amp resistive; P1203FR - 1.5 HP @ 120V, 3.0 HP @ 240V, 30 Amp resistive; **Radio Circuit** – 15 Amp resistive, 10 Amp Tungsten, 1 HP motor load - 120 VAC

Shipping Weight – 3.75 lbs (1.7 kg)

Agency Approval – CSA/C-US

Model Number	Description	Switch	Supply Voltage 50/60 Hz
P1102ME	24-Hour Electronic Mechanism Only	One DPST	240V only clock & load
P1103ME	24-Hour Electronic Mechanism Only	One DPST	120V for clock 120V or 240V only clock & load
P7101ME	7-Day Electronic Mechanism Only	One DPST	120V only clock & load
P7102ME	7-Day Electronic Mechanism Only	One DPST	240V only clock & load
P7103ME	7-Day Electronic Mechanism Only	One DPST	120V for clock 120V or 240V only clock & load
P1102FE	24-Hour Electronic Time Switch	One DPST	240V only clock & load
P1103FE	24-Hour Electronic Time Switch	One DPST	120V for clock 120V or 240V only clock & load
P1203FR	24-Hour Electronic Time Switch Radio Receiver Module	One DPST One SPST	3.0 HP - 208-240V only clock & load 120V only receiver & load



T100M Series 24 Hour Mechanical Time Switch Mechanisms

These heavy duty Time Switch Mechanisms are designed for industrial, commercial and residential applications, and have the highest motor load ratings in the industry. They provide up to 12 ON-OFF operations each day with minimum ON-OFF time of 1 hour. All models are equipped with "ON" and "OFF" trippers and can be installed in almost all Intermatic enclosures.

Applications

- Filter pumps
- Heat pumps
- Lighting

Specifications

Switch Rating: 40 Amp Resistive each pole 120-480 VAC; 40 Amp Tungsten, inductive or 1000 VA pilot duty each pole 120-277 VAC; 2 HP (24 FLA) 120 VAC; 5 HP (28 FLA) 240 VAC.

Shipping Weight: See Table

Agency approval: CSA/C-US

Model #	Description/Mechanism	Switch	Clock Supply Volts 60 Hz	Shipping Weight
T101M	Mechanism only	SPST	120	1.4 lbs (0.6 kg)
T102M	Mechanism only	SPST	208-277	1.4 lbs (0.6 kg)
T103M	Mechanism only	DPST	120	1.4 lbs (0.6 kg)
T104M	Mechanism only	DPST	208-277	1.4 lbs (0.6 kg)
T106M	Mechanism only for 2-speed pump apps	SPDT	208-277	1.4 lbs (0.6 kg)

Note: See page 128 for available metal and plastic enclosures



T104M

T100M201 Series 24 Hour Mechanical Time Switch Mechanism with Heater Protection

This Time Switch Mechanism provides coordinated control for heater and filter pump operations. It is designed to turn OFF a gas fired swimming pool heater approximately 20 minutes before the filter pump shuts down. This eliminates the problem of pounding and knocking due to overheated water, reduces scale and lime deposits and extends the service life of the heater. The 24-hour dial allows up to 12 ON-OFF operations each day. One set of "ON" and "OFF" trippers are supplied with each switch. Minimum ON-OFF time is one hour. Additionally, this mechanism can be installed in almost all Intermatic enclosures.

Applications

- Pool and/or spa pumps with gas fired heaters

Specifications

Switch Rating: 40 Amp Resistive each pole 120-480 VAC; 40 Amp Tungsten, inductive or 1000 VA pilot duty each pole 120-277 VAC; 2 HP (24 FLA) 120 VAC; 5 HP (28 FLA) 240 VAC.

Heater Control Circuit: 10 Amp, 240V. max

Shipping Weight: See Table

Agency approval: CSA/C-US

Model #	Description/Mechanism	Switch	Clock Supply Volts 60 Hz	Shipping Weight
T104M201	Mechanism only with heater protection	DPST	208-277	1.4 lbs (0.6 kg)

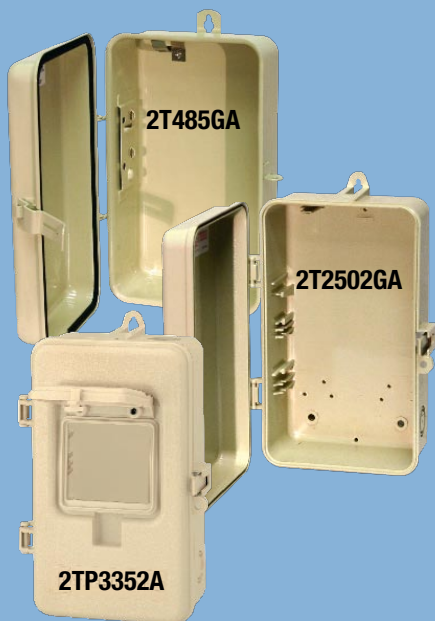
Note: See page 128 for available metal and plastic enclosures



T104M201



Mechanical Time Switches



T100 Series Pool/Spa Time Switches

These heavy duty Mechanical Time Switches are designed for industrial, commercial and residential applications and have the highest motor load ratings in the industry. They provide up to 12 ON-OFF operations each day with a minimum ON-OFF time of 1 hour. All models are equipped with "ON" and "OFF" trippers and they are available in either plastic or metal indoor/outdoor enclosure.

T100R201 and T100P201 Series Time Switches are designed to turn OFF a gas fired swimming pool heater approximately 20 minutes before the filter pump shuts down. This eliminates the problem of pounding and knocking due to overheated water, reduces scale and lime deposits and extends the service life of the heater.

Applications

- Booster pumps
- Fans
- Heat pumps
- Lighting
- Air conditioning
- Swimming pool and/or spa filter pumps with gas fired heaters
- Hydrochlorinators
- Music and signal system

Specifications

Case: NEMA 3R rated for indoor-outdoor installation. 0.034" drawn steel 9-3/8" (23.8 cm) H, 5-1/2" (14.0 cm) W x 3-5/8" (9.2 cm) D in beige finish. "P" models are the same as above, except made from outdoor grade plastic.

Knockouts: Combination 1/2"-3/4" nominal knockouts, (1) on back and each side of case and (2) on bottom.

Switch Rating: 40 Amp Resistive each pole 120-480 VAC; 40 Amp Tungsten, inductive or 1000 VA pilot duty each pole 120-277 VAC; 2 HP (24 FLA) 120 VAC; 5 HP (28 FLA) 240 VAC.

Heater Protection Circuit: 10 Amp, 240 V. max.

Shipping Weight: 3.75 lbs (1.7 kg)

Agency Approval: CSA/C-US

Model #	Description	Switch	Clock Supply Volts 60Hz
2T485GA	Metal enclosure only	None	NA
2T2502GA	Plastic enclosure only	None	NA
2TP3352A	Plastic enclosure only with safety door	None	NA
T101P3	Time switch in plastic enclosure	SPST	120
T104P3	Time switch in plastic enclosure	DPST	208-277
T101R3	Time switch in metal enclosure	SPST	120
T104R3	Time switch in metal enclosure	DPST	208-277
T101P201*	Time switch in plastic enclosure w/heater protection	SPST	120
T104P201*	Time switch in plastic enclosure w/heater protection	DPST	208-277
T101R201*	Time switch in metal enclosure w/heater protection	SPST	120
T104R201*	Time switch in metal enclosure w/heater protection	DPST	208-277

*The heater protection switch (fireman switch) is closed when the time switch contacts are open to allow remote operation of the heater. A flow or pressure switch therefore must always be part of the heater control circuit.

For additional trippers (1 ON / 1 OFF per pack), order No. 156T1978A.

For additional "OFF" trippers (25 "OFF" per pack), order No. PA115

Note: See pages 121 and 127 for a detailed list of replacement mechanisms.



T10000R Series Pool & Spa Control Centers



The T10000R Series Control Centers feature an all-weather enclosure and contain one or two heavy duty timer mechanisms. In addition, they have provision to install switches or GFCI receptacle on the side and additional switches inside. The enclosure accepts any combinations of P1353ME or P4243ME or T100M or RC2000M or PF1000M Series mechanisms.

Applications

- Filter Pumps-Booster Pump Combinations
- Filter Pump-Light Controls
- Pool-Spa Combinations
- Yard Lighting
- Signs

Specifications

Case – 12" (30.5 cm) H x 12" (30.5 cm) W x 4-1/4" (10.8 cm) D, 0.048" steel with electrostatically applied light beige finish.

Knockouts – Five combination 1/2"-3/4" and two combination 3/4"-1" knockouts on the bottom.

One combination 1/2"-3/4" on the left side and one combination 3/4"-1" on the back.

One knockout 1-3/4" x 2-3/4" on the right side for mounting switches or GFCI.

Center Rating – 92 Amp per leg, 168 Amp Max. 120-240 VAC or 120-208 VAC single phase - 60 Hz

Time Switch Rating – 30 Amp Resistive Inductive, Tungsten or 1000 VA pilot duty each pole 120/208/240 VAC; 2 HP (24 FLA) - 120 VAC; 5 HP (28 FLA) - 240 VAC

Shipping Weight – See Table.

Agency Approval – CSA/C-US

Model #	Description/Mechanism	Switch	Clock Supply Volts 60 Hz	Shipping Weight
T10000R	Enclosure Only	None	NA / NA	9.3 lbs (4.2 kg)
T10101R	Two T101M	SPST – SPST	120 / 120	11.0 lbs (5.0 kg)
T10004R	One T104M	NA – DPST	NA / 240	10.5 lbs (4.7 kg)
T10404R	Two T104M	DPST – DPST	240 / 240	11.0 lbs (5.0 kg)
T10604R*	T106M & T104M	SPDT – DPST	240 / 240	11.0 lbs (5.0 kg)
T12404R**	T104M201 & T104M	DPST – DPST	240 / 240	11.0 lbs (5.0 kg)

* For 2 speed pump applications.

** The heater protection switch (fireman switch) is closed when the time switch contacts are open to allow remote operation of the heater. A flow or pressure switch therefore must always be part of the heater control circuit.

For additional trippers (1 "ON" 1 "OFF" per pack), order No. 156T1978A.

For additional "OFF" trippers (25 "OFF" per pack), order No. PA115.

For Stand offs for décor knockouts (4 stand-offs per pack), order No. 21T156A.



T10000R



T10004R



T10404R



Mechanical Controls



T2000R Series 60 Amp Pool/Spa Control Panels

The T2000R Series Control Panels feature an all-weather enclosure and contain a 4 circuit breaker base, an equipment grounding bar and a mechanical time switch mechanism. The circuit breaker base accepts interchangeable type breakers made by a number of different manufacturers. In addition, the enclosure has provision for installing additional switches or GFCI receptacles on the side and inside.

Applications

- Filter Pumps
- Lights
- Ventilating Systems
- Signs
- Air Conditioners
- Heaters

Specifications

Case – 16-3/4" (42.6 cm) H x 8-7/8" (22.5 cm) W x 4-3/8" (11.1 cm) D. 0.048" steel with electrostatically applied light beige finish.

Knockouts – Five combination 1/2"-3/4" and three 3/4" - 1" on the bottom, one combination 1/2"-3/4" on the left side, one 3/4"-1" on the back and one combination 1-3/4" x 2-3/4" knockout on the right side for mounting switches or GFCI

Panel Rating – 60 Amp 120/240 VAC or 120/208 VAC; Single Phase-60 Hz

Time Switch Rating – 30 Amp Resistive Inductive, Tungsten or 1000 VA pilot duty each pole 120/208/240 VAC; 2 HP (24 FLA) - 120 VAC; 5 HP (28 FLA) - 240 VAC

Shipping Weight – See table.

Agency Approval – CSA/C-US



T21000R



T21004R

Model #	Description/Mechanism	Switch	Clock Supply Volts 60 Hz	Shipping Weight
T21000R	Enclosure only	None	NA	11.2 lbs (5.0 kg)
T21001R	T101M	SPST	120	14.0 lbs (6.3 kg)
T21004R	T104M	DPST	240	14.0 lbs (6.3 kg)
T20004R*	T104M	DPST	240	14.0 lbs (6.3 kg)

* T20004R has a limited availability, T21004R is the replacement model.

For additional trippers (1 "ON" 1 "OFF" per pack), order No. 156T1978A

For additional "OFF" trippers (25 "OFF" per pack), order No. PA115

For Stand offs for décor knockouts (4 stand-offs per pack), order No. 21T156A



T20004R



T30000R Series 100 Amp Pool/Spa Control Panels



The T30000R Series Control Panels reduce installation costs and provide all of the electrical requirements for any pool and/or spa installation. They offer an all-in-one electrical control center which can be custom wired for a wide variety of requirements, and eliminate the need for additional junction boxes and service panels. The enclosure accepts any combinations of P1353ME or P4243ME or T100M or RC2000M or PF1000M Series mechanisms

Applications

- Filter Pumps
- Booster Pumps
- Heating Systems
- Lights
- Cleaning Systems
- Security Systems
- Fountains
- Sprinkler Systems
- Valve Actuators
- Yard Lights

Specifications

Case – 16-1/2" (41.9 cm) H x 10-7/8" (27.6 cm) W x 4-1/4" (10.8 cm) D, 0.048" steel with electrostatically applied beige finish

Knockouts – Two 1/2", three combination 1/2"-3/4", and two combination 3/4"-1" knockouts on the bottom. Four 1/2", three combination 1/2"-3/4" on the back. One combination 3/4"-1" on the left side. One 1-3/4" x 2-3/4" knockout on the right side for mounting switches and GFCI.

Panel Rating – 100 Amp., 120-240 VAC or 120-208 VAC single phase - 60Hz.

Timer Switch Rating – 30 Amp Resistive Inductive, Tungsten or 1000 VA pilot duty each pole 120/208/240 VAC; 2 HP (24 FLA) - 120 VAC; 5 HP (28 FLA) - 240 VAC

Shipping Weight – See table.

Agency Approval – CSA/C-US

Model #	Description/Mechanism	Switch	Clock Supply Volts 60 Hz	Shipping Weight
T30000R5	Enclosure Only	None	NA / NA	18.6 lbs (8.4 kg)
T30004R	One T104M	None / SPST	NA / 240	18.6 lbs (8.4 kg)
T30401R	T104M & T101M	DPST / SPST	240 / 120	18.6 lbs (8.4 kg)
T30404R	Two T104M	DPST / DPST	240 / 240	18.6 lbs (8.4 kg)
T30604R*	T106M & T104M	SPDT / DPST	240 / 240	18.6 lbs (8.4 kg)
T32404R**	T104M201 & T104M	DPST / DPST	240 / 240	18.6 lbs (8.4 kg)

* For 2 speed pump applications.

** The heater protection switch (fireman switch) is closed when the time switch contacts are open to allow remote operation of the heater.

A flow or pressure switch therefore must always be part of the heater control circuit.

For additional trippers (1 "ON" 1 "OFF" per pack), order No. 156T1978A.

For additional "OFF" trippers (25 "OFF" per pack), order No. PA115.

For Stand offs for décor knockouts (4 stand-offs per pack), order No. 211T156A.



T30000R5



T30004R



T32404R



Quality Pool & Spa Controls



T40000R Series 125 Amp Pool/Spa Control Panels

The T40000R Series Control Panels reduce installation costs and provide all of the electrical requirements for any pool and/or spa installation. They offer an all-in one electrical control center which can be custom wired for a wide variety of requirements, and eliminate the need for additional junction boxes and service panels. The enclosure accepts any combinations of P1353ME or P4243ME or T100M or RC2000M or PF1000M Series mechanisms.

Applications

- Filter Pumps
- Booster Pumps
- Heating Systems
- Lights
- Cleaning Systems
- Security Systems
- Fountains
- Sprinkler Systems
- Yard Lights

Specifications

Case – 20-3/4" (52.7 cm) high x 12-3/4" (32.4 cm) wide x 4-1/4" (10.8 cm) deep, 0.048" steel with electrostatically applied light beige finish

Knockouts – Seven combination 1/2"-3/4" and three combination 3/4"-1" knockouts on the bottom.

Five combination 1/2"-3/4" on the left side. One 1-3/4" x 2-3/4" knockout on the right side for mounting switches and GFCI

Panel Rating – 1

Timer Switch Rating – 30 Amp Resistive Inductive, Tungsten or 1000 VA pilot duty each pole 120/208/240 VAC; 2 HP (24 FLA) - 120 VAC; 5 HP (28 FLA) - 240 VAC

Shipping Weight – See table.

Agency Approval – CSA/C-US

Model #	Description/Mechanism	Switch	Clock Supply Volts 60 Hz	Shipping Weight
T40000R	Enclosure Only	None	NA	16.0 lbs (7.2 kg)
T40004R	One T104M	DPST	NA / 240	20.5 lbs (9.2 kg)
T40404R	Two T104M	DPST	240 / 240	21.2 lbs (9.5 kg)

For additional trippers (1 "ON" 1 "OFF" per pack), order No. 156T1978A.

For additional "OFF" trippers (25 "OFF" per pack), order NO. PA115.

For additional stand-offs for décor knockouts (4 stand-offs per pack), order No. 21T156A.

T40000R Series 100 Amp Specialty Control Panels

These specialty Control Panels are the same as the T40000R Series, except they have been designed for specialty applications. Models include a factory installed GFCL, or stainless steel panel for high corrosive environments or an inside wiring compartment for two devices. These enclosures accept any combinations of T100M, P1353ME, P4243ME or T100M or RC2000M or PF1000M Series mechanisms.

Applications - Same as above.

Specifications

Case, Knockouts, Timer Switch Rating & Agency Approval – Same as above

Panel Rating – 115 Amp. 120-240 VAC or 120-208 VAC single phase - 60 Hz.

Shipping Weight – See table.

Model #	Description/Mechanism	Switch	Clock Supply Volts 60 Hz	Shipping Weight
T40000R4*	Inside Compartment	None / None	NA / NA	19.4 lbs (8.7 kg)
T40004RSS**	One T104M	None / DPST	NA / 240	20.5 lbs (9.2 kg)
T40004R5	One T104M & GFCI Installed	None / DPST	NA / 240	21.6 lbs (9.7 kg)
T40404R5	Two T104M & GFCI Installed	DPST / DPST	240 / 240	24.6 lbs (11.0 kg)

** Enclosure only with inside wiring compartment for twist-lock receptacle and GFCI.*

*** Stainless Steel Enclosure.*

For additional trippers (1 "ON" 1 "OFF" per pack), order No. 156T1978A.

For additional "OFF" trippers (25 "OFF" per pack), order NO. PA115.

For additional stand-offs for décor knockouts (4 stand-offs per pack), order No. 21T156A.



T40000R



T40004R



T40404R



T40000R4



T40004RSS



T40004R5



PX100, PX300 & PX600 Series Safety Transformers



These Safety Transformers are specifically designed to supply 12 volts to pool/spa lights, submersible fixtures and outdoor garden lights. A grounded shield between the primary and secondary windings assures safe operation and the built-in circuit protection will disconnect power to the transformer in case of defect or overload.

Applications

- Pool Lights
- Spa Lights
- Garden Lights
- Fountain Lights

Specifications - PX100/S, PX300/S

Enclosure – 7.25" (19.4 cm) H x 5.25" (13.3 cm) W x 4.5" (11.4 cm) D. Stainless steel or steel with electrostatically applied light beige finish. Mounting brackets top and bottom.

Knockouts – Total of ten combination 1/2"-3/4" knockouts, (2) right side, (2) left side, (2) back, (4) bottom.

Electrical Rating – See table.

Shipping Weight – See table.

Specifications – PX600/S

Enclosure – 10" (25.4 cm) high x 10" (25.4 cm) wide x 5" (12.7 cm) deep. Stainless steel or steel with electrostatically applied light beige finish. Mounting brackets top and bottom.

Knockouts – Two combination 1/2"-3/4", and 4 combination 3/4"-1" knockouts on the bottom. Total of six combination 1/2"-3/4" knockouts, (2) right side, (2) left side, (2) back.

Electrical Rating – See table.

Shipping Weight – See table.

Model #	Description	Input	Output	Shipping Weight
PX100	100 Watt Beige Steel Enclosure	120V, 1AMP	12 or 13V	7.0 lbs (3.2 kg)
PX100S	100 Watt Stainless Steel Enclosure	120V, 1AMP	12 or 13V	7.0 lbs (3.2 kg)
PX300	300 Watt Beige Steel Enclosure	120V, 3AMP	12,13 or 14V	13.0 lbs (5.9 kg)
PX300S	300 Watt Stainless Steel Enclosure	120V, 3AMP	12,13 or 14V	13.0 lbs (5.9 kg)
PX600	600 Watt Beige Steel Enclosure	120V, 6AMP	12,13 or 14V	26.0 lbs (11.7 kg)
PX600S	600 Watt Stainless Steel Enclosure	120V, 6AMP	12,13 or 14V	26.0 lbs (11.7 kg)



PX100



PX100S



PX300



PX300S



PX600



PX600S



Safety Transformers

T10000RT, T40000RT & PE45343RCT Series



Pool Panels with Transformer

These Panels with Transformer offer an all-in-one, easy to wire and extremely cost effective electrical control center for any pool or spa installation. Inside the enclosure are the time switch, the transformer and other components needed for the completion of this installation. The T40000RT Series panels will accept additional Intermatic mechanisms and/or components.

The PE45343RCT Series includes all the features of the PE Series Digital Controls plus two PE24VA valve actuators, Wireless Panel Mounted Transceiver (PE650), and Hand-Held Transceiver (PE950), which allows the system to display the status of each of the five circuits (3 timed and 2 on demand), pool and spa water temperature, pool and spa thermostat set point, heating status and overall communication status.

Applications

- Filter Pumps
- Blowers
- Low Voltage Pool/Spa Lighting
- Low Voltage Outdoor Lighting
- Fountains

Specifications

T10000RT Series

Case – 12" (30.5 cm) H x 12" (30.5 cm) W x 4-1/4" (10.8 cm) D, 0.048" steel with electrostatically applied light beige finish

Knockouts – Five combination 1/2"-3/4" and two combination 3/4"-1" knockouts on the bottom.

One combination 1/2"-3/4" on the left side and one combination 3/4"-1" on the back. One knockout 1-3/4" x 2-3/4" on the right side for mounting switches or GFCI

Center Rating – 92 Amp per leg, 168 Amp Max. 120-240 VAC or 120-208 VAC single phase - 60 Hz.

T40000RT Series

Case – 20-3/4" (52.7 cm) high x 12-3/4" (32.4 cm) wide x 4-1/4" (10.8 cm) deep, 0.048" steel with electrostatically applied light beige finish.

Knockouts – Seven combination 1/2"-3/4" and three combination 3/4"-1" knockouts on the bottom. Five combination 1/2"-3/4" on the left side. One 1-3/4" x 2-3/4" knockout on the right side for mounting switches and GFCI.

Panel Rating – T40000RT Series - 100 Amp 120-240 VAC or 120-208 VAC single phase - 60 HZ

Time Switch Rating – 30 Amp Resistive Inductive, Tungsten or 1000 VA pilot duty each pole 120/208/240 VAC; 2 HP (24 FLA) - 120 VAC; 5 HP (28 FLA) - 240 VAC

PE45343RCT Series

Case – 12" (30.5 cm) H x 12" (30.5 cm) W x 4-1/4" (10.8 cm) D, 0.048" steel with electrostatically applied light beige finish

Knockouts – Five combination 1/2"-3/4" and two combination 3/4"-1" knockouts on the bottom.

One combination 1/2"-3/4" on the left side and one combination 3/4"-1" on the back. One knockout 1-3/4" x 2-3/4" on the right side for mounting switches or GFCI

Panel Rating – T40000RT Series - 100 Amp 120-240 VAC or 120-208 VAC single phase - 60 HZ

Agency Approval – CSA/C-US

Model #	Transformer	Input 60 Hz	Output	Mechanism	Shipping Weight
T10004RT1	100 Watt	120V, 1 Amp	12V, 13V,	T104M	14.0 lbs (6.3 kg)
T10004RT3	300 Watt	120V, 3 Amp	12V, 13V, 14V	T104M	20.0 lbs (9.0 kg)
T40003RT3	300 Watt	120V, 3 Amp	12V, 13V, 14V	T103M	32.0 lbs (14.4 kg)
T40004RT1	100 Watt	120V, 1 Amp	12V, 13V,	T104M	26.0 lbs (11.7 kg)
T40004RT3	300 Watt	120V, 3 Amp	12V, 13V, 14V	T104M	32.0 lbs (14.4 kg)
PE45343RCT1	100 Watt	120V, 1 Amp	12V, 13V	P1353ME & P4243ME	56.0 lbs (25.2 kg)
PE45343RCT3	300 Watt	120V, 3 Amp	12V, 13V, 14V	P1353ME & P4243ME	61.0 lbs (27.5 kg)

For additional trippers (1 "ON" 1 "OFF" per pack), order No. 156T1978A.

For additional "OFF" trippers (25 "OFF" per pack), order No. PA115.

For stand-offs for décor knockouts (4 stand-offs per pack), order No. 21T156A.

Note: See pages 121 and 127 for a detailed list of replacement mechanisms and page 122 for PE650 and PE950 specifications



T10004RT1



T40004RT3



PE45343RCT3



PF1100 Series

Single Circuit Freeze Protection Controls



These Freeze Protection Controls are designed to protect the pool and spa equipment and plumbing against freeze damage. They turn the pump and the heater ON when the outdoor temperature drops below the temperature set by the user-adjustable thermostat.

Models without timer connect to a timing or switching device and together, they control operation of the equipment as well as protect it against freeze damage. Models with timer provide both automation and protection for the equipment.

Applications

- Filter Pumps
- Filter Pump/Booster Pump Combinations
- Waterfalls
- Water Features

Specifications

Case - 0.034 inch drawn steel, electrostatically coated, beige color. Hasp, with hole for lock, holds permanently attached side-hinged door closed. 9-3/8" (23.8 cm) high x 5-1/4" (14.0 cm) wide x 3-5/8" (9.2 cm) deep.

Knockouts - 1/2" - 3/4" combination knockouts, one back, one on each side, two bottom.

Thermostat Range - 45°F - 32°F with 5 degrees differential.

Electrical Rating - See table

Shipping Weight - See table.

Agency Approval - CSA/C-US

Model #	Description	Input	Rating H.P.	Shipping Weight
PF1102	Thermostat only. For 240V installation.	240V	3	3.7 lbs (1.7 kg)
PF1102M	Same as above, mechanism only.	240V	3	2.0 lbs (0.9 kg)
PF1102T	Timer with thermostat. For 240V installation.	240V	3	4.5 lbs (2.0 kg)
PF1102MT	Same as above, mechanism only.	240V	3	2.5 lbs (1.1 kg)
PF1103	Thermostat only. For 120/240V installation.	120/240V*	1.5/3	3.7 lbs (1.7 kg)
PF1103M	Same as above, mechanism only.	120/240V*	1.5/3	2.0 lbs (0.9 kg)
PF1103T	Timer with thermostat. For 120/240V installation	120/240V*	1.5/3	4.5 lbs (2.0 kg)
PF1103MT	Same as above, mechanism only.	120/240V*	1.5/3	2.5 lbs (1.1 kg)

* Neutral must be installed.



PF1102M



PF1102



PF1103MT



PF1103T



Freeze Protection Controls



PF1100 & PF1200 Series

Multi Circuit Freeze Protection Control Centers & Panels

These heavy-duty Freeze Protection Controls are designed specifically for pools requiring one or two time switches and protect the pool and spa equipment and plumbing against freeze damage. They turn the pump and the heater ON when the outdoor temperature drops below the temperature set by the user-adjustable thermostat. In addition, they have a provision to install switches inside or GFCI receptacle on the side of enclosure.



PF1112T



PF1202T



PF1222TB

Applications

- Filter Pumps
- Filter Pump-Booster Pump
- Fountains
- Combinations
- Pool-Spa Combinations

Specifications

PF1112T, PF1202T

Case – 12" (30.5 cm) H x 12" (30.5 cm) W x 4-1/4" (10.8 cm) D, 0.048" steel with electrostatically applied light beige finish.

Knockouts – Five combination 1/2"-3/4" and two combination 3/4"-1" knockouts on the bottom. One combination 1/2"-3/4" on the left side and one combination 3/4"-1" on the back. One knockout 1-3/4" x 2-3/4" on the right side for mounting switches or GFCI

Center Rating – 92 Amp per leg, 168 Amp Max. 120-240 VAC or 120-240VAC single phase - 60 Hz.

Electrical Rating – See table.

Thermostat Range – 44°F - 32°F with 5 degrees differential.

Shipping Weight – See table.

Agency Approval – CSA/C-US

PF1222TB

Case – 16-1/2" (41.9 cm) H x 10-7/8" (27.6 cm) W x 4-1/4" (10.8 cm) D, 0.048" steel with electrostatically applied beige finish.

Knockouts – Two 1/2", three combination 1/2"-3/4", and two combination 3/4"-1" knockouts on the bottom. Four 1/2", three combination 1/2"-3/4" on the back. One combination 3/4"-1" on the left side. One 1-3/4" x 2-3/4" knockout on the right side for mounting switches and GFCI.

Panel Rating – 100 Amp max., 120-240 VAC or 120-208 VAC single phase - 60 Hz.

Electrical Rating – See table.

Thermostat Range – 44°F - 32°F with 5 degrees differential.

Shipping Weight – See table.

Agency Approval – CSA/C-US

Model #	Description	Electrical Input	Rating HP	Shipping Weight
PF1112T	For pools requiring one time switch	240V	3	8.0 lbs (3.6 kg)
PF1202T	For pools with cleaner, requiring two time switches	240V	3	10.0 lbs (4.5 kg)
PF1222TB	Same as a PF1202T with 4/8 breaker base and heater protection	240V	3	17.0 lbs (7.7 kg)

For additional trippers (1 "ON" 1 "OFF" per pack), order No. 156T1978A.

For additional "OFF" trippers (25 "OFF" per pack), order NO. PA115.

For additional stand-offs for décor knockouts (4 stand-offs per pack), order No. 21T156A.



RC2000 Series Multi-Function Air Switch Mechanisms

These Air Switches provide remote control for one, two or three separate loads. A push button connected to the mechanism with a flexible air hose enables the user for example, to operate a pump a blower and a light up to 75 feet away. In addition, models with a "T" suffix have a 24-hour digital, multiple program timer that turns a single or two-speed pump ON-OFF several times per day. The air buttons and air hose are not included and must be purchased separately.

The RC2403RT model controls a single speed or two-speed filter pump, a blower and an independent 30 Amp circuit. Comes complete with 2 air buttons and 75' air hoses.

Applications

- Filter pumps
- Jet pumps
- Lights
- Booster pumps
- Blowers
- Heaters

Specifications

Case: For indoor/outdoor installation, beige plastic, 9-3/8" (23.8 cm) high x 5-1/2" (14.0 cm) wide x 3-3/4" (9.5 cm) deep. RC2403RT, 12.0" (30.5 cm) high x 12.0" (30.5 cm) wide x 4.25" (10.8 cm) deep.

Knockouts: Plastic Enclosure: Four combination 1/2"-3/4", one on each side of case and two on bottom. RC2403RT - Five combination 1/2"-3/4" and two combination 3/4"-1" knockouts on the bottom. One combination 1/2"-3/4" on the left side and one combination 3/4"-1" on the back. One knockout 1-3/4" x 2-3/4" on the right side for mounting switches or GFCI.

Electrical Rating: 20 Amp resistive 120-240 VAC, 1 HP, 120 VAC, 2 HP, 240 VAC each circuit.

Voltage: All models operate on 120 VAC (Line and Neutral) or 240 VAC (Line 1, Line 2 and Neutral).

Shipping Weight: 4.4 lbs (2.0 kg): RC2403RT; 19 lbs. (8.6 kg)

Agency Approval: CSA/C-US

Model #	Description	Switch	Clock Supply Volts 60Hz
RC2133P	ON/OFF or HIGH LOW	DPDT	120/240
RC2133M	ON/OFF or HIGH LOW, mechanism only	DPDT	120/240
RC2123PT	ON/OFF or HIGH LOW with timer	SPDT	120/240
RC2123MT	ON/OFF or HIGH LOW, with timer mechanism only	SPDT	120/240
RC2233P	Two circuit ON/OFF	DPDT & DPST	120/240
RC2233M	Two circuit ON/OFF, mechanism only	DPDT & DPST	120/240
RC2343P	Two circuit sequential	4-function	120/240
RC2343M	Two circuit sequential, mechanism only	4-function	120/240
RC2343PT	Two circuit sequential with timer	4-function	120/240
RC2343MT	Two circuit sequential with timer, mechanism only	4-function	120/240

RC2403RT Specifications/Features

Voltage	120/240
Remote Control	Air - Sequential
Filter Pump	Timer Controlled in Pool Mode
	Single or Two Speed
Heater Control	NO
Heater Protection (Fireman Switch)	NO
Blower	YES
Independent Circuit (20 Amp R, 1.5 HP - 120V; 3 HP - 240V) DPST	Air - ON/OFF



RC2133M



RC2133P



RC2123MT



RC2343PT



RC2403RT



Air Operated Controls

RC2100 & RC2200 Series Air or Remote Operated Pool/Spa Controls

This line of Air or Remote Operated Controls is specially designed to control pool/spa combinations economically and reliably away from the equipment. With one touch, these units automatically override the 24 HR. timer and turn ON the filter pump, switch the valves from pool-filter mode to the spa/water feature mode and switch the compatible dual thermostat on the heater/heat pump from the pre-set pool temperature to the pre-set spa temperature. Comes complete with two PE24VA 24-Volt valve actuators.

Applications

- Pool/spa combinations
- Pool/water feature combinations

Specifications

RC2163E, RC2163FE, RC2263E

Case: 12" (30.5 cm) H x 12" (30.5 cm) W x 4-1/4" (10.8 cm) D, 0.048" steel with electrostatically applied light beige finish.

Knockouts: Five combination 1/2"-3/4" and two combination 3/4"-1" knockouts on the bottom. One combination 1/2"-3/4" on the left side and one combination 3/4"-1" on the back. One knockout 1-3/4" x 2-3/4" on the right side for mounting switches or GFCI.

Electrical Rating: See table below. Actuator Circuit: 24V. - 40 Amp Max.

RC2163BE, RC2163BFE, RC2263BE

Case: 16-1/2" (41.9 cm) H x 10-7/8" (27.6 cm) W x 4-1/4" (10.8 cm) D, 0.048" steel with electrostatically applied beige finish.

Knockouts: Two 1/2", three combination 1/2"-3/4", and two combination 3/4"-1" knockouts on the bottom. Four 1/2", three combination 1/2"-3/4" on the back. One combination 3/4"-1" on the left side. One 1-3/4" x 2-3/4" knockout on the right side for mounting switches and GFCI.

Panel Rating: 100 Amp 120-240 VAC. or 120-208 VAC single phase - 60 HZ.

Electrical Rating: See table below. Actuator Circuit: 24V. - 40 Amp Max.

Shipping Weight: See table below.

Agency Approval: CSA/C-US

Specifications/Features	RC2163E	RC2163FE	RC2263E
Voltage	120/240	120/240	120/240
Remote Command	1-Air	Any Switch*	1-Air
Filter Pump	Timer Controlled in Pool Mode	Y	Y
	Single Speed Only 1.5 HP - 120V; 3HP - 240V.	Y	NA
	Single or Two Speed 1 HP - 120V; 2 HP - 240V.	NA	Y
Heater Control	Y	Y	Y
Number of Valve Actuator Connections	3	3	3
Blower	1 HP - 120V; 2 HP - 240V.	NO	Y
Shipping Weight (lbs)	20.0 (9.0 kg)	20.0 (9.0 kg)	23.7 (10.7 kg)
Reference Picture	RC2163E	RC2163E	RC2163E

*Can use spring wound timer, toggle switch or wireless receiver (RC613) with transmitter (RC939) to operate equipment

Specifications/Features	RC2163BE	RC2163BFE	RC2263BE
Voltage	120/240	120/240	120/240
Remote Command	1-Air	Any Switch*	1-Air
Filter Pump	Timer Controlled in Pool Mode	Y	Y
	Single Speed Only 1.5 HP - 120V; 3HP - 240V.	Y	NA
	Single or Two Speed 1 HP - 120V; 2 HP - 240V.	NA	Y
Heater Control	Y	Y	Y
Number of Valve Actuator Connections	3	3	3
Blower	1 HP - 120V; 2 HP - 240V.	NO	Y
Number of Breaker Space	8/16	8/16	8/16
Shipping Weight (lbs)	24.3 (10.9 kg)	24.3 (10.9 kg)	28.0 (12.6 kg)
Reference Picture	RC2263BE	RC2263BE	RC2263BE

*Can use spring wound timer, toggle switch or wireless receiver (RC613) with transmitter (RC939) to operate equipment



RC2163E



RC2263BE



RC600 & RC900 Series Outdoor Radio Remote Controls



These Modular Radio Receivers are one half of a two part remote control system. They operate as ordinary ON/OFF switches but they also respond to the signals of a hand held transmitter — the other half of the system. The modules are designed for indoor or outdoor use, and can handle a variety of switching applications, typical around the house or farm. By the push of a button on the face of the transmitter, the user is able to turn ON-OFF the connected load (lights, pump, etc.) from any remote location, inside or outside of the house, safely and conveniently. In addition, a single transmitter can operate up to three receivers and is able to “teach” each module a different code (Transmitter model RC939 sold separately).

Applications

- Pool/Spa Pumps, Lights and Heaters
- Fountain Pumps
- Outdoor Lighting
- Motorized Valves
- Air Blowers
- Signs
- Motorized Gates

Specifications

Enclosure – Beige outdoor grade plastic.

Maximum Range – 100 ft. See transmitter model RC939 for details.

Model #	Description	Electrical Rating	Size	Shipping Weight
RC613	Receiver with ON/OFF Button	15 Amp Resistive, 10 Amp (1200 W) Tungsten, 1 HP, Motor Load - 120 V	4-1/2" H (11.4 cm) 3" W (7.6 cm), 1-1/4" D (4.0 cm)	0.5 lbs (0.2 kg)
RC613L	RC613 with (3) 36" Long Leads	Same as RC613	Same as RC613	0.7 lbs (0.3 kg)
RC613R	Heavy Duty Receiver Module	30 Amp Resistive, 120/240 V 12.5 Amp (1500 W), 1.5 HP - 140 V 1.5 HP - 140 V, 3 HP - 240 V, Double Pole, Single Throw Contacts	7-3/4" H (19.7 cm) 4" W (10.7 cm) 3-1/2" D (8.9 cm)	1.4 lbs (0.6 kg)
RC615	Timer Interface Module without Manual Button	Same as RC613	Same as RC613	0.5 lbs (0.2 kg)

Hand Held Radio Transmitter

This hand held radio transmitter operates the shared equipment of a pool/spa combination by the touch of a button. In addition, more buttons are available on the transmitter to turn ON-OFF a booster pump, a blower and lights.

Applications

- Pool-Spa Combinations
- Water Features

Specifications

Enclosure – Beige plastic, 4-3/8" (11.1 cm) H, 2-3/4" (7.0 cm) W and 1" (2.5 cm) D.

Model #	Description	Range*	Battery	Shipping Weight
RC939	3 Channel Radio Transmitter	100 ft.	9V Transistor type	0.5 lbs (0.2 kg)

* The range is 100 feet but depends on many factors like the age of the battery, proximity of large metal objects, the location of the receiver and environmental conditions at the time of transmission.



RC613R



RC939



Portable Outdoor Timers

P1200 Series Two-Circuit Portable Outdoor Timer



These Portable Two-circuit Above Ground Pool Timers incorporate a plug in for a timed circuit (normally used for a pool pump) and a plug in for a live circuit (typically used for a pool light). GFCI protected circuits and a three-prong grounded plug for the time switch supply are also built-in.

Applications

- Above ground pool pumps
- Above ground pool lights

Specifications

Case – NEMA 3R rated for indoor-outdoor installation.

9-3/8" (23.8 cm) high x 5-1/2" (14.0 cm) wide x 3-5/8" (9.2 cm) deep

Knockouts – Combination 1/2" - 3/4" nominal knockouts, one on the back and each side of case, two pre-cut on bottom

Timer – 24 hour with 23-1/2 hour maximum ON time. Two ON, two OFF trippers - standard. Dial will accept up to 12 sets of trippers.

Shipping Weight – 2.8 lbs. (1.3kg)

Model #	Description	Electrical	Plug & Receptacle
P1261P	PB913N84 Timer	15 Amp (1800 W), Resistive or Tungsten 1 HP, 15 FLA (96 LRA) Motor Load	5-15
P1261PE	PB313E Electronic Timer	15 Amp (1800 W), Resistive or Tungsten 1 HP, 15 FLA (96 LRA) Motor Load	5-15

For additional trippers (2 "ON" 2 "OFF" per pack), order No. 156PB10398A

P1100 Series Portable Outdoor Timers — Heavy Duty Outdoor Timers

These Portable Outdoor Timers are specially designed to control the filter pump of a portable pool or spa, but they can also be used to turn ON and OFF (in off-season) outdoor decoration, engine block heaters and other appliances, indoors or outdoors.

Applications

- Filter Pumps
- Air Conditioners
- Signs
- Lights
- Engine Block Heaters
- Fans

Specifications

Case – Outdoor grade plastic. 5" (12.7 cm) H x 5-1/2" (13.97 cm) W x 3-3/4" (9.52 cm) D. Cord – 3 wire, outdoor grade, 22" long.

Timer – 24 hour with 23-1/2 hour maximum ON time. Two ON, two OFF trippers - standard. Dial will accept up to 12 sets of trippers.

Shipping Weight – 1.7 lbs (0.7 kg)

Model #	Description	Electrical	Plug & Receptacle
P1101	Timer	15 Amp (1800 W), Resistive or Tungsten 1 HP Air Conditioner, 15 FLA (96 LRA), Motor Load	5-15
P1121	Timer	15 Amp (1800 W), Resistive or Tungsten 1 HP Air Conditioner, 15 FLA (96 LRA), Motor Load	5-15
P1131	Heavy-Duty Timer with Twist-Lock Plug & Receptacle	Resistive, 1 HP, 16 FLA (96 LRA) Motor Load	5L-20
P1161	Safety Timer with Ground Fault Circuit Protection	15 Amp (1800 W) Resistive, Tungsten 15 FLA (90 LRA) Motor	5-15

For additional trippers (2 "ON" 2 "OFF" per pack), order No. 156PB10398A



P1261P



P1261PE



P1101



P1121



P1131



P1161



PJB Series

Pool/Spa Junction Box & Mounting Bracket

These polymeric, water tight, multi-fixture Junction Boxes are especially designed for pools, pool-spa combinations and landscape applications. The PJB4175 provides a safe and reliable connection for up to four lights, while the PJB2175 supports up to two lights. They will accommodate flexible cords from #16-3 up to #12-3 and #10-3 in any combination and non-metallic conduits from 1/2 to 1 inch, including one for supply conductor feed. An optional wall/post mounting bracket is also available.

Applications

- Pool Lights
- Spa Lights
- Landscape Lights

Specifications

Case – Outdoor grade plastic. PJB4175 - 7.5" L x 4.75" W x 5.0" D. PJB2175 - 7.0" L x 3.0" W x 4.0" D

Note: Bracket sold separately.

Model #	Description	Light Connection	Case Qty.	Shipping Weight
PJB2175	Pool/Spa Light Junction Box	2	24	19.2 lbs (8.6 kg)
PJB4175	Pool/Spa Light Junction Box	4	12	13.2 lbs (6.0 kg)
PA114	Wall/Post Mounting Bracket	—	10	5 lbs (2.3 kg)



PJB4175



PJB2175

PJB2175

Only two screws required to attach lid to base

Easy access ground bar

Innovative strain relief design

Accepts multiple conduit sizes

Platform design offers ease of installation

One external bonding lug

Supports up to two pool/spa lights

PJB4175

Only two screws required to attach lid to base

Sloped platform design provides ultimate convenience

Innovative strain relief design

Supports up to four pool/spa lights

One external bonding lug

Easy access ground bar

Accepts multiple conduit sizes



PA114



Valves & Actuators



PAV215C

PAV215



PAV220C

PAV220



PAV315C

PAV315



PAV320C

PAV320



PE24VA

PAV Series

Maintenance Free Water Valves

Intermatic's Maintenance Free Water Valves have been designed to provide reliable control of water flow to pools, spas, solar collectors, cleaners and water features. These 2-way and 3-way valves have excellent flow characteristics while maintaining back pressure. Manufactured with Intermatic's high quality standards, the PAV Series Water Valves offer long maintenance free performance.

Applications

- Pools
- Spas
- Fountains
- Water Features

Standard Features

- Teflon-coated diverter requires no lubrication and ensures maintenance free performance
- Innovative field adjustable stop ensures precise valve positioning
- 1-1/2" valves fit 1-1/2" and 2" plumbing, 2" valves fit 2" and 2-1/2" plumbing
- Available in standard PVC and high temperature CPVC

Specifications

Shipping Weight – See table.

Case Quantity – 12

Model#	Port Size	Configuration	Material	Shipping Weight Each
PAV215	1-1/2"	2-WAY	PVC	1.5 lbs (0.6 kg)
PAV215C	1-1/2"	2-WAY	CPVC	1.5 lbs (0.6 kg)
PAV220	2"	2-WAY	PVC	1.6 lbs (0.7 kg)
PAV220C	2"	2-WAY	CPVC	1.6 lbs (0.7 kg)
PAV315	1-1/2"	3-WAY	PVC	1.5 lbs (0.6 kg)
PAV315C	1-1/2"	3-WAY	CPVC	1.5 lbs (0.6 kg)
PAV320	2"	3-WAY	PVC	1.6 lbs (0.7 kg)
PAV320C	2"	3-WAY	CPVC	1.6 lbs (0.7 kg)

24-Volt Valve Actuator

Designed with quality in mind, Intermatic's 24-volt valve actuators provide reliable control of 2-way and 3-way diverter valves for pool/spa combinations and water features. The water flow can be altered for specific applications through the adjustable cam, which rotates diverter valves to multiple degree settings. The cam settings can be easily adjusted by simply removing the lid.

These valve actuators are compatible with all pool/spa valves currently offered in the industry and will retro fit into all pool/spa control systems.

Applications

- Pools
- Spas
- Fountains
- Water features

Standard Features

- Automates compatible diverter valves for pool/spa & pool/water feature combinations
- Adjustable cam rotates diverter valves to multiple degree settings
- Retro fits into all pool/spa control systems on the market

Specifications

Shipping Weight: See table.

Case Quantity: 6

Model #	Description	Voltage	Shipping Weight Each
PE24VA	Valve Actuator	24 VAC	3.5 lbs (2.2 kg)

SURGE PROTECTION

Setting a New Standard for Protection

The same quality and coverage you've come to expect from Intermatic controls can also be found in a complete line of panel-mount and point-of-use surge protection — from high current capacity industrial models to residential models, with integrated phone and coax protection.

On average, the typical home or business gets hit with more than 2,000 electrical surges annually, costing home and business owners more than \$26 billion dollars. As more and more homes begin housing more elaborate home theater and entertainment systems, home offices and other appliances, it is becoming increasingly important to protect all electronic investments from transient voltage or “bad power.”



Why Every Facility Needs Surge Protection

Electrical disturbances and downtime cost North American Companies more than \$26 billion every year. Every process within your building is controlled by electrical and electronic components which all require surge protection to function reliably.

ANSI/IEEE has defined common disturbances which occur in modern facilities per the waveforms to the left. Depending on the proximity of the equipment to your power entry points, the severity increases. As the transient event propagates throughout your building, it degrades your electronic components by stressing them with excess voltage and current.

Every modern facility is a strong candidate for protection. Intermatic has a broad line of Service Entrance, Panelboard and Point-of-Use Protection to select from.

Service Entrance, Panelboard and Point-of-Use surge protection can be found in the following types of facilities and installations:

- Manufacturing
- Healthcare/Medical
- Education/University
- Data Centers
- Telecom/Cell Sites
- Utility
- Correctional
- Military Installations
- Airports
- Broadcast Studios
- Financial Institutions
- Retail
- General Office
- Semiconductor Fabrication
- Wastewater Facilities
- Restaurants
- Entertainment Facilities

Virtually all devices which are powered by electricity are vulnerable. Surge Suppression is required for protection of the following types of systems:

- Computer/Peripherals
- Network Servers/ Routers/Modems
- Telecom Equipment
- Variable Frequency Drives
- Lighting Ballasts
- HVAC Controls
- Fire Alarm Systems
- Security Systems
- Lighting Control and Dimming Systems
- Automatic Test Equipment
- Wafer Fabrication Equipment
- Uninterruptible Power Supplies
- Bar Code Scanning Equipment
- Programmable Logic Controllers
- CNC Machines
- Pumps, motors and related equipment which has electronic controls or starters

Surge Suppression Definitions

Surge Current Capacity is the rated surge current that a design will withstand based on the standard 8 x 20 microsecond current waveform. NEMA LS-1 states that this should be given for each mode of a surge protection device, since devices can have different components in each mode.

Modes of Protection are the coupling paths that exist in a single or three phase system.

In a three phase wye system there are 10 potential modes where a transient can be coupled:

- | | | | |
|---------------|-------------------|---------------|--------------|
| L1 to Neutral | L1 to Ground | L2 to Neutral | L2 to Ground |
| L3 to Neutral | L3 to Ground | L1 to L2 | L2 to L3 |
| L3 to L1 | Neutral to Ground | | |

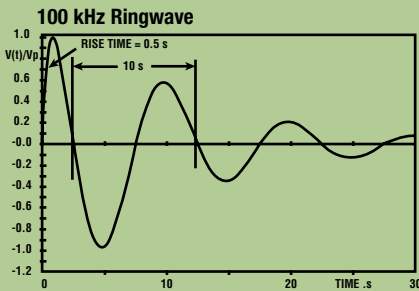
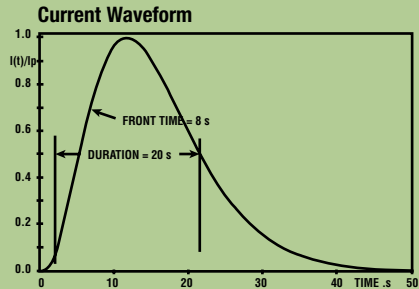
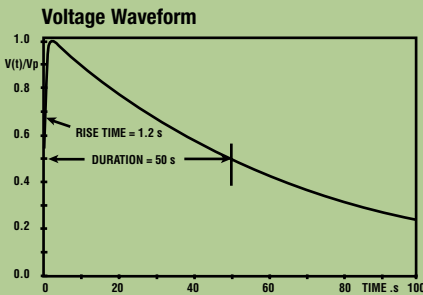
In a three phase delta system there are six potential modes where a transient can be coupled:

- | | | |
|--------------|--------------|--------------|
| L1 to Ground | L2 to Ground | L3 to Ground |
| L1 to L2 | L2 to L3 | L3 to L1 |

All modes must have suppression components coupled between them in order to be 100% effective.

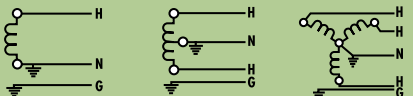
MCOV (Maximum Continuous Operating Voltage) is the maximum steady state rms voltage at which the unit can safely operate. The recommended MCOV is 115% of nominal voltage for all voltage configurations.

EMI/RFI Noise Attenuation is a way to rate filter performance over a range of specific frequencies. IEEE characterizes line noise as less than two times peak voltage. Line noise can be somewhat attenuated by the capacitance found in MOVs, but typically requires the addition of capacitors to increase effectiveness. EMI/RFI filters should be UL1283 Listed for safety.

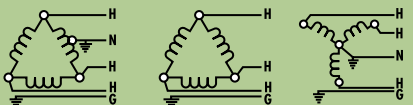


System Voltage

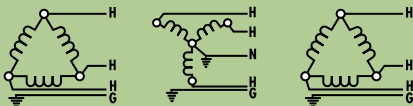
The wiring diagrams characterize common voltage configurations available for the products. Refer to individual product pages for models available in below configurations. Match the voltage configuration below with your voltage configuration at your Service Entrance, Distribution Panel or Panelboard location where you want protection.



120 Volt Single Phase 2 Wire plus Ground
120/240 Volt Single Phase 3 Wire plus Ground (split phase)
120/208 Volt Three Phase Wye 4 Wire plus Ground



120/240 Volt Three Phase HLD (High Leg Delta) 4 Wire plus Ground
240 Volt Three Phase Delta 3 Wire plus Ground
277/480 Volt Three Phase Wye 4 Wire plus Ground



480 Volt Three Phase Delta 3 Wire plus Ground
347/600 Volt Three Phase Wye 4 Wire plus Ground
600 Volt Three Phase Delta 3 Wire plus Ground

Standards and Guidelines



ANSI/IEEE C62.41.1-2002 and ANSI/IEEE C62.41.2-2002 are the recognized American National Standards for establishing the surge withstand capability of equipment connected to utility power circuits in residential, commercial or industrial applications. The standard has established the following Location Categories which can be applied to virtually any type of facility.

Category C

- Outside and Service Entrance
- Any underground lines
- Overhead line to detached building

Category B

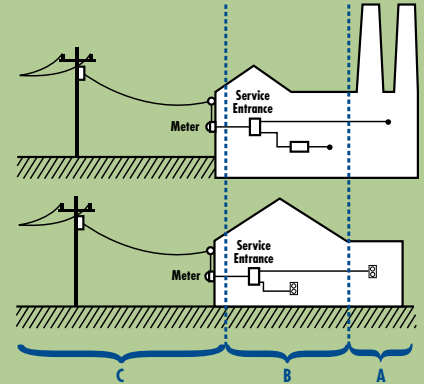
- Feeders and short branch circuits
- Distribution panel devices
- Lighting systems in large buildings

Category A

- Outlets and long branch circuits

The following values and waveforms are recognized within Categories C, B and A. Location Category C is the Outside and Service Entrance and the harshest surge environment.

Combination Waves 1.2 x 50 microsecond / 8 x 20 microsecond			Ring Waves 100KHz 0.5 microsecond		
Location Category	Voltage (Peak) 1.2 x 50 μ sec.	Current (Peak) 8 x 20 μ sec.	Location Category	Voltage (peak)	Current (peak)
A	6,000 Volt	500 Amp	A	6,000 Volts	200 Amp
B	6,000 Volt	3,000 Amp	B	6,000 Volts	500 Amp
C low	6,000 Volt	3,000 Amp			
C high	10,000 Volt	10,000 Amp			



ANSI/IEEE C62.45 is the American National Standard for uniform testing of surge suppression devices. All Intermatic testing follows these guidelines.

Nema Standard LS-1 is the National Electrical Manufacturers Association specification guideline for low voltage surge protection devices.

Underwriters Laboratories – UL1449 has recently been revised (August 1998) and requires surge suppression devices to safely pass overvoltage tests, abnormal overvoltage tests, short circuit withstand tests as well as assigns suppress voltage ratings based on a 6 KV, 500 Amp combination wave or impulse.

UL1283 – The safety standard for EMI/RFI noise attenuation filters. While this device does not rate filters or performance – it does provide a level of testing to ensure the filter is safe for commercial application.

There are four main factors to consider when specifying the appropriate device for your facility:

1. What is the amperage (size) of the Switchboard or Panelboard at the point of installation?
2. What is the geographic location of the facility? (i.e. the relative level of lightning exposure and utility grid switching activity)
3. What is the density of electronic equipment and how critical is the application? (i.e. a 7 x 24 computer data center would require a higher level of protection than a retail store)
4. What is the level of transient and noise producing loads within your facility? (i.e. a heavy industrial manufacturing environment or a densely populated computer data center would require a higher level of protection)

NOTES:

- Pick appropriate model to match the voltage of your Service Entrance, Distribution Panel or Panelboard.
- See individual product pages for other available voltages.
- A facility without any Service Entrance protection would warrant a higher level of protection at downstream locations.

Product Selection Chart – Surge Suppression Recommendations

The following guidelines can be followed for Intermatic products:

Choose Model by Voltage and distance from incoming Service

Location	480 VAC	277/480 VAC	120/208 VAC Wye	Refer to Page
Large Service Entrance (2000 to 4000 Amperes)				
Best	PG5001-480-3DLL	PG5001-480-3Y	PG5001-208-3Y	146
Better	PG4501-480-3DLL	PG4501-480-3Y	PG4501-208-3Y	147
Good	PG4001-480-3DLL	PG4001-480-3Y	PG4001-208-3Y	148
Small Service Entrance (Less than 1600 Amperes)				
Best	PG4501-480-3DLL	PG4501-480-3Y	PG4501-208-3Y	147
Better	PG4001-480-3DLL	PG4001-480-3Y	PG4001-208-3Y	148
Good	PG100-480-3DLL	PG100-480-3Y	PG100-208-3Y	149
Large Distribution Panel (1000 to 1600 Amperes)				
Best	PG4001-480-3DLL	PG4001-480-3Y	PG4001-208-3Y	148
Better	PG100-480-3DLL	PG100-480-3Y	PG100-208-3Y	149
Good	PG80-480-3DLL	PG80-480-3Y	PG80-208-3Y	151
Small Distribution Panel (600 to 1000 Amperes)				
Best	PG100-480-3DLL	PG100-480-3Y	PG100-208-3Y	149
Better	PG80-480-3DLL	PG80-480-3Y	PG80-208-3Y	151
Good	PG60-480-3DLL	PG60-480-3Y	PG60-208-3Y	153
Large Panelboard (225 to 400 Amperes)				
Best	PG80-480-3DLL	PG80-480-3Y	PG80-208-3Y	151
Better	PG60-480-3DLL	PG60-480-3Y	PG60-208-3Y	153
Good	PG40-480-3D	PG40-480-3Y	PG40-208-3Y	156
Small Panelboard (60 to 200 Amperes)				
Best	PG60-480-3DLL	PG60-480-3Y	PG60-208-3Y	153
Better	PG40-480-3D	PG40-480-3Y	PG40-208-3Y	156
Good	PG20-480-3D	PG20-480-3Y	PG20-208-3Y	158

Note for the PG 60/80/100 models equivalent models are available in NEMA 3R enclosures for outdoor applications (see PG2500, PG3000, PG3500 Series).



Surge Suppression System



PG5000 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- 40 kA Brute Force MOVs
- 200 KAIC Surge Rated Fuses
- Fault Current Tested to 200 KAIC
- Easily Replaceable Master Surge Module
- NEMA 3R Style Enclosure
- Redundant Protection per mode
- Safety Interlocked Disconnect
- Thermally Protected MOVs for maximum safety
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz
- cETLus Listed to UL1449, 2nd Edition
- Lugs accept #10 to #2 AWG
- 10 year product warranty

Integral Diagnostics

- LED Indicator Lights
- Form C Contacts
- Intermatic Thermal Monitoring System
- Digital Surge Counter
- Audible Alarm

Intermatic Model	Surge Current Capacity (8 x 20 usec) (per mode) ²					Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
	MCOV ¹	L-G	L-N	N-G	L-L		L-N	L-G	N-G	L-L
PG5001-240-2S	120/240 VAC	Single Phase (split)								
	115%	200 kA	200 kA	200 kA	200 kA	400 kA	400 V	400 V	330 V	700 V
PG5001-208-3Y	120/208 VAC	Three Phase Wye								
	115%	200 kA	200 kA	200 kA	200 kA	400 kA	400 V	400 V	330 V	700 V
PG5001-240-3HLD	120/240 VAC	Three Phase High Leg Delta								
	115%	200 kA	200 kA	200 kA	200 kA	400 kA	400 V / (700 V)	400 V / (700 V)	330 V	900 V
PG5001-480-3Y	277/480 VAC	Three Phase Wye								
	115%	200 kA	200 kA	200 kA	200 kA	400 kA	800 V	700 V	700 V	1,500 V
PG5001-480-3DLL	480 VAC	Three Phase Delta								
	115%	—	—	—	200 kA	200 kA	—	—	—	1,500 V
PG5001-600-3Y	347/600 VAC	Three Phase Wye								
	115%	200 kA	200 kA	200 kA	200 kA	400 kA	1,000 V	1,000 V	1,000 V	1,800 V
PG5001-600-3D	600 VAC	Three Phase Delta								
	115%	—	200 kA	—	200 kA	400 kA	—	1,500 V	—	1,800 V

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.

² All surge currents listed above are independently tested and verified per NEMA LS-1.

³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

The PG5000 Series is a hardwired surge suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations.

Dimensions:

28.66"H x 15.11"W x 8.05"D

Weight: 65 lbs.

Surge Suppression System



PG4500 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- 40 kA Brute Force MOVs
- 200 KAIC Surge Rated Fuses
- Fault Current Tested to 200 KAIC
- Easily Replaceable Master Surge Module
- NEMA 3R Style Enclosure
- Redundant Protection per mode
- Safety Interlocked Disconnect
- Thermally Protected MOVs for maximum safety
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz
- cETLus Listed to UL1449, 2nd Edition
- Lugs accept #10 to #2 AWG
- 10 year product warranty

Integral Diagnostics

- LED Indicator Lights
- Form C Contacts
- Intermatic Thermal Monitoring System
- Digital Surge Counter
- Audible Alarm

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode) ²					Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
		L-G	L-N	L-G	N-G	L-L		L-N	L-G	N-G	L-L
PG4501-240-2S 120/240 VAC Single Phase (split)											
	115%	150 kA	150 kA	150 kA	150 kA	300 kA	400 V	400 V	330 V	700 V	
PG4501-208-3Y 120/208 VAC Three Phase Wye											
	115%	150 kA	150 kA	150 kA	150 kA	300 kA	400 V	400 V	330 V	700 V	
PG4501-240-3HLD 120/240 VAC Three Phase High Leg Delta											
	115%	150 kA	150 kA	150 kA	150 kA	300 kA	400 V / (700 V)	400 V / (700 V)	330 V	900 V	
PG4501-480-3Y 277/480 VAC Three Phase Wye											
	115%	150 kA	150 kA	150 kA	150 kA	300 kA	800 V	700 V	700 V	1,500 V	
PG4501-480-3DLL 480 VAC Three Phase Delta											
	115%	—	—	—	150 kA	150 kA	—	—	—	1,500 V	
PG4501-600-3Y 347/600 VAC Three Phase Wye											
	115%	150 kA	150 kA	150 kA	150 kA	300 kA	1,000 V	1,000 V	1,000 V	1,800 V	
PG4501-600-3D 600 VAC Three Phase Delta											
	115%	—	150 kA	—	150 kA	300 kA	—	1,500 V	—	1,800 V	

NOTES:

- ¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.
- ² All surge currents listed above are independently tested and verified per NEMA LS-1.
- ³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.
- ⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.



The PG4500 Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations.

Dimensions: 28.66"H x 15.11"W x 8.05"D

Weight: 65 lbs.



Surge Suppression System

PG4000 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- 40 kA Brute Force MOVs
- 200 KAIC Surge Rated Fuses
- Fault Current Tested to 200 KAIC
- Easily Replaceable Master Surge Module
- NEMA 3R Style Enclosure
- Redundant Protection per mode
- Safety Interlocked Disconnect
- Thermally Protected MOVs for maximum safety
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz
- cETLus Listed to UL1449, 2nd Edition
- Lugs accept #10 to #2 AWG
- 10 year product warranty
- Redundant Protection per mode

Integral Diagnostics

- LED Indicator Lights
- Form C Contacts
- Intermatic Thermal Monitoring System
- Digital Surge Counter
- Audible Alarm



The PG4000 Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations.

Dimensions:

28.66"H x 15.11"W x 8.05"D

Weight: 65 lbs.

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode) ²					Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
		L-G	L-N	L-G	N-G	L-L		L-N	L-G	N-G	L-L
PG4001-240-2S	120/240 VAC	Single Phase (split)									
	115%	125 kA	125 kA	125 kA	125 kA	250 kA	400 V	400 V	330 V	700 V	
PG4001-208-3Y	120/208 VAC	Three Phase Wye									
	115%	125 kA	125 kA	125 kA	125 kA	250 kA	400 V	400 V	330 V	700 V	
PG4001-240-3HLD	120/240 VAC	Three Phase High Leg Delta									
	115%	125 kA	125 kA	125 kA	125 kA	250 kA	400 V / (700 V)	400 V / (700 V)	330 V	900 V	
PG4001-480-3Y	277/480 VAC	Three Phase Wye									
	115%	125 kA	125 kA	125 kA	125 kA	250 kA	800 V	700 V	700 V	1,500	
PG4001-480-3DLL	480 VAC	Three Phase Delta									
	115%	—	—	—	125 kA	125 kA	—	—	—	1,500	
PG4001-600-3Y	347/600 VAC	Three Phase Wye									
	115%	125 kA	125 kA	125 kA	125 kA	250 kA	1,000 V	1,000 V	1,000 V	1,800	
PG4001-600-3D	600 VAC	Three Phase Delta									
	115%	—	125 kA	—	125 kA	250 kA	—	1,500 V	—	1,800	

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.

² All surge currents listed above are independently tested and verified per NEMA LS-1.

³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

Surge Suppression System



PG100 Series

Features

- Panel Extension design for mounting above or below 20" wide panel
- Available wiring space on each side for branch circuit or main input conductors
- All mode Protection (L-N, L-G, N-G, L-L)
- Redundant Protection per mode, replaceable master module
- Integral 200 KAIC fusing and thermal protection
- Fault Current Tested to 200 KAIC
- cETLus Listed to UL1449, 2nd Edition
- NEMA 3R Style Enclosure
- Lugs accept #10 to #2 AWG
- Available with flush mount cover PG1-FMP
- 10 year product warranty
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz

Integral Diagnostics

- LED Indicator Lights for each mode
- Form C Contacts
- Audible Alarm

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode) ²				Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
		L-G	L-N	L-G	N-G		L-L	L-N	L-G	N-G
PG100-240-2S	120/240 VAC	Single Phase (split)								
	115%	100 kA	100 kA	100 kA	100 kA	200 kA	330 V	330 V	330 V	600 V
PG100-208-3Y	120/208 VAC	Three Phase Wye								
	115%	100 kA	100 kA	100 kA	100 kA	200 kA	330 V	330 V	330 V	600 V
PG100-240-3HLD	120/240 VAC	Three Phase High Leg Delta								
	115%	100 kA	100 kA	100 kA	100 kA	200 kA	330 V (600 V)	330 V (700 V)	330 V	900 V
PG100-480-3Y	277/480 VAC	Three Phase Wye								
	115%	100 kA	100 kA	100 kA	100 kA	200 kA	800 V	800 V	700 V	1,500 V
PG100-480-3DLL	480 VAC	Three Phase Delta								
	115%	—	—	—	100 kA	100 kA	—	—	—	1,200 V

NOTES:

- ¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.
² All surge currents listed above are independently tested and verified per NEMA LS-1.
³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.
⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.



The PG100 Series is a hard wired suppression device installed in parallel and recommended for all ANSI/IEEE Category locations.

Dimensions:
16.0"H x 20.0"W x 6.0"D

Weight: 40 lbs



Flush Mount Plate PG1-FMP



Surge Suppression System

PG3500 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- 40 kA Brute Force MOVs
- 200 KAIC Surge Rated Fuses
- Fault Current Tested to 200 KAIC
- Easily Replaceable Master Surge Module
- NEMA 3R Style Enclosure
- Redundant Protection per mode
- Thermally Protected MOVs for maximum safety
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz
- cETLus Listed to UL1449, 2nd Edition
- Lugs accept #10 to #2 AWG
- 10 year product warranty

Integral Diagnostics

- LED Indicator Lights
- Audible Alarm
- Intermatic Thermal Monitoring System
- Form C Contacts

**200 kA
PER
PHASE**



The PG3500 Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations.
Dimensions:
28.66"H x 15.11"W x 8.05"D
Weight: 60 lbs.

		Surge Current Capacity (8 x 20 usec) (per mode) ²					Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴				
Intermatic	MCOV ¹	L-G	L-N	L-G	N-G	L-L		L-N	L-G	N-G	L-L	
PG3500-240-2S	120/240 VAC	Single Phase (split)										
	115%	100 kA	100 kA	100 kA	100 kA	200 kA	400 V	400 V	330 V	700 V		
PG3500-208-3Y	120/208 VAC	Three Phase Wye										
	115%	100 kA	100 kA	100 kA	100 kA	200 kA	400 V	400 V	330 V	700 V		
PG3500-240-3HLD	120/240 VAC	Three Phase High Leg Delta										
	115%	100 kA	100 kA	100 kA	100 kA	200 kA	400 V / (700 V)	400 V / (700 V)	330 V	900 V		
PG3500-480-3Y	277/480 VAC	Three Phase Wye										
	115%	100 kA	100 kA	100 kA	100 kA	200 kA	800 V	700 V	700 V	1,500		
PG3500-480-3DLL	480 VAC	Three Phase Delta										
	115%	—	—	—	100 kA	100 kA	—	—	—	—	1,500	
PG3500-600-3Y	347/600 VAC	Three Phase Wye										
	115%	100 kA	100 kA	100 kA	100 kA	200 kA	1,000 V	1,000 V	1,000 V	1,800		
PG3500-600-3D	600 VAC	Three Phase Delta										
	115%	—	100 kA	—	100 kA	200 kA	—	1,500 V	—	—	1,800	

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.

² All surge currents listed above are independently tested and verified per NEMA LS-1.

³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

Surge Suppression System



PG80 Series

Features

- Panel Extension design for mounting above or below 20" wide panel
- Available wiring space on each side for branch circuit or main input conductors
- All mode Protection (L-N, L-G, N-G, L-L)
- Redundant Protection per mode, replaceable master module
- Integral 200 KAIC fusing and thermal protection
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz
- cETLus Listed to UL1449, 2nd Edition
- NEMA 3R Style Enclosure
- Lugs accept #10 to #2 AWG
- Available with flush mount cover PG1-FMP
- 10 year product warranty
- Fault Current Tested to 200 KAIC

Integral Diagnostics

- LED Indicator Lights for each mode
- Form C Contacts
- Audible Alarm

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode) ²				Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
		L-G	L-N	L-G	N-G		L-L	L-N	L-G	N-G
PG80-240-2S	120/240 VAC	Single Phase (split)								
	115%	80 kA	80 kA	80 kA	80 kA	160 kA	330 V	330 V	330 V	600 V
PG80-208-3Y	120/208 VAC	Three Phase Wye								
	115%	80 kA	80 kA	80 kA	80 kA	160 kA	330 V	330 V	330 V	600 V
PG80-240-3HLD	120/240 VAC	Three Phase High Leg Delta								
	115%	80 kA	80 kA	80 kA	80 kA	160 kA	330 V (600 V)	330 V (700 V)	330 V	900 V
PG80-480-3Y	277/480 VAC	Three Phase Wye								
	115%	80 kA	80 kA	80 kA	80 kA	160 kA	800 V	800 V	700 V	1500 V
PG80-480-3DLL	480 VAC	Three Phase Delta								
	115%	—	80 kA	—	80 kA	80 kA	—	—	—	1,200

NOTES:

- ¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.
- ² All surge currents listed above are independently tested and verified per NEMA LS-1.
- ³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.
- ⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.



The PG80 Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations.

Dimensions:
16.0"H x 20.0"W x 6.0"D

Weight: 40 lbs.



Flush Mount Plate PG1-FMP



Surge Suppression System



The PG3000 Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations.

Dimensions:

28.66"H x 15.11"W x 8.05"D

Weight: 60 lbs.

PG3000 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- 40 kA Brute Force MOVs
- Thermally Protected MOVs for maximum safety
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz
- cETLus Listed to UL 1449, 2nd Edition
- 10 year product warranty
- Redundant Protection per mode
- 200 KAIC Surge Rated Fuses
- Fault Current Tested to 200 KAIC
- Easily Replaceable Master Surge Module
- NEMA 3R Style Enclosure

Integral Diagnostics

- LED Indicator Lights
- Audible Alarm
- Intermatic Thermal Monitoring System
- Form C Contacts

Intermatic Model	Surge Current Capacity (8 x 20 usec) (per mode) ²					Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
	MCOV ¹	L-G	L-N	N-G	L-L		L-N	L-G	N-G	L-L
PG3000-240-2S	120/240 VAC	Single Phase (split)								
	115%	80 kA	80 kA	80 kA	80 kA	160 kA	400 V	400 V	330 V	700 V
PG3000-208-3Y	120/208 VAC	Three Phase Wye								
	115%	80 kA	80 kA	80 kA	80 kA	160 kA	400 V	400 V	330 V	700 V
PG3000-240-3HLD	120/240 VAC	Three Phase High Leg Delta								
	115%	80 kA	80 kA	80 kA	80 kA	160 kA	400 V / (700 V)	400 V / (700 V)	330 V	900 V
PG3000-480-3Y	277/480 VAC	Three Phase Wye								
	115%	80 kA	80 kA	80 kA	80 kA	160 kA	800 V	700 V	700 V	1,500 V
PG3000-480-3DLL	480 VAC	Three Phase Delta								
	115%	—	—	—	80 kA	80 kA	—	—	—	1,500 V
PG3000-600-3Y	347/600 VAC	Three Phase Wye								
	115%	80 kA	80 kA	80 kA	80 kA	160 kA	1,000 V	1,000 V	1,000 V	1,800 V
PG3000-600-3D	600 VAC	Three Phase Delta								
	115%	—	80 kA	—	80 kA	160 kA	—	1,500 V	—	1,800 V

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.

² All surge currents listed above are independently tested and verified per NEMA LS-1.

³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

Surge Suppression System



PG60 Series

Features

- Panel Extension design for mounting above or below 20" wide panel
- Available wiring space on each side for branch circuit or main input conductors
- All mode Protection (L-N, L-G, N-G, L-L)
- Redundant Protection per mode, replaceable master module
- Integral 200 KAIC fusing and thermal protection
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz
- cETLus Listed to UL1449, 2nd Edition
- NEMA 3R Style Enclosure
- Lugs accept #10 to #2 AWG
- Available with flush mount cover PG1-FMP
- 10 year product warranty
- Fault Current Tested to 200 KAIC

Integral Diagnostics

- LED Indicator Lights for each mode
- Form C Contacts
- Audible Alarm

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode) ²				Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
		L-G	L-N	L-G	N-G		L-L	L-N	L-G	N-G
PG60-240-2S	120/240 VAC	Single Phase (split)								
	115%	60 kA	60 kA	60 kA	60 kA	120 kA	330 V	330 V	330 V	600 V
PG60-208-3Y	120/208 VAC	Three Phase Wye								
	115%	60 kA	60 kA	60 kA	60 kA	120 kA	330 V	330 V	330 V	600 V
PG60-240-3HLD	120/240 VAC	Three Phase High Leg Delta								
	115%	60 kA	60 kA	60 kA	60 kA	120 kA	330 V (600 V)	330 V (700 V)	330 V	900 V
PG60-480-3Y	277/480 VAC	Three Phase Wye								
	115%	60 kA	60 kA	60 kA	60 kA	120 kA	800 V	800 V	700 V	1,500 V
PG60-480-3DLL	480 VAC	Three Phase Delta								
	115%	—	—	—	60 kA	60 kA	—	—	—	1,200 V

NOTES:

- ¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.
² All surge currents listed above are independently tested and verified per NEMA LS-1.
³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.
⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.



120kA PER PHASE

The PG60 Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations.

Dimensions:
16.0"H x 20.0"W x 6.0"D

Weight: 40 lbs.



Flush Mount Plate PG1-FMP



Surge Suppression System



**120 kA
PER
PHASE**

The PG2500 Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations.

16.47"H x 10.59"W x 4.9"D
28 lbs.



Flush Mount Plate IG1FMP-PG

PG2500 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- Redundant Protection per mode
- 200 KAIC Surge Rated Fuses
- Thermally Protected MOVs for maximum safety
- Fault Current Tested to 200 KAIC
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz
- cETLus Listed to UL1449, 2nd Edition
- NEMA 3R Style Enclosure
- Pre-wired with 40" of #10 AWG wire leads
- 10 year product warranty

Integral Diagnostics

- LED Indicator Lights for each mode
- Form C Contacts
- Audible Alarm

Intermatic Model	Surge Current Capacity (8 x 20 usec) (per mode) ²					Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
	MCOV ¹ L-G	L-N	L-G	N-G	L-L		L-N	L-G	N-G	L-L
IG2401SECA	120/240 VAC Single-Phase (Split)									
	115%	60 kA	60 kA	60 kA	60 kA	120 kA	400 V	400 V	330 V	600 V
IG2083YECA	120/208 VAC Three Phase Wye									
	115%	60 kA	60 kA	60 kA	60 kA	120 kA	400 V	400 V	330 V	600 V
IG2403DECA	120/240 VAC Three Phase High Leg Delta									
	115%	60 kA	60 kA	60 kA	60 kA	120 kA	400 V / (600 V)	400 V / (700 V)	330 V	700 V
IG4803YECA	277/480 VAC Three Phase Wye									
	115%	60 kA	60 kA	60 kA	60 kA	120 kA	800 V	800 V	400 V	1,500
IG4803DECA	480 VAC Three Phase Delta									
	115%	—	120 kA	—	60 kA	180 kA	—	1,500 V	—	1,200

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.

² All surge currents listed above are independently tested and verified per NEMA LS-1.

³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

Good while quantities last in stock. To be obsoleted in 2008.

Surge Suppression System



PG2000 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- Redundant Protection per mode
- 200 KAIC Surge Rated Fuses
- Thermally Protected MOVs for maximum safety
- Fault Current Tested to 200 KAIC
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz
- cETLus Listed to UL1449, 2nd Edition
- NEMA 3R Style Enclosure
- Pre-wired with 40" of #10 AWG wire leads
- 10 year product warranty

Integral Diagnostics

- LED Indicator Lights
- Form C Contacts
- Intermatic Thermal Monitoring System

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode) ²				Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
		L-G	L-N	L-G	N-G		L-L	L-N	L-G	N-G
IG2401ECS	120/240 VAC	Single-Phase (Split)								
	115%	30 kA	30 kA	30 kA	30 kA	60 kA	500 V	400 V	400 V	700 V
IG2083ECY	120/208 VAC	Three Phase Wye								
	115%	30 kA	30 kA	30 kA	30 kA	60 kA	400 V	500 V	400 V	700 V
IG2403ECD	120/240 VAC	Three Phase High Leg Delta								
	115%	30 kA	30 kA	30 kA	30 kA	60 kA	400 V / (700 V)	400 V / (700 V)	330 V	700 V
IG4803ECY	277/480 VAC	Three Phase Wye								
	115%	30 kA	30 kA	30 kA	30 kA	60 kA	800 V	800 V	400 V	1,500 V
IG4803ECD	480 VAC	Three Phase Delta								
	115%	—	60 kA	—	30 kA	90 kA	—	1,500 V	—	1,500 V

NOTES:
¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.
² All surge currents listed above are independently tested and verified per NEMA LS-1.
³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.
⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

Good while quantities last in stock. To be obsoleted in 2008.



60 kA PER PHASE

The PG2000 Series is a hardwired parallel suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations.

Dimensions:
16.47"H x 10.59"W x 4.9"D

Weight: 28 lbs.



Flush Mount Plate IG1FMP-PG



Surge Suppression System



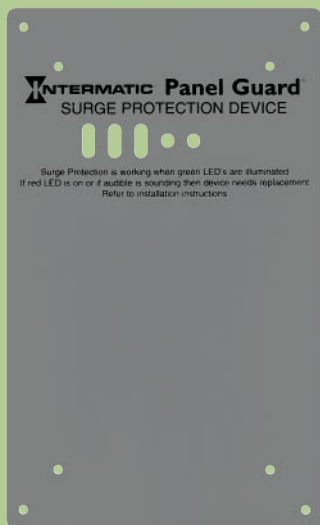
**80 kA
PER
PHASE**

The PG40 Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations.

Dimensions:

11.0"H x 5.875"W x 3.75"D

Weight: 22 lbs.



Flush Mount Plate PG2-FMP

PG40 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- Redundant Protection per mode
- Integral 200 KAIC fusing and thermal protection
- Thermally protected MOVs for maximum safety
- Fault current tested to 200 KAIC
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz
- cETLus Listed to UL1449, 2nd Edition
- NEMA 3R style enclosure
- Pre-wired with 30" of #10 AWG wire leads
- Available with flush mount cover PG2-FMP
- 10 year product warranty

Integral Diagnostics

- LED indicator lights for each mode
- Form C Contacts
- Audible alarm

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode) ²					Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
		L-G	L-N	L-G	N-G	L-L		L-N	L-G	N-G	L-L
PG40-240-2S	120/240 VAC	Single Phase (split)									
	115%	40 kA	40 kA	40 kA	40 kA	80 kA	330 V	330 V	400 V	700 V	
PG40-208-3Y	120/208 VAC	Three Phase Wye									
	115%	40 kA	40 kA	40 kA	40 kA	80 kA	330 V	330 V	400 V	700 V	
PG40-240-3HLD	120/240 VAC	Three Phase High Leg Delta									
	115%	40 kA	40 kA	40 kA	40 kA	80 kA	330 V (600 V)	330 V (600 V)	400 V	900 V	
PG40-480-3Y	277/480 VAC	Three Phase Wye									
	115%	40 kA	40 kA	40 kA	40 kA	80 kA	800 V	800 V	800 V	1,500 V	
PG40-480-3D	480 VAC	Three Phase Delta									
	115%	—	40 kA	—	40 kA	80 kA	—	1,200 V	—	1,200 V	

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.

² All surge currents listed above are independently tested and verified per NEMA LS-1.

³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

Surge Suppression System



EH Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- Redundant Protection per mode
- 200 KAIC Surge Rated Fuses
- Thermally Protected MOVs for maximum safety
- Fault Current Tested to 200 KAIC
- EMI/RFI Filtration – 20 to 30 dB from 20 kHz to 100 MHz
- cETLus Listed to UL1449, 2nd Edition
- NEMA 3R Style Enclosure
- Pre-wired with 30" of #10 AWG wire leads
- 10 year product warranty

Integral Diagnostics

- LED Indicator Lights
- Intermatic Thermal Monitoring System

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode) ²					Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
		L-G	L-N	L-G	N-G	L-L		L-N	L-G	N-G	L-L
IG1201EH	120 VAC	Single Phase									
	115%	26 kA	26 kA	26 kA	—	52 kA	500 V	500 V	500 V	—	
IG2401EH	120/240 VAC	Single Phase (split)									
	115%	26 kA	26 kA	26 kA	26 kA	52 kA	400 V	400 V	400 V	700 V	
IG2083YEH	120/208 VAC	Three Phase Wye									
	115%	26 kA	26 kA	26 kA	26 kA	52 kA	400 V	400 V	400 V	700 V	
IG2403DEH	120/240 VAC	Three Phase High Leg Delta									
	115%	26 kA	26 kA	26 kA	26 kA	52 kA	400 V / (700 V)	400 V / (700 V)	400 V	700 V	
IG4803YEH	277/480 VAC	Three Phase Wye									
	115%	26 kA	26 kA	26 kA	26 kA	52 kA	800 V	800 V	400 V	1,500 V	
IG4803DEH	480 VAC	Three Phase Delta									
	115%	—	52 kA	—	26 kA	78 kA	—	1,200 V	—	1,500 V	

NOTES:

- ¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.
² All surge currents listed above are independently tested and verified per NEMA LS-1.
³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.
⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.



The EH Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations.

Dimensions:
7.5"H x 4.25"W x 4.0"D

Weight: 5.5 lbs.



Flush Mount Plate IG1FMP-H



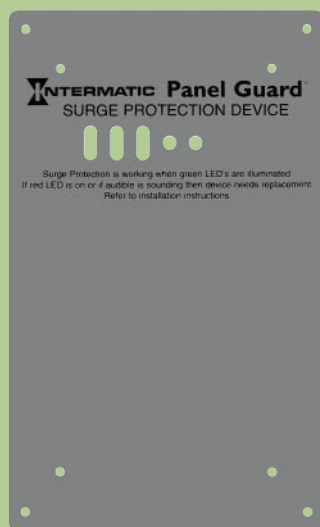
Surge Suppression System



The PG20 Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations.

Dimensions: 11.0"H x 5.875"W x 3.75"D

Weight: 22 lbs.



Flush Mount Plate PG2-FMP

PG20 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- Redundant Protection per mode
- Integral 200 KAIC fusing and thermal protection
- Thermally protected MOVs for maximum safety
- Fault current tested to 200 KAIC
- EMI/RFI Filtration – Up to 54 dB from 20 kHz to 100 MHz
- cETLus Listed to UL1449, 2nd Edition
- NEMA 3R style enclosure
- Pre-wired with 30" of #10 AWG wire leads
- Available with flush mount cover PG2-FMP
- 10 year product warranty

Integral Diagnostics

- LED indicator lights for each mode
- Form C Contacts
- Audible alarm

Intermatic Model	Surge Current Capacity (8 x 20 usec) (per mode) ²					Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
	MCOV ¹ L-G	L-N	L-G	N-G	L-L		L-N	L-G	N-G	L-L
PG20-240-2S	120/240 VAC Single Phase (split)									
	115%	20 kA	20 kA	20 kA	20 kA	40 kA	330 V	330 V	400 V	700 V
PG20-208-3Y	120/208 VAC Three Phase Wye									
	115%	20 kA	20 kA	20 kA	20 kA	40 kA	330 V	330 V	400 V	700 V
PG20-240-3HLD	120/240 VAC Three Phase High Leg Delta									
	115%	20 kA	20 kA	20 kA	20 kA	40 kA	330 V (600 V)	330 V (600 V)	400 V	900 V
PG20-480-3Y	277/480 VAC Three Phase Wye									
	115%	20 kA	20 kA	20 kA	20 kA	40 kA	800 V	800 V	800 V	1,500 V
PG20-480-3D	480 VAC Three Phase Delta									
	115%	—	20 kA	—	20 kA	40 kA	—	1,200 V	—	1,200 V

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.

² All surge currents listed above are independently tested and verified per NEMA LS-1.

³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

Surge Suppression System



LH Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- 200 KAIC Surge Rated Fuses
- Thermally Protected MOVs for maximum safety
- Fault Current Tested to 200 KAIC
- EMI/RFI Filtration – 20 to 30 dB from 20 kHz to 100 MHz
- cETLus Listed to UL1449, 2nd Edition
- NEMA 3R Style Enclosure
- Pre-wired with 30" of #10 AWG wire leads
- 10 year product warranty

Integral Diagnostics

- LED Indicator Lights
- Intermatic Thermal Monitoring System

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode) ²				Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
		L-G	L-N	L-G	N-G		L-L	L-N	L-G	N-G
IG1201LH 120 VAC Single Phase										
	115%	13 kA	13 kA	13 kA	13 kA	26 kA	500 V	500 V	400 V	—
IG2401LH 120/240 VAC Single Phase (split)										
	115%	13 kA	13 kA	13 kA	13 kA	26 kA	400 V	500 V	400 V	700 V
IG2083LYH 120/208 VAC Three Phase Wye										
	115%	13 kA	13 kA	13 kA	13 kA	26 kA	500 V	500 V	400 V	700 V
IG2403LDH 120/240 VAC Three Phase High Leg Delta										
	115%	13 kA	13 kA	13 kA	13 kA	26 kA	500 V / (700 V)	500 V / (700 V)	500 V	700 V
IG4803LYH 277/480 VAC Three Phase Wye										
	115%	13 kA	13 kA	13 kA	13 kA	26 kA	800 V	800 V	500 V	1,500 V
IG4803LDH 480 VAC Three Phase Delta										
	115%	—	26 kA	—	13 kA	39 kA	—	1,500 V	—	1,500 V

NOTES:

- ¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.
- ² All surge currents listed above are independently tested and verified per NEMA LS-1.
- ³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.
- ⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.



The LH Series is a hardwired suppression device (installed in parallel) and recommended for ANSI/IEEE Category locations for A and B.

Dimensions:
7.5"H x 4.25"W x 4.0"D

Weight: 5.5 lbs.



Flush Mount Plate IG1FMP-H



Surge Suppression System



PG1500 Series

Features

- L-N, N-G protection modes (4 mode)
- Redundant protection per mode
- Integral 200 KAIC fusing and thermal protection
- Thermally protected MOVs for maximum safety
- Fault current tested to 200 KAIC
- EMV/RFI filtration – Up to 54 dB from 20 kHz to 100 MHz
- cETLus Listed to UL1449, 2nd Edition
- NEMA 3R style enclosure
- Pre-wired with 30" of #10 AWG wire leads
- Available with flush mount cover PG2-FMP
- 10 year product warranty

Integral Diagnostics

- LED indicator lights for each mode
- Form C Contacts
- Audible alarm

Intermatic Model	Surge Current Capacity (8 x 20 usec) (per mode) ²					Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
	MCOV ¹	L-N	L-G	N-G	L-L		L-N	L-G	N-G	L-L
PG1500-240-2S	120/240 VAC	Single Phase (split)								
	115%	80 kA	—	40 kA	80 kA	80 kA	330 V	700 V	400 V	600 V
PG1500-208-3Y	120/208 VAC	Three Phase Wye								
	115%	80 kA	—	40 kA	80 kA	80 kA	330 V	700 V	400 V	600 V
PG1500-480-3Y	277/480 VAC	Three Phase Wye								
	115%	80 kA	—	40 kA	80 kA	80 kA	800 V	1,500 V	800 V	1,500 V
PG1500-480-3D	480 VAC	Three Phase Delta								
	115%	—	80 kA	—	80 kA	160 kA	—	1,200 V	—	1,200 V

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.

² All surge currents listed above are independently tested and verified per NEMA LS-1.

³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

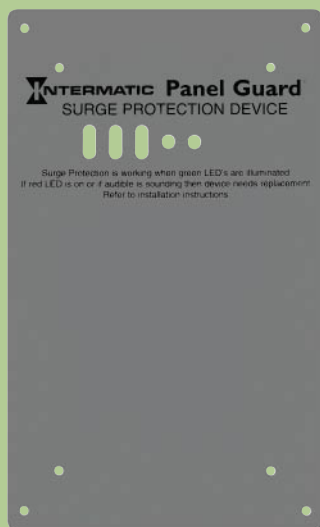
⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

The PG1500 Series is a hardwired surge suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations.

Dimensions:

11.0"H x 5.875"W x 3.75"D

Weight: 22 lbs.



Flush Mount Plate PG2-FMP

Surge Suppression System



PG1000 Series

Features

- L-N, N-G protection modes (4 mode)
- Redundant protection per mode
- Integral 200 KAIC fusing and thermal protection
- Thermally protected MOVs for maximum safety
- Fault current tested to 200 KAIC
- EMI/RFI filtration – Up to 54 dB from 20 kHz to 100 MHz
- cETLus Listed to UL1449, 2nd Edition
- NEMA 3R style enclosure
- Pre-wired with 30" of #10 AWG wire leads
- Available with flush mount cover PG2-FMP
- 10 year product warranty

Integral Diagnostics

- LED indicator lights for each mode
- Form C Contacts
- Audible alarm

Intermatic Model	Surge Current Capacity (8 x 20 usec) (per mode) ²					Per Phase ³	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ⁴			
	MCOV ¹	L-N	L-G	N-G	L-L		L-N	L-G	N-G	L-L
PG1000-240-2S	120/240 VAC	Single Phase (split)								
	115%	40 kA	—	40 kA	40 kA	40 kA	330 V	700 V	400 V	600 V
PG1000-208-3Y	120/208 VAC	Three Phase Wye								
	115%	40 kA	—	40 kA	40 kA	40 kA	330 V	700 V	400 V	600 V
PG1000-480-3Y	277/480 VAC	Three Phase Wye								
	115%	40 kA	—	40 kA	40 kA	40 kA	800 V	1,500 V	800 V	1,500 V
PG1000-480-3D	480 VAC	Three Phase Delta								
	115%	—	40 kA	—	40 kA	80 kA	—	1,200 V	—	1,200 V

NOTES:

- ¹ MCOV is Maximum Continuous Operating Voltage expressed in percentage of nominal voltage.
- ² All surge currents listed above are independently tested and verified per NEMA LS-1.
- ³ Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.
- ⁴ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.



The PG1000 Series is a hardwired suppression device (installed in parallel) and recommended for all ANSI/IEEE Category locations.

Dimensions:

11.0"H x 5.875"W x 3.75"D

Weight: 22 lbs.



Flush Mount Plate PG2-FMP



Modular Protection System



**300 kA
PER
PHASE**



The SG320 Series is a modular hardwired suppression device and recommended for all ANSI/IEEE Category locations. Contains one bolt-on module per phase for easy maintenance.

Dimensions: 16"H x 14"W x 6"D

Weight: 29 lbs.

REPLACEMENT MODULE INFORMATION

System Number:	Quantity & Part Number
SG320K-208-3Y	(3) SG160-120V-M
SG320K-240-3HLD	(2) SG160-120V-M (1) SG160-240V-M
SG320K-480-34	(3) SG160-277V-M
SG320K-480-3D	(3) SG160-480V-M

SG320 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- Fault Current Tested to 100 KAIC
- EMI/RFI Filtration – Up to 50 dB from 20 kHz to 100 MHz
- Replaceable Modules for low MTTR
- NEMA 12 Enclosure
- 40 kA Brute Force MOVs
- Redundant Protection per mode
- Thermally Protected MOVs for maximum safety
- cETLus Listed to UL1449, 2nd Edition
- 5 year product warranty

Installation:

- Recommended installation is with 30-100 Amp breaker

Integral Diagnostics

- LED Indicator Lights
- Audible Alarm
- Form C Contacts
- Digital Surge Counter

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode)				Per Phase ²	3rd Edition UL 1449 Clamping Voltage (SVR) 6 kV, 3,000 Amp (8 x 20 usec) ³			
		L-G	L-N	L-L	N-G		L-N	L-G	N-G	L-L
SG320K-208-3Y 120/208 VAC Three Phase Wye	115%	150 kA	150 kA	100 kA	150 kA	300 kA	600 V	600 V	600 V	1,200
V										
SG320K-240-3HLD 120/240 VAC Three Phase High Leg Delta	115%	150 kA	150 kA	100 kA	150 kA	300 kA	600 V / (1,000 V)	600 V / (1,000 V)	600 V	2,000
V										
SG320K-480-3Y 277/480 VAC Three Phase Wye	115%	150 kA	150 kA	100 kA	150 kA	300 kA	1,000 V	1,000 V	1,000 V	2,000
V										
SG320K-480-3D 480 VAC Three Phase Delta	115%	—	150 kA	—	150 kA	300 kA	—	1,500 V	—	3,000
V										

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percent of nominal voltage.

² Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

³ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

Modular Protection System



SG240 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- Fault Current Tested to 100 KAIC
- EMI/RFI Filtration – Up to 50 dB from 20 kHz to 100 MHz
- Replaceable Modules for low MTTR
- NEMA 12 Enclosure
- 40 kA Brute Force MOVs
- Redundant Protection per mode
- Thermally Protected MOVs for maximum safety
- cETLus Listed to UL1449, 2nd Edition
- 5 year product warranty

Installation:

- Recommended installation is with 30-100 Amp breaker

Integral Diagnostics

- LED Indicator Lights
- Form C Contacts
- Audible Alarm
- Digital Surge Counter

Intermatic Model	MCOV ¹	Surge Current Capacity (8 x 20 usec) (per mode)				Per Phase ²	3rd Edition UL 1449 Clamping Voltage (SVR) 6 kV, 3,000 Amp (8 x 20 usec) ³			
		L-G	L-N	L-G	N-G		L-L	L-N	L-G	N-G
SG240K-208-3Y	120/208 VAC	Three Phase Wye								
	115%	100 kA	100 kA	100 kA	100 kA	200 kA	600 V	600 V	600 V	1,200 V
SG240K-240-3HLD	120/240 VAC	Three Phase High Leg Delta								
	115%	100 kA	100 kA	100 kA	100 kA	200 kA	600 V / (1,000 V)	600 V / (1,000 V)	600 V	2,000 V
SG240K-480-3Y	277/480 VAC	Three Phase Wye								
	115%	100 kA	100 kA	100 kA	100 kA	200 kA	1,000 V	1,000 V	1,000 V	2,000 V
SG240K-480-3D	480 VAC	Three Phase Delta								
	115%	—	100 kA	—	100 kA	200 kA	—	1,500 V	—	3,000 V

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percent of nominal voltage.
² Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.
³ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.



The SG240 Series is a modular hardwired suppression device and recommended for all ANSI/IEEE Category locations. Contains one bolt-on module per phase for easy maintenance.

Dimensions:

16"H x 14"W x 6"D

Weight: 28 lbs.

REPLACEMENT MODULE INFORMATION

System Number:	Quantity & Part Number
SG240K-208-3Y	(3) SG120-120V-M
SG240K-240-3HLD	(2) SG120-120V-M
	(1) SG120-240V-M
SG240K-480-34	(3) SG120-277V-M
SG240K-480-3D	(3) SG120-480V-M



Modular Protection System



The SG160 Series is a modular hardwired suppression device and recommended for all ANSI/IEEE Category locations. Contains one bolt-on module per phase for easy maintenance.

Dimensions: 16"H x 14"W x 6"D

Weight: 27 lbs.

REPLACEMENT MODULE INFORMATION

System Number:	Quantity & Part Number
SG160K-208-3Y	(3) SG80-120V-M
SG160K-240-3HLD	(2) SG80-120V-M
	(1) SG80-240V-M
SG160K-480-34	(3) SG80-277V-M
SG160K-480-3D	(3) SG80-480V-M

SG160 Series

Features

- All mode Protection (L-N, L-G, N-G, L-L)
- Fault Current Tested to 100 KAIC
- EMI/RFI Filtration – Up to 50 dB from 20 kHz to 100 MHz
- Replaceable Modules for low MTTR
- NEMA 12 Enclosure
- 40 kA Brute Force MOVs
- Redundant Protection per mode
- Thermally Protected MOVs for maximum safety
- cETLus Listed to UL1449, 2nd Edition
- 5 year product warranty

Installation:

- Recommended installation is with 30-100 Amp breaker

Integral Diagnostics

- LED Indicator Lights
- Audible Alarm
- Form C Contacts
- Digital Surge Counter

	Surge Current Capacity (8 x 20 usec) (per mode)					Per Phase ²	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ³			
Intermatic	MCOV¹									
Model	L-G	L-N	L-G	N-G	L-L		L-N	L-G	N-G	L-L
SG160K-208-3Y 120/208 VAC Three Phase Wye	115%	50 kA	50 kA	100 kA	50 kA	100 kA	600 V	600 V	600 V	1,200 V
SG160K-240-3HLD 120/240 VAC Three Phase High Leg Delta	115%	50 kA	50 kA	100 kA	50 kA	100 kA	600 V /	600 V /	600 V	1,200 V
							(1,000 V)	(1,000 V)		
SG160K-480-3Y 277/480 VAC Three Phase Wye	115%	50 kA	50 kA	100 kA	50 kA	100 kA	1,000 V	1,000 V	1,000 V	2,000 V
SG160K-480-3D 480 VAC Three Phase Delta	115%	—	50 kA	—	50 kA	100 kA	—	1,500 V	—	3,000 V

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percent of nominal voltage.

² Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

³ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

Industrial Point-of-Use Protection



F20 Series

Features

- All mode Protection
- Thermally Protected MOVs for maximum safety
- cETLus Listed to UL1449, 2nd Edition
- NEMA 4 Enclosure
- EMI/RFI Filtration – 26 to 39 dB
- 5 year product warranty

Integral Diagnostics

- LED Indicator Lights
- Intermatic Thermal Monitoring System
- Form C Contacts

Intermatic Model	Surge Current Capacity (8 x 20 usec) (per mode)					Per Phase ²	UL 1449 Clamping Voltage (SVR) 6 kV, 500 Amp (8 x 20 usec) ³				
	MCOV ¹ L-G	L-N	L-G	N-G	L-L		L-N	L-G	N-G	L-L	
IG1201F20	120 VAC Single Phase										
	115%	16 kA	16 kA	16 kA	—	32 kA	500 V	500 V	500 V	—	
IG2401F20	240 VAC Single Phase										
	115%	—	32 kA	—	16 kA	48 kA	—	700 V	—	700 V	

NOTES:

¹ MCOV is Maximum Continuous Operating Voltage expressed in percent of nominal voltage.

² Per Phase is defined as L-N + L-G for three phase 4-wire wye systems; L-G + L-L for three phase 3-wire delta systems.

³ Let-Through Voltage measured with 6 inch lead lengths per UL Standard 1449, 2nd Edition.

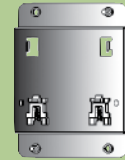
Good while quantities last in stock. To be obsoleted in 2008.



The F20 Series is a hardwired in line suppression device for protection of loads up to 20 Amps including fire alarm circuits, industrial controls, PLC's and any other sensitive electronic equipment.

Dimensions:
4.54"H x 3.5"W x 2.2"D

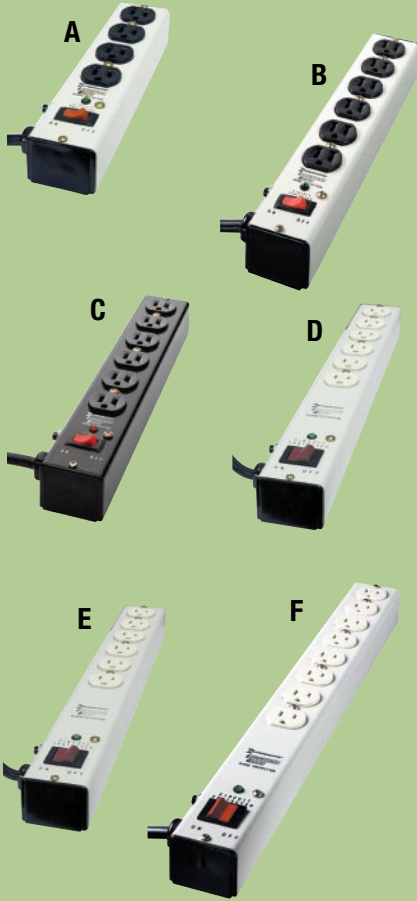
Weight: 2.5 lbs.



Din Rail Adapter Kit IG1DIN-F20



Industrial Point-of-Use Protection



Features

- Designed for heavy industrial use
- 3-mode Surge Protection (L-N, L-G, N-G)
- UL1449, 2nd Edition, cULus
- EMI/RFI noise filtration

- 14 gauge SJT power cord with molded plug
- Protection monitoring circuitry with LED light indicator
- 15 amp resettable breaker
- Ivory metal housing

A. IG11246

- 4-outlets
- 6 ft. cord
- Lighted On/Off switch

E. IG20B12 & IG2012B15

- 6 specification-grade outlets
- Master On/Off switch
- Enhanced EMI/RFI noise filtration, UL1283
- 6 ft. cord (IG20B12); 15 ft. cord (IG2012B15)

B. IG11266

- 6-outlets
- 6 ft. cord
- Lighted On/Off switch

F. IG2086

- 8 specification-grade outlets
- Master On/Off switch
- Enhanced EMI/RFI noise filtration, UL1283
- 6 ft. cord

C. IG11266BLK10

- Black
- 6-outlets
- 10 ft. cord
- Lighted On/Off switch

D. IG2066 & IG20615

- 6 specification-grade outlets
- Master On/Off switch
- Enhanced EMI/RFI noise filtration, UL1283
- 6 ft. cord (IG2066); 15 ft. cord (IG20615)

See chart on page 143 for UL1449 ratings and EMI/RFI filtration.

Computer Control Centers

Features

- 6 centralized switches
- One unswitched receptacle
- Metal housing
- Static discharge pad
- 15 Amp, resettable circuit breaker

- 9 ft., 14 gauge power cord
- LED Indicator Light monitors power on & protection status
- L-N, L-G and N-G surge protection
- cULus
- UL1449, 2nd Edition

G. IG141

- Standard model

H. IG143

- Enhanced EMI/RFI noise attenuation
- Dual choke design for lower clamping



G
H



Mounting Bracket & Plate

O. 24EG5133

- Secures mounting bracket for all IG strips in extruded aluminum alloy housing (See models on chart with *)

Product Selection Chart – Point of Use Models

Intermatic Model	Number of Outlets	Cord Length	Electrical Rating	Energy Capacity			Connected Equipment \$ Coverage	UL1449 Clamping Voltage (SVR) 6 kV, 500A (8 x 20 μ sec)	EMI-RFI Noise Filtration		Prod. Warr. (yrs)
				Max. Joule. Rating	Max. Surge. Amperage				Frequency Range (Hz)	Max. Reduc.	
Industrial Grade								L-N/L-G/N-G			
IG11246*	4	6	120 V/15 A	480	24,000 A	\$10,000	400/400/400	100k-20M	25dB	5	
IG11266*	6	6	120 V/15 A	480	24,000 A	\$10,000	400/400/400	100k-20M	25dB	5	
IG11266BLK10*	6	10	120 V/15 A	480	24,000 A	\$10,000	400/400/400	100k-20M	25dB	5	
IG2066*	6	6	120 V/15 A	960	48,000 A	\$25,000	330/330/330	100k-100M	62dB	5	
IG20615*	6	15	120 V/15 A	960	48,000 A	\$25,000	330/330/330	100k-100M	62dB	5	
IG20B12*	6	6	120 V/15 A	480	24,000 A	\$ 5,000	400/400/400	100k-20M	25dB	5	
IG2012B15*	6	15	120 V/15 A	480	24,000 A	\$ 5,000	400/400/400	100k-20M	25dB	5	
IG2086*	8	6	120 V/15 A	960	48,000 A	\$25,000	330/330/330	100k-100M	62dB	5	
Computer Control Centers											
IG141	6	9	120 V/15 A	480	24,000 A	\$10,000	400/400/400	100k-20M	25dB	5	
IG143	6	9	120 V/15 A	960	48,000 A	\$25,000	330/330/330	100k-100M	62dB	5	

* = Extruded aluminum housing

NOTE: Cord lengths can be modified up to 25 feet. Consult Factory for pricing and availability.

0





Residential Hardwired Protection

IG Series

Features

- Hardwired models provide greater capacity to handle surge energy (based on their close location to the service ground) compared to standard plug-in strips
- Designed for 120/240 volt single or (split-phase) panels
- Dual LED indicator(s) provides surge protection status on AC

A. IG1300-2T-1C

- 120/240 VAC Single (Split) Phase
- 6 Modes of Surge Protection (L1-N, L2-N, L1-G, L2-G, N-G, L1-L2)
- Provides protection for 2 Telephone Lines (Analog Phone Line, Modem, or DSL) and 1 Coax Line (Cable TV, Cable Internet or Satellite TV)
- cCSAus Listed to UL1449, 2nd Edition
- NEMA 3R Raintight Enclosure for indoor or outdoor installations (9.38"H x 5.25"W x 4.0"D)
- Tested to 65 kAIC per NEC Section 285
- 5 Year Product Warranty
- \$10,000 Connected Equipment Coverage



B. IG1300-4T-2C

- 120/240 VAC Single (Split) Phase
- 6 Modes of Surge Protection (L1-N, L2-N, L1-G, L2-G, N-G, L1-L2)
- Provides protection for 4 Telephone Lines (Analog Phone Line, Modem, or DSL) and 2 Coax Lines (Cable TV, Cable Internet or Satellite TV)
- cCSAus Listed to UL1449, 2nd Edition
- NEMA 3R Raintight Enclosure for indoor or outdoor installations (9.38"H x 5.25"W x 4.0"D)
- Tested to 65 kAIC per NEC Section 285
- 5 Year Product Warranty
- \$10,000 Connected Equipment Warranty (Appliances and Electronics) [5 year]



C. IG1240RC

- 120/240 VAC Single (Split) phase
- 6 Modes of Surge Protection (L1-N, L2-N, L1-G, L2-G, N-G, L1-L2)
- Green LED indicator provides status of protection; Red LED indicator indicates reduced protection
- Plastic housing (5.65"H x 4.18"W x 3.33"D)
- 5 year product warranty
- UL Listed UL1449, 2nd edition, cULus
- Tested to 65 kAIC per NEC Section 285
- \$10,000 Connected Equipment Coverage (Appliances and Electronics) [5 year]



IG1240FMP3

- Includes faceplate, screws and mounting bracket for IG1240RC

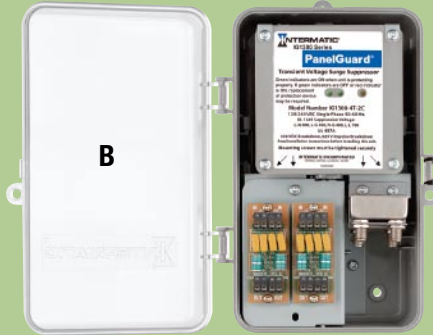
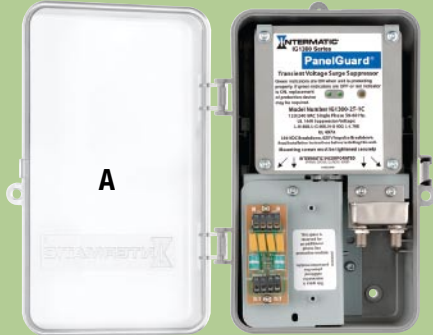


D. IG3240RC

- 120/240 VAC Single (Split) phase
- 6 Modes of Surge Protection (L1-N, L2-N, L1-G, L2-G, N-G, L1-L2)
- Green LED indicator provides status of protection; Red LED indicator indicates reduced protection
- Metal housing (6.28"H x 4.4"W x 3.25"D)
- 10 year product warranty
- UL Listed UL1449, 2nd edition, cULus
- Tested to 65 kAIC per NEC Section 285
- \$25,000 Connected Equipment Coverage (Appliances and Electronics) [5 year]

IG3240FMP3

- Includes faceplate, screws and mounting bracket for IG3240RC



Flush Mount Plates
IG1240FMP3

IG3240FMP3



IG Series (continued)

Intermatic Model	Service Voltage	Phase	Leads #	Length	Gauge	Wire Config.	Peak Surge Current Per Phase/System	UL 1449 Clamping Voltage (SVR)			
								6 kV, 500 Amp (8 x 20 μ sec)	L-N	L-G	N-G
IG1300-2T-1C	120/240	2	4	24	14	L1, L2, N, GND	20 kA/60 kA	500	500	500	700
IG1300-4T-2C	120/240	2	4	24	14	L1, L2, N, GND	20 kA/60 kA	500	500	500	700
IG1240RC	120/240	2	4	30	14	L1, L2, N, GND	20 kA/60 kA	400	400	400	700
IG3240RC	120/240	2	4	30	14	L1, L2, N, GND	60 kA/180 kA	400	400	400	600

Stand Alone Telephone / Modem / DSL Internet Lines

E. IG2TM

- Provides protection for 2 lines
- Tip to Ground, Tip to Ring and Ring to Ground Modes
- 40 kA surge protection per line
- Gas Tube Protection 350 Volt DC Breakdown
- UL497A
- Nema 1 Type Enclosure

Model Number	Application	Lines	Gauge	Wire Configuration	DC Breakdown Voltage	Application
IG2TM	phone/modem/DSL	up to 2	#24-#16 AWG	4 wire	350 Vdc	Indoor

F. IG4TM

- Protection same as IG2TM
- Protects 4 Lines

Model Number	Application	Lines	Gauge	Wire Configuration	DC Breakdown Voltage	Application
IG4TM	phone/modem/DSL	up to 4	#24-#16 AWG	8 wire	350 Vdc	Indoor

G. IG2T3R

- Protection same as IG2TM
- Provides protection for 2 lines (expandable to 12 Lines)
- Nema 3R Type Enclosure

Model Number	Application	Lines	Gauge	Wire Configuration	DC Breakdown Voltage	Application
IG2T3R	phone/modem/DSL	2 standard (up to 12)	#24-#16 AWG	4 wire (up to 24 wire)	350 Vdc	Indoor/Outdoor

E



F



G





Residential Hardwired Protection

Stand Alone Local Antenna/Cable - Satellite/Cable Internet Protection

H. IG1CM

- Provides Protection for 1 Line (Expandable to 2 Lines)
- 10 kA surge protection per line
- Gas Tube Protection 90 Volt DC Breakdown

Model Number	Application	Lines	Thread Type	DC Breakdown Voltage	Application
IG1CM	Cable TV/internet/satellite	1	F	90 Vdc	Indoor

I. IG1C3R

- Protection same as IG1CM
- Provides Protection for 1 Line (Expandable to up to 6 Coax Lines)
- Nema 3R Type Enclosure

Model Number	Application	Lines	Thread Type	DC Breakdown Voltage	Application
IG1C3R	Cable TV/internet/satellite	1 Standard (up to 6)	F	90 Vdc	Indoor/Outdoor

J. IG2T

- Spare Telephone / Modem / DSL Internet Protection Module

Model Number	Lines	For Use In:
IG2T Spare	2	IG2TM, IG1CM, IG2T3R, IG1C3R, IG1300-2T-1C

K. IG1C

- Spare Coax Cable Protection Module

Model Number	Lines	For Use In:
IG1C Spare	1	IG1CM, IG1C3R, IG2TM, IG4TM, IG2T3R

L. IGFlush Mount Kit

- Flush mount kit for IG2TM, IG4TM, and IG1CM

Model Number	For Use In:
IG Flush Mount Kit	IG2TM, IG4TM, IG1CM

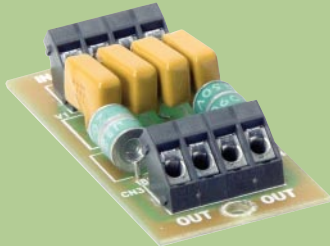
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I



J



K



L



Surge Arresters



Features:

- Designed for outdoor installations on service entrance and utility meter cabinets
- Approved for outdoor applications such as irrigation equipment, pumps, lighting fixtures, traffic signaling devices, farm equipment, HVAC controls and motors
- Parallel metal oxide varistors (MOV) from each line to grounded neutral provide increased product capability
- Molded polycarbonate housing with 1/2" x 20 threaded nipple is weatherproof and UV resistant
- Epoxy encapsulation protects components from moisture, dirt and corrosion
- Color coded 18" leads
- UL listed as a secondary surge arrester, ANSI/IEEE C62.11 for Category "C" locations "OWHX"
- 2 year product warranty

A. AG2401C

- 120/240 single phase, 2 pole 3 wire device
- 18" 14 gauge leads

B. AG2083C

- 120/208 VAC, 3 pole 4 wire device
- 18" 12 gauge leads

C. AG2403C

- 240 VAC, 3 pole 4 wire device
- 18" 12 gauge leads

D. AG4803C

- 277/480 VAC or 480 VAC, 3 pole 4 wire device
- 18" 12 gauge leads

E. AG6503C & AG6503L

- Up to 600 V three phase, 3 pole 4 wire device
- 18" 12 gauge leads (AG6503C); 36" 10 gauge leads (AG6503L)

F. AG4801

- 277/480 VAC single phase, 2 pole 3 wire device
- 18" 10 gauge leads
- 18" 6 gauge green ground lead

G. AG2401C-IND

- 120/240 single phase, 2 pole 3 wire device
- 18" 14 gauge leads

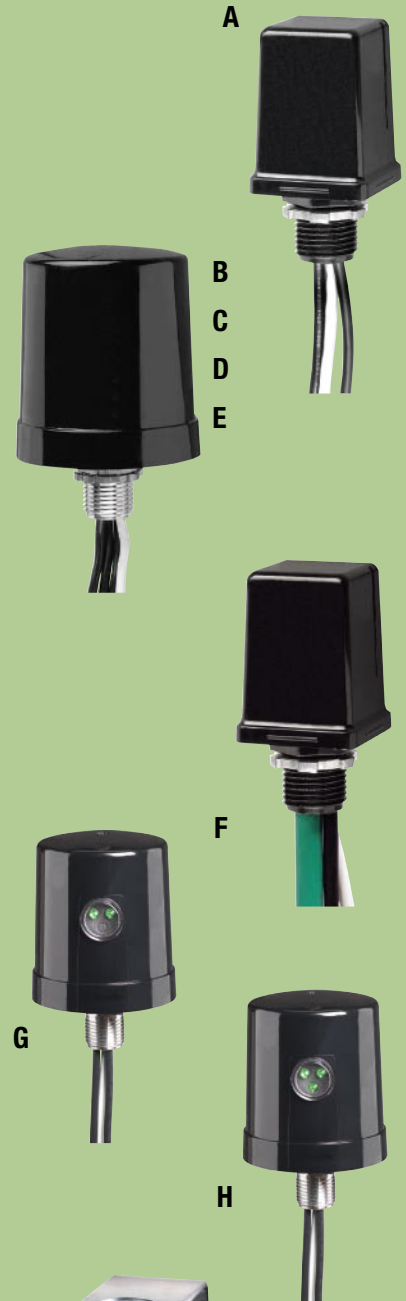
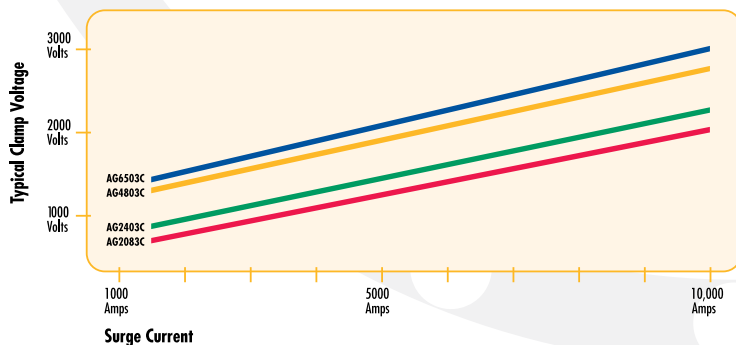
H. AG6503C-IND

- Up to 600 V three phase, 3 pole 4 wire device
- 18" 12 gauge leads

Model	Service Voltage	Poles	Number of Leads/		Wire Configuration	Actual Clamping Voltage		
			Length			(Line to Ground)		
Standard (No LED's)						1500A	5000A	10000A
AG2401C	120/240V	1 or 2	3/18"		L1, L2, GND/N	490	980	1410
AG2083C	208V	3	4/18"		L1, L2, L3, GND/N	490	980	1410
AG2403C	240V	3	4/18"		L1, L2, L3, GND/N	740	1330	1850
AG4801	277V or 480V	1 or 2	3/18"		L1, L2, GND	1450	2130	2620
AG4803C	480V	3	4/18"		L1, L2, L3, GND/N	1450	2130	2620
AG6503C	Up to 600V	3	4/18"		L1, L2, L3, GND/N	1640	2340	2920
AG6503L	Up to 600V	3	4/36"		L1, L2, L3, GND/N	1640	2340	2920
Enhanced (with LED's)								
AG2401C-IND	120/240V	1 or 2	3/18"		L1, L2, GND/N	490	980	1410
AG6503C-IND	Up to 600V	3	4/18"		L1, L2, L3, GND/N	1640	2340	2920

Match the correct model to the voltage of your system/machine

The chart below shows Typical Clamp Voltage for each model.



Mounting Bracket
AG1BRKT



Surge Arresters

A







A. IG250LA

- 120/240 V Surge Arrester for up to 600 Amp service
- Designed for applications frequently subjected to high level surge energy
- Enclosure size (6.63"H x 3.75"W x 2.5"D)
- Epoxy encapsulation protects components from moisture, dirt and corrosion
- UL listed as a Secondary Surge Arrester (OWHX)
- LED indicator provides surge protection status
- 5 year product warranty

Model	Service Voltage	Phase	Number of 24" Leads	Wire Configuration	Peak Surge Current Per Phase/ Per System	Clamping Voltage @500A	Enclosure Size (inches)	Weight Lbs
IG250LA	120/240	2	3	L1, L2, N	48 kA/115 kA	L-N: 555 L-L: 1028	6.0 x 3.5 x 3.0	2.4

Surge Protection Device Connected Equipment Coverage

Product Type	Page #	Model Number	Maximum Repair or Replacement Coverage
Metal Multi-Outlet Strip	114	IG2012B15 IG20B12	
Metal Multi-Outlet Strip	114	IG11246	
Computer Control Center	114	IG141	
Residential Grade Protector	116	IG1240RC	
	117	IG2TM	
	118	IG1CM	
Metal Multi-Outlet Strip	114	IG1866A	
	114	IG2066	
Computer Control Center	114	IG143	
Residential Grade Protector	116	IG3240RC	



Surge Protection devices, with Connected Equipment Coverage, offer the user extended protection for sensitive equipment. In the unlikely event that a damaging transient surge passes through the surge device and damage occurs to the connected equipment, Intermatic will pay up to \$25,000 to repair or replace the equipment based on the specified model and coverage provided. Refer to the warranty document included with the product for specific coverage details and limitations.

CONSUMER PRODUCTS





Entering a New Century of Energy Management and Home Security!

Indoor and Outdoor Timers

Intermatic offers a wide variety of styles to meet today's application requirements.

Intermatic timers add convenience by turning lights ON when needed, and saves energy by turning lights OFF when not needed. They give homes a lived-in look providing an easy and economical way to improve home security.

Outdoor timers also let users control outside lights and holiday displays while staying comfortably inside.

Wireless Home Lighting Control

Until now, the ability to reliably and cost efficiently control lighting and electronics and electrical devices in the home, using Radio Frequency, was extremely limited. Intermatic introduces a line of cost effective plug-in modules, in-wall receptacles and switches and easy-to-use controllers that allow fingertip control of multiple items in and around the house. Intermatic's Home Controls incorporate Z-Wave™ technology – the most advanced, low cost and highly efficient Radio Frequency based technology in the industry.

Power Failure Lights & Photo Controls

Intermatic power failure lights have many practical applications in the home: in bedrooms, hallways, stairways, bathrooms, kitchens and more.

Photo controls are a simple solution to turning lights on when dark, off when light.

Do-it-Yourself Security Alarms

The Burglary Prevention Council statistics show that residential break-ins occur every 11 seconds.

Intermatic answers the demand for easy-to-install, affordable security products with a full line of DIY portable security alarms that have superior features.

Intermatic Wireless Alarms provide economical home security. There are no monthly fees or setup charges. The wireless feature offers easy do-it-yourself installation at affordable prices.



Heavy Duty Outdoor Timers for lights, motors & pool pumps



Digital Photo Control automatically turns lights on at dusk, off 6 hours later



Do-it-yourself Wireless Motion Sensor Alarms



Home Controls, Modules and controllers



Outdoor Digital Timers with light sensor to control outdoor lights & holiday displays



Heavy-Duty Digital 7-Day Wall Switch Timers to control fans, lights & appliances with "never set it again" feature



All purpose Heavy-Duty Lamp & Appliance Timers



24 Hr. Heavy-Duty Programmable Digital Timer for lamps, stereos, & appliances





Until now, the ability to reliably and cost efficiently control lighting and electronics and electrical devices in the home, using Radio Frequency, was extremely limited. Intermatic introduces a line of cost effective plug-in modules, in-wall receptacles and switches and easy-to-use controllers that allow fingertip control of multiple items in and around the house. Intermatic's Home Controls incorporate Z-Wave™ technology – the most advanced, low cost and highly efficient Radio Frequency based technology in the industry.

Innovative Features:

- All items wirelessly control Radio Frequency
- Easy DIY installation
- All products use unique Z-Wave™ technology
- Two-way feedback lets you know if the system is properly set up and if the system is working properly
- The cost for this highly reliable system is priced much less than comparable systems that require contractor installation
- All modules and in-wall products can be set for timing control
- Each module includes a "repeater" function, for unmatched reliability
- Controllers can control up to 192 devices and can create "scenes" to create the light level look wanted



A. HA01C Wall Receptacle

- Replaces standard wall receptacles
- One receptacle is controlled
- LED shows feedback from controller during setup and that the controlled device is working
- Use with decorator wall plate (not included)

Specifications:

- For indoor use only
- 15 Amps Resistive
- 8.3 Amps Tungsten
- 120VAC, 60 Hz
- Temperature operating range: 0°C to 60°C

B. HA02C Plug-In Appliance Module

- Controls appliances up to 15 Amps and lighting (including compact fluorescent bulbs)
- Heavy-duty 3 prong plug and receptacle
- Manual override
- LED shows feedback from controller during setup and that the controlled device is working

Specifications:

- For indoor use only
- 15 Amps Resistive
- 1200 W Inductive
- 1/2 HP
- 8.3 Amps Tungsten
- 120VAC, 60 Hz
- Temperature operating range: 0°C to 60°C

C. HA03C Plug-In Indoor Lamp Module

- Controls ON/OFF/DIM for incandescent lamps
- Manual override
- LED shows feedback from controller during setup and that the controlled device is working

Specifications:

- For indoor use only
- 300 Watts
- 120VAC, 60 Hz
- Temperature operating range: 0°C to 60°C

D. HA04C Outdoor Lighting Module

- Controls ON/OFF outdoor devices
- Weather resistant
- 6" cord
- Manual override
- LED shows feedback from controller during setup and that the controlled device is working

Specifications:

- 15 Amp Resistive
- 1/2 HP
- 1200 W Inductive
- 8.3 Amp Tungsten
- 120 VAC, 60 Hz
- Temperature operating range: -35°C to 60°C



B



C

D





E. HA05C Outdoor Lamp Screw-In Module

- For incandescent and PAR lamps
- Fits most outdoor fixtures
- ON/OFF functions
- Manual override
- LED shows feedback from controller during setup and that the controlled device is working

Specifications:

- 300 W Tungsten, 42 W compact fluorescent
- 120 VAC, 60 Hz
- Temperature operating range: -35° C to 60° C

F. HA06C Indoor Wall Switch

- Rocker style uses decorative wall plate (not included)
- ON/OFF/DIM controls
- Manual override
- LED shows feedback from controller during setup and that the controlled device is working

Specifications:

- For indoor use only
- 300 Watts Tungsten
- 120 VAC, 60 Hz
- Temperature operating range: 0° C to 70° C

G. HA07 Master Remote Controller

- Controls all Intermatic Home Settings devices
- Large LCD screen shows all functions when set-up is successful, dim levels, channels and time functions
- Easy to set up
- Attractive design can be set on a table or wall mounted
- ALL ON/ALL OFF buttons controls devices to warn would-be intruders
- Controls up to 12 channels
- Each channel can control up to 16 devices
- Timing controls for all devices include:
 - Set the Astronomic feature and you will never have to reset the timer for the everyday changes in SUNRISE and SUNSET times.
 - Multiple time options: all week, 5 days, weekends or individual days
 - RANDOM timing option for a "lived-in" look
 - Optional automatic Daylight Savings Time function
- 8 dimming levels
- Requires 4 AA batteries (not included).

Specifications:

- Temperature operating range: 0° C to 60° C

H. HA09C Handy Remote Control

- Controls all Intermatic Home Controls devices with the touch of a button.
- Easy to set up
- Attractive, easy to hold
- Controls up to 6 channels
- Each channel can control up to 16 devices
- 8 dimming levels
- Requires 4 AAA batteries (not included)

Specifications:

- Temperature operating range: 0° C to 60° C

F

G

H





I. HA14 3 Way In-Wall Switch/Dimmer

- Use with remote control or as a standard dimmer
- Fits decorator wall plates (not included)
- ON/OFF and DIM settings
- Supports 3-way configurations

Specifications:

- For indoor use only
- 600W Tungsten
- 40W minimum
- 120 VAC, 50/60 Hz
- Temperature operating range: 0°C to 40°C

J. HA18 3 Way In-Wall Switch

- Compatible with compact fluorescent bulbs
- Use with remote control or as a standard dimmer
- Fits decorator wall plates (not included)
- ON/OFF settings
- Supports 3-way configurations

Specifications:

- For indoor use only
- 1800W, 15A Tungsten
- 15A Resistive/Inductive
- 0.5HP Motor
- 120 VAC, 50/60 Hz
- Temperature operating range: 0°C to 40°C

K. HA20 3 Way In-Wall Toggle Switch/Dimmer

- Use with remote control or as a standard dimmer
- Fits toggle-style wall plates (not included)
- ON/OFF and DIM settings
- Supports 3-way configurations

Specifications:

- For indoor use only
- 600W Tungsten
- 40W minimum
- 120 VAC, 50/60 Hz
- Temperature operating range: 0°C to 40°C

L. HA23 USB Stick and Software

- For computer control of HomeSettings Products
- Contains Z-Wave USB Stick; CD with ThinkEssentials® control software; 6ft. USB extension cord

Specifications:

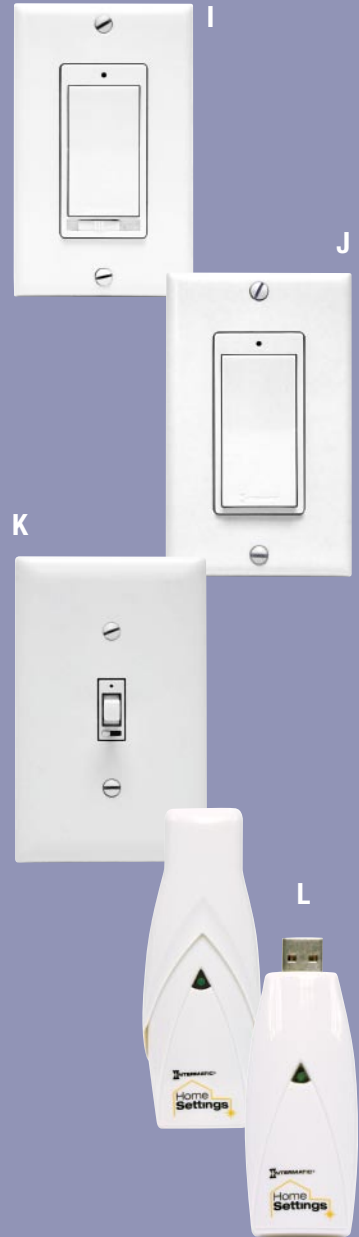
- Temperature operating range: 0°C to 40°C

M. HA24 Microsoft® Home Control Software/USB Kit

- For computer control of HomeSettings Products
- Contains Microsoft® Visual Studio® Express Edition; Z-Wave USB Stick; ThinkEssentials® control software; 6ft. USB extension cord

Specifications:

- Temperature operating range: 0°C to 40°C



M





Indoor Plug-In Timers

Override switch with on/off indicator faces up - easiest to view and change

Unique "time of day" window - quickest and easiest to set

Oversized color-coded trippers - simplest to use



Heavy Duty Lamp & Appliance Timers

A. TN111C

Lamp & Appliance Timer

- 2 ON / 2 OFF settings per day
- Controls lamps & appliances
- Ideal for all-purpose use
- Ratings: 15 Amp Resistive, 1750 Watts Tungsten, 1/3 HP, 125 VAC, 60 Hz

B. TN111GC

Lamp & Appliance Timer With Lighted Dial

- Transparent plastic dial acts as a night light
- 2 ON / 2 OFF settings per day
- Ideal for all-purpose use
- Ratings: 15 Amp Resistive, 1750 Watts Tungsten, 1/3 HP, 125 VAC, 60 Hz

C. TN811C

Multi-Setting Timer

- 24 ON / 24 OFF settings per day
- Convenient programmable settings
- Enhances safety & security by making home look more "lived-in"
- Ratings: 15 Amp Resistive, 1750 Watts Tungsten, 1/3 HP, 125 VAC, 60 Hz

D. TN711C

Random Pattern Security Timer

- 2 ON/2 OFF settings per day
- Turns lights on and off automatically within ± 15 min. of the set times
- Eliminates the predictable "timer-controlled" look
- Ratings: 15 Amp Resistive, 1750 Watts Tungsten, 1/3 HP, 125 VAC, 60 Hz

E. TN311C

Heavy-Duty Grounded Timer

- 3 ON/3 OFF settings per day
- For air conditioners, heaters and other heavy electrical loads
- Ratings: 15 Amp Resistive, 1750 Watts Tungsten & Resistive, 125 VAC, 60 Hz, 12 FLA, 72 LRA, 120 VAC Motor (12 AMP Air Conditioner)

Digital Plug-in Timers

F. DT17C

7-Day Heavy-Duty Digital Timer

- Up to 14 ON / 14 OFF settings per day or 98 ON / 98 OFF settings per week
- Random setting option avoids predictable "timer-controlled" look
- 3-prong grounded plug and receptacle
- Controls lamps (including fluorescent), TVs, stereos and appliances
- Easy-to-set hand-held programming with battery backup
- Manual override feature
- Ratings: 15 Amp Resistive & Inductive, 500 Watts Tungsten, 1/3 HP 120 VAC

G. DT121C

Digital Lamp Timer

- 2 ON / 2 OFF settings per day
- Controls indoor lamps
- To-the-minute accuracy
- Large display, easy to read
- Manual override feature
- Ratings: 8.3 Amp Resistive and Inductive, 300 Watts Tungsten, 120 VAC, 60 Hz

H. DT27C

Heavy-Duty Digital Timer with Astronomic Feature

- Up to 7 ON/OFF settings per day
- Astronomic features allow setting it once without ever having to reset it again; follows daily changes in sunrise/sunset times
- Random setting option avoids predictable "timer-controlled" look
- 3-prong grounded plug and receptacle
- Controls lamps (including fluorescent), TVs, stereos and appliances
- Easy to program
- Battery backup
- Manual override feature
- 15 Amp Resistive and Inductive, 500 Watts Tungsten, 1/3 HP, 120 VAC, 60 Hz

I. TB121C

Digital Table Top Timer

- 2 ON / 2 OFF settings per day
- Attractive tabletop styling in decorative platinum
- 5 ft. cord
- Easy to reach
- Large display, easy to read
- To-the-minute accuracy
- Manual override feature
- Ratings: 8.3 Amp Resistive and Inductive, 300 Watts Tungsten, 120 VAC, 60 Hz



Heavy Duty Appliance Timers

A. HB112C

Air Conditioner & Appliance Timer

- Automatically controls 240 volt air conditioners, heaters, heavy-duty appliances and lamps
- 3,750 watt capacity
- Plugs directly into wall outlet
- 2 ON/2 OFF settings per day
- 3-prong 220-240 Volt grounded plug and receptacle
- Manual override ON/OFF switch



3750W/240V/
2 H.P. 240V Max.
Motor Load

B. HB114C

Air Conditioner & Appliance Timer

- Same as HB112C except for the following:
- 5,000 Watt capacity



5000W/240V/
2 H.P. 240V
Max. Motor Load

C. HB113C

Air Conditioner & Appliance Timer

- Same as HB112C except for the following:
- Automatically controls 120 Volt air conditioners, heaters, heavy-duty appliances and lamps
- 2,500 Watt capacity



2500W/120V/
1 H.P. 120V Max.
Motor Load



A,
B,
C

Wall Switch Timers

D. ST01C

Heavy Duty In-Wall Timer with Astronomic Feature

Can be used with four separate programming options: Same settings Monday through Friday, Saturday & Sunday, all 7 days of the week or individual daily settings.

- DST for 2006, 2007 and flexible for future changes, if needed
- Set it once and never set it again; follows daily changes in sunrise/sunset times
- For single pole and three way applications up to 100 ft.
- Controls lighting including fluorescent and heavy duty loads such as fans and appliances
- Up to 6 ON/OFF settings per 7-day period a total of 42 ON/42 OFF settings per week
- Easy-to-set 6 button programming
- LCD digital clock and readout
- To-the-minute setting accuracy
- Battery backup
- Random setting feature available to avoid predictable "timer controlled" look
- Manual override feature
- Use with decorator-style wall plate (not included)
- Ratings:
 - Resistive: 15 A, 120-277 VAC
 - Tungsten: 15 A, 120 VAC, 6 A, 208-277 VAC
 - Ballast: 8 A, 120 VAC, 4 A, 208-277 VAC
 - Motor: 1 HP, 120 VAC, 2 HP, 240 VAC
 - DC Loads: 4 A, 12 VDS, 2 A, 28 VDS

E. ST01AC

Heavy Duty In-Wall Timer with Astronomic Feature

Same as ST01C except Almond color

F. EJ351C

Programmable 24-hour Security Timer

- Up to 24 ON/24 OFF settings per day
- Random setting turns light ON and OFF at slightly different times each day
- Self-learning feature: if not manually programmed, it will repeat the first 24 hr. ON/OFF pattern
- 15 minute memory guard protects against power failure
- Replaces any standard wall light switch
- Use with existing wall plate; standard (toggle) or decorator (rocker) styles
- Ratings: 500 Watts Incandescent, 120 VAC, 60 Hz

G. EJ500C

Indoor Digital Wall Switch Timer with Astronomic Feature

- Flushmount design
- 6 ON/6 OFF settings per day
- Controls incandescent and fluorescent (class "P" ballast) lighting
- Easy to set programming
- Set it once and never set it again; follows daily changes in sunrise/sunset times
- Battery backup guards against memory loss
- Replaces any standard wall switch
- Use with decorative style wall plate (not included)
- Ratings: 500 Watts Incandescent, 120 VAC, 60 Hz

H. EJ500AC

Indoor Digital Wall Switch Timer with Astronomic Feature

Same as EJ500C except Almond Color



E

F

G

H



Outdoor Timers



- A. HB31R Heavy Duty Outdoor Timer (15 Amp)**
- Up to 2 ON / 2 OFF settings per day
 - Full 15 Amp capacity controls lighting and heavy-duty loads such as motors and pool pumps
 - Grounded plug
 - Manual override ON/OFF switch
 - Waterproof cover
 - Heavy-duty 12" grounded cord
 - 120 VAC, 60 Hz



- B. HB35R Outdoor Timer (10 Amp)**
- 2 ON / 2 OFF settings per day
 - Grounded plug
 - Manual override ON/OFF switch
 - Waterproof cover
 - Heavy-duty 15" cord
 - 120 VAC, 60 Hz



- C. HB51RC Outdoor Timer with Light Sensor**
- Highly versatile control with choice of operating modes
 - Photo ON / Timer OFF mode provides automatic ON at dusk, OFF after owner's choice on 2, 4, 6 or 8 hours
 - Photo ON / Photo OFF mode offers automatic ON at dusk, OFF at dawn
 - 8.3 Amp lighting timer
 - Manual override ON/OFF switch
 - Grounded, compact 6" cord



- D. HB61RC Digital Outdoor Timer with Light Sensor**
- Photo ON at dusk, OFF at dawn
 - Photo ON at dusk, OFF at 1 hour increments from 1-9 hours
 - Immediate ON/OFF at owner's selection in 1 hour increments for 1-9 hours
 - Manual override
 - Grounded 6" cord and receptacle

Model Number	Max. ON Time	Min. ON Time	Capacity
HB31R	23-1/2 hrs.	1/2 hr.	15 Amps, 1800 Watts Resistive; 15 Amps, 1800 Watts Tungsten, 15 FLA, 90 LRA; 120 VAC Operating Temp.: -40°C to +40°C
HB35R	23-1/2 hrs.	1/2 hr.	10 Amps, 1200 Watts Resistive; 10 Amps, 1200 Watts Tungsten; 120 VAC Operating Temp.: -40°C to +40°C
HB51RC	Dusk to 8 hr.	Dusk to 2 hr.	8.3 Amps, 1000 Watts Resistive; 8.3 Amps, 1000 Watts Tungsten, 120 VAC Operating Temp.: -35°C to +40°C
HB61RC	Dusk to 8 hr.	Dusk to 2 hr.	8.3 Amps, 1000 Watts Resistive; 8.3 Amps, 1000 Watts Tungsten, 120 VAC Operating Temp.: -35°C to +40°C



E. HB77R

Digital Outdoor Timer

- 15 Amp capacity controls lighting and heavy-duty loads such as motors and pool pumps
- 14 ON / OFF settings per day - a total of 42 ON / OFF settings per week - can be used with 4 separate programming options
 - Same settings Monday through Friday
 - Same settings Saturday and Sunday
 - Same settings all 7 days of the week
 - Various daily settings
- Easy hand-held programming
- Replaceable button cell batteries (included) maintains program, during power failure

F. HB1116R

6 Outlet Electromechanical Timer with Stake

- 2 ON/OFF settings per day
- Full 15 Amp capacity controls lighting and heavy loads such as motors, engine block heaters and pool pumps
- Weatherproof cover
- 24" grounded cord
- Grounded receptacle
- Circuit breaker
- Manual override ON/OFF switch
- For wall mounting or stake mounting

G. HB88RC

Programmable Outdoor Timer

- 15 Amp capacity controls lighting and heavy duty loads such as engine block heaters, holiday and landscape lighting, pool/spa pumps and more
- 7 day / 7 event programming
- Multiple daily programming options
 - Same settings Monday through Friday
 - Same settings Saturday and Sunday
 - Same settings all 7 days of the week
 - Individual daily settings
- Two timed receptacles
- Battery backup
- Ratings: 15 Amp Resistive and Tungsten, 1000W Inductive, 1/2 HP, 120 VAC, 60 Hz

Model Number	Max. ON Time	Min. ON Time	Capacity
HB77R	6 days 23 hrs. 59 min.	1 min.	15 Amps Resistive and Inductive, 500 Watts Tungsten, 1/3 H.P., 120 VAC Operating Temp.: -35°C to +40°C
HB1116R	23-1/2 hrs.	1/2 hr.	15 Amps, 1800 Watts Resistive; 15 Amps 1800 Watts Tungsten 15 FLA, 90 LRA, 120 VAC Operating Temp.: -40°C to +40°C
HB88RC	6 days 23 hrs. 59 min.	1 min.	15 Amps, 1000 Watts Resistive; 15 Amps 1000 Watts Tungsten 1/2 HP; 120 VAC; 60 Hz

E



F



G





Photo Controls Power Failure Light

Safety Light Products



A. NE1C

Screw-In Photo Control

- Automatically turns electrical load ON at dusk, OFF at dawn
- Screws into any standard incandescent light socket
- Controls interior and exterior lights

B. NE2C

Automatic Security Light Dual Photo Cell with Flicker Eliminator

- Automatically turns electrical load ON at dusk, OFF at dawn
- Advanced technology circuit saves energy
- Screws into any standard incandescent light socket
- Controls interior and exterior lights

C. NE3BC

Digital Photo Control, Time Controlled

- Automatically turns light ON at dusk and OFF 6 hours later
- Soft start extends bulb life
- Controls incandescent lights up to 150 Watts
- Screw into any standard incandescent light socket
- Controls indoor and exterior lights
- Handles up to 150 Watt incandescent and 45 Watt fluorescent bulbs

D. NE200C

Plug-In Photo Control

- Automatically turns electrical load ON at dusk, OFF at dawn
- For outdoor spot and flood lamps, used on driveways and patios
- Also ideal for indoor or outdoor PL lamp fixtures (compact fluorescent)

E. NE250C

Outdoor Photo Control

- Automatically turns electrical load ON at dusk, OFF at dawn
- For outdoor spot and flood lamps, used on driveways and patios
- Handles up to 150 Watt incandescent bulbs

F. NE5C

Plug-In Photo Control

- Automatically turns electrical load ON at dusk, OFF at dawn
- Plugs into any polarized indoor wall socket
- Controls indoor devices such as table light, floor light, radio or TV

Power Failure Light

G. PR3C

3-in-1 Power Failure Light

- Light automatically comes on when power goes out
- Automatic guide light
- Can be used as a handy rechargeable flashlight
- Screw-off cover with replaceable #14 flashlight bulb
- Plugs into any polarized indoor wall socket
- Provides safety and security
- Unique receptacle for plugging in additional lamp or appliance
- 120 Volts, 60 Hz, 1 Watt



Security Alarms

A. SP230B

Wireless Alarm with Motion Sensor

- Place on wall, table or shelf
- Piercing alarm activated when movement is detected
- Warning sticker included
- Programmable code entered on keypad activates/deactivates alarm
- 110 dB siren

B. SP130B

Wireless Door Alarm with Programmable Keypad

- Piercing alarm activated when contact point is broken
- Mounts on door
- Code entered on keypad activates/deactivates alarm
- 110 dB siren

C. SP440B

Wireless Window Alarm

- Piercing alarm activated when contact point is broken
- Mounts on window
- ON/OFF switch activates/deactivates alarm
- 90 dB siren

D. SP500

Window Stickers

- Discourages intruders
- 4 pack

E. SP640B

Personal Security Alarm

- Piercing alarm sounds when pin is removed
- Small enough to hold in the palm of the hand
- Alerts others that help is required
- Includes flashlight and belt clip
- 90 dB siren

A



B



C



E



D





Malibu® Low Voltage Landscape Lighting



12 volt fixtures provide important benefits not available with conventional 110 volt systems

- Fast, easy installation
- Flexibility to add and adjust fixtures as landscape matures
- Economical operation, thanks to longer lamp life & less energy usage
- No hard wiring required
- No need for junction box on each fixture
- Maximum eye appeal both night (when on) & day (when off)



Malibu®, the leading landscape lighting brand, has been making lighting systems to enhance the beauty, safety and security of American homes for almost 40 years. In that time we've learned a lot about how American consumers use their outdoor space, and we've seen the definition of "outdoor lifestyle" grow. People spend more time outdoors than ever before, and it's important to them to decorate their outdoor space. Malibu® helps them make their outdoors as beautiful, livable and enjoyable as their indoors.

Fixtures For Every Need

The traditional approaches to outdoor lighting are to provide uplight to highlight trees or bushes and create a focal point for beauty; downlight to place along walkways and steps or outline driveways for safety; and backlight to illuminate walls or fences and light up a home's exterior for security. To fill these needs, Malibu® offers a wide variety of floodlights and decorative fixtures, path and garden lights. Traditional lighting approaches are still very relevant today, but the trend that expands gracious living to a home's outdoor space has led to a new approach, the creation of outdoor decorative elements that provide function and beauty in the daytime, as well as illumination at night. See the following pages for the widest selection of styles and finishes for all applications.

Market Leading Power Packs and Accessories

Malibu® high quality Power Packs offer dependable power and integrated Intermatic timers to ensure that your customers' landscape lighting delivers bright reliable light in any weather, year in and year out. Malibu® bulbs and cable complete the picture to give you safe, weather-resistant installations.

Malibu® Products are Affordable and Guaranteed

Malibu® is committed to building the best products available across several price ranges. We also offer one of the most comprehensive warranties in the industry; from 3 years to lifetime depending on the fixture, and 5 years on Power Packs.

For more information and to view the most up-to-date listing of Malibu® Landscape Lighting products, see our Landscape Lighting catalog, or visit our website at www.malibulights.com.

Malibu® Low Voltage Landscape Lighting



Garden Lights



CL0830B

Metal Garden Light with 11W wedge base bulb and Oil Rubbed Bronze finish



CL086AB

Metal Garden Light with 10W halogen bi-pin bulb and Aged Brass finish



CL3050B

Metal Garden Light with 11 watt wedge base bulb and Oil Rubbed Bronze finish



CL305P

Metal Garden Light with 11 watt wedge base bulb and Pewter finish



CL33V

Metal Garden Light with 11 watt wedge base bulb and Verde finish



CL801BC8

Metal Garden Light with 4 and 11W wedge base bulbs, Black Chrome finish and Frosted Crackel Glass Globe



CS110P

Metal Garden Light with 11W wedge base bulb and Pewter finish



CS110TA

Metal Garden Light with 11W wedge base bulb and Architectural Bronze finish



CS3300B

Metal Garden Light with 11W wedge base bulb and Oil Rubbed Bronze finish



CS501GR

Metal Garden Light with 11W wedge base bulb and Graphite finish



CS7E1

Metal Garden Light with 4W wedge base bulb and Black finish



CS7Z6

Metal Garden Light with 11W wedge base bulb and Black finish





Malibu® Low Voltage Landscape Lighting



Garden Lights



CL191
Metal Tier Light with 11W wedge base bulb and Black finish



CL191K
Metal Tier Light with 11W wedge base bulb and Antique Copper finish



CL1910B
Metal Tier Light with 11W wedge base bulb and Oil Rubbed Bronze finish



CL191S
Metal Tier Light with 11W wedge base bulb and Sand finish



CL191V
Metal Tier Light with 11W wedge base bulb and Verde finish



CS200C
Copper Tier Light with 18W wedge base bulb



LT0870B
Metal Walk Light with 11W wedge base bulb and Oil Rubbed Bronze finish



LT406
Metal Tier Light with 4W wedge base bulb and Black finish



LT406N
Metal Tier Light with 4W wedge base bulb and Nickel finish



LT13
Metal Tier Light with 7W wedge base bulb and Black finish



LT13S
Metal Tier Light with 7W wedge base bulb and Sand finish



CL635P
Metal Bollard Light with 20W MR11 bulb and Pewter finish



CL635R
Metal Bollard Light with 20W MR11 bulb and Black Finish



CL635RK
Metal Bollard Light with 20W MR11 bulb and Antique Copper finish



CL635RS
Metal Bollard Light with 20W MR11 bulb and Sand finish



CL711
Metal Mushroom Light with 10W halogen bi-pin bulb and Black finish



CS7AC1
Metal garden Light with 11W wedge base bulb and Antique Copper and Oil Rubbed bronze finish

Malibu® Low Voltage Landscape Lighting



Garden Lights



CS120TA
Metal Garden Light with 18W wedge base bulb and Architectural Bronze finish



CS140K
Metal Garden Light with 18W wedge base bulb and Antique Copper finish



CS14P
Metal Garden Light with 11W wedge base bulb and Pewter finish



CS17K
Metal Garden Light with 11W wedge base bulb and Antique Copper finish



CS230R
Metal Garden Light with 18W wedge base bulb and Aged Brass finish



CS240
Metal Garden Light with 18W wedge base bulb and Aged Brass finish



CS7CT4
Metal Garden Light with 4W wedge base bulb and Black finish



CL802BSB6
Metal Garden Light with 4 and 11W wedge base bulbs, Black Satin Bronze finish and Mocha Marble Glass Globe



CL802P7
Metal Garden Light with 4 and 11W wedge base bulbs, Pewter finish and Square Frosted Glass Globe



CL803BC9
Metal Garden Light with 4 and 11W wedge base bulbs and Black Chrome finish and Clear Crackle Glass Globe



CL803S2
Metal Garden Light with 4 and 11W wedge base bulbs, Sand finish and Frosted Ribbed Glass Globe



CL8041
Metal Garden Light with 4 and 11W wedge base bulbs, Black finish and Alabaster-Style Glass Globe

Finishes & Colors

Choose from classic or contemporary designs in a variety of finishes and textures. Use Malibu® fixtures to blend into your landscape design, add an elegant touch to a garden path or highlight architecture for safety and security.



Aged Brass



Antique Copper (K)



Architectural Bronze (TA)



Black Chrome (BC)



Black Satin Bronze (BSB)



Brushed Nickel (N)



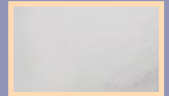
Copper (C)



Graphite (GR)



Oil Rubbed Bronze (OB)



Pewter (P)



Verde (V)



Sand (S)



Verde Patina (V)

Due to Intermatic's dedication to technological advancement, it is possible that specifications and/or appearances of our products may have changed after the printing of this literature. See price list for the latest available product light sets.



Malibu® Low Voltage Landscape Lighting



Flood Lights



CL0822
Metal Floodlight with 50W halogen MR16 bulb and Black finish



CL508
Metal Floodlight with 35W halogen MR16 bulb and Black finish



CL9S
Metal Floodlight with 20W halogen bi-pin bulb and Sand finish



CL1
Metal Floodlight with 50W halogen bi-pin bulb and Black finish

CL115
Submersible Light with 20W halogen MR16 bulb

CL507
Metal Floodlight with 20W halogen MR16 bulb and Black finish



CL509
Metal Wall Wash Floodlight with 20W halogen bi-pin bulb and Black finish

CL9
Metal Floodlight with 20W halogen bi-pin bulb and Black finish

CL90B
Metal Floodlight with 20W halogen bi-pin bulb and Oil Rubbed Bronze finish



CL9TA
Metal Floodlight with 20W halogen bi-pin bulb and Architectural Bronze finish

CS180C
Copper Floodlight with 20W halogen MR16 bulb

CS508K
Metal Floodlight with 35W halogen MR16 bulb and Antique Copper finish



CS508P
Metal Floodlight with 35W halogen MR16 bulb and Pewter finish

CS508S
Metal Floodlight with 35W halogen MR16 bulb and Sand finish

CS508TA
Metal Floodlight with 35W halogen MR16 bulb and Architectural Bronze finish

LT9
Metal Floodlight with 10W halogen bi-pin bulb and Black finish

Malibu® Low Voltage Landscape Lighting



Flood Lights



CL501
Metal Well Uplight with 35 watt MR16 bulb and Black finish



CL501S
Metal Well Uplight with 35 watt MR16 bulb and Sand finish



NA320
Natural Rock Floodlight with 20W MR11 bulb



Surface Lights



CL503TA
Metal Surface Light with 7 watt wedge base bulb and Architectural Bronze finish



CL905
Metal Half Brick Light with 7W wedge base bulb and Black finish



CL905K
Metal Half Brick Light with 7W wedge base bulb and Antique Copper finish



LT401
Metal Surface Light with 11W wedge base bulb and Aged Brass finish



LT8
Metal Surface Light with 7W wedge base bulb and Black finish



LT8K
Metal Surface Light with 7W wedge base bulb and Antique Copper finish





Malibu® Low Voltage Landscape Lighting



Low Voltage Polymer



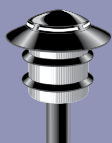
LV181/ML10781
Plastic Tier Light
7W wedge base bulb



LV103/ML91103
Plastic Floodlight
11W wedge base bulb



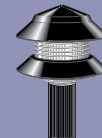
LV108/ML90708
Plastic Floodlight
7W wedge base bulb



LV183/ML11183
Plastic Tier Light
11W wedge base bulb



LX9Z/ML90401
Plastic Floodlight
4W wedge base bulb



LX1/ML10401
Plastic Tier Light
4W wedge base bulb

Power Packs

Intermatic offers the widest variety of Power Packs in any wattage and control option your system may require. Power Packs are available from 44 to 900 watts, allowing you to choose which power supply is right for your particular lighting plan.

All Power Packs are certified for safe operation and long life. Keyhole mountings are featured for ease of operation and installation. See chart below for available Power Packs and features.

Models	Max. Wattage Output	Specifications
ML44T	44 Watt	Timer with 2 sets of trippers
ML88T	88 Watt	Timer with 2 sets of trippers
ML100T	100 Watt	Timer with 2 sets of trippers
ML100THB	100 Watt	Electronic Timer and photo control
ML121RT	121 Watt	Timer with 2 sets of trippers
ML200RT	200 Watt	Timer with 2 sets of trippers
ML200RTW	200 Watt	Timer with 2 sets of trippers and ground shield
ML300RTW	300 Watt	Timer with 2 sets of trippers and ground shield
ML600TW	600 Watt	Timer with 2 sets of trippers and ground shield
ML900TW	900 Watt	Timer with 2 sets of trippers and ground shield

IMPORTANT: When planning your lighting and choosing a Power Pack, your total bulb wattage must not exceed maximum transformer wattage output rating.

Power Pack Models



**ML44T
ML88T**



ML100THB



**ML100T
ML121RT
ML200RT
ML200RTW**



ML300RTW



ML600TW



ML900TW



Low Voltage Cable

For fast, easy installation of Malibu® light fixtures, use low voltage cable. It's safe, weather-resistant, self sealing and available in 16, 14 and 12 gauge sizes.



Solar lighting is the simplest and safest way to brighten your home's walkways, decorate patios, and flower beds, or create an enchanting lake view. Solar lights use a solar panel to convert the power of the sun into electricity. The included rechargeable batteries store this energy to power the bright LED bulbs. The amount of on-time will be dependent on the amount of full sunlight your lights receive the previous day. In general, if your lights receive 8 hours of full sun, you can expect 6-8 hours of on-time. Malibu Solar lights will turn on automatically every evening as the sun sets. It is important to note that strong ambient lighting (porch/street lights) can prevent your lights from operating properly. If this occurs, eliminate or reduce the ambient light source or place the fixture in a darker locations.

NEW Premium Solar Fixtures



12" height

LZ3001

Cast Aluminum Construction Walk Light with 2 White L.E.D's, Frosted Globe, and



16" height

LZ3003TC

Cast Aluminum Construction Walk Light with 2 White L.E.D's, Seeded Glass Globe, and New Tarnished Copper finish



15" height

LZ30050B

Cast Aluminum Construction Walk Light with 2 White L.E.D's, Frosted Globe, and Oil Rubbed Bronze finish



15" height

LZ30080B

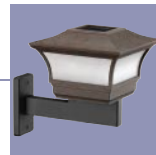
Cast Aluminum Construction Walk Light with 2 White L.E.D's, 2 Way Use, and Oil Rubbed Bronze finish



19" height

LZ3501DR

Cast Aluminum Construction Walk Light with 2 White L.E.D's, Seeded Glass Globe, and Dark Rust finish

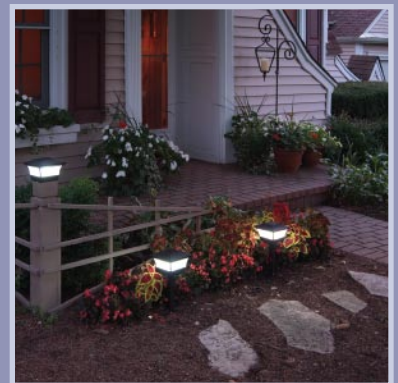


LZ80010B

Cast Aluminum Construction Post/Deck Light with 2 White L.E.D's, 4 Way Use, and Oil Rubbed Bronze finish

SolarSelect Premium Metal Garden Lights

The Malibu SolarSelect series provide top performance and quality for all seasons. These stylish landscape lights feature a Summer/Winter adjustment switch located on the back of the solar panel. High setting delivers the brightest output and will deliver approximately 1 hour of on-time for every hour of full sun. Use this setting from Spring into early Fall. Low setting lengthens on-time during late Fall through early Spring. During this time most locations receive fewer hours of full sun per day. Each fixture has 2 True White LED's / fixture, which provide more uniform light distribution, and nearly 3X brighter output than Malibu's other solar fixtures.





Malibu® Solar-Powered Accent Lighting

Premium Metal Walk Light



LZ7CT4
Metal Contemporary Walk Light with White L.E.D.



LZ7FC4
Metal French Country Walk Light with White L.E.D.



LZ7Z6
Premium Cast Metal Zen style Walk Light with White L.E.D.



LZ601
Metal Lantern with Graphite Finish and White L.E.D.



LZ602
Metal Diamond Mission Light with Aged Brass Finish and White L.E.D.



LZ603
Metal Pagoda Light with Black Finish and White L.E.D.



LZ111010B
Metal Walklight with White L.E.D. and Oil Bronze finish.



LZ11101P
Metal Walklight with White L.E.D. and Pewter finish.



LZ14001H
Metal Lantern Light with White L.E.D. and Black finish
LZ14001HP
Pewter finish

Malibu® Solar-Powered Accent Lighting



LZ11771H
Metal Prairie Style Light with White L.E.D. and Architectural Bronze finish



LZ11771HK
Metal Prairie Style Light with White L.E.D. and Antique Copper finish



LZ21811K
Metal Fence Post Light with White L.E.D. and Antique Copper finish



LZ21811WH
Metal Fence Post Light with White L.E.D. and White finish



Metal Walk Light



LZ2004AS
LZ2004DR
Metal Walklight with Faceted Glass Globe, White L.E.D., Antique Silver and Dark Rust finish



LZ2005TC
Metal Walklight with Frosted Glass Globe, White L.E.D., and Tarnished Copper finish



LZ2006WB
LZ2006OB
Metal Walklight with Faceted Glass Globe, White L.E.D., Weathered Bronze and Oil Rubbed Bronze finish



LZ407
Metal Tier Light with White L.E.D. and Pewter finish



LZ418
Metal Walklight with Oil Rubbed Bronze Finish, White L.E.D.



LZ422WBR
Dark Brown Walklight with White L.E.D.
LZ422W
Black Walklight with White L.E.D.



LZ5130B
Metal Walklight with Globe, White LED and Oil Rubbed Bronze Finish



LZ10131
Metal Tier Light with White L.E.D.

Understanding Solar-Powered Accent Lighting

Solar lights are not for every lighting application. Malibu Solar Lights produce a glow that is ideal for outlining locations and darkened areas such as steps, walks, etc. Solar Lights are perfect for those applications where a regular power source is unavailable, where some sort of accent light is desired and where the area has exposure to the full daylight sun. Malibu Solar Lights can be installed just about anywhere; as long as there is enough sunlight available to recharge the batteries. The specially designed solar panel collects natural sunlight and converts it into electrical power that is stored in highly efficient, rechargeable batteries. Be sure all Solar collector panels are installed in a sunny location where they will receive adequate, unobstructed sunlight each day. Solar Light performance will be diminished during cloudy, rainy, or wintery weather conditions. With fully charged batteries, Solar Lights will provide many hours of nighttime illumination.





Malibu® Solar-Powered Accent Lighting

Plastic Walk Lights



LZ1004BR
Plastic Walklight with Frosted Globe, White L.E.D. and Brown finish



LZ1008
Plastic Walklight with Faceted Globe, White L.E.D. and Black finish



LZ20070B
Plastic Walklight with Frosted Globe, White L.E.D. and Oil Bronze finish



LZ2015DR
Plastic Walklight with Frosted Globe, 2 Way Use, White L.E.D., and Dark Rust finish



LZ1
Plastic Tier Light with Amber L.E.D.



LZ4H
Plastic Hanging Carriage Light with Amber L.E.D.
LZ4HW
White L.E.D.



LZ4MMOB
Metal Carriage Light with White L.E.D. and Rubbed Bronze finish



LZ6
Table Top Accent Light with Amber L.E.D.



LZ701/LZ701W
Plastic Walklight with White or Amber L.E.D. and Brown finish



LZ702/LZ702W
Plastic Walklight with White or Amber L.E.D. and Black finish



LZ704/LZ704W
Plastic Walklight with White or Amber L.E.D. and Brown finish



LZ8002
Post Top/Deck Light with 4 Way Use, White L.E.D. and Brown finish

Malibu® Solar-Powered Accent Lighting



Solar Flood Lights



LZ413
Plastic Flood Light Set with Remote Panel and 3 White L.E.D.'s per Lamp



LZ415
Flood Light with 3 White L.E.D.'s



LZ419
Resin Flood Light with 3 White L.E.D.'s



LZ605RP
Metal Flood Light with 12 White L.E.D.'s, Black finish



LZ6001
Cast Aluminum Construction Flood Light with adjustable solar panel and 4 White L.E.D.'s, Black finish



LZ6002
Cast Aluminum Construction 3 Flood Light Kit with Remote panel and 4 White L.E.D.'s, Black finish



Solar Select technology delivers 2 times the brightness compared to our Plastic Flood Lights.



LZ15004
Nickel Metal Hydride replacements



LZ90004
Replacement Batteries





Malibu® Solar-Powered Accent Lighting

Specialty Solar Lights



LZ303RB
Metal Hanging Lantern
with White L.E.D. and
Rustic Brick finish



LZ314
Address Light with
Amber L.E.D.



LZ511A,B,C,R
Driveway Markers with
Steady ON or Flash
Modes



LZ604B
Solar Island Torch with
Flickering Amber L.E.D.'s



LZ706
Resin Pagoda Light with
Amber L.E.D. and Natural
finish



LZ16220
Plastic Deck Light with
Amber L.E.D.

Cross Reference

Time Switch Motors

Model (Series) to be used	Description	Part #	UPC* Item #
MOTOR ONLY OLD STYLE T100			
T100, T170	24V 60Hz	N/A	
T100R201,	125V 50Hz	N/A	
T1400BR,	125V 60Hz	WG430-10D	11972 6
T1800BR,	208/277V 50Hz	WG434-20D§	11978*
T180, T500,	208/277V 60Hz	WG433-20D	11976 5
WH10,30,	480V 60Hz	WG436-20	11979*
WH40,70,80			
MOTOR ONLY NEW STYLE T100			
T100, T170	24V 60Hz	CW1570-10D	10828 8
T180,	125V 60Hz	WG1570-10D	11915 4
T100R201,	125V 50Hz	WG1571-10D	11919 2
T100R301,	208/277V 50Hz	WG1574-10D	11932 1
WH10,30,	208/277V 60Hz	WG1573-10D	02012 2
WH40,70,80	480V 60Hz	WG1576-10D	11938 3
MOTOR ONLY T100CR			
T100CR,	24V 60Hz	N/A	
T170CR,	125V 50Hz	WG1381-10§	11903*
T1400BCR,	125V 60Hz	WG1380-11§	11902*
T1800BCR	208/277V 50Hz	N/A	
	208/277V 60Hz	WG1383-11§	11904*
	480V 60Hz	N/A	
MOTOR AND CARRYOVER COMBINED T100CR			
T100CR,	24V 60Hz	N/A	
T170CR,	125V 50Hz	131T93GA	60090
T1400BCR,	125V 60Hz	131T68GA	21170
T1800BCR	208/277V 50Hz	131T70GA	60091
	208/277V 60Hz	131T69GA	21180
	480V 60Hz	N/A	
MOTOR ONLY			
AT1300R	24V 60Hz	N/A	
	125V 50Hz	N/A	
	125V 60Hz	WG430-20D	02009 2
	208/277V 50Hz	WG434-20§	11978*
	208/277V 60Hz	WG433-20D	02010 8
	480V 60Hz	WG436-20	11979*
Malibu Repl. Motors	125V 60Hz	WG630D	02013*
	125V 60Hz	WG1750-10§	11911*
	125V 60Hz	N/A	
MOTOR ONLY			
T1900,	24V 60Hz	N/A	
T8800,	125V 50Hz	N/A	
R8800	125V 60Hz	WG730-14D	12001*
	208/277V 50Hz	N/A	
	208/277V 60Hz	WG733-14D	12005 1
	480V 60Hz	WG736-14D	12008 2
MOTOR ONLY			
T7400B	24V 60Hz	N/A	
T7800B	125V 50Hz	N/A	
	125V 60Hz	WG1600-11	11939 0
	208/277V 50Hz	N/A	
	208/277V 60Hz	WG1603-11D	11951 2
	480V 60Hz	WG1606-11§	11948 2

Model (Series) to be used	Description	Part #	UPC* Item #
MOTOR ONLY			
T7400BC	24V 60Hz	N/A	
T7800BC	125V 50Hz	WG1381-10§	11903*
	125V 60Hz	WG1380-11	11902 4
	208/277V 50Hz	N/A	
	208/277V 60Hz	WG1383-11	11905 5
	480V 60Hz	N/A	
MOTOR AND CARRYOVER COMBINED			
T7400BC	24V 60Hz	N/A	
T7800BC	125V 50Hz	131T93GA	60090
	125V 60Hz	131T68GA§	21170
	208/277V 50Hz	N/A	
	208/277V 60Hz	131T69GA	21180
	480V 60Hz	N/A	
MOTOR AND CARRYOVER COMBINED			
V41079CR	24V 60Hz	N/A	
V45000	125V 50Hz	131T93GA	60090
V46100C	125V 60Hz	131T68GA§	21170
	208/277V 50Hz	N/A	
	208/277V 60Hz	131T69GA	21180
	480V 60Hz	N/A	
MOTOR ONLY			
V45400	24V 60Hz	N/A	
V46400	125V 50Hz	WG1381-10§	11903*
	125V 60Hz	WG1380-11§	11900*
	208/277V 50Hz	N/A	
	208/277V 60Hz	WG1383-11§	11904*
	480V 60Hz	N/A	
MOTOR ONLY			
T2000	24V 60Hz	CW720-10§	10846*
	125V 50Hz	N/A	
	125V 60Hz	WG720-10D	11997 0
	208/277V 50Hz	WG724-10§	12000*
	208/277V 60Hz	WG723-10D§	11999 4
	480V 60Hz	N/A	
MOTOR ONLY			
V47000	24V 60Hz	N/A	
V48000	125V 50Hz	N/A	
V49000	125V 60Hz	WG690-10	11991*
	208/277V 50Hz	N/A	
	208/277V 60Hz	N/A	
	480V 60Hz	N/A	
MOTOR ONLY			
LS7000	24V 60Hz	CW190-10D	10839 4
	125V 50Hz	WG191-10§	11957*
	125V 60Hz	WG190-15D	11956 7
	208/277V 50Hz	WG194-10§	11960*
	208/277V 60Hz	N/A	
	480V 60Hz	N/A	
MOTOR ONLY			
E1000	24V 60Hz	N/A	
	125V 50Hz	N/A	
	125V 60Hz	WG230-13D	11966 6
	208/277V 50Hz	N/A	
	208/277V 60Hz	WG233-18§	60037
	480V 60Hz	N/A	

Model (Series) to be used	Description	Part #	UPC* Item #
MOTOR ONLY			
C8815	24V 60Hz	N/A	
	125V 50Hz	N/A	
	125V 60Hz	WG790-11D	12019 8
	208/277V 50Hz	N/A	
	208/277V 60Hz	N/A	
	480V 60Hz	N/A	
MOTOR ONLY			
C8825	24V 60Hz	N/A	
	125V 50Hz	N/A	
	125V 60Hz	WG760-10	12011*
	208/277V 50Hz	N/A	
	208/277V 60Hz	N/A	
	480V 60Hz	N/A	
MOTOR ONLY			
C8835	24V 60Hz	N/A	
	125V 50Hz	N/A	
	125V 60Hz	WG780-12D	12017 4
	208/277V 50Hz	N/A	
	208/277V 60Hz	N/A	
	480V 60Hz	N/A	
MOTOR ONLY			
C8845	24V 60Hz	N/A	
	125V 50Hz	N/A	
	125V 60Hz	WG750-10D	12010 5
	208/277V 50Hz	N/A	
	208/277V 60Hz	N/A	
	480V 60Hz	N/A	
MOTOR ONLY			
C8855	24V 60Hz	N/A	
	125V 50Hz	N/A	
	125V 60Hz	WG800-11D	10854 7
	208/277V 50Hz	N/A	
	208/277V 60Hz	N/A	
	480V 60Hz	N/A	
MOTOR ONLY			
C8865	24V 60Hz	CW770-10§	10852*
	125V 50Hz	N/A	
	125V 60Hz	WG770-10D	12013 6
	208/277V 50Hz	N/A	
	208/277V 60Hz	WG773-10	12014*
	480V 60Hz	N/A	
MOTOR ONLY			
C8866	24V 60Hz	CW770-10§	10852*
	125V 50Hz	N/A	
	125V 60Hz	WG770-10	12012*
	208/277V 50Hz	WG774-10	12015*
	208/277V 60Hz	WG773-10	12014*
	480V 60Hz	N/A	

N/A Not available.

All time switch motors are available in voltage and cycle shown in 2nd column. For example: To order new style T100 Series Motor in 60Hz 125V, order WG1570-10D.

NOTE: Carryover only sold as a complete unit with motor. **These voltages and corresponding motor numbers apply to all model numbers.

§ Available while supplies last.

Internal revisions may result in the motor you receive having a different dash number (WG430-3 vs. WG430-10) than the motor ordered. This revision has no effect on the motor function.

Cross Reference

24-Hour Time Switches

INTERMATIC	Paragon	Tork
24 Hour Time Switches (1 hour minimum "ON" time)		
T101	4001-00	1101/1191
T102	4002-71	1102
T103	4003-00	1103/1962
T104	4004-71, 4004-20	1104/1962
T105	4005-00S	3121
T101B	4001-00V	—
T101R	4011-00	1101-0/1191-0
T102R	4012-20	—
T103R	4013-00	1103-0/1962-0
T104R	4014-71, 4014-20	1104-0
T106R	—	—
24 Hour Time Switches with Skip-A-Day (1 hour minimum "ON" time)		
T171	P101S	7100
T172	—	7102
T173	4003-00S, P103S	7200
T174	4004-71S, P104S	7202
T175	4005-00S	7120
T176	4006-71S	7122
T171R	4013-00S	7100-0
T172R	4014-20S	7102-0
T173R	4013-00S	7200-0
T174R	4014-20S, 4014-71S	7202-0
T176R	—	7122-0
T1471BR	47017-0S	7300
T1472BR	47017-20S	7302
T1475BR	—	—
T1871BR	—	7220
24 Hour Time Switches with Skip-A-Day and Carryover 1 hour minimum "ON" time		
T1471BCR	47217-00S	7300L/7300L-0
T171CR	—	—
T173CR	4213-0S	7200L
T174CR	4114-27S	7202L
Water Heater Time Switches with manual "external override"		
WH40	—	WH2

Specialty Time Switches

INTERMATIC	Paragon	Tork
Irrigation Time Switches (12 minute minimum "ON" time)		
T8805P101C	—	—
R8806P101C	—	—
Cycle Time Switches (5 minute-4 hour dial)		
C8815	—	8121
C8835	—	8301
C8845	—	—
C8855	—	8061
C8865	—	8601
C8866	—	8602
Lighting Control Centers (7 day dial)		
T51211BC	—	T920L
T51311BC	—	T930L

Swimming Pool Time Switches

INTERMATIC	Paragon	Tork
24 Hour Time Switches in Plastic Case		
T101P	4011-00P	1101-N
T102P	—	—
T103P	4013-00P	1103-N
T104P	4014-71P	1104-N
24 Hour Time Switches w/ Heater Circuit		
T101R201	41011-00	—
T104R201	41014-20	1104FM
T101P201	41011-00M	—
T104P201	41014-20M	—
2 in 1 24 Hour Time Switches		
T10101R	4912-99	1101D
T10404R	4918-99	1104D
T12404R	4928-99	1104DF

Astronomic Time Switches

INTERMATIC	Paragon	Tork
Astro Dial		
V45471R	4003SZ, 47017-00S & 00SZ	7200Z/7300Z
V45472R	47017-71S & 71SZ	7202Z/7302Z
V45471CR	47217-00SZ	7200ZL/7300ZL
V45472CR	47217-20SZ & 27SZ	7202ZL/7302ZL

Special Timing Cycle

INTERMATIC	Paragon	Tork
24 Hour Time Switches 15 minute minimum "ON" time		
T1905	1015-00RS	8001
T1905R	42011-00	—
T1906	1015-00RS	8004
T1975	1015-00RS	8007
T1976	1015-00RS	8008
T1975E	1015-40TS	8001-U
Signal Timers		
ET279C	25001-0S	—
ET279C	25002-0S	—
ET279C	23001-00S	5701/5702
ET279C	23002-20S	—
ET279C	23002-00S	—
24 Hour Switching (with adjustable 10-60 min.) "ON" times		
T185	8025-00	4277
Momentary Contact Time Switches (with dry contacts for low voltage remote and mechanically held contactor control)		
ET279C	47016-00S	1847A
ET279C	47216-00S	1847AL
ET279C	—	1847AW
ET279C	7216-00	1847AWL

7-Day Time Switches

INTERMATIC	Paragon	Tork
T7401B	7007-00	W100/W200/ W300/W400
T7402B	7007-20, 7007-71	W202/W302/W402
T7801B	7008-00	W120/W220
T7802B	7008-20, 7008-71	W222
T7401BC	7217-00	W300L/W400L
T7402BC	7217-20	W302L/W402L
T7801BC	7218-00	W220L

In-Wall Timers

INTERMATIC	Grasslin	Paragon	Tork
24-Hour Electro-Mechanical In-Wall Timers			
E1010	—	—	—
E1020/E1120	KM2 ST-16	701A/701AC	WB101
E1221	—	701A-2G	WB103
E1220	KM2 ST-2G	—	WB103
24 Hour Electronic In-Wall Timers			
EJ351C	ETC-502	—	—
EJ353C	ETC-503	—	—
EI500C	—	—	—

Digital In-Wall Timers

INTERMATIC	Paragon	Tork
Interval Timers – Electronic		
EI15MH	E500/ET2000/ET1100	—
EI200	—	—
EI210	—	—
EI220	—	—
EI230	—	—

Cross Reference

Spring Wound Timers

INTERMATIC†	M.H. Rhodes Mark Time	Tork††	Paragon†††
FF5M/FD5M	90004/9305M	A505M	SW5M/SWD5M
FF15M/FD15M	90005/9315M	A515M	SW15M/SWD15M
FF30M/FD30M	90006/9330M	A530M	SW30M/SWD30M
FF60M/FD60M	90008/9360M	A560M	SW60M/SWD60M
FF2H/FD2H	90281/9302H	A502H	SW2H/SWD2H
FF4H/FD4H	90240/9304H	A504H	SW4H/SWD4H
FF6H/FD6H	90007/9306H	A506H	SW6H/SWD6H
FF12H/FD12H	90001/9312H	A512H	SW12H/SWD12H
FF5MH	90030	—	SW5MH
FF15MH/FD15MH	90539/9315MH	A515MH	SW15MH/SWD15MH
FF30MH/FD30MH	90032/9330MH	A530MH	SW30MH/SWD30MH
FF60MH/FD60MH	90024/9360MH	A560MH	SW60MH/SWD60MH
FF6HH/FD6HH	90017/9306HH	A506HH	SW6HH/SWD6HH
FF12HH/FD12HH	90015/9312HH	A512HH	SW12HH/SWD12HH

† FF Models with brushed aluminum plate for commercial/industrial applications. FD Models-decorator design with ivory or white time dial for use with existing toggle or decorator style switch plate.

†† Decorator models only.

††† PSW series no longer available; replaced by SW and SWD series

INTERMATIC†	M.H. Rhodes	Tork††	Paragon†††
*SPDT (for reverse action applications)			
FF32HH	9302HH	—	—
FF34HH	9304HH	—	—
FF36H/FD36H	—	—	—
FF312H	—	—	—
FF315M	90012	—	—
FF330M	90011	—	—
FF360M	90010	—	—
DPST (for breaking both sides of 240 volt loads)			
FF415M/FD415M	—	—	—
FF430M/FD430M	—	—	—
FF460M/FD460M	—	—	—
FF46H/FD46H	—	—	—
FF412H	—	—	—

Next Generation 365 Day Multi-Function Electronic Time Switches

INTERMATIC	Paragon	Tork	Lithonia
ET70115C (SPDT)	EL71/Series	DT100**	—
*(SPST)	EC7001/208-240V	DT100-2**	—
** (DPDT)	EC7001/277V	DT100-3**	—
	EC7001/208-277V	DZS100**	—
	EC7004/208-240V*	—	—
	EC7004/277V*	—	—
	EC7004/208-277V*	—	—
	EC71/18S/120V	—	—
	EC71D/18S/240V	—	—
	EC71ST/120V	—	—
	EC71ST/240V	—	—
	EC71ST/277V	—	—
	EC71STM/120V	—	—
	EC71STM/277V	—	—
	EC365/C/120V	—	—
ET70115CR (SPDT)	EL71PC/Series	DZS100A	—
	EC71STN3/120V	DZS100A	—
** (DPDT)	—	DG180	—
	—	DG180-2	—
ET70115CR24	—	DG180-3	—
for 24 Volt / 60 Hz	—	DG100	—
Input only	—	DG100-2	—
	—	DG100-3	—
	—	DG120**	—
	—	DG120-2**	—
	—	DZS100**	—
	—	DZS100-2**	—
	—	DZS100-3**	—
	—	DGS100	—
	—	DGS100-2	—
	—	DGS100-3	—
	—	DGS180	—
	—	DGS180-2	—
	—	DGS180-3	—
	—	DGM100**	—
	—	DGM100-2**	—
	—	DGM100-3**	—
	—	DWZ100A**	—

INTERMATIC	Paragon	Tork	Lithonia
ET70215C	EL72/Series	DT200	—
	EC72/120V	DT200-2	—
	EC72/240V	DT200-3	—
	EC72/277V	—	—
	EC72D/120V	—	—
	EC72D/240V	—	—
	EC72ST/120V	—	—
	EC72ST/240V	—	—
	EC72ST/277V	—	—
ET70215CR	EL72PC/Series	DZS200A	—
	EC72STN3/120V	DZS200A	—
ET70215CR24	—	DZM200A	—
for 24 Volt / 60 Hz	—	DS200	—
Input only	—	DS200-2	—
	—	DS200-3	—
	—	DZS200	—
	—	DZS200-2	—
	—	DZS200-3	—
	—	DZM200	—
	—	DZM200-2	—
	—	DZM200-3	—
ET70415CR	EL74	DZS400A	—
	EC74/50S/120V	DZS400A	—
ET70415CR24	EC74/50S/240V	Z400B	—
for 24 Volt / 60 Hz	EC74/120D/120/240V	Z400B-2	—
Input only	EC74/192MA/120/240V	K400Z	—
	—	K400Z-2	—
	—	K401Z	—
	—	K401Z-2	—
	—	DIN103A	—
	—	(3PDT)	—
ET70815CR	EL78	K600Z	LITE-
	EC77/140/120, 240V	K800Z	KEEPER
ET70815CR24	—	K600Z-2	LK8
for 24 Volt / 60 Hz	—	K800Z-2	—
Input only	—	K601Z	—
	—	K601Z-2	—
	—	K801Z	—
	—	K801Z-2	—
ET71615CR	EL712	AI200	LK16
ET71615CR24	EC712/120, 240V	A1600	CK16
for 24 Volt / 60 Hz	EC128	—	LK32†
Input only	—	—	CK32†

IMPORTANT NOTE: Review manufacturer's literature for possible feature differences

Cross Reference

Weatherproof Outdoor Receptacle Covers

Intermatic	Taymac	Carlton	Cooper	Arlington	T&B	Raco	P&S
WP1000C	n/a	E9UVCRN	n/a	n/a	n/a	5752-0*	n/a
WP1000GC	n/a	E9UVGRN	n/a	n/a	n/a	n/a	n/a
WP1000HC	n/a	E9UHCNRN	n/a	n/a	n/a	5761-0*	n/a
WP1000HGC	n/a	E9UVGRN	n/a	n/a	n/a	n/a	n/a
WP1000RC	71101*	n/a	n/a	DBV* series	n/a	n/a	n/a
WP1000HRC	n/a	n/a	n/a	DBV* series	n/a	n/a	n/a
WP1010C	n/a	E9UDVCRN	n/a	n/a	n/a	n/a	n/a
WP1010HC	n/a	n/a	n/a	n/a	n/a	n/a	n/a
WP1010HMC	MX3300	n/a	n/a	n/a	CKMD*	n/a	n/a
WP1010MC	MX3200	n/a	n/a	n/a	CKSDV*	n/a	n/a
WP1020C	MM2440C	n/a	n/a	DBUL1DC	n/a	n/a	n/a
WP1030C	n/a	n/a	n/a	n/a	n/a	n/a	n/a
WP1030MC	MX6200*	n/a	n/a	n/a	2CKD*	n/a	n/a
WP1050	MM7440C	n/a	n/a	n/a	n/a	n/a	n/a
WP1100C	MM400C	n/a	WIU-1	DBU1C	CKNM*	n/a	WIUC10CL
WP1100C	n/a	n/a	n/a	n/a	n/a	n/a	n/a
WP1150C	MM740C	n/a	WIU-1D	n/a	n/a	n/a	WIUC10DL
WP1100WC	n/a	n/a	WIU-1W	DBUL1	n/a	n/a	WIUC10WL
WP1110WC	n/a	n/a	n/a	n/a	n/a	n/a	n/a
WP1220C	MM2440C*	E9U2CRN*	WIU-2*	n/a	2CKNM*	5770-0*	n/a
WP1230C	n/a	n/a	n/a	n/a	n/a	n/a	WIUC20CL
WP1250C	MM7440C*	n/a	n/a	n/a	n/a	5789-0	n/a
WP2000	n/a	n/a	n/a	n/a	n/a	n/a	n/a
WP3100C	MM400C	n/a	WIU-1	DBU1C	CKNM*	n/a	WIUC10CL

*Competitive product does not meet all possible device configurations and installation methods that the Intermatic cover handles.

7-Day Electronic Time Switches

INTERMATIC	Paragon	Tork	EZ Controls
ET171C (SPST)	EC7000/120*	ES101, EW101	EZ-701-1
(SPDT)		ES120, EW120*	
	EC7004/120	DG100*, DG180*	EZ-701-1A
		DIN101A*	
ET173C (DPST)	EC7005/120	ES103, EW103	EZ-701-2
			EZ-701-2A
ET174C (DPST)	EC7000/208-240*	ES103-2, ES103-3	EZ-701-72
(SPDT)		ES120-2, ES120-3*	
	EC7000/277*	EW103-2,	
	EC7004/208-240	EW103-3	
	EC7004/277		
	EC7005/120, 208-240		
	EC7005/277		
ET279C (SPST)	EC11 Series*	DGM100**	EZ-701-2M**
*(SPDT) **(DPDT)	EC7001/120*	CD100A, DS200**	
		DIN100*, DIN200*	
ET8115C	EC71/30S/120	E, ES & EW120	EZ-T105
(SPST)		DG100, DG180	EZ-701-1A
		DIN101A	
ET8215C	—	DG120 (DPDT)	—
ET8215C	EC71D/30SM/	DGM100	EZ-701-2M
*(SPDT) **(DPDT)	120*		
EH10††	—	EH10	—
EH40††	—	EH20	—

†† With external load indicator and external load override.

24 Hour Electronic Time Switches

INTERMATIC	Paragon	Tork	EZ Controls
ET100C (SPST)	EC1015P/120*	E101, E120*	EZ-T101
(SPDT)	EC4000/120		
	EC4004/120		
	EC4004P/120		
	EC4004PC/120		
	EC4000P/120*		
	EC4000PC/120*		
	EC11 & 11D/120*		
ET101C (SPST)	—	E101, E120*	EZ-T101
*(SPDT)			
ET102C (SPST)	EC1015P/208-277	E101-2	EZ-T102
(SPDT)	EC4000/208-277		
	EC4004/208-277	E101-3	
	EC4004P/208-277		
	EC4000P/208-277	E120-2*	
	EC4004PC/208-277		
	EC4005P/120, 208-240**		
	EC4005PC/120, 208-240**		
** (DPST)	EC11D/240*	E120-3*	
ET103C (DPST)	—	E103	EZ-T103
ET104C (DPST)	EC4005/120-240	E103-2, E103-3	EZ-T104

Astronomic Electronic Time Switches

INTERMATIC	Paragon	Tork	EZ Controls
ET70115CR† (SPDT)	EC71ST/120	DZS100	EZ-701-2AS
	EC71ST-N3/120V		
	EC71ST/277	DZS100-3	EZ-701-72AS

† Replaces ET816CR and ET833CR.

NOTE: ET70000 Series provides astronomic programming for any circuit(s).

Intermatic Part Number	RAB Cross	Stonco Cross	Atlas Cross	Hubbell
Wall Packs				
WL050MH	WP1H50	LPSC50MA-8	WLSG-50MHQPK *	N/A
WL070MH	WP1H70	LPSC70MA-8	WLSG-70MHQPK *	WGH70H*
WL100MH	WP1H100	LPM2C100MA-8	WLSG-100MHQPK *	PGM-100H-128-1L
WL150MH	WP2H150QT	WPM150MA-8	N/A	N/A
WL175MH	WP2H175QT	WPM175MA-8	WLM-175MHQPK	WGH175H
WL250MH	WP3H250QT	WP250MA-8	WLXD-250MHQPK	WGH250H
WL400MH	WP4H400QT	WP400MA-8	WLXD-400MHQPK	WGH400H
WL035HPS	WP1SN35	WNPS35NLXL	WLS-35HPK	N/A
WL050HPS	WP1SN50	WNPS50NLXL	WLS-50HPK	N/A
WL070HPS	WP1SN70	WNPS70NLXL-8	WLS-70HPK	WGH70S
WL100HPS	WP1SN100	WNPS100NLXL-8	WLS-100HPK **	PGM-100S-128-1***
WL150HPS	WP2SH150QT	WPM150NLXL-8	WLM-150HQPK	WGH150S
WL250HPS	WP3SC250QT	WP250NLXL-8	WLXD-250HQPK	WGH250H
WL400HPS	WP4SC400QT	WP400NLXL-8	WLXD-400HQPK	WGH400H
Cut-Off Wall Packs				
WLC70HPS	WP2CSH70	N/A	WLMC-70HQPK	N/A
WLC100HPS	WP2CSH100	N/A	WLMC-100HQPK	N/A
WLC100MH	WP2CH100QT	N/A	WLMC-100MHQPK	N/A
WLC150HPS	WP2CSH150QT	N/A	WLMC-150HQPK	N/A
WLC150MH	WP2CH150QT	N/A	WLMC-150MHQPK	N/A
WLC175MH	WP2CH175QT	N/A	WLMC-175MHQPK	N/A
WLC250HPS	WP3CSC250QT	N/A	WLXDC-250HQPK	N/A
WLC250MH	WP3CH250QT	N/A	WLXDC-250MHQPK	N/A
WLC400HPS	WP4CSC400QT	N/A	WLXDC-400HQPK	N/A
WLC400MH	WP4CH400QT	N/A	WLXDC-400MHQPK	N/A
Full Cut-Off Wall Packs				
WLFC175MH	WP2FCH175QT	NPM175MAL-8	WLMFC175MHQPK	N/A
WLFC150MH	WP2FCH150QT	NPM150MAL-8	N/A	N/A
WLFC150HPS	WP2FCSH150QT	NPM150NLXL-8	WLMFC150HQPK	N/A
Floodlights				
FL050MH	FFH50	TLX50NMAL-1	FL-50MHQPK	F-050H1*
FL070MH	FFH70	SLA70NMAL-1	FL-70MHQPK	F-070H1*
FL100MH	EZH1100QT	SLA100MAL-8	FL-100MHQPK	F-100H1*
FL150MH	EZH1150QT	SLA150MAL-8	N/A	N/A
FL175MH	EZH1175QT	SLA175MAL-8	FLM-175MHQPK	MIC-175H-338
FL250MH	FZH250QT	SLM250MAL-8	FLDX-250MHQPK	MHS-Y250H-468-1
FL400MH	FZH400QT	SLM400MAL-8	FLDX-400MHQPK	MHS-Y400H-468-1
FL035HPS	FF35	TLX35NLXL-1	FL-35HPK	N/A
FL050HPS	FF50	TLX50NLXL-1	FL-50HPK	F-050S1
FL070HPS	FF70	TLX70NLXL-1	FL-70HPK	F-070S1
FL100HPS	EZSH100	SLA100XL-8	FL-100HPK **	F-100S1*
FL150HPS	EZSH150QT	SLA150XL-8	FLM-150HQPK	MIC-150S-258
FL250HPS	FZS250QT	SLM250XL-8	FLDX-250HQPK	MHS-Y250S-468-1
FL400HPS	FZS400QT	SLM400XL-8	FLDX-400HQPK	MHS-Y400S-468-1
Motion Detection				
FL300MSW	STL110RW	MDS304WHT	N/A	N/A
FL150QMSW	STL360Q1W	EZX150LMDWHT	N/A	N/A
HLMSW	STL110W	MDS600WHT	N/A	N/A
Dusk-to-Dawn				
DD175MV	YLM175	DTDA175NMML-1	DD175M	NPU-175C
DD150HPS	YLS150	DTDA150NLXL-1	DD150HPS	NPU-150S
Quartz Floodlights				
FL150Q	QF150	EQX150L	N/A	QD-150B
FL300Q	QF300	EQ300L	Q300WF	N/A
FL500Q	QF500	EQ500L	Q500WF	QL505-BZ
Canopy Lights				
CP150HPS	VAN5S150QT	LCQ155LXL-8	VN12-150HQPK	C12-150S
CP150MH	VAN5H150QT	LCQ155MAL-8	VN12-150MHQPK	C12-150H
Wall Fixture with Photocell				
WL070HPSPC	WPTS70	TLW70NLXL-1	WL-70HPCPK	NRG307B

* CROSS IS 120V ONLY, NOT QUAD TAP BALLAST

** CROSS HAS GLASS LENS, NOT POLYCARBONATE

*** CROSS PROVIDED WITHOUT LAMP

Cross Reference

Electronic Astronomic Time Switches

Intermatic	Paragon	Tork
SPST Astro Time Switches in NEMA 1 Case		
ET8015C	—	—
SPDT Astro Time Switches in NEMA 1 Case		
ET8015CR	EC365DST1/120V	—
SPDT Astro Time Switches in NEMA 3R Case		
ET8115C	—	—
ET8115CR	EL71/120V EL71/208-240V EL71/277V	DWZ100A DZS100A
DPST Astro Time Switches in NEMA 1 Case		
ET8215C	—	—
DPST Astro Time Switches in NEMA 3R Case		
ET8215CR	EC365DST2/120V EC365DST2/277V EL72/120V EL72/208-240V EL72/277V	DW200A DZS200A

Electronic Auto-Off Timers

Intermatic	Leviton	Leviton
5-10-15-30 Minute Range		
EI200	6230MI	—
EI200LA	6230MA	—
EI200W	6230MW	—
10-20-30-60 Minute Range		
EI210	6260MI	6560MI
EI210LA	6260MA	6560MA
EI210W	6260MW	6560MW
1-2-4-8 Hour Range		
EI220	—	—
EI220LA	—	—
EI220W	—	—
2-4-8-12 Hour Range		
EI230	6212HI	6512HI
EI230LA	6212HA	6512HA
EI230W	6212HW	6512HW