

ANALOG (2%)

CENTURY PANEL METERS

Attractive, easy-to-read meters in black plastic case with glass window. All models shown have black knife-edge pointer and ±2% accuracy. UL recognized. Many other ranges available; go online or call. Order external shunts separately on page 1882.



ROUND AND RECTANGULAR PANEL METERS



25 and 55



27 and 57



29, 59 and 79

Popular replacement meters feature black plastic case, glass window, and black spade pointer. Accuracy for all models shown: ±2% f.s. UL recognized (except wattmeters). Other ranges available; go online or call. Order external shunts separately on page 1882 and current transformers separately on page 1957.

DC VOLTMETERS WITH SELF-SHIELDING METER MOVEMENT

Range	Ohms	Model 2121 1.5"		Model 2122 2.5"		Model 2123 3.5"	
		Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each
0-5	1KΩ Per V	...	...	55F5357	77.70	...	...
0-10		...	...	55F5358	77.70	99F6026	78.60
0-15		55F5412	77.70	55F5359	77.70	55F5368	78.60
0-25		...	...	55F5360	77.70	...	...
0-30		55F5413	77.70	...	...	55F5370	78.60
0-50		...	...	55F5362	77.70	55F5371	78.60
0-100		...	...	55F5363	77.70	...	...
0-150		...	...	55F5364	77.70	55F5373	78.60

DC AMMETERS WITH SELF-SHIELDING METER MOVEMENT

Range	Ohms	Model 2122 2.5"		Model 2123 3.5"		Model 2124 4.5"	
		Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each
0-3	00.0166	55F5252	73.65	55F5259	77.70	...	...
0-5	00.0100	55F5253	73.65	55F5260	77.70	...	...
0-10	00.0050	55F5254	73.65	...	...	...	...
0-15	00.0033	55F5255	73.65	...	...	...	...
0-25	00.0020	55F5256	73.65	55F5263	77.70	...	...
0-50	00.0010	55F5257	73.65	...	...	55F5272	83.85
0-100†	10.0	...	...	55F5265	77.70	...	...

† Requires external shunt, order separately on page 1882.

DC MICROAMMETERS WITH SELF-SHIELDING METER MOVEMENT

Range	Ohms	Model 2122 2.5"		Model 2123 3.5"		Model 2124 4.5"	
		Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each
0-50	1800	55F5300	93.00	...	...	55F5322	102.15
0-100	1800	55F5301	84.30	55F5311	86.85	55F5324	96.45
0-200	1100	...	...	55F5313	79.95	...	...
25-0-25	1800	...	...	55F5315	95.85	...	...

DC MILLIAMMETERS WITH SELF-SHIELDING METER MOVEMENT

Range	Ohms	Model 2122 2.5"		Model 2123 3.5"	
		Stock No.	Price Each	Stock No.	Price Each
0-5	2.00	...	...	55F5342	87.86
0-25	4.00	...	...	55F5344	77.70
0-100	1.00	55F5337	73.65	...	...
0-500	0.20	...	...	55F5349	77.70

AC VOLTMETERS WITH IRON-VANE METER MOVEMENT

Range	Ohms	Model 2153 3.5"		Model 2154 4.5"	
		Stock No.	Price Each	Stock No.	Price Each
0-150	25000	55F5387	78.90	55F5392	83.85
0-250	41166	55F5388	78.90	...	...
0-300	50000	55F5389	78.90	...	...

AC AMMETERS WITH IRON-VANE METER MOVEMENT

Range	Ohms	Model 2152 2.5"		Model 2153 3.5"		Model 2154 4.5"	
		Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each
0-5	0.0080	55F5275	67.95	55F5284	72.00	55F5291	75.90
0-10	0.0040	55F5276	80.41	55F5285	85.19	55F5292	89.81
0-15	0.0025	55F5277	80.41	55F5286	85.19	...	...
0-25	0.0020	55F5278	83.07	55F5287	87.86	...	...
0-50	0.0010	55F5280	83.07	55F5288	87.86	55F5295	92.47

(2405)

FIND IT • BUY IT • GET IT • DONE

"It's easy to do business with Newark online or by phone."

(116883)

DC VOLTMETERS WITH SELF-SHIELDING METER MOVEMENT

Range	Resist. (Ω)	Model 25 3.5"		Model 27 3.5"		Model 29 4.5"	
		Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each
0-5	1000 Ohms Per Volt	...	...	55F039	78.60	...	...
0-15		...	...	...	...	55F251	84.90
0-25		...	...	55F038	91.40	...	...
0-30		55F1112	...	78.60	55F145	84.90	
0-50		55F1015	55F043	78.60	55F183	84.90	
0-100		62F3253	...	78.60	55F252	84.90	
0-150		...	55F045	78.60	55F170	84.90	
0-250		55F1018	...	78.60	...	...
0-300		...	...	...	55F184	84.90	
0-3000+		2000	...	...	...	55F255	114.00

+External multiplier furnished with meter

DC AMMETERS WITH SELF-SHIELDING METER MOVEMENT

Range	Resist. (Ω)	Model 25 3.5"		Model 27 3.5"		Model 29 3.5"	
		Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each
0-2	0.025	55F259	83.85
0-3	0.0166	55F1057	...	77.70	55F260	97.51	
0-5	0.010	...	...	...	55F210	83.85
0-10	0.005	...	55F064	77.70	...	...
0-25	0.0020	55F1060	...	77.70	...	...
0-30	0.0017	...	55F4828	77.70	...	...
0-50	0.001	...	...	...	55F212	83.85
0-200*	10.0	62F3268	...	77.70	...	...
0-300*	10.0	...	...	...	62F3279	83.85
0-500*	10.0	...	...	...	62F3280	83.85
30-0-30	0.0017	55F1062	...	81.15	...	...

*Require external shunt; order separately on page 1882.

DC MICROAMMETERS WITH SELF-SHIELDING METER MOVEMENT

Range	Ohms	Stock No.	Price Each	Stock No.	Price Each	
0-50	1800	55F1031	55F071	94.65	55F176	118.78
0-100	1800	...	55F072	101.00	...	...

AC VOLTMETERS WITH IRON-VANE TYPE METER MOVEMENT

Range	Resist. (Ω)	Type 55 3.5"		Type 57 3.5"		Type 59 4.5"	
		Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each
0-10	133	55F1067	...	88.62	...	...
0-50	3,333	55F1069	...	76.20	...	...
0-150	25,000	55F1071	55F115	78.90	55F181	83.85	
0-250	41,166	...	55F273	78.90	62F3296	97.51	
0-300	50,000	55F1072	62F3291	78.90	55F191	83.85	
0-500+	83,333	...	...	...	55F192	106.65
0-1000+	166,666	...	55F275	115.20	...	...

+External multiplier furnished with meter

AC AMMETERS WITH IRON-VANE TYPE METER MOVEMENT

Range	Resist. (Ω)	Stock No.	Price Each	Stock No.	Price Each	
0-3	0.028	...	...	55F194	88.26	
0-5	0.008	55F1088	72.00	55F195	75.90	
0-10	0.004	55F1089	55F134	83.73	55F196	88.26
0-15	0.0025	55F1119	55F156	83.73	55F282	88.26
0-25	0.002	55F1090	55F135	86.34	55F197	90.87
0-50	0.001	55F1091	55F136	86.34	55F219	90.87
0-100**	0.008	55F1121	...	72.00	55F284	75.90

**Requires external transformer; order separately on page 1882.

WATTMETERS WITH DYNAMOMETER MOVEMENT

Range	Volts	Amps	Model 79 4.5"	
			Stock No.	Price Each
0-75	150	1.0	55F232	283.44
0-150	150	2.0	55F233	283.44
0-300	150	4.0	55F234	283.44
0-750	150	10.0	55F235	283.44
0-1500	300	10.0	55F236	283.44
0-3000	300	20.0	55F1140	283.44

(2393)

WIDE-VUE PANEL METERS



Black plastic case with clear acrylic window for wide-angle visibility. 1½" models have black knife-edge pointer; 2½", 3½", 4½" models have black spade pointer. Accuracy for all models show: ±2% i.s. Other ranges available; go online or call. For Wide-Vue bezel kits, external shunts and current transformers, go online or call.

DC VOLTMETERS WITH SELF-SHIELDING METER MOVEMENT

Range	Resist. (Ω)	Model 1212 1-1/2"		Model 1227 2-1/2"		Model 1327 3-1/2"		Model 1329 4-1/2"	
		Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each
0-5	1000 Ohms Per Volt	55F436	77.70	...	...	55F1146	78.60	...	...
0-10		55F437	77.70	55F1500	77.70	55F1550	78.60	55F1600	84.90
0-15		55F438	77.70	55F1501	77.70	55F1551	78.60	55F1601	84.90
0-25		55F439	77.70	55F1502	77.70	...	...	55F1602	84.90
0-30		55F440	77.70	55F1503	77.70	55F1553	78.60	55F1603	84.90
0-50		55F441	77.70	55F1504	77.70	55F1554	78.60	55F1604	89.49
0-100		55F442	77.70	55F1505	77.70	55F1555	78.60	...	...
0-150		55F443	77.70	55F1506	77.70	55F1556	78.60	55F1606	84.90
0-200		...	...	...	...	55F1148	78.60	...	...
0-500		2000	...	...	...	55F1558	82.80	...	...

DC AMMETERS WITH SELF-SHIELDING METER MOVEMENT

0-1	0.050	55F447	74.85	55F1172	73.65	...	...	...	...
0-1.5	0.033	...	...	55F1173	73.65	55F1181	77.70	55F1191	83.85
0-2	0.025	55F448	74.85	...	...	55F1560	77.70	...	...
0-3	0.0166	55F449	74.85	...	...	55F1561	77.70	...	...
0-5	0.010	55F466	74.85	55F1512	73.65	55F1562	77.70	55F1612	83.85
0-10	0.005	...	...	55F1513	73.65	55F1563	77.70	55F1613	83.85
0-15	0.0033	...	...	55F1176	73.65	55F1564	77.70	55F1614	83.85
0-25	0.0020	...	...	55F1177	73.65	...	...	55F1615	83.85
0-30	0.0017	...	...	...	...	55F1182	77.70	55F1192	83.85
0-50	0.001	...	...	55F1178	73.65	55F1566	77.70	55F1616	88.39
0-100*	10.0	...	...	55F1179	73.65	55F1183	77.70	55F1193	83.85
0-200*	10.0	...	...	...	...	55F1185	77.70	55F1195	83.85
0-300*	10.0	...	...	...	...	...	...	55F1196	83.85
0-500*	10.0	...	...	...	...	...	...	55F1197	83.85

*Requires external shunt; order separately on [15727].

DC MILLIAMMETERS WITH SELF-SHIELDING METER MOVEMENT

0-1	43.0	55F481	71.40	55F1517	73.20	55F1567	74.25	55F1617	79.95
0-3	2.0	...	...	55F1198	73.20	55F2501	78.26	...	...
0-5	2.0(2.0)**	55F482	71.40	55F1518	73.20	...	...	...	...
0-10	10.0(2.2)**	55F483	71.40	55F1519	73.20	...	...	...	...
0-15	6.6(2.2)**	...	...	...	...	55F2502	74.25	...	...
0-20	5.0	...	...	...	...	55F2503	74.25	55F2508	84.28
0-25	4.0(6.0)**	55F485	74.85	55F1520	73.65	55F1570	77.70	...	...
0-50	2.0(3.0)**	55F486	74.85	55F1521	73.65	55F1571	77.70	...	...
0-100	1.0(1.5)**	55F487	74.85	...	...	55F1572	77.70	55F1622	83.40
0-200	0.50(0.75)**	55F489	74.85	55F1524	73.65	...	...	55F1624	83.40
0-250	0.40	...	...	55F2500	73.65	...	...	...	...
0-300	0.33(0.50)**	55F491	74.85	...	...	...	...	...	...
0-500	0.20(0.30)**	55F492	74.85	55F1527	73.65	55F1577	77.70	55F1627	83.40

**Resistance shown in parenthesis for model 1212 only.

DC MICROAMMETERS WITH SELF-SHIELDING METER MOVEMENT

0-50	1800	55F473+	93.60	55F1529	93.00	55F1579	94.65	55F1629	102.15
0-100	1800	55F474	83.10	55F1530	84.15	55F1580	86.85	55F1630	96.45
0-200	1100	...	...	55F1531	76.20	55F1581	79.95	55F1631	86.85
25-0-25	1800	55F477+	93.60	...	...	...	...	...	...
50-0-50	1800	55F478	83.10	55F1533	85.05	55F1583	87.30	55F1633	102.61
100-0-100	1100	55F479	76.65	55F4850	77.70	55F2513	80.55	...	...

+Resistance is 5500Ω.

TAUT BAND DC MICROAMMETERS WITH SELF-SHIELDING METER MOVEMENT

Range	Resist. (Ω)	Model 1227T 2-1/2"		Model 1327T 3-1/2"		Model 1329T 4-1/2"	
		Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each
0-10	4900	...	...	55F2228	162.06	...	...
0-25	1960	55F2225	134.87	55F2230	141.35	...	...
0-100	500	...	...	...	...	55F2237	110.36

AC VOLTMETERS WITH IRON VAN METER MOVEMENT

Range	Resist. (Ω)	Model 1257 2-1/2"		Model 1357 3-1/2"		Model 1359 4-1/2"	
		Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each
0-10	133	55F1534	77.63	...	...	...	...
0-50	3,333	...	...	55F2527	76.20	55F2534	83.85
0-150	25,000	55F1535	73.65	55F1585	78.90	55F1635	83.85
0-300	50,000	55F1536	73.65	55F1586	78.90	55F1636	83.85
0-500††	83,333	55F2530	99.75	55F2537	106.65

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ANALOG (2%)

WIDE-VUE PANEL METERS (CONT.)

Range	Resist. (Ω)	Model 1257 2-1/2"		Model 1357 3-1/2"		Model 1359 4-1/2"	
		Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each
0-1	0.213	...	...	55F1537	75.89	55F1587	80.00
0-2	0.065	...	...	55F2589	75.89	55F2596	80.00
0-3	0.028	...	...	...	...	55F2597	80.00
0-5	0.008	55F2582	67.95	55F1538	72.00	55F1588	75.90
0-10	0.004	55F2583	71.63	55F1539	75.89	55F1589	80.00
0-10†	0.008	...	...	48F5566	72.00	...	...
0-15	0.0025	55F2584	71.63	55F1540	75.89	55F1590	80.00
0-25	0.002	55F2585	74.16	55F1541	78.26	55F1591	82.37
0-25†	0.008	...	...	48F5567	72.00	48F5571	75.90
0-50	0.001	55F2586	74.16	55F1542	78.26	55F1592	82.37
0-50†	0.008	...	...	48F5568	72.00	...	...
0-75	0.0002	...	...	55F1008	83.16	...	...
0-75†	0.008	...	...	48F5569	72.00	48F5573	75.90
0-100†	0.008	...	...	...	...	55F2598	75.90
0-200†	0.008	...	...	55F2593	72.00	55F2600	75.90
0-300†	0.008	...	...	55F2594	72.00	...	...

††External multipliers are furnished on AC meters having a range of 500 volts or higher.
AC AMMETERS WITH IRON VANE METER MOVEMENT

Range	Resist. (Ω)	Model 1257 2-1/2"		Model 1357 3-1/2"		Model 1359 4-1/2"	
		Stock No.	Price Each	Stock No.	Price Each	Stock No.	Price Each
0-50	80.0	...	...	55F2539	75.89	...	...
0-100	17.2	...	...	55F2540	75.89	...	...
0-250	3.15	...	...	55F2541	75.89	...	...
0-500	.9	55F2538	71.63	...	...	...	...

†Requires external current transformer, order separately.
 (2417)

TRU-VUE PANEL METERS

Modern, clear acrylic lens to update your panel design. All models shown have black knife-edge pointer and ±2% f.s. accuracy. Available in 5 sizes: 1½", 2½", 3½", 4½", 4"x 6"; go online or call for sizes and ranges not shown. Order external shunts separately on page 1882 and current transformers separately on page 1957.



TRU-VUE PANEL METERS (CONT.)

DC MILLIAMMETERS (PIVOT AND JEWEL)

Range	Resistance (ohms)	Model 923 3-1/2"		Model 924 4-1/2"	
		Stock No.	Price Each	Stock No.	Price Each
0-25	4.0	95F5706	90.36	95F5707	83.40
0-100	1.0	95F5710	77.70	95F5711	83.40

DC AMMETERS (PIVOT AND JEWEL)

Range	Resistance (ohms)	Stock No.	Price Each	Stock No.	Price Each
0-1	0.05	95F5714	77.70	95F5715	97.51
0-5	0.01	95F5718	77.70	95F5719	97.51
0-10	0.005	95F5722	90.36	95F5723	83.85
0-50	0.001	95F5726	77.70	95F5727	97.51
0-100†	10.0	95F5730	90.36	95F5731	83.85
0-500†	10.0	95F5734	90.36	95F5735	86.03

†Requires external shunt; Order external shunts separately on page 1957.

DC MILLIVOLTMETERS (PIVOT AND JEWEL)

Range	Resistance (ohms)	Stock No.	Price Each	Stock No.	Price Each
0-50	10	95F5738	77.70	95F5739	83.85
50-0-50	20	95F5742	90.36	95F5743	83.85

DC VOLTMETERS (PIVOT AND JEWEL)

Range	Resistance (ohms)	Stock No.	Price Each	Stock No.	Price Each
0-15	1000 Ohms per Volt	95F5746	91.40	95F5747	84.90
0-30		95F5750	91.40	95F5751	98.72
0-50		95F5754	78.60	95F5755	84.90
0-150		95F5758	78.60	95F5759	84.90
0-500	2000	95F5762	96.28	95F5763	88.65

AC AMMETERS (IRON VANE)

Range	Resistance (ohms)	Model 953 3-1/2"		Model 954 4-1/2"	
		Stock No.	Price Each	Stock No.	Price Each
0-5	0.008	95F5776	83.73	95F5777	75.90
0-15	0.0025	95F5778	83.73	95F5779	88.26
0-25	0.002	95F5780	86.34	95F5542	88.26
0-50	0.001	95F5543	86.34	95F5544	88.26
0-75‡	0.008	95F5545	72.00	95F5546	88.26
0-100‡	0.008	95F5547	72.00	95F5548	75.90
0-300‡	0.008	95F5549	72.00	95F5550	75.90

‡Requires external 5A current transformer; sold separately on page 1957.

AC MILLIAMMETERS (IRON VANE)

Range	Resistance (ohms)	Model 953 3-1/2"		Model 954 4-1/2"	
		Stock No.	Price Each	Stock No.	Price Each
0-50	80	95F5764	83.73	95F5765	88.26
0-100	17.2	95F5766	83.73	95F5767	88.26

AC VOLTMETERS (IRON VANE)

Range	Resistance (ohms)	Stock No.	Price Each	Stock No.	Price Each
0-50	3333	95F5768	76.20	95F5769	97.51
0-150	25000	95F5770	78.90	95F5771	83.85
0-300	50000	95F5772	78.90	95F5773	83.85
0-500*	25000	95F5774	91.75	95F5775	83.85

* Requires external multiplier; available separately; go online or call.
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DC MICROAMMETERS (PIVOT AND JEWEL)

Range	Resistance (ohms)	Model 923 3-1/2"		Model 924 4-1/2"	
		Stock No.	Price Each	Stock No.	Price Each
0-100	1800	95F5675	96.64	95F5676	98.02
0-200	1100	95F5679	89.13	95F5680	88.62
100-0-100	1100	95F5683	89.13	95F5684	90.36

DC MILLIAMMETERS (PIVOT AND JEWEL)

Range	Resistance (ohms)	Stock No.	Price Each	Stock No.	Price Each
0-1	43 (43)*	95F5696	71.40	95F5697	73.20
0-5	2.0 (20)*	95F5700	83.02	95F5701	73.20
0-25	4.0 (6.0)*	95F5704	74.85	95F5705	73.65
0-100	1.0 (1.5)*	95F5708	74.85	95F5709	85.64

*Resistance of 1-1/2" size DC milliammeters are shown in parentheses.

DC AMMETERS (PIVOT AND JEWEL)

Range	Resistance (ohms)	Stock No.	Price Each	Stock No.	Price Each
0-1	0.05	95F5712	74.85	95F5713	73.65
0-5	0.01	95F5716	74.85	95F5717	73.65
0-10	0.005	95F5720	74.85	95F5721	73.65
0-50†	0.001*	95F5724	87.04	95F5725	85.64
0-100‡	10.0*	95F5728	74.85	95F5729	73.65
0-500‡	10.0*	95F5732	74.85	95F5733	73.65

*1-1/2 size only — 10 ohms † Model 921 1-1/2" requires external shunt order separately on page 1882 ‡

Requires external shunt order separately on page 1882.

DC MILLIVOLTMETERS (PIVOT AND JEWEL)

Range	Resistance (ohms)	Stock No.	Price Each	Stock No.	Price Each
0-50	10	95F5736	74.85	95F5737	73.65
50-0-50	20	95F5740	74.85	95F5741	73.65

DC VOLTMETERS (PIVOT AND JEWEL)

Range	Resistance (ohms)	Stock No.	Price Each	Stock No.	Price Each
0-15	1000 Ohms per Volt	95F5744	90.36	95F5745	77.70
0-30		95F5748	77.70	95F5749	77.70
0-50		95F5752	77.70	95F5753	77.70
0-150		95F5756	77.70	95F5757	77.70
0-500*	2000	95F5760	77.70	95F5761	79.95

*Model 921 1- 1/2" requires external multiplier; order separately. Go online or call.

DC MICROAMMETERS (PIVOT AND JEWEL)

Range	Resistance (ohms)	Model 923 3-1/2"		Model 924 4-1/2"	
		Stock No.	Price Each	Stock No.	Price Each
0-100	1800	95F5677	86.85	95F5678	112.16
0-200	1100	95F5681	92.98	95F5682	101.00
100-0-100	1100	95F5685	93.66	95F5695	101.51

DC MILLIAMMETERS (PIVOT AND JEWEL)

Range	Resistance (ohms)	Stock No.	Price Each	Stock No.	Price Each
0-1	43	95F5698	86.34	95F5699	92.98
0-5	2.0	95F5702	74.25	95F5703	92.98

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DESIGNER PANEL METERS

Clean, uncluttered design offers maximum readability in minimum required height. Black plastic case with glass window. Both models feature $\pm 2\%$ f.s. accuracy and red knife-edge pointer. Other ranges available; go online or call. Order external shunts and current transformers separately on pages 1882 and 1957.



DC VOLTMETERS, SELF-SHIELDING

Range	Resistance	Model 523 3.5"		Model 524 4.5"	
		Stock No.	Price Each	Stock No.	Price Each
0-5	1000 Ohms Per Volt	62F3315	78.60
0-10		62F3320	84.90
0-15		55F735	78.60
0-30		55F736	91.40
0-150		62F3318	78.60

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DESIGNER PANEL METERS (CONT.)

DC MICROAMMETERS, SELF-SHIELDING

Range	Resistance	Model 523 3.5"		Model 524 4.5"	
		Stock No.	Price Each	Stock No.	Price Each
0-25*	2100	55F717	135.88	...	...
0-50	1800	55F718	94.80	55F724	118.78
0-100	1800	55F719	86.85	55F725	112.16
50-0-50	1800	55F721	101.51	55F727	97.35
100-0-100	1100	55F722	80.55	...	...

* Tautband (2404)

NEW BIG LOOK PANEL METERS

- Accuracy: $\pm 2\%$ of full scale
- Meet ANSI specifications C-39.1
- Elements: taut band or pivot jewel
- Front panel surface mount



DC VOLTMETERS — ZERO-LEFT

Meter Range	Meter Movement	1.5 inches			2.5 inches			3.5 inches			4.5 inches		
		Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each
0-1 VDC	Taut Band	250 120 LALA	63K2380	54.60	250 220 LALA	63K2396	52.50	...	...	...	...	...	...
0-10 VDC	Taut Band	...	...	...	250 220 MTMT	65K3124	52.50	250 320 MTMT	65K3145	53.55	250 420 MTMT	65K3167	57.75
0-50 VDC	Taut Band	...	...	...	250 220 NTNT	65K3125	56.00	250 320 NTNT	65K3146	53.55	...	...	...
0-100 VDC	Taut Band	...	...	...	250 220 PKPK	65K3126	52.50	250-320-PKPK	65K3147	57.00	250 420 PKPK	65K3169	57.75
0-300 VDC	Taut Band	250 120 RXXR	63K2384	54.60	250 220 RXXR	63K2400	52.50	...	...	...	...	...	...

DC MICROAMMETERS — ZERO-LEFT

0-100 μ ADC	Taut Band	...	...	...	250 200 DRDR	63K2387	53.55	...	...	...	...	...	...
0-200 μ ADC	Taut Band	250 100 EAEA	63K2373	56.70	250 200 EAEA	63K2388	53.55	...	...	...	...	...	...
0-500 μ ADC	Taut Band	250 100 EMEM	63K2374	56.70	250 200 EMEM	63K2389	53.55	...	...	...	...	...	...

DC MILLIAMMETERS — ZERO-LEFT

0-1 mA DC	Taut Band	250 200 FAFA	65K3122	50.40	250 300 FAFA	65K3142	51.45
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DC AMMETERS — ZERO-LEFT

0-1 ADC	Taut Band	250 100 LALA	63K2378	56.70	250 200 LALA	63K2393	53.55
0-5 ADC	Taut Band	250 100 LSLS	65K3118	56.70	250-200-LSLS	63K2394	57.00	...	...	...	...	...	...
0-10 ADC	Taut Band	...	...	...	250 200 MTMT	65K3123	57.00	250 300 MTMT	65K3143	54.60	250 400 MTMT	65K3165	57.75
0-20 ADC	Taut Band	...	...	...	...	...	...	...	...	...	250 400 NGNG	65K3166	57.75
0-30 ADC	Taut Band	...	...	...	250 200 NLNL	63K2395	58.00	250 300 NLNL	65K3144	54.60	...	...	...

AC VOLTMETERS — SELF-CONTAINED, IRON VANE TYPE, 60Hz

0-150 VAC	Pivot and Jewel	...	...	...	250 244 PZPZ	65K3140	51.45	250 344 PZPZ	65K3160	58.42	250 444 PZPZ	65K3181	58.80
0-300 VAC	Pivot and Jewel	...	...	...	250 244 RXXR	65K3141	53.55	250 344 RXXR	65K3161	58.42	250 444 RXXR	65K3182	65.10
0-500 VAC	Pivot and Jewel	...	...	...	...	...	...	250 344 SFSF	65K3162	65.00	...	...	...
0-600 VAC	Pivot and Jewel	...	...	...	...	...	...	250-344-SJSJ	65K3163	64.04	250 444 SJSJ	65K3184	70.00

AC AMMETERS — SELF-CONTAINED, 25-400Hz, IRON VANE

0-5 AAC	Pivot and Jewel	...	...	...	250 240 LSLS	65K3127	51.45	250 340 LSLS	65K3148	56.70	250 440 LSLS	65K3170	66.00
0-10 AAC	Pivot and Jewel	...	...	...	250 240 MTMT	65K3139	51.45	...	...	...	...	...	...

AC AMMETERS — TRANSFORMER-RATED, 0-5A, 25-500Hz, IRON VANE

0-50 AAC	Pivot and Jewel	...	...	...	250 240 LSNT	65K3128	59.55	250 340 LSNT	65K3149	56.70	250 440 LSNT	65K3171	66.00
0-75 AAC	Pivot and Jewel	...	...	...	250 240 LSPB	65K3129	51.45	250 340 LSPB	65K3150	56.70	250 440 LSPB	65K3172	60.90
0-100 AAC	Pivot and Jewel	...	...	...	250 240 LSPK	65K3130	51.45	250 340 LSPK	65K3151	60.67	250 440 LSPK	65K3173	66.00
0-150 AAC	Pivot and Jewel	...	...	...	250 240 LSPZ	65K3131	51.45	250 340 LSPZ	65K3152	56.70	250 440 LSPZ	65K3174	63.00
0-200 AAC	Pivot and Jewel	...	...	...	250 240 LSRL	65K3134	51.45	250 340 LSRL	65K3155	60.67	250 440 LSRL	65K3175	60.90
0-300 AAC	Pivot and Jewel	...	...	...	250 240 LSRX	65K3135	56.70	250 340 LSRX	65K3156	61.00	250 440 LSRX	65K3176	63.00
0-400 AAC	Pivot and Jewel	...	...	...	250 240 LSSC	65K3136	56.00	250-340-LSSC	65K3157	61.00	250 440 LSSC	65K3177	64.04
0-500 AAC	Pivot and Jewel	...	...	...	250 240 LSSF	65K3137	56.70	...	...	...	250 440 LSSF	65K3178	60.90
0-800 AAC	Pivot and Jewel	...	...	...	...	...	...	...	...	...	250 440 LSSN	65K3179	60.90
0-1 kAAC	Pivot and Jewel	...	...	...	250 240 LSVA	65K3138	51.45	250-340-LSVA	65K3159	61.00	250 440 LSVA	65K3180	60.90

(87060)



ANALOG (2%)

HORIZON LINE PANEL METERS



- Accuracy: ± 2% of full scale
- Meet ANSI specifications C-39.1
- Elements: taut band or pivot jewel
- Front panel surface mount
- Rear panel mounting available; *go online or call*

DC VOLTMETERS — ZERO-LEFT

Meter Range	Meter Movement	1.5 inches			2.5 inches			3.5 inches			4.5 inches		
		Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each
0-10 VDC	Taut Band	251 120 MTMT	65K3186	52.50	251-220-MTMT	65K3192	52.50	...	...	...	251 420 MTMT	65K4615	57.75
0-50 VDC	Taut Band	251 120 NTNT	65K3187	54.60	251 220 NTNT	65K3193	52.50	251-320-NTNT	65K3204	53.55	251 420 NTNT	65K4616	57.75
0-100 VDC	Taut Band	251 120 PKPK	65K3188	54.60	251 220 PKPK	65K3194	52.50	251 320 PKPK	65K3205	53.55	251-420-PKPK	65K4617	57.75

DC MILLIAMMETERS — ZERO-LEFT

0-1 mA DC	Taut Band	251 200 FAFA	65K3189	50.40	251 400 FAFA	65K4612	54.60
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DC AMMETERS — ZERO-LEFT

0-5 ADC	Taut Band	251 200 LSLS	65K3190	53.55	251 300 LSLS	65K3202	58.00	251 400 LSLS	65K4613	57.75
0-10 ADC	Taut Band	...	...	...	251 200 MTMT	65K3191	53.55	251 300 MTMT	65K4611	54.60	251 400 MTMT	65K4614	57.75

AC VOLTMETERS — SELF-CONTAINED, IRON VANE TYPE, 60Hz

0-150 VAC	Pivot and Jewel	...	...	...	251 244 PZPZ	65K3199	51.45	251-344-PZPZ	19M0127	54.60	251-444-PZPZ	19M0135	61.00
0-300 VAC	Pivot and Jewel	...	...	...	251 244 RXR X	65K3200	53.55	251-344-RXR X	19M0131	58.00	251-444-RXR X	19M0144	58.80

AC AMMETER — SELF-CONTAINED, 25-400Hz, IRON VANE

0-5 AAC	Pivot and Jewel	251 240 LSLS	65K3195	56.00	251-340-LSLS	87K2506	56.70	251-440-LSLS	19M0149	66.00
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AC AMMETERS — TRANSFORMER-RATED, 0-5a, 25-400Hz, IRON VANE

0-50 AAC	Pivot and Jewel	251 240 LSNT	65K3196	56.00	251-340-LSNT	03M5322	60.00	251-440-LSNT	89K7891	60.70
0-150 AAC	Pivot and Jewel	...	...	...	251 240 LSPZ	65K3197	51.45	251-340-LSPZ	19M0154	61.00	251-440-LSPZ	19M0163	63.00
0-500 AAC	Pivot and Jewel	...	...	...	251 240 LSSF	65K3198	51.45	251-340-LSSF	19M0159	61.00	251-440-LSSF	19M0546	63.00

AC FREQUENCY METERS — SELF-CONTAINED, ACCURACY ±3% OF SPAN

45-55 Hz AC	Pivot and Jewel	...	...	...	254 250 AGAG	63K2404	110.25	254-350-AGAG	19M0558	113.40	254-450-AGAG	19M0567	116.55
45-65Hz AC	Pivot and Jewel	...	...	...	254 250 AJAJ	63K2405	110.25	254-350-AJAJ	19M0560	121.34	254-450-AJAJ	19M0584	116.55
55-65 Hz AC	Pivot and Jewel	...	...	...	254 250 ANAN	63K2406	115.50	254-350-ANAN	81C7474	113.40	254-450-ANAN	74K0694	102.40

AC LOAD INDICATORS — 5A CURRENT TRANSFORMER RATED, 60Hz, IRON VANE TYPE

0-150 AAC	Pivot and Jewel	...	...	...	251 240 LSPZ7AAA	65K3132	57.75	251 340 LSPZ7AAA	65K3153	59.85	...	...	...
0-150 AAC	Pivot and Jewel	...	...	...	251 240 LSPZ7AAB	65K3133	67.20	251 340 LSPZ7AAB	65K3154	69.30	...	...	...
0-150 AAC	Pivot and Jewel	...	...	...	...	...	...	251-340-LSPZAAAJ	18M1367	59.85	251-440-LSPZ7AAJ	19M0596	65.10
0-150 AAC	Pivot and Jewel	...	...	...	...	...	...	251-340-LSPZ7AAK	19M1351	69.30	251-440-LSPZ7AAK	19M0600	60.90

(87062)

STYLIST SERIES PANEL METERS



- Accuracy: ± 2% of full scale
- Meet ANSI specifications C-39.1
- Elements: taut band or pivot jewel
- Front panel surface mount
- Rear panel window mounting, rear panel surface mounting also available; *go online or call*
- Also available with optional bezel; *go online or call*

DC VOLTMETERS — ZERO-LEFT

Meter Range	Meter Movement	1.5 inches			2.5 inches			3.5 inches			4.5 inches		
		Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each
0-10 VDC	Taut Band	260 120 MTMT	65K4619	53.55	260 220 MTMT	65K4629	51.45	260-320-MTMT	83K9438	52.50	260-420-MTMT	19M1153	56.70
0-50 VDC	Taut Band	260 120 NTNT	65K4620	53.55	...	...	...	260-320-NTNT	19M0613	52.50	260-420-NTNT	19M1156	56.70
0-100 VDC	Taut Band	...	...	...	...	...	...	260-320-PKPK	19M0617	52.50	260-420-PKPK	19M1158	56.40
0-600 VDC	Taut Band	...	...	...	260 220 SJSJ	65K4627	51.45	260-320-SJSJ	19M0623	57.00	260-420-SJSJ	19M1159	57.75
0-750 VDC	Taut Band	...	...	...	...	...	...	260-320-SMSM	19M0625	52.50	260-420-SMSM	19M1161	60.00

DC MILLIAMMETERS — ZERO-LEFT

0-1 mA DC	Taut Band	260 100 FAFA	65K4618	51.45	260-300-FAFA	19M0631	50.40	260-400-FAFA	16M4859	60.00
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DC AMMETERS — ZERO-LEFT, SELF-CONTAINED

0-5 ADC	Taut Band	260 200 LSLS	65K4622	52.50	260-300-LSLS	19M0633	53.55	260-400-LSLS	19M1168	57.75
0-10 ADC	Taut Band	...	...	...	260 200 MTMT	65K4623	52.50	260-300-MTMT	19M0637	53.55	260-400-MTMT	19M1172	56.70
0-15 ADC	Taut Band	...	...	...	260 200 NDND	65K4624	52.50	260-300-NDND	19M0640	53.55	260-400-NDND	19M1214	57.75
0-20 ADC	Taut Band	...	...	...	260 200 NGNG	65K4625	52.50	260-300-NGNG	19M0644	58.00	260-400-NGNG	19M1216	57.75

AC VOLTMETERS — IRON VANE, SELF CONTAINED, 60Hz

0-150 VAC	Pivot and Jewel	...	...	...	260-244-PZPZ	19M1228	57.00	260-344-PZPZ	19M1230	55.65	260-444-PZPZ	03M5254	59.85
0-600 VAC	Pivot and Jewel	...	...	...	260-244-SJSJ	19M1237	63.00	260-344-SJSJ	19M1241	55.65	260-444-SJSJ	83K9807	65.00

AC AMMETERS — IRON VANE, SELF-CONTAINED, 50-400Hz

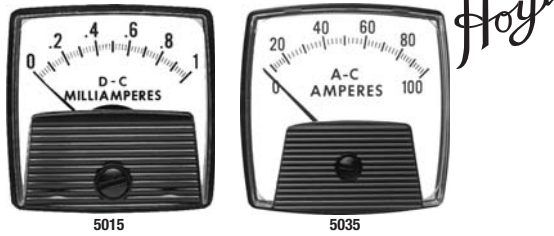
0-5 AAC	Pivot and Jewel	260-240-LSLS	02M6086	50.40	260-340-LSLS	19M1243	55.65	260-440-LSLS	19M1246	59.85
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AC AMMETERS — IRON VANE, TRANSFORMER RATED, 0-5A, 50-400Hz

0-10 AAC	Pivot and Jewel	260-240-LSMT	19M1249	50.40	260-340-LSMT	19M1251	60.00	260-440-LSMT	19M1253	59.85
0-20 AAC	Pivot and Jewel	...	...	...	260-240-LSNG	19M1266	59.55	260-340-LSNG	19M1270	64.04	260-440-LSNG	19M1273	59.85

(87063)

5000 SERIES ANALOG PANEL METERS



Feature dust resistant construction. Gasket sealing design provides gasket sealing while allowing for quick modification and scale changes while maintaining the integrity of the instruments. Made with UL 94V material. Ideal where impact and strength is required in harsh environments. Accuracy: ±2%. Overload: Voltmeters (AC and DC) 50% momentary, 20% sustained. Ammeters (AC and DC) momentary: 10 times the rated current for 10 consecutive intervals of 0.5 seconds with 1 minute interval between successive applications; 20% for 6 hours.

1.5" SQUARE

Mfg. Part No.	Meter Function	Meter Range	Stock No.	Price Each
5015R-50MAAC-50AAC	AC Ammeter	0-50 mAAC / 50 AAC	84K7393	92.15
5015R-100MAAC-100AAC	AC Ammeter	0-100 mAAC / 100 AAC	84K7392	92.15
5016R-150VAC	AC Voltmeter	0-150 VAC	84K7394	92.15
5016R-300VAC	AC Voltmeter	0-300 VAC	84K7395	92.15
5015-50MVDC-50ADC	DC Ammeter/ DC Millivoltmeter	0-50 mV / 0-50 A	84K7390	71.90
5015-50MVDC-100ADC	DC Ammeter/ DC Millivoltmeter	0-50 mV / 0-100 A	84K7389	100.00
5015-15VDC	DC Voltmeter	0-15 VDC	84K7388	72.25
5015-50VDC	DC Voltmeter	0-50 VDC	84K7391	95.00

2.5" SQUARE

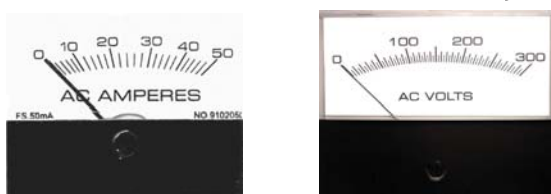
5026-5AAC-50AAC	AC Ammeter	0-5 AAC / 50 AAC	84K7405	66.75
5026-5AAC-100AAC	AC Ammeter	0-5 AAC / 100 AAC	84K7404	95.48
5026-150VAC	AC Voltmeter	0-150 VAC	84K7400	73.45
5026-300VAC	AC Voltmeter	0-300 VAC	84K7401	90.00
5025-50MVDC-50ADC	DC Ammeter/ DC Millivoltmeter	0-50 mVDC / 0-50 ADC	84K7398	72.55
5025-50MVDC-100ADC	DC Ammeter/ DC Millivoltmeter	0-50 mVDC / 0-100 ADC	84K7397	72.55
5025-15VDC	DC Voltmeter	0-15 VDC	84K7396	77.35
5025-50VDC	DC Voltmeter	0-50 VDC	84K7399	77.35
5026-45-65HZ-120V	Frequency	45-65 HzAC / 120 VAC	84K7402	180.90
5026-45-65HZ-240V	Frequency	45-65 HzAC / 240 VAC	84K7403	191.85

3.5" SQUARE

5036-5AAC-100AAC	AC Ammeter	0-100 AAC / 5 AAC	84K7417	70.20
5036-5AAC-200AAC	AC Ammeter	0-200 AAC / 5 AAC	84K7418	70.20
5036-5AAC-300AAC	AC Ammeter	0-300 AAC / 5 AAC	84K7419	70.20
5036-5AAC-500AAC	AC Ammeter	0-500 AAC / 5 AAC	84K7420	70.20
5036-300VAC-MOD	AC Voltmeter	0-300 VAC	73K5492	35.63
5036-150VAC	AC Voltmeter	0-150 VAC	84K7414	78.85
5036-600VAC	AC Voltmeter	0-600 VAC	84K7421	100.05
5035-50MVDC-50ADC	DC Ammeter	0-50 ADC / 50 mVDC	84K7411	77.35
5035-50MVDC-100ADC	DC Ammeter	0-100 ADC / 50 mVDC	84K7409	77.35
5035-50MVDC-300ADC	DC Ammeter	0-300 ADC / 50 mVDC	84K7410	62.00
5035-50MVDC-500ADC	DC Ammeter	0-500 ADC / 50 mVDC	84K7412	90.00
5035-15VDC	DC Voltmeter	0-15 VDC	84K7406	80.25
5035-30VDC	DC Voltmeter	0-30 VDC	84K7408	80.25
5035-50VDC	DC Voltmeter	0-50 VDC	84K7413	80.25
5035-150VDC	DC Voltmeter	0-150 VDC	84K7407	90.00
5036-45-65HZ-120V	Frequency	45-65 HzAC / 120 VAC	84K7415	182.20
5036-45-65HZ-240V	Frequency	45-65 HzAC / 240 VAC	84K7416	175.00

(88567)

CK-900 AND 3100 SERIES PANEL METERS

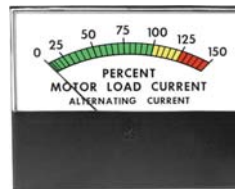


CK910

CK920 & CK930

▶ CONTINUED ▶

CK-900 AND 3100 SERIES PANEL METERS (CONT.)



H3135



H3145

CK-900 series panel meters are very popular for marine applications. 5% accuracy. Available in most AC/DC ranges and can be installed with window or surface mounting. Feature high impact translucent cases, operating zero adjusters and illumination options to enhance the backlighting of the instrument. Connections are made through the 1/4" quick disconnect terminals which may also serve as solder tabs.

CK-910 SERIES — 1.5" RECTANGLE

Mfg. Part No.	Meter Function	Meter Range	Stock No.	Price Each
CK910-AACT-50	AC Ammeter	0-50 mAAC / 50 AAC	84K7314	18.00
CK910-AACT-100	AC Ammeter	0-100 mAAC / 100 AAC	84K7313	18.00
CK910-AAC-001	AC Ammeter	0-1 AAC	84K7311	21.00
CK910-AAC-010	AC Ammeter	0-10 AAC	84K7312	17.86
CK910-AVV-150	AC Voltmeter	0-150 VAC	84K7315	19.00
CK910-AVV-300	AC Voltmeter	0-300 VAC	84K7316	17.86
CK910-DMA-001	DC Milliammeter	0-1 mADC	84K7321	20.07
CK910-OMA-010	DC Milliammeter	0-10 mADC	84K7330	18.00
CK910-DMA-1-0-1	DC Milliammeter	1-0-1 mADC	84K7322	29.00
CK910-DAA-001	DC Ammeter	0-1 ADC	84K7317	18.10
CK910-DAA-003	DC Ammeter	0-3 ADC	84K7318	18.10
CK910-DAA-005	DC Ammeter	0-5 ADC	84K7319	17.00
CK910-DAA-020	DC Ammeter	0-20 ADC	84K7320	15.98
CK910-DVV-005	DC Voltmeter	0-5 VDC	84K7324	19.08
CK910-ODV-015	DC Voltmeter	0-15 VDC	84K7326	36.25
CK910-ODV-030	DC Voltmeter	0-30 VDC	84K7327	30.00
CK910-ODV-050	DC Voltmeter	0-50 VDC	84K7328	18.00
CK910-DVV-100	DC Voltmeter	0-100 VDC	84K7325	16.92

CK-920 SERIES — 2.5" RECTANGLE

CK920-AACT-100	AC Ammeter	0-100 mAAC / 100 AAC	84K7334	23.45
CK920-AACT-50	AC Ammeter	0-50 mAAC / 50 AAC	84K7335	23.45
CK920-AAC-1	AC Ammeter	0-1 AAC	84K7331	24.00
CK920-AAC-5	AC Ammeter	0-5 AAC	84K7333	39.00
CK920-AAC-10	AC Ammeter	0-10 AAC	84K7332	24.00
CK920-AVV-25	AC Voltmeter	0-25 VAC	84K7338	39.00
CK920-ACV-150	AC Voltmeter	0-150 VAC	84K7336	23.45
CK920-AVV-300	AC Voltmeter	0-300 VAC	84K7339	19.74
CK920-DMA-005	DC Milliammeter	0-5 mADC	84K7340	17.86
CK920-DMA-010	DC Milliammeter	0-10 mADC	84K7341	17.86
CK920-DMA-025	DC Milliammeter	0-25 mADC	84K7342	20.00
CK920-DMA-100	DC Milliammeter	0-100 mADC	84K7343	19.00
CK920-DMA-300	DC Milliammeter	0-300 mADC	84K7344	20.07
CK920-DMA-500	DC Milliammeter	0-500 mADC	84K7345	17.86
CK920-DVV-005	DC Voltmeter	0-5 VDC	84K7346	21.06
CK920-DVV-010	DC Voltmeter	0-10 VDC	84K7347	19.04
CK920-DVV-015	DC Voltmeter	0-15 VDC	84K7348	22.37
CK920-DVV-30	DC Voltmeter	0-30 VDC	84K7351	20.26
CK920-DVV-50	DC Voltmeter	0-50 VDC	84K7352	20.26
CK920-DVV-100	DC Voltmeter	0-100 VDC	84K7349	19.04

CK-930 SERIES — 3.5" RECTANGLE

CK930-AACT-100	AC Ammeter	0-100 mAAC / 100 AAC	84K7353	22.00
CK930-AACT-50	AC Ammeter	0-50 mAAC / 50 AAC	84K7354	22.00
CK930-ACV-150	AC Voltmeter	0-150 VAC	84K7355	23.00
CK930-AVV-300	AC Voltmeter	0-300 VAC	84K7357	29.00
CK930-DAA-003	DC Ammeter	0-3 ADC	84K7359	21.34
CK930-DAA-001	DC Ammeter	0-1 ADC	84K7358	21.00
CK930-DCA-005	DC Ammeter	0-5 ADC	84K7361	42.00
CK930-DAA-010	DC Ammeter	0-10 ADC	84K7360	19.74
CK930-DMA-001	DC Milliammeter	0-1 mADC	84K7362	21.00
CK930-DMA-010	DC Milliammeter	0-10 mADC	84K7363	21.00
CK930-DMA-500	DC Milliammeter	0-500 mADC	84K7365	22.04
CK930-DMA-5-0-5	DC Milliammeter	5-0-5 mADC	84K7364	36.25
CK930-DVV-15	DC Voltmeter	0-15 VDC	84K7367	22.00
CK930-DVV-30	DC Voltmeter	0-30 VDC	84K7368	20.68
CK930-DVV-050	DC Voltmeter	0-50 VDC	84K7366	20.68

3100 series panel meters have an industrial styled polycarbonate case that is available for surface, window or bezel mounting. Available in 4 sizes: 1 1/2", 2 1/2", 3 1/2" and 4 1/2". Accuracy ±2% full scale value. Spring loaded pivot and jewel movements.

▶ CONTINUED ▶

ANALOG (5%) • ANALOG METER RELAYS • ANALOG SWITCHBOARDS

CK-900 AND 3100 SERIES PANEL METERS (CONT.)

3100 SERIES — 3.5" RECTANGLE				
Mfg. Part No.	Meter Function	Meter Scale	Stock No.	Price Each
3135-50ADC-SC	DC Ammeter	0-50 ADC	84K7381	77.35
3100 SERIES — 4.5" RECTANGLE				
H3145-DMA-001	DC Milliammeter	0-1 mADC	84K7382	80.20

M SERIES MOVING-MAGNET PANEL METERS



- 5% Accuracy of Full Scale
- Flush or Surface Mount without Modification

Quality meters feature high-torque, powerful ballistic movements that permit mounting in steel panels without special calibration and production-engineered mounting and electrical connections. **OMS** and **MSQ** series are square meters with operating zero adjusters and scales printed on translucent plastic. **ME** series edgewise meters are interchangeable with many d'Arsonval meters. Feature flush-to-panel covers, no disfiguring bulge. **3MAS** series rectangular 3 1/2" meters have operating zero adjusters and scales printed on translucent plastic, permitting diffused lighting. All **M** series meters operating temperature range: 0° to +50°C.

DC MILLIAMMETERS

Range	OMS Series 1-1/2" Square			MSQ Series 2-1/2" Square		
	Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each
0-1	OMS-DMA-001-U	62F3541	20.25	MSQ-DMA-001-U	54F1032	22.45
0-5	OMS-DMA-005-U	62F3542	20.25	...	...	...
0-10	OMS-DMA-010-U	87F2559	20.25	MSQ-DMA-010-U	87F2560	22.45
1-0-1	OMS-DMA-1U1-U	44F4762	21.75	MSQ-DMA-1U1-U	44F4779	23.95

DC AMMETERS

0-5	OMS-DAA-005-U	62F3544	20.25	MSQ-DAA-005-U	54F1024	22.45
0-10	...	...	...	MSQ-DAA-010-U	54F1025	22.45
0-20	OMS-DAA-020-U	44F4763	20.25	MSQ-DAA-020-U	44F4780	22.45
0-30	...	...	...	MSQ-DAA-030-U	54F1026	22.45

DC VOLTMETERS

0-10	OMS-DVV-010-U	44F4766	21.35	MSQ-DVV-010-U	44F4782	23.55
0-15	OMS-DVV-015-U	62F3546	21.35	MSQ-DVV-015-U	54F1013	23.55
0-30	OMS-DVV-030-U	44F4767	21.35	MSQ-DVV-030-U	54F1014	23.55
0-50	OMS-DVV-050-U	62F3547	21.35	MSQ-DVV-050-U	54F1015	23.55
0-100	OMS-DVV-100-U	44F4768	21.35	MSQ-DVV-100-U	54F1016	23.55

AC AMMETERS

0-1	OMS-AAA-001-U	44F4771	24.65	MSQ-AAA-001-U	44F4785	26.85
0-5	OMS-AAA-005-U	44F4772	24.65	MSQ-AAA-005-U	44F4786	26.85
0-10	OMS-AAA-010-U	44F4773	24.65	MSQ-AAA-010-U	44F4787	26.85

AC VOLTMETERS

0-150	OMS-AVV-150-U	62F3549	22.45	MSQ-AVV-150-U	54F1006	24.65
0-300	OMS-AVV-300-U	62F3550	22.45	MSQ-AVV-300-U	54F1007	24.65

DC MILLIAMMETERS

Range	3MAS Series 3-1/2" Rectangular			ME Series 2" Edgewise		
	Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each
0-1	3MAS-DMA-001-U	54F1035	24.65	ME-DMA-001-U	54F1029	19.15
0-10	3MAS-DMA-010-U	87F2561	24.65	ME-DMA-010-U	87F2543	19.15
1-0-1	...	...	...	ME-DMA-1U1-U	44F4795	20.65

DC AMMETERS

0-5	3MAS-DAA-005-U	54F1027	24.65	ME-DAA-005-U	54F1020	19.15
0-10	...	...	...	ME-DAA-010-U	44F4798	19.15
0-20	...	...	...	ME-DAA-020-U	44F4799	19.15

DC VOLTMETERS

0-10	...	...	...	ME-DVV-010-U	44F4802	19.15
0-15	3MAS-DVV-015-U	54F1018	25.75	ME-DVV-015-U	54F1010	19.15
0-30	...	...	...	ME-DVV-030-U	44F4803	19.15
0-50	3MAS-DVV-050-U	54F1019	25.75	ME-DVV-050-U	54F1011	19.15
0-100	...	...	...	ME-DVV-100-U	44F4804	19.15

AC AMMETERS

0-1	...	...	...	ME-AAA-001-U	44F4808	22.45
0-5	...	...	...	ME-AAA-005-U	44F4809	22.45
0-10	...	...	...	ME-AAA-010-U	44F4810	22.45

➔ CONTINUED ➔

AC VOLTMETERS

Range	OMS Series 1-1/2" Square			MSQ Series 2-1/2" Square		
	Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each
0-150	3MAS-AVV-150-U	54F1008	26.85	...	...	...
0-300	3MAS-AVV-300-U	54F1009	26.85	...	...	...

DC MICROAMMETERS WITH 500-0-500 RANGE

Mfg. Part No.	Description	Stock No.	Price Each
			Each
3MAS-DJA-5H5-U	3MAS Series 3 1/2" Rectangular	87F2557	26.15

MOTOR LOAD METER RELAYS



In addition to offering action at one or two set points the Simpson motor load relay provides visual monitoring of motor load current. The controller measures the AC current of a motor and indicates the value on a 0-150% dial. The combined features of time delay, gain adjust, and auto/manual reset provide complete relay switching for alarm, motor shutdown or other corrective action. Specifically designed for harsh environments, the **Model 3300 series** is housed in a metal case that gives complete magnetic isolation for steel panel mounting. The "Rugged Seal" construction withstands rigorous environmental conditions. Each controller is moisture, dust and dirt proof. Size: 4 1/2". Input: 0-5ACA. Use with 5A current transformers order separately on page 1957.



Mfg. Part No.	Size (in.)	Input (AC Amps)	Set Points	Stock No.	Price Each
21643 +	4.5	0-5	2	01B7060	656.97
21683 +	4.5	0-5	1	01B7070	553.21

+ Use with 5A transformer; sold separately (79266)

4 1/2" SWITCHBOARDS



Ammeter



Frequency Meter



Voltmeter

077 series has one piece flame retardant polycarbonate window. The window is contoured to minimize reflection from adjacent light sources. General options include supplementary red pointer, slave pointer, calibration for non-standard ambient temperatures, special scales, trim potentiometers, and illuminated dials with white or red light sources.

AMMETERS

5A transformer rated.

Mfg. Part No.	Description	Scaling	Stock No.	Price Each
077-05FA-LSPK-C6	Displays	0-100A	24C7651	264.16
077-05FA-LSRL-C7	Switchboard	0-200A	70C4206	264.16
077-05FA-LSRX-C6	Panel Instrument	0-300A	97B3294	264.16
077-05FA-LSSJ-C6	Panel Instrument	0-600A	97B3292	264.16

FREQUENCY METERS

Use 10-32 UNF Terminals

Mfg. Part No.	Rating	Scaling	Stock No.	Price Each
077-41LA-PNAN-AN	60Hz +/- 0.15	55-65 Hz	94B8728	810.16

VOLTMETERS

Transformer rated: 50/60Hz (Accuracy ±1%) 0.8VA @ 150V.

Mfg. Part No.	Rating (VAC)	Scaling	Stock No.	Price Each
077-05GA-PZRX-C6	150	0-300V	09J4224	282.88
077-05GA-PZPZ-C6	150	0-600V	07H2938	282.88
077-05GA-PZSJ-C6	150	0-600V	88F1870	294.20
077-05GA-RRX-C6	300	0-300V	09J4225	338.54
077-05GA-SJSJ-C7	600	0-600V	09J4226	346.32

(80268)

ANALOG SWITCHBOARDS

SWITCHBOARDS



DC VOLTMETERS — ZERO-LEFT

Meter Range	Meter Movement	AB/DB-14			AB/DB-40			AB/DB-16		
		Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each
0-50 VDC	Moving Coil	101 013 NTNT	63K4466	401.00	103 011 NTNT	63K4492	261.00	...	...	...
0-150 VDC	Moving Coil	101 013 PZPZ	63K4467	401.00	103 011 PZPZ	63K4493	261.00	...	...	...
0-600 VDC	Moving Coil	101 013 SJSJ	63K4471	434.00	103 011 SJSJ	63K4494	342.00	121 011 SJSJ	63K4559	480.00

DC MICROAMMETERS — ZERO-LEFT, SELF-CONTAINED

0-500 µADC	Moving Coil	103-111-EMEM	74K0564	252.00	121 111 EMEM	63K4551	413.00
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DC MILLIAMMETERS — ZERO-LEFT, SELF-CONTAINED

0-1 mA DC	Moving Coil	101 113 FAFA	63K4472	394.00	103-111-FAFA	19M1298	394.00	121 111 FAFA	63K4552	470.00
0-500 mA DC	Moving Coil	101-113-KMKM	19M1284	394.00	103-111-KMKM	19M1287	274.00	121 111 KMKM	63K4555	441.00

DC AMMETERS — ZERO-LEFT, SELF-CONTAINED

0-5 ADC	Moving Coil	101 113 LLSL	63K4476	424.00	103-111-LLSL	19M1302	301.00	121 111 LLSL	63K4556	425.00
0-15 ADC	Moving Coil	101-113-NDND	19M1288	424.00	103-111-NDND	19M1289	274.00	121 111 NDND	63K4557	441.00
0-30 ADC	Moving Coil	101 113 NLNL	63K4477	424.00	103-111-NLNL	19M1313	281.00	121 111 NLNL	63K4558	425.00

AC VOLTMETERS — ZERO-LEFT, SELF-CONTAINED

0-150 VAC	Moving Coil	101 023 PZPZ	63K4468	385.00	103 021 PZPZ	63K4495	265.00	121 021 PZPZ	63K4560	408.00
0-600 VAC	Moving Coil	101 023 SJSJ	63K4469	457.00	103 021 SJSJ	63K4496	315.00	121 021 SJSJ	63K4561	467.00

AC AMMETERS — ZERO-LEFT, SELF-CONTAINED

0-1 AAC	Moving Coil	101-133-LALA	19M1295	357.00	103 131 LALA	63K4507	231.00	121 131 LALA	63K4564	387.00
0-5 AAC	Moving Coil	...	...	...	103 131 LSL	63K4508	231.00	121 131 LSL	63K4565	387.00
0-30 AAC	Moving Coil	101 133 NLNL	63K4482	368.00	103 131 NLNL	63K4509	231.00	121 131 NLNL	63K4567	387.00

AC FREQUENCY METERS, 120V

45-55 Hz AC	Moving Coil	121-372-AGAG	19M1328	882.00
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SYNCHROSCOPES, 120V

Slow-Fast	Pivot and Jewel	120 452 AAAA	63K4576	948.00
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TEMPERATURE INDICATORS — (LEAD RESISTANCE = 0.3 OHMS)

20-140° C	Moving Coil	121-502-CAAB	19M1290	948.00
0-180°F	Moving Coil	...	...	...	103 502 CDCD	63K4521	779.00	121 502 CDCD	63K4577	948.00

POWER-FACTOR METERS — 3-PHASE, 3- AND 4-WIRE, 50/60Hz, BALANCED SYSTEM ONLY

Meter Range	Meter Movement	Rating (A)	Rating (L-L Volts)	AB-40			AB-16		
				Mfg. Part No.	Stock No.	Price Each	Mfg. Part No.	Stock No.	Price Each
0.5-1-0.5	Moving Coil	5	120	103-402-FCAD	63K4517	657.00	121-402-FCAD	19M1319	747.00

(87067)

AB40 SWITCHBOARD STYLE AC HOUR METERS



- Six-digit counter with 1/2" high digits
- Frequency: 60Hz
- Polycarbonate cover
- Zinc-coated steel case
- Synchronous motor
- Burden: 3W typical

Contains the time-proven 240 elapsed meter in a 4.33" square weather-resistant case. Designed for use with other switchboard instruments on electrical switchgear and control panels. Resettable meters require the removal of the cover to perform the reset function. Meets ANSI C39.1 specifications for shock and vibration. UL recognized, CSA certified.



RESETTABLE METERS

Mfg. Part No.	Voltage Rating (VAC)	Max. Hours	Stock No.	Price Each
103 822 AAAB	120	99,999.9	63K4525	159.43
103 822 ABAB	240	99,999.9	63K4526	212.86
103 822 ACAB	480	99,999.9	63K4527	170.13

NON-RESETTABLE METERS

103 811 AAAB	120	99,999.9	63K4522	149.00
103 811 ABAB	240	99,999.9	63K4523	139.00
103 811 ACAB	480	99,999.9	63K4524	149.00
240-211-AAAB	120	99,999.9	74K0630	62.00

(87069)

DUAL-VIEW SWITCHBOARD METERS



- Feature analog and digital display
- Drop-in replacement for upgrade of existing control and switchgear panels
- Rugged switchboard style case and IP54 rated cover
- High-intensity LED digital displays with analog movements

DUAL-VIEW switchboard meters can be configured to accept ACV, ACA, DCV, or DCA input. Both the digital and analog displays can be modified to represent virtually any scaling or engineering units as required. Contained in a 4 1/4" switchboard housing. Utilizes a taut band moving element and a 0.56", 3 1/2" digit, 7 segment LED display for indication (+/- 1999 counts). Accuracy: +/- 1% of full scale deflection (analog); +/- 0.1% of reading +/- 3 counts (AC digital); +/- 0.1% of reading +/- 2 counts (DC digital).



Mfg. Part No.	Meter Function	Meter Range	LED Display Color	Stock No.	Price Each
123 011 ABAB	DC Voltmeter	0-50 mVDC	Red	63K4597	442.86
123 011 SJSJ	DC Voltmeter	0-600 VDC	Red	63K4598	442.86
123 111 EMEM	DC Microammeter	0-500 µADC	Red	63K4601	442.86
123 021 PZPZ	AC Voltmeter	0-150 VAC	Red	63K4599	464.29
123 021 SJSJ	AC Voltmeter	0-600 VAC	Red	63K4600	348.00
123 131 LALA	AC Ammeter	0-1 AAC	Red	63K4602	464.29
123 131 LSL	AC Ammeter	0-5 AAC	Red	63K4603	464.75

(87070)

SHUNTS

EXTERNAL SWITCHBOARD AND PORTABLE SHUNTS



FN 100-50mV



TM-100-50



FJ-1500-50

Features:

- Accuracy +/- 1/4% (0.25%)
- Temperature coefficient of resistance: +/- 0.000015 between 40-60° C
- Standard 50mV drop

DC Shunts are a separately mounted device for extending the measured current beyond the limits of self-contained DC ammeters. Switchboards non-insulated style, are for use on Busbar in Switchgear applications. Base-mounted insulated types are for light control panels, educational and laboratory application. Lightweight insulated units are for Industrial application where strength and applications where space savings are needed, or for Military applications where dimension to MIL 10304 is required. For use with BUS. Standard 50mV drop; 60A, 70A, 100A, and 150mV units also available, call Newark.

SWITCHBOARD TYPE

Mfg. Part No.	Amp	Stock No.	Price Each
FH-15-50	15	42M3817	18.72
FH-20-50	20	42M3820	18.72
FH-30-50	30	42M3822	18.72
FH-40-50	40	42M3823	18.72
FH-50-50	50	42M3825	18.72
FH-60-50	60	42M3826	18.72
FH-75-50	75	42M3827	18.72
FH-80-50	80	42M3828	18.72
FH-100-50	100	42M3815	18.72
FH-125-50	125	42M3816	18.72
FH-150-50	150	42M3818	18.72
FH-175-50	175	42M3819	18.72
FH-200-50	200	09J4219	18.72
FH-250-50	250	42M3821	18.72
FH-300-50	300	09J4220	18.72
FH-400-50	400	42M3824	22.88
FH-500-50	500	09J4221	26.00
FI-600-50	600	42M3830	40.56
FI-750-50	750	17M9151	43.68
FI-800-50	800	17M9508	46.80
FI-1000-50	1000	11J6979	89.44
FI-1200-50	1200	42M3829	98.80
FJ-1500-50	1500	42M3831	114.40
FJ-2000-50	2000	42M3832	134.16
FL-2500-50	2500	22C8594	192.40
FL-3000-50	3000	23H0204	241.80
FL-4000-50	4000	42M3835	301.60
FL-4500-50	4500	42M3836	347.36
FL-5000-50	5000	42M3837	358.80
FL-6000-50	6000	42M3838	424.32
FL-7000-50	7000	42M3839	501.28
FL-7500-50	7500	42M3840	551.20
FL-8000-50	8000	42M3841	608.92
FL-9000-50	9000	42M3842	692.64
FL-10000-50	10000	42M3833	752.96
FL-12000-50	12000	42M3834	965.12

BASE MOUNT PORTABLE TYPE

FN-1-50	1	09J4222	18.72
FN-2-50	2	26H1403	18.72
FN-5-50	5	92F5447	18.72
FN-10-50	10	93B9571	18.72
FN-20-50	20	42M3843	18.72
FN-25-50	25	92F5449	18.72
FN-50-50	50	92F5450	18.72
FN-75-50	75	26H5927	18.72
FN-100-50	100	92F5451	25.00
FN-150-50	150	04H6680	18.72
FN-200-50	200	92F5452	18.72
FN-250-50	250	42M3844	20.80
FN-300-50	300	42M3845	20.80
FN-400-50	400	42M3846	22.88
FN-500-50	500	83F9154	22.88

LIGHTWEIGHT BASE MOUNT PORTABLE TYPE

TM-1-50	1	67H6015	20.08
TM-5-50	5	67H6016	20.80
TM-10-50	10	72C5232	20.80
TM-15-50	15	42M3849	20.80
TM-20-50	20	66H8067	20.80
TM-25-50	25	90B4652	22.88

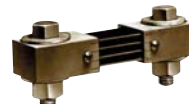
EXTERNAL SWITCHBOARD AND PORTABLE SHUNTS (CONT.)

LIGHTWEIGHT BASE MOUNT PORTABLE TYPE

Mfg. Part No.	Amp	Stock No.	Price Each
TM-30-50	30	04M7566	20.80
TM-40-50	40	42M3852	20.80
TM-60-50	60	42M3854	20.80
TM-80-50	80	42M3855	20.80
TM-85-50	85	42M3857	20.80
TM-125-50	125	42M3848	20.80
TM-150-50	150	50B5747	20.80
TM-170-50	170	42M3850	29.12
TM-200-50	200	04M7560	29.12
TM-250-50	250	13C2688	29.12
TM-300-50	300	04M7562	29.12
TM-400-50	400	42M3853	29.12
TM-500-50	500	13C2687	29.12
TM-600-50	600	04M6932	29.12
TM-800-50	800	42M3856	44.72
TM-1000-50	1000	91B7456	44.72
TM-1200-50	1200	42M3847	44.72

(80397)

EXTERNAL PORTABLE AND SWITCHBOARD SHUNTS



Switchboard Shunts



Portable Shunts

Use with analog or digital DC ammeter panel or switchboard meters requiring external shunts. Available in 50mV or 100mV drop. Accuracy: ±1%. 5' leads included.

50mV SWITCHBOARD SHUNTS

Mfg. Part No.	Amps	Stock No.	Price Each
06504	200	55F2572	59.65
06506	300	55F2573	59.65
06508	500	98F6076	84.88

50mV PORTABLE SHUNTS

06700	1	12C2429	55.59
06703	5	12C2431	55.59
06704	10	12C2432	55.59
06705	15	12C2435	55.59
06707	25	12C2437	55.59
06709	50	12C2438	55.59
06711	75	55F267	55.59
06713	100	55F2569	55.59
06715	200	55F2570	55.59

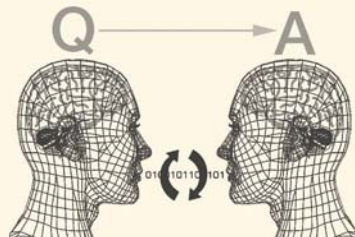
100mV PORTABLE SHUNTS

06716	10	90B8694	60.54
06717	100	94F8780	77.82

(3466)

Expert technical support

Chat online to our team of engineers, or connect to them through your representative.



(116878)

▶ CONTINUED ▶

OPERATOR INTERFACES

HMI OPERATOR INTERFACES



OPERATOR INTERFACES



5.7", 5.7" with CC click

- True analog touchscreen
- Retentive internal data storage
- Real time trending
- Trend stored data
- Alarming and alarm storage

Real time operating system. 32-bit RISC micro-controller/206.4MHz. Positioned between ELC graphics panels and the ePro series of operator interfaces, HMI is the work horse of the industry. All units feature a touchscreen and function keys to suit all environments and applications. Range in screen size and color to fit available space and application needs. All units offer RS-232, RS-485 and RS-422 communications. Additional features include event storage (history), add I/O, macro programming, multi-language, recipe storage, auto-scale application from 10 to 4", on-line simulation, off-line simulation, 10-level password protection, 3V lithium backup battery CR2032 x 1 (5-year battery life) and 85dB buzzer. HMI programming software supports all of the features of HMI and can run on Windows 2000 and XP. This software is not included with the HMI Operator Interface; order separately below.

SPECIFICATIONS

Model	HMI04BU	HMI06BE	HMI06GE	HMI06CE	HMI08CE	HMI10CE
NOR Flash ROM	2MB System: 1MB User: 1MB	4MB System: 1MB User: 3MB		8MB System: 1MB User: 7MB		
SDRAM	4MB	16MB		32MB		
Backup Memory	128KB	512KB		512KB	512KB	
Ext. Memory (SM Card)	...	✓	✓	✓	✓	✓
Ext. Memory (USB Disk)	✓	...	...	...	✓	✓
Extension Interface	...	✓	✓	✓	✓	✓
USB for Data Transfer/Printer (USB Host)	✓	...	...	...	✓	✓
Function Key		User Defined Key x 4		User Defined Key x 7	User Defined Key x 8	
Perpetual Calendar (RTC)		Built-in				
Safety Approval (Waterproof for Front Panel)		IP45 / NEMA 4X / CE, UL				
Dimensions (H x W x D)	4.13 x 5.54 x 1.76"	5.67 x 7.25 x 1.85"		7.01 x 9.57 x 2.06"	8.74 x 11.70 x 2.01"	

Mfg. Part No.	Description	Stock No.	Price Each	
			1-2	3-5
HMI04BU	4" Blue Mode Touchscreen, 3.8" STN LCD (16 Blue)	40M7610	486.40	
HMI06BE	6" Blue Mode with Expansion Slot, 5.7" STN LCD (16 Blue)	40M7611	684.00	
HMI06GE	6" Gray Scale Mode with Expansion Slot, 5.7" FSTN LCD (16 Grays)	40M7613	722.00	
HMI06CE	6" Color Mode with Expansion Slot, 5.7" STN LCD (256 Colors)	40M7612	1056.40	
HMI08CE	8" Color Mode with Expansion Slot, 8" TFT LCD (65,536 Colors)	40M7614	1900.00	
HMI10CE	10" Color Mode with Expansion Slot, 10.4" TFT LCD (65,536 Colors)	40M7615	2728.40	

ACCESSORY

Mfg. Part No.	Description	Stock No.	Price Each	
			1-2	3-5
HMI0SOFT	HMI Programming Software	46M5638	300.30	

(92294)

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(116881)



12.1", 10.4"



4.6"

- Models available: HG1F: 4.6" STN LCD screen, 1MB of memory; HG2F: 5.7" STN LCD screen, 2MB of memory; HG3F: 10.4" TFT LCD screen, 8MB of memory; HG4F: 12.1" TFT LCD screen 8MB of memory
- Communication drivers supported (included with software): Allen Bradley Ethernet/IP driver (new); Modbus TCP/IP (new); IDEC, Allen Bradley DF1/DH485, Omron, Mitsubishi, Siemens, Modbus-RTU, Keyence, GE Fanuc, Aromat, Automation Direct and many more
- Supports RS232, RS485, or RS422 communication
- Supports compact flash card (5.7" and above)
- Ethernet port: HG3F (10.4" screen) and HG4F (12.1" screen) only
- Real time clock
- Recipe, alarm and trend logging capability
- O/I link support (multi-drop up to 15 O/Is)
- 1-N PLC communication
- Pass thru programming
- Printer / barcode reader support
- Programmable with WindO/I-NV2 Software (included over 5000 built-in symbol factory images)
- Class 1 Div 2 (for Hazardous Locations)
- HG1F/HG2F: NEMA 13, IP65
- HG3F/4F: IP66, NEMA 4, 4X, 13

IDEC touchscreens create an efficient interaction between the user and the equipment. All touchscreens come with high pixel resolution and super bright LCD display for sharp quality images. The 10.4" and 12.1" TFT LCD color screens have Web Server function and an Ethernet port to allow for remote programming, monitor, and control over the Ethernet network. User can monitor application right from the office. The 5.7" STN LCD screens are available in monochrome or color and also come with IDEC's patented CC Click technology, providing tactile feedback. The entire touchscreen family works with all of IDEC's PLCs, and drivers are available to make them compatible with PLCs from other manufacturers.

OPERATOR INTERFACES

Mfg. Part No.	Description	Stock No.	Price Each	
			1-2	3-5
HG4F-JT22TFW	12.1" TFT LCD Touchscreen, 256 Color, Light Gray Bezel	08J5069	2532.43	2445.10
HG4F-JT22TFW-DH485-500	12.1" TFT LCD Touchscreen with DF1/DH485 converter/cable package for SLC500 (w/RJ45 connector), Light Gray Bezel	81H5061	2684.68	2592.10
HG3F-FT22TFW	10.4" TFT LCD Touchscreen, 256 Color, Light Gray Bezel	08J5067	2024.93	1955.10
HG3F-FT22TFB	10.4" TFT LCD Touchscreen, 256 Color, Black Bezel	82K8314	2122.68	2066.82
HG3F-FT22TFW-DH485-500	10.4" TFT LCD Touchscreen with DF1/DH485 converter/cable package for SLC500 (w/RJ45 connector), Light Gray Bezel	08J5068	2177.18	2102.10
HG2F-SS22VCF	5.7" STN LCD Touchscreen, 256 Color, Light Gray Bezel	82K8311	1058.68	1030.82
HG2F-SB22VCF	5.7" STN LCD Touchscreen, Monochrome, Light Gray Bezel	92C3143	705.43	681.10
HG2F-SS22VCF-DH485-500	5.7" STN LCD Touchscreen with DF1/DH485 converter/cable package for SLC500 (w/RJ45 connector), 256 Color, Light Gray Bezel	82K8312	1218.28	1186.22
HG2F-SB22VCF-DH485-500	5.7" STN LCD Touchscreen with DF1/DH485 converter/cable package for SLC500 (w/RJ45 connector), Monochrome, Light Gray Bezel	08J5063	857.68	828.10
HG2F-SS52VCF	5.7" STN LCD Touchscreen w/ CC, Click Tactile Touchbutton, 256 Color, Light gray bezel	82K8313	1111.88	1082.62
HG2F-SB52VCF	5.7" STN LCD Touchscreen w/ CC Click Tactile Touchbutton, Monochrome, Light Gray Bezel	08J5064	756.18	730.10

➤ CONTINUED ➤

OPERATOR INTERFACES

OPERATOR INTERFACES (CONT.)

Mfg. Part No.	Description	Stock No.	Price Each	
			1-2	3-5
● HG1F-SB22BF-B4.6"	4.6" STN Monochrome Touchscreen, Black Bezel, RS232, 500cd/m ²	46M3454	332.25	322.48
● HG1F-SB22BF-W4.6"	4.6" STN Monochrome Touchscreen, White Bezel, RS232, 500cd/m ²	46M3456	332.25	322.48
● HG1F-SB22YF-B4.6"	4.6" STN Monochrome Touchscreen, Black Bezel, RS485/422, 500cd/m ²	46M3457	332.25	322.48
● HG1F-SB22YF-W4.6"	4.6" STN Monochrome Touchscreen, White Bezel, RS485/422, 500cd/m ²	46M3459	332.25	322.48

SOFTWARE

● HG9Y-ZSS2W	WindO/I-NV2 Configuration software for HG4F/3F/2F/1F Series O/Is	29H2810	177.63	171.50
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CABLES

● HG9Z-XCM1A	Programming cable for all Touchscreen	15C7023	26.43	25.55
● FC4A-KC2CA	Cable between Microsmart Series and HG2F/3F/4F, RS232 Comm. Type using Microsmart built-in port or FC4A-PC1/HPC1(comm. Adaptor), 5ft.	08J5058	34.30	32.55
● HG9Z-3C115A	Cable between Microsmart Series and HG2F/3F/4F, RS485 Comm. Type using Microsmarts' FC4A-PC2/HPC2 (comm. adaptor), 5ft.	92C3150	34.83	33.08
● HG9Z-2C145A	Cable between Microsmart Series and HG2F/3F/4F, RS485 Comm. Type using Microsmarts' FC4A-PC3/HPC3 (comm. adaptor), 5ft.	92C3147	34.83	33.08
● HG9Z-2C135A	Cable between AB-Micrologix series and HG2F/3F/4F - 5 ft	08J5070	25.38	24.50

ACCESSORIES

● HG9Z-2B1	Replacement backlight for HG2F	92C3146	81.90	79.28
● HG9Z-2D2	Protective sheet for HG2F (5 pack)	92C3148	38.22	37.00
● HG9Z-2K1	Mounting clip for HG2F (10 pack)	92C3149	4.33	4.19

(72440)

OPERATOR INTERFACES AND SOFTWARE



Features:

- Assign multiple actions to all keys
- Screen password protection
- Programmable LEDs for on/off status
- Serial port for printing screens and alarms
- Import bitmap capability (8-line display only)

Specifications:

- 2-line, 16 character display, 24KB memory
- 4-line 20 character display, 24KB memory
- 8-line, 20 character display, 64KB memory

The **HG1X series** is a simple text interface. All models are highly-flexible, compact units featuring bright, backlit LCD screens, ideal for interfacing with PLCs that lack integrated displays. The function keys are user-definable for coil, register, screen or alarm operations. The **HG1X series** is compatible with all IDEC PLCs, including the new MicroSmart series, as well as several other major manufacturers' controllers. Some **HG1X** displays do not require an external power supply because the unit draws power from PLC support. Units have a serial port for printing screens and alarms. Panel cutout is 44.18 x 91.20mm for **mfg. part no. HG1X-252** and 78.5 x 160.7mm for **mfg. part no. HG1X-452**. Class 1 Div.2 (UL 1604), UL508, IP65

OPERATOR INTERFACES

Mfg. Part No.	Description	Stock No.	Price Each		
			1-4	5-9	10-14
● HG1X-252	2-line, 16 Character Display, RS232 comm type, No external power required	74K3737	168.07	162.50	156.94
● HG1X-222	2-line, 16 Character Display, RS232/RS485 comm type, 24VDC Power Required	26M8274	210.35	203.38	196.42
● HG1X-452	4-line, 20 Character Display, RS232 comm type, No external power required	74K3738	273.77	264.70	255.64
● HG1X-422	4-line, 20 Character Display, RS232/RS485 comm type, 24VDC Power Required	26M8275	316.05	305.58	295.12
● HG1X-822	8-line, 20 Character Display, RS232/RS484 comm type, 24VDC Power Required	86H7630	379.47	366.90	354.34

SOFTWARE

● WINDMSG	Programming Software for all HG1X Series (PLC drivers included)	92C3213	52.85	51.10	49.35
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CABLES

● HG9Z-PC125A	Programming Cable for all HG1X Series	84C2741	26.43	25.55	24.68
● HG9Z-SCI25B	Cable between HG1X-252/452 and Micro3C/ONC/Microsmart PLC (RS232 type)	84C2743	26.43	25.55	24.68
● HG9Z-SCI200	Cable between HG1X-222/422/822 and Micro3C/ONC/Microsmart PLC (RS232 type)	82K8922	26.43	25.55	24.68

(72455)

OPTOTERM™-G70 OPERATOR INTERFACE



OPTO 22



- 10 Mbps Ethernet Connectivity
- Meets NEMA-4 Specification When Mounted Properly
- 320 x 240 Pixel Color Touch Screen
- Object-Based Screen Builder Software
- Low-Cost, Compact, and Durable
- Ideal for Plant Floor and Remote Locations

Opto Terminal™ Operator Interfaces

Ethernet-enabled, color graphics-based operator interfaces for use with Opto 22 SNAP Ethernet I/O™, SNAP Ultimate I/O™ and SNAP-IT™ systems. The mountable display terminals are used to send commands to and receive realtime data from plant floor equipment and other devices connected to Opto 22 hardware. Industrially hardened Opto Terminals offer low-cost, compact and durable operator interfaces for the plant floor and remote locations. Ideal for factory automation, discrete manufacturing and equipment monitoring applications.

Mfg. Part No.	Description	Stock No.	Price Each
OPTOTERMAL-G70	Touchscreen Operator Interface, 5.7in. (145mm) Diagonal Display	84C9370	1293.50
OPTOTERMAL-G75	Ethernet-enabled Operator Interface w/ Object-based Programming, 10.4 in (264mm) diag. Display	09J4540	2528.50

(74821)

GT SERIES TOUCHSCREENS



Panasonic Electric Works Corporation of America

Just Added



- Improved visibility and operability, quick response
- 3 color LED backlights, check your HMI status at-a-glance
- High-flexibility screen design
- 3 to 5.7 inch screens

The response speed of programmable displays largely depends on the communication speed of the controller, such as a PLC; as well as that of the displays themselves. GT series displays support high-speed communications of up to 115.2 kbps.

Mfg. Part No.	LCD Display	Power Supply	Communicator Port	Backlight	Stock No.	Price 1-2
● AIGT0030B1	3" STN monochrome	5 VDC	RS442 (RS485)	Green, Orange, Red	73H0867	201.99
● AIGT0030B	3" STN monochrome	24 VDC	RS232C	Green, Orange, Red	73K7129	233.45
● AIGT2032B	4" STN monochrome	24 VDC	RS442 (RS485)	Green, Orange, Red	73K7134	421.23
● AIG05M002D	3.5" STN monochrome	24 VDC	RS232C	White, Red, Pink	08N3193	299.43
● AIG05G002D	3.5" STN monochrome	24 VDC	RS232C	Green, Orange, Red	08N3192	299.43
● AIG05S002D	3.5" STN 4096 colors	24 VDC	RS442 (RS485)	4096 Colors	08N3194	436.45
● AIGT2230B	4.7" STN 256 colors	24 VDC	RS442 (RS485)	256 Colors	73K7136	506.49
● AIG32M002D	5.7" STN monochrome	24 VDC	RS232C	Blue, White	08N3195	426.30
● AIG32T002D	5.5" TFT 4096 colors	24 VDC	RS232C	4096 colors	08N3196	761.25
● AIG32T012D	5.5" TFT 4096 colors	24 VDC	RS232C	4096 colors	08N3197	954.10

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price 1-2
● AIGT8001V2	Programmable Logic Controller;	96H1390	157.33
● USB2.0-AB06	Programmable Logic Controller;	97M9855	25.20

(115550)

CONTROLLERS – PROCESS • CONTROLLERS – TEMPERATURE

PID TEMPERATURE CONTROLLERS



Durant



E45481010



E45241010

The **E4548** and **E4524** series have a 0.4" 4-digit LED display. Feature fuzzy logic PID control with Autotuning and On/Off control. °F or °C indication. Heat/cool outputs with fail-safe, sensor break protection, ramp with dwell or soak timer for soft start, and programming security. Feature 1 control output as relay, SSR, or 4-20mA, and 1 alarm output with 14 operating modes. Universal power: **E4548 series** 90-240VAC; **E4524 series** 90-264VAC. **E4548 series** is 1/16 DIN (48 x 48mm). Size: 1.77H x 1.77W x 3.70"D. Accepts thermocouple input, types J, K, T, E, B, R, S and N (switch selectable). **E4524 series** is 1/2 DIN (24 x 48mm). Size: 0.94H x 1.89W x 3.78"D. Front panel meets NEMA enclosure type 4 and IEC IP65 enclosure classification.

Mfg. Part No.	Description	Stock No.	Price Each	
			1-4	1-2
E45481010	Thermocouple Input, Relay and Alarm Output	15C6900	287.26	
E45482010	Thermocouple Input, SSR and Alarm Output	15C6904	287.26	

(6628)

1/16 DIN ISERIES PID CONTROLLERS



The **iSeries** autotune PID controllers feature universal inputs for thermocouples (K, J, T, E, R, S, B, C, N & J DIN) RTDs: 100-, 500-, and 1000-ohm with 2-, 3-, and 4-wire connections, plus totally scalable process voltage 0-100mV, 0-1V, 0-10V ranges. Process current: 0-20mA. Features the innovative **iSeries** display that can be programmed to change between green, amber and red at any set or alarm point. Options include a 2nd display for setpoint, RS-232 & RS-485, Ethernet, and low-voltage power supply.



Mfg. Part No.	Description	Stock No.	Price Each	
			1-2	1-4
I1622	PID Controller, 2 SSR's (0.5A)	96B0158	254.25	
I1633	PID Controller, 2 SPDT Relays (3A)	96B0159	254.25	
I1653-C24	PID Controller, Analog, Relay, RS232 & RS485 Serial Comm. Outputs	96B0162	322.05	

(51575)

1/32 DIN ISERIES PID CONTROLLERS



Feature a color display that can be programmed to change between green, amber and red at any set- or alarm point. Offer a universal input for 10 thermocouples (K, J, T, E, R, S, B, C, N & J DIN), plus 100-, 500- and 1000-ohm RTD's with 2-, 3- and 4-wire connections for the most accurate RTD measurements. Features totally scalable process voltage 0-100mV, 0-1V, 0-10V ranges, and process current 0-20mA. Feature autotune PID control with a choice of dual-form C SPDT relays, SSR's, DC pulse and analog voltage or current. The universal power supply runs on 90-240VAC/DC. Low voltage power input of 12-36VDC and 24VAC is optional. Features built-in 24VDC@25mA excitation, standard, offering optional RS-232 and RS-485 serial communications.



Mfg. Part No.	Description	Stock No.	Price Each	
			1-2	1-4
I3200	Temperature/Process (Monitor Only) 1/32 DIN	25C3530	177.00	
I3233	PID Controller, 2 SPDT Relays	96B0165	230.10	
I3244	PID Controller, 2 DC Pulse Outputs	96B0166	230.10	
I3253	PID Controller, 1 Analog Out, 1 SPDT Relay	96B0167	230.10	
I3253-C24	PID Controller, RS232 and RS485 Serial Comm.	96B0168	290.70	

(51977)

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(116880)

1/8 DIN SIZE METER/PID CONTROLLERS



The **iSeries** color display can be programmed to change between green, amber and red at any set or alarm point. Display features LEDs twice the size of typical 1/8 DIN meters for easier viewing. Contains a universal input for 10 thermocouples (K, J, T, E, R, S, B, C, N and J DIN), plus 100-, 500-, and 1000-ohm RTD's with 2-, 3-, and 4-wire connections for the most accurate RTD measurements. Totally scalable process voltage of 0-100mV, 0-1V, 0-10V ranges and process current of 0-20mA. Includes built-in 24VDC excitation, standard and optional RS-232 and RS-485 serial communications, and Ethernet output. Offers on/off or full autotune PID control with the optional outputs: relays, SSR's, DC pulse and analog. The universal power supply runs on 90-240VAC/DC. Low-voltage 12-36VDC and 24VAC is optional.



STANDARD VERSION - 48H x 96W x 104.1mML

Mfg. Part No.	Description	Stock No.	Price Each	
			1-2	1-4
I800	Temperature/Process Monitor	96B0170	271.20	
I833	PID Controller, 2 SPDT 3A Relays	96B0172	350.30	
I853-C24	PID Controller, Analog Output, Relay, RS232 and RS485 Serial Communications	96B0175	418.10	

ULTRA COMPACT VERSION - 48H x 96W x 54.84mML

Mfg. Part No.	Description	Stock No.	Price Each
I8C00	Monitor 1/8 DIN Short Case	31C0999	327.75

(51573)

1/16 DIN TEMPERATURE CONTROLLER



- Automatic Adjustment and PID Control in a 48x48mm Package
- Control Accuracy to ±1% of Full Scale
- Selectable Temperature Ranges in °C or °F
- Easy-to-read 13.4mm-High LED Display
- Models for Thermocouple Types J/L and K Inputs and Platinum RTD Inputs
- PID and On/Off Control Modes
- Wide Power Supply Range: 100 to 240VAC, 50/60Hz
- Tamper-proof Setting, Faulty Sensor Detection and Controller Diagnostics



ES6S

Versatile, low-cost controllers have °F/°C scales. Voltage output is rated 12VDC, 20mA with short-circuit protection. Relay output is rated 3A, 250VAC. Accepts J/L, K thermocouples, auto-tuning of P band. Accurate to ±0.5% of full scale. Eight-function alarm output (SPST-NO relay, 1A, 250VAC). Rated IP50 (NEMA 4 with optional cover *go online or call*). **ES6S**: 1.89H x 1.89W x 4.17"D (48 x 48 x 106mm). SPDT relay output, 7VA power consumption. **ES6SV**: 1.89H x 1.89W x 3.07"D (48 x 48 x 78mm). SPST-NO relay output, 5VA power consumption. Panel mounting adapter is supplied. UL recognized, CSA certified.

Mfg. Part No.	Output	Input Type	Stock No.	Price Each	
				1-2	3-4
● ES6SVQ1TFAC100240	Voltage	Thermocouple / Platinum RTD	17M6596	263.06	233.42
● ES6SVR1TFAC100240	Relay	Thermocouple / Platinum RTD	80K1834	242.82	215.46

(2446)

E5AN SERIES DIGITAL TEMPERATURE CONTROLLERS



Dual-display 1/8 DIN controllers provide accurate control with only 3.07"(78) panel depth. Accept a wide variety of inputs and feature 3 alarm points and heater burnout alarm. UL approved, CSA listed and CE compliant. NEMA 4X rated.



E5AN SERIES 1/8 DIN DUAL-DISPLAY TEMPERATURE CONTROLLERS

Mfg. Part No.	Output	Voltage	Stock No.	Price Each	
				1-5	6-14
E5ANQ3HMT500ACDC24	Voltage/SSR	24VAC/VDC	27K4604	326.33	305.46
E5AN-R3HMT-C-500 AC/DC24	Voltage/SSR	100-240VAC	19C7912	295.29	276.41

(60977)

CONTROLLERS – TEMPERATURE

E5EN SERIES DIGITAL TEMPERATURE CONTROLLERS

The E5EN series 1/2 DIN has various temperature inputs, auto-tuning and self-tuning available, heat or heat/cool control available. Event input option allows multiple SP selection and run/stop function. NEMA 4X front face, UL recognized, CSA certified, CE compliant. Other DC voltage types available; go online or call.



E5EN



KT SERIES TEMPERATURE CONTROLLERS



Panasonic

Panasonic Electric Works Corporation of America



E5EN SERIES 1/2 DIN DIGITAL TEMPERATURE CONTROLLERS

Mfg. Part No.	Output	Voltage	Stock No.	Price Each	
				1-9	10-24
E5EN-Q3HMC-500 AC100-240	3 Alarm, Heater Burnout, Voltage	100/240VAC	96B0109	235.16	223.47
E5EN-C3MTC-500 AC100-240	3 Alarm, Current	100/240VAC	96B0107	257.21	244.42
E5EN-R3MTC-500 AC/DC24	3 Alarm, Relay	24VAC/VDC	96B0114	214.16	203.51
E5EN-R3HMC-500 AC/DC24	3 Alarm, Heater Burnout, Relay	24VAC/VDC	96B0113	235.16	223.47

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E5GN SERIES DIGITAL TEMPERATURE CONTROL



- 1/2 Size DIN Controller
- 100mm Deep for Minimized Panel Space
- Accepts Thermocouple, Platinum RTD, Non-contact Temperature Sensor, and Analog Temperature Inputs
- Auto-tuning and Self-tuning Available; Functions can be used Simultaneously
- Heating or Heating/Cooling Control
- Water-resistant Construction (NEMA 4X, Equivalent to IP66)
- 3-Year Warranty



1/2 DIN controller features selectable auto-tune or self-tune available, on/off or PID. Accepts various temperature and analog inputs. NEMA4X front panel. UL listed, CSA certified, CE compliant.

STANDARD TEMPERATURE CONTROLLERS

Mfg. Part No.	Output	Power Supply Voltage	Stock No.	Price Each	
				1-9	10-24
● E5GN-R1TC-AC100240	Relay	100-240VAC	93B8747	211.93	201.90
● E5GN-Q1TC AC100-240	Voltage	100-240VAC	08C3670	211.93	201.90
● E5GN-R1TC AC/DC24	Relay	24VDC	18M7334	229.59	218.72
● E5GN-Q1TC AC/DC24	Voltage	24VDC	12C1052	229.59	218.72

TEMPERATURE CONTROLLERS WITH COMMUNICATIONS

● E5GN-R03TC-FLK AC100-240	Relay	100-240VAC	12C1059	229.37	218.51
● E5GN-Q03TC-FLK AC/DC24	Voltage	24VDC	12C1048	229.37	218.51
● E5GN-Q03TC-FLK AC100-240	Voltage	100-240VAC	12C1049	229.37	218.51

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Features

- Control modes: PID, on/off control, Anti-Reset-Windup (ARW)
- Control output: Relay, non-contact voltage output (for SSR drive, DC current output)
- Accuracy: ± 0.2% span
- Simple operation
- Heater-burn-out alarm available
- Alarm output with 9 different operation modes
- RS485 ASCII/Modbus communication available
- Supply voltage: 24V AC/DC or 100 to 240V AC
- Compliant with UL, CSA standards and CE marking

Multi-input:

- Thermocouples K, J, R, S, B, E, T, N, PL-II, C(W/Re5-26)
- RTD Pt100, JPt100, 3-conductor system
- DC Current ¼ - 20mA
- DC Voltage 0 to 1V, 0 to 5V, 1 to 5V, 0 to 10V

The KT line of controllers is well suited for a wide variety of machine and process control applications.

Mfg. Part No.	Output Type	Alarm 1 Output	Alarm 2 Output	Operating Voltage	Stock No.	Price Each
● AKT2111200	Relay	Relay	Open Collector	100-120 VAC	73K7161	185.56
● AKT4111100	Relay	Relay	...	100-120 VAC	96H1434	131.93
● AKT4H111100	Relay	Relay	...	100-120 VAC	73K7183	179.62
● AKT7111100	Relay	Open Collector	...	100-120 VAC	96H1537	141.90
● AKT7211100	Relay	Open Collector	...	24 VDC	83H6394	141.90

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
● AKT4801	Terminal Cover for KT4 Series	96H1534	5.08

(115546)

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(116864)

CONTROLLERS – TEMPERATURE • COUNTERS – LARGE DISPLAY

TEMPERATURE CONTROLLERS



Model TCU



Model T16



Model T48

Can operate in the PID control mode for both heating and cooling, with on-demand auto-tune or ON/OFF control mode with adjustable hysteresis. CE compliant, UL recognized.

RANGE AND ACCURACY FOR MODEL TCU TEMPERATURE CONTROLLERS

TC Type	Range	Accuracy	Wire Color (ANSI)
T	-200°C to +400°C -328°F to +752°F	0.20% + 1.5°C 0.20% + 2.7°F	Blue
E	-200°C to +750°C -328 °F to +1382°F	0.20% + 1.5°C 0.20% + 2.7°F	Violet
J	-200°C to +760°C -328°F to +1400°F	0.15% + 1.5°C 0.15% + 2.7°F	White
K	-200°C to +1250°C -328°F to +2282°F	0.20% + 1.5°C 0.20% + 2.7°F	Yellow
R	0°C to +1768°C +32°F to +3214°F	0.15% + 2.5°C 0.15% + 4.5°F	Black
S	0°C to +1768°C +32°F to +3214°F	0.15% + 2.5°C 0.15% + 4.5°F	Black
B	+200°C to +1820°C +300°F to +3308°F	0.15% + 2.5°C 0.15% + 4.5°F	Grey
N	-200°C to +1300°C -328°F to +2372°F	0.20% + 1.5°C 0.20% + 2.5°F	Orange
mV	-5.00 to 56.00	0.15% + 1 LSD	...
RTD (385)	-200°C to +600°C -328°F to +1100°F	0.10% + 0.5°C 0.10% + 0.9°F	...
RTD (392)	-200°C to +600°C -328°F to +1100°F	0.10% + 0.5°C 0.10% + 0.9°F	...
OHMS	1.0 to 320.0	0.15% + 1 LSD	...

MODEL TCU TEMPERATURE CONTROL UNITS

Programmable user input (digital) for added flexibility. Manual/automatic and local/remote setpoint control modes. Setpoint ramping for process startup. Optional RS485 serial communications interface as well as additional options available; go online or call.

Mfg. Part No.	Input Voltage	Input Type	Output Type	Alarms	Stock No.	Price Each
TCU0000	115/230VAC	Thermocouple or RTD	Voltage/SSR	...	84K7518	249.00
TCU01001	115/230VAC	Thermocouple or RTD	Voltage/SSR	...	84K7519	358.00
TCU10001	115/230VAC	Thermocouple or RTD	Voltage/SSR	2 Relay	84K7520	337.00
TCU10002	115/230VAC	Thermocouple or RTD	Voltage/SSR	Relay	84K7521	347.00

MODEL T16 TEMPERATURE/PROCESS CONTROLLERS

On demand auto-tuning. User programmable function button. Other options available; go online or call.

T1610000	85-250VAC	Thermocouple or RTD	Relay	...	84K7522	125.00
T1620000	85-250VAC	Thermocouple or RTD	Voltage/SSR	...	84K7523	125.00

MODEL T48 1/2 DIN TEMPERATURE CONTROLLERS

On demand auto-tuning. Setpoint ramping for process startup. Programmable user input (digital) for added flexibility. Other options available; go online or call.

T4810000	85-250VAC	Thermocouple or RTD	Relay	...	84K7524	197.00
T4820000	85-250VAC	Thermocouple or RTD	Voltage/SSR	...	84K7525	197.00
T4821000*	85-250VAC	Thermocouple or RTD	Voltage/SSR	Relay	84K7526	223.00
T4821100*†	85-250VAC	Thermocouple or RTD	Voltage/SSR	2 Relay	84K7527	238.00

*With NEMA 4X/P65 bezel.
†With cooling output.
(88725)

EPAX, LPAX AND MPAX LARGE DISPLAYS



EPAX AND LPAX DISPLAYS

Versatile displays that can increase productivity by offering the plant floor or production area a large visual display of their status. Supply voltage: 85-250VAC. 5-digit displays accept various analog inputs through the use of input modules (MPAX) which allow the unit to adapt to almost any application. 6-digit displays accept various digital inputs through the use of input modules (MPAX) which allow the unit to adapt to almost any application. NEMA 4X/IP65 casing. Additional plug-in cards; ordered separately below, can add alarms, analog output and communications/bus capabilities.

Mfg. Part No.	No. of Digits	Digit Height	Readable Distance (ft.)	Stock No.	Price Each
EPAX0500	5	4	180	84K7449	485.00
EPAX0600	6	4	180	84K7450	519.00
LPAX0500	5	1.5	70	84K7465	260.00
LPAX0600	6	1.5	70	84K7466	290.00
LPAXCK00	6	1.5	70	84K7464	290.00

MPAX INPUT MODULES

Serve as the input to the EPAX or LPAX display. There are several different modules to cover a variety of inputs. The MPAX module provides input scaling which allows the EPAX and LPAX to display most any engineering unit. Once the MPAX is inserted into the EPAX or LPAX, the unit has the same functions and capabilities of the PAX Series intelligent panel meters. A full set of PAX programming instructions are included with the MPAX module. NOTE: The MPAX provides the operating power for the EPAX or LPAX display.

MPAX MODULES INPUT RANGES

Signal Type	Input Ranges
Universal DC Inputs	DC Voltage: 200mV, 2V, 20V, 300V DC Current: 200µA, 2mA, 20mA, 200mA, 2A Resistance: 100Ω, 1000Ω, 10KΩ
Process Inputs	0-20mA or 0-10VDC
Temperature Inputs	Thermocouples: T, E, J, K, R, S, B, N, C, or Custom Scaling RTDs: 100Ω Pt (platinum) 385/392, 120Ω Nickel 672, or 10Ω Copper 427
True RMS AC Voltage/Current	AC Voltage: 200mV, 2V, 20V, 300V AC Current: 200µA, 2mA, 20mA, 200mA, 5A

MPAX MODULES FOR EPAX AND LPAX 5-DIGIT DISPLAYS (ANALOG UNITS)

Mfg. Part No.	Signal Type	For Use With Display		Stock No.	Price Each
		EPAX	LPAX		
MPAXD000	Universal DC Inputs	EPAX0500	LPAX0500	84K7470	221.00
MPAXP000	Process Inputs	EPAX0500	LPAX0500	84K7473	211.00
MPAXT000	Temperature Inputs	EPAX0500	LPAX0500	84K7476	211.00
MPAXH000	True RMS AC Voltage/Current	EPAX0500	LPAX0500	84K7471	286.00

MPAX MODULES FOR EPAX AND LPAX 6-DIGIT DISPLAYS (DIGITAL UNITS)

MPAXI000	Count/Rate/Serial Slave	EPAX0600	LPAX0600	84K7472	233.00
MPAXC000	Count	EPAX0600	LPAX0600	84K7469	180.00
MPAXR000	Rate	EPAX0600	LPAX0600	84K7474	180.00
MPAXCK00	Clock/Timer	EPAX0600	LPAXCK00	84K7468	180.00
MPAXTM00	Timer	EPAX0600	LPAXCK00	84K7475	138.00

OPTIONAL PLUG-IN CARDS

Mfg. Part No.	Description	Stock No.	Price Each
PAXCDS10	Dual Setpoint Relay Output Card	84K7483	37.00
PAXCDS20	Quad Setpoint Relay Output Card	84K7484	48.00
PAXCDS40	Quad Setpoint Sourcing Open Collector Output Card	84K7485	37.00
PAXCDC10	RS485 Serial Communications Output Card with Terminal Block	84K7477	48.00
PAXCDC20	RS232 Serial Communications Output Card with Terminal Block	84K7478	48.00
PAXCDC30	DeviceNet Communications Card	84K7479	116.00
PAXCDC40	Modbus Communications Card	84K7480	58.00
PAXCDC50	Profibus-DP Communications Card	84K7481	143.00
PAXCDL10	Analog Output Card	84K7482	74.00

(88706)

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(116883)

COUNTERS – LARGE DISPLAY • COUNTERS – MINI

LD LARGE DISPLAYS AND TIMER AND CYCLE COUNTERS



- 2.25" or 4" high red LED digits
- Readable up to 130ft (2.25" high models) or 180ft (4" high models)
- Supply voltage: 85-250VAC/11-16VDC
- Constructed of NEMA 4 enclosure in lightweight aluminum



LARGE DISPLAYS

Versatile displays that can be configured as a single or dual counter with rate indication, scaling, serial communications and a relay output. The 6-digit programmable model has two signal inputs and a choice of eight different count modes including bi-directional, quadrature and anticoincidence counting as well as a dual counter mode. When programmed as a dual counter, each counter has separate scaling and decimal point selection. The meter display can be toggled either manually or automatically between the count and rate values. Programmable models come with 5A SPDT relay output and jumper selectable RS232 or RS485 communications.

Mfg. Part No.	Function	Output Signal	No. of Digits	Digit Height (in.)	Stock No.	Price Each
LD200400	Counter	...	4	2.25	84K7457	345.00
LD200600	Counter	...	6	2.25	84K7459	400.00
LD400400	Counter	...	4	4	84K7461	485.00
LD400600	Counter	...	6	4	84K7463	585.00
LD2006P0	Programmable Counter/Rate Indicator	Relay	4	2.25	84K7458	450.00
LD4006P0	Programmable Counter/Rate Indicator	Relay	6	4	84K7462	635.00

LARGE DISPLAY TIMER AND CYCLE COUNTERS

Versatile displays that function as an elapsed timer or preset timer, with full-featured programmability. Includes a built-in cycle counter, 5A SPDT relay output and serial communications capability, two signal inputs and eight input operating modes. These modes provide level active or edge triggered stop/start operation. The timer features 18 selectable timer ranges. Built-in cycle counter can be linked to timer operation to count timing cycles, or function as a totally independent counter, accepting count speeds up to 500Hz. The display can be toggled either manually or automatically between the timer and counter values. DIP switches are used to configure the inputs for current sinking (active low) or current sourcing (active high) operation. Setpoint output can be assigned to the timer or counter value, and configured to a variety of control and alarm requirements. The meter also includes jumper selectable RS232 or RS485 serial communications.

Mfg. Part No.	Function	Output Signal	No. of Digits	Digit Height (in.)	Stock No.	Price Each
LD2T06P0	Timer/Cycle Counter	Relay	6	2.25	84K7456	450.00
LD4T06P0	Timer/Cycle Counter	Relay	6	4	84K7460	635.00

TOTALIZING COUNTERS AND ELAPSED TIME INDICATORS



- DIN 24x48mm enclosure
- Remote or front-panel reset (can be disabled)
- Powered by lithium battery
- IP64 watertight seal on front panel



The 87610 Series accepts line voltage inputs.

Mfg. Part No.	Description	Inputs	Stock No.	Price Each	
				1-14	15-24
● 87610340	8-digit counter	Contact	17M8530	35.17	31.79
87610440	99999.9 hrs.	Contact	92F3718	35.17	31.79
● 87610050	8-digit counter	Voltage	17M8528	95.04	85.92
87610150	99999.9 hrs.	Voltage	92F3720	95.04	85.92

TOTALIZERS, ELAPSED TIMERS & COUNT/TIME CONTROLS



Totalizer/Elapsed Timer



Preset Counter

Model E4148793 is a 45 x 45mm single-level preset counter/timer with a 2-line LCD and a NEMA 4/IP65 front panel. Input power: 94-240VAC provides sensor excitation of 12VDC @ 100mA. Count speeds to 10kHz with scaling. The SPDT relay output is rated at 5A @ 250V resistive load. Size: 2.01H x 2.01W x 3.54"D. Model E4148792, is a 48 x 48mm dual-level preset counter that can be configured as a single preset counter with batch control output. Model E402400 is an 8-digit totalizer. The E40 series is capable of count speeds of up to 10kHz. The E42 series are solid-state hour meters that record and display up to 999,999.9 hours, roll over and continue timing.

➔ CONTINUED ➔

TOTALIZERS, ELAPSED TIMERS & COUNT/TIME CONTROLS (CONT.)

Mfg. Part No.	Description	Stock No.	Price Each
			1-4
E5-024-C0400	8-Digit Totalizer (Count Up)	53M4776	50.83
● E42DI2475H	Elapsed Timer (Hours and Min. or Hours and 1/100 of Hours)	16F8937	50.83

ACCESSORIES

● E40VOLT C	Voltage Adapter for Model E402400	16F8945	22.90
● E40VOLT T	Voltage Adapter for Model E4DI2475 5-240VAC/VDC	16F8946	22.90
● E40TERM	Provides Screw Terminal Connections for Conductors Up To 14 Gauge	91B6699	17.93

COMPACT COUNT/TIME/RPM TOTALIZERS



H7 series digital compact totalizers offer up, up/down, cumulative count, time, and rpm functions in self-powered (replaceable battery) or 100-240VDC supply voltage modes. Feature large easy-to-read displays, selectable input range and speeds. Color: black. Front meets NEMA enclosure type 4 and IEC enclosure IP66. All feature screw terminals for quick installation and a variety of inputs. UL recognized, CSA certified, CE compliant.

Mfg. Part No.	Description	Stock No.	Price Each	
			1-14	15-24
● H7EC-N-B	8-Digit Self-Powered, Totalizer, No-Voltage Input, Selectable Between 30cps or 1Kcps.	94B7609	59.85	57.12
● H7EC-NV-B	8-Digit Self-Powered, Totalizer, NPN/PNP DC Voltage Input, Selectable Between 30cps or 1Kcps.	94B2566	73.50	70.14
● H7EC-NV-BH	8-Digit Self-Powered, Totalizer, AC/DC Multi-Voltage Input, Max. Count Speed: 20Hz	93K7587	64.86	63.87
● H7EC-NV-BH	8-Digit LCD Backlit Display, Self-Powered Totalizer, PNP/NPN Universal DC Voltage Input, Selectable Count Speed: 30 Hz/KHz	88K1951	81.90	79.38
● H7ET-N-B	7-Digit Self-Powered, Time Totalizer, No Voltage Input, Selectable Between 999999.9h and 3999d23.9h	88K1111	81.90	79.38
● H7ET-NV-B	7-Digit Self-Powered, Time Totalizer, NPN/PNP DC Voltage Input, Selectable Between 999999.9h and 3999d23.9h	88K1953	85.41	82.79
● H7ET-NV-BH	7-Digit LCD Backlit Display, Self Powered Hour Meter, PNP/NPN Universal Voltage (DC) Input, Selectable Time Range 999999.9 and 3999d23.9h.	95B4029	76.65	73.15
● H7ER-NV1-B	7-Digit LCD Display, Self Powered Tachometer, PNP/NPN Universal Voltage (DC) Input. Selectable RPM Range 1000-10,000. Selectable RPS Range of 0- 1000 RPS.	08H0619	78.75	75.15
● H7ER-NV1-BH	7-Digit LCD Backlit Display, Self Powered Tachometer, PNP/NPN Universal Voltage (DC) Input. Selectable RPM Range 1000-10,000. Selectable RPS Range of 0-1000 RPS.	81C7942	80.04	76.38

COMPACT COUNT/TIME/RPM TOTALIZERS



- NEMA 4 Front Panel Protection
- Large, Easy-to-Read Displays
- Switch Between NPN and PNP Transistor Input
- High-Visibility Negative Transmissive LCD
- Both External and Manual Resets Provided



H7GP

Supply voltage: 100-240VAC. Power consumption: @100 to 240VAC: 6.5VA; @12 to 24VDC: 0.6W max. NEMA 4 front panel protection when used in conjunction with mfg. part no. Y92S-33 (for H7HP) and mfg. part no. Y92S-32 (for H7GP) rubber gasket. Panel mount adapter mfg. part nos. Y92F-33 (for H7HP) and Y92F-32 (for H7GP) also available; go online or call.

Mfg. Part No.	Description	Number of Digits	Case Color	Stock No.	Price Each
● H7GP-C	6-Digit Up Totalizing Counter	6	Gray	52F4175	170.30
● H7GP-CB	6-Digit Up Totalizing Counter	6	Black	38B691	170.30
● H7GP-T	6-Digit Time Totalizer	6	Gray	52F4176	147.43
● H7GP-TB	6-Digit Time Totalizer	6	Black	38B692	170.30
● H7HP-A	6-Digit Up/Down Count Totalizer or Time Totalizer	6	Gray	52F4177	198.52
● H7HPAB	6-Digit Up/Down Count Totalizer or Time Totalizer	6	Black	38B693	220.44

➔ CONTINUED ➔

COUNTERS – MINI

COMPACT COUNT/TIME/RPM TOTALIZERS (CONT.)

Mfg. Part No.	Description	Number of Digits	Case Color	Stock No.	Price Each
● H7HP-C8	8-Digit Up/Down Count Totalizer	8	Gray	52F4178	209.60
● H7HPC8B	8-Digit Count Totalizer	8	Black	38B694	232.74

(3023)

94 SERIES ELECTRONIC COUNTERS



9415-001



9415-003



9415-005

Battery-powered 6-digit LCD counters feature 6-240VAC or VDC inputs. Interchangeable with most electromechanical counters. Digits are 0.50" high. Base-mount unit dimensions in inches: 1.65(H) x 3.81(W) x 2.97(D). Panel mount unit dimensions in inches: 1.50(H) x 4.44(W) x 2.90(D). Rated 2400cpm with sensor input. Load resistor (1500 ohms, 10 watts) across input terminals required when using AC sensors. Weight: 1.1 lbs. Hour Meter versions also available, go online or call.

Mfg. Part No.	Mounting Type	Reset	Stock No.	Price Each	
				1-5	6-14
9415-001	Base	Manual	48M1363	163.69	156.49
9415-003	Panel	Manual	81F474	173.55	165.91
9415-005	Panel	Lock & Key	81F475	190.49	182.10

(2941)

5300 SERIES TOTALIZERS, HOURMETERS AND TACHOMETERS



Manual and Remote Reset



Remote Reset

Redington's model 53 digital electronic totalizers, hourmeters and tachometers use innovative technology to provide unparalleled accuracy and reliability over a wide range of applications. Positive locking mounting clip and compact size make it ideally suited for control panels, instrumentation assemblies, business machines or wherever space is a concern. Panel cutout 1.79" x 0.89". 7 figures, 0.32" high LCD display. Typical 20-yr. life with lithium battery. Termination: terminal block. Wire leads and 8-digit versions available, go online or call. Color: tan. Black versions available, go online or call. UL recognized, CSA certified and CE compliant.

TOTALIZERS

Mfg. Part No.	Input Type	Voltage	Reset	Stock No.	Price Each	
					1-14	15-24
● 5300-0000	0-40 and 0-150 cps	None (Switch)	Remote	48M1307	55.98	55.05
● 5300-1000	0-40 and 0-150 cps	3-30VDC	Remote	66F1114	55.98	55.05
● 5300-0100	0-40 and 0-150 cps	None (Switch)	Manual & Remote	66F1115	55.98	55.05
● 5300-1100	0-40 and 0-150 cps	3-30VDC	Manual & Remote	66F1116	55.98	55.05

20-250VAC/VDC TOTALIZER

● 5300-2000	0-40 cps	20-250VAC	Remote	48M1308	72.18	70.98
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HOURMETERS

Mfg. Part No.	Voltage	Reset	Stock No.	Price Each	
				1-14	15-24
● 5320-0000	None (Switch)	Remote	48M1309	63.65	62.29
● 5320-0100	None (Switch)	Manual & Remote	66F1120	63.77	62.41
● 5320-1000	3-30VDC	Remote	48M1310	49.05	48.24

20-250VAC/VDC HOURMETER

● 5320-2000	0-40 cps	20-250VDC	Remote	66F1111	63.63	62.57
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TACHOMETER

Mfg. Part No.	Input Type	Voltage	Reset	Stock No.	Price Each	
					1-14	15-24
● 5330-0000	10,000 cps (max.)	None (Switch)	Remote	66F1112	70.38	69.21

(2782)

TACHOMETERS AND RATE INDICATORS



A103 series tachometers provide readout of motor, machine shaft or other RPM. Rate indicators provide a readout of virtually any rate: gallons/minute, parts/hour, feet/minute, etc. LCD with backlighting capability. All units use an internal 3-volt single or dual battery. Magnetic input is capacitive coupled; 10kHz (50% duty cycle); 0.2V peak (28VDC max.). Fits 68 x 33 mm cutout. Input scale multipliers for rate (0.001 to 9,999) and total (0.0001 to 99,999.99). Weight: 2.25 oz. (64 g). Front panel is rated NEMA 4/IP65 for use in washdown environments. Order matching totalizing and preset counters and elapsed time indicators, and quick-action option modules separately on page 1919.

Mfg. Part No.	Description	Stock No.	Price Each
			1-5
A103-003	Tachometer	52F1235	99.92
A103-004	Programmable Rate Meter	52F1236	114.20
A103-005*	Rate Meter & Totalizer	52F1237	131.76

*Provides total count as well as rate.
(2846)

A-103 SERIES TOTALIZING, PRESET COUNTERS, TACHOMETERS, AND PRESET TIMERS



Eagle Signal brand

A103 series totalizing and preset counters are compact and cost-efficient. Features include a supertwist LCD with .47" (12mm) high digits and green illumination display backlight capability. 3-volt lithium battery eliminates need for external power. Accepts input signals from dry contact, PNP, or NPN sensors and encoders. High and low speed count inputs. Reset on front panel or remotely. Fits 68 x 33 mm cut-out. Front panel rated NEMA 4/IP65. Order quick-attach option modules separately on page 1919.

Mfg. Part No.	Description	Stock No.	Price Each
			1-5
A103-000	Totalizer	52F1232	86.75
A103-001	Add/Subtract Totalizer	52F1233	114.20
A103-002	Position Indicator	52F1234	114.20
A103-007	Preset Counter	52F1239	131.76

(2844)

VEEDER-ROOT BRAND MITE SERIES ELECTRONIC TOTALIZING COUNTERS, RATE INDICATORS, AND TIME METERS



Veeder-Root brand

MITE series 7mm high (8-digit) LCD displays feature compact overall size. Fit 45 x 22mm panel cut-out. Totalizers are powered by an internal lithium cell, and available in model 79998D-110 unidirectional and model 79998D-410 bidirectional models that are capable of count speeds to 10kHz. Model 79998D-410 bidirectional totalizer provides count/direction operation—one input receives count pulses, while a second input controls counting direction. Self-powered timer model 79998D-510 has timing ranges for seconds or minutes and seconds; model 79998D-610 has timing ranges for hours or hours and 1/100ths. Model 79998D-801 tachometer with totalizer function has selectable frequency or period modes and allows application with a variety of sensors including one-pulse-per-revolution pickups. All units rated NEMA-4/IP65. Order input adaptors separately below.

Mfg. Part No.	Description	Stock No.	Price Each
79998D-110	Totalizer-add	63K9812	53.22
079998D-510	Timer-seconds or minutes & seconds	27C4586	59.73
079998D-610	Timer-hours or hours and 100ths	27C7532	59.73
79998D 801	Tachometer/Totalizer	31C8766	72.77

SNAP-ON INPUT ADAPTORS

108938-0001	5-240VAC/VDC for totalizers	48F2261	21.18
108940-0001	5-240VAC/VDC for totalizers	48F2262	21.18
108937-0001	Screw terminal for MITE series 79998D models	48F2263	17.92

(2918)

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(116882)

COUNTERS – MINI • COUNTERS – 1/16 DIN

C342 SERIES LCD AND LED COUNTERS, TIMERS AND TACHOMETERS



Veeder-Root brand

DIN-sized family of count totalizing, elapsed-time totalizing, and speed meters with LCD or LED displays. Self-powered models contain long-life lithium battery. Externally powered models accept 12-24VDC power supply and nonvolatile RAM to provide data memory. Counters and timers have panel and remote reset. Display: 7mm-high, 8-digit LCD, or 7.6mm-high, 6-digit LED. Dimensions: 0.94H x 1.9W x 1.25"D (24 x 48 x 32). Operating temperature: -10°C to +50°C. Front panel meets IEC enclosure IP65 classification.

COUNT TOTALIZERS

Mfg. Part No.	Description	Display	Power Source	Stock No.	Price Each	
					1-4	5-9
C342-0462	Contact or Logic-Count Input	LCD	External DC	01B2159	51.00	
C342-0464	Contact or Logic-Count Input	LCD	Battery	48F2149	44.88	
C342-0474	High-Voltage (12-250VAC/VDC) Count Input	LCD	Battery	48F2150	59.16	
C342-0562	Contact or Logic-Count Input	LED	External DC	48F2157	111.18	

TIME TOTALIZERS

C342-1464	Hours:Minutes:Seconds Resolution; Contact or Logic Input	LCD	Battery	48F2151	51.00	
C342-1474	Hours:Minutes:Seconds Resolution; High-Voltage (12-250VAC/VDC) Count Input	LCD	Battery	48F2153	66.30	
C342-2474	Hours and 1/100 Resolution. High-Voltage (12-250VAC/VDC) Count Input	LCD	Battery	48F2154	66.30	
C342-1562	Hours:Minutes:Seconds Resolution; Contact or Logic Input	LED	External DC	48F2158	116.28	

TACHOMETERS

C342-3464	Contact or Logic-Count Input	LCD	Battery	48F2155	59.16	
C342-3462	Contact or Logic-Count Input	LCD	External DC	48F2156	72.42	

(33785)

AMBASSADOR™ SERIES LCD MULTIFUNCTION COUNT CONTROLS



Durant

Compact controls feature 8 decade totalizing counter, 6 decade 1/TAU rate indicator, 9 programmable count input modes, 4 control inputs, programmable count and rate scalers, programmable decimal point for count and rate display, 2 programmable open collector transistor outputs, and programmable RS-485 half-duplex serial interface. NEMA 4 rated sealed front panel has full alpha-numeric, 16 character, 0.3" (7) high dot matrix LCD backlit display with 8-position tactile feel keyboard. 74x74mm DIN package. Input power: 115VAC. Units have 12VDC (±25%) 100mA maximum DC power output for input device. Space-saving 2.677" x 2.677" (68 x 68) panel cut-out; 0.500" (12.7) maximum panel thickness. **Mfg. part nos. 57601-401 thru 57601-404** have 6 decade main counter with 1 or 2 preset levels. **Mfg. part nos. 57601-402 and 57601-404** also have 6 decade batch counter with 1 preset level. **Mfg. part no. 57601-405** has 6 decade batch counter with 4 preset levels.



57601-404

GREEN LCD DISPLAY

Mfg. Part No.	Description	Stock No.	Price Each	
			1-4	5-9
● 57601400	Totalizer & Rate Indicator	50F927	344.02	
● 57601401	Single Preset Counter & Rate Indicator	89M5408	407.88	
● 57601402	Single Preset Counter, Rate Indicator, Batch Counter & Totalizer	89M5409	447.02	
57601403	Dual Preset Counter & Rate Indicator	50F930	447.02	
● 57601404	Dual Preset Counter, Rate Indicator, Batch Counter & Totalizer	50F931	512.94	
● 57601405	Quad (4) Preset Counter w/ Batch, Rate, Totalizer	83F7295	561.35	

(2704)

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(116881)

MULTIFUNCTION DIGITAL COUNTER



- Advanced 1/16 DIN Preset Counter with Enhanced Features
- Configure as 1- or 2-Stage, Total, Batch, or Dual Counter or Tachometer, Depending on Model
- High-Speed Response up to 5kHz. Can Be Scaled to 10kHz
- All Parameters Set Via Front Panel or DIP Switch Settings
- PNP/NPN Selectable Input
- Key Protection Function
- NEMA4/IP66 Front Panel
- Programmable Display Color Alerts Any Output Status Change



All units have 12VDC sensor power supply, contact output type and black case. UL listed, CE compliant. Units with no power supply, transistor output and light gray case are also available; go online or call.

STANDARD COUNTERS (1-STAGE)

Mfg. Part No.	Supply Voltage	No. of Digits	Termination	Stock No.	Price Each	
					1-24	25-49
● H7CX-A11-AC100-240	100-240VAC	4	11-Pin Socket	77C5953	208.62	201.78
● H7CX-A11D1 DC12-24/AC24	12-24VDC or 24VAC	6	11-Pin Socket	77C5954	208.62	201.78
● H7CX-A AC100-240	100-240VAC	6	Screw Terminal	18M7372	197.64	191.16
● H7CX-A114 AC100-240	100-240VAC	4	11-Pin Socket	18M7373	197.64	191.16
● H7CX-A114D1 DC12-24/AC24	12-24VDC or 24VAC	4	11-Pin Socket	77C5956	214.11	207.09
● H7CX-A4 AC100-240	100-240VAC	4	Screw Terminal	77C5957	197.64	191.16

ADVANCED COUNTERS (2-STAGE)

● H7CX-AW AC100-240	100-240VAC	6	Screw Terminal	77C5951	241.56	233.64
● H7CX-AWD1 DC12-24/AC24	12-24VDC or 24VAC	6	Screw Terminal	77C5952	241.56	233.64
● H7CX-A4W AC100-240	100-240VAC	4	Screw Terminal	77C5958	241.56	233.64
H7CX-AWSD DC12-24	12-24DC	6	Screw Terminal	97H3209	214.11	207.09

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	25-49
● Y92F-30	Flush Mounting Adapter, Supplied with Screw Terminal Units	88K2030	8.58	8.30
● Y92S-29	Waterproof Packing, Supplied with Screw Terminal Units	88K1287	5.49	5.31
● Y92A-48F1	Soft Cover	90B9875	17.99	17.40
● P2CF-11	11-Pin Track Mounting Front Connecting Socket	85F300	9.34	9.03
● P2CF-11-E	11-Pin Track-Mounting, Front-Connecting Socket with Finger-Safe Terminals	98B1828	9.72	9.06
● P3GA-11	11-Pin Track-Mounting, Back-Connecting Socket	88K1976	9.34	9.03
● PFP-100N	DIN Rail Mounting Track, 1m x 7.3 in	17M7511	6.84	5.82
● PFP-100N2	DIN Rail Mounting Track, 1M x 16mm	34K8630	14.60	12.42
● PFP-50N	DIN Rail Mounting Track, 50cm x 7.3mm	93B2043	5.57	4.74
● PFP-M	End Plate	36K3451	0.76	0.64
● PFP-S	Spacer	17M7510	0.49	0.42

(73802)

ELECTRONIC PRESET COUNTERS AND TIMERS



Counter Features:

- 1 and 2 Preset Capability
- Quadrature Sensing
- Prescaler on 2 Preset Modes
- Bi-Directional Counting, Up/Down Control
- Status Indicator for Outputs
- NEMA 4X/IP65 Sealed Bezel

Timer Features:

- 1 and 2 Preset Capability
- 12 Timing Ranges with 44 Operating Modes
- Programmable from Thousandths of a Second to Hours and Minutes



Both feature a 7-segment, 2 lines by 6-digit backlit LCD display. Models offer a choice of relay or solid-state outputs. Case design allows horizontal or vertical stacking of units.

PREDETERMINING COUNTER

Feature 85-250VAC or 18-36VDC/24VAC input. Available with solid state or relay output and offer pre-scaling and serial communications. UL, cUL listed, CE certified.

Mfg. Part No.	Voltage	Presets	Output	Stock No.	Price Each
					1-5
8301-0110	18-36VDC/24VAC	1	NPN OC/Relay	27C9689	289.50
8301-1110	85-250VAC	1	NPN OC/Relay	25C5215	272.64
8302-0100	18-36VDC/24VAC	2	NPN OC	27C9692	309.49
8302-1100	85-250VAC	2	NPN OC	27C9696	267.25

PREDETERMINING TIMER

Provide serial communications, relay or solid state outputs. Programmable from thousandths of a second to hundreds of hours. Timing modules include: On delay, off delay, single shot and repetitive cycling. UL, cUL listed, CE compliant.

8321-0110	18-36VDC/24VAC	1	NPN OC/Relay	27C9710	289.50
8321-1110	85-250VAC	1	NPN OC/Relay	27C9711	247.75

➔ CONTINUED ➔

COUNTERS – 1/16 DIN • COUNTERS – 36 X 72

ELECTRONIC PRESET COUNTERS AND TIMERS (CONT.)

PREDETERMINING TIMER

Mfg. Part No.	Voltage	Presets	Output	Stock No.	Price Each
					1-5
8322-0010	18-36VDC/24VAC	2	Relay	27C9712	314.19
8322-1010	85-250VAC	2	Relay	27C9716	270.09

(72449)

VEEDER-ROOT BRAND C346 PRESET COUNTERS



Simple button per digit setting and choice of single-line 6-digit LED or LCD display allow optimum operator interface. Very flexible input circuit with scaling feature accepts signals from encoders, NPN (sinking), PNP (sourcing), and contact-closure inputs. Suitable for most preset counting applications. Size: 1/16 DIN (48W x 48mmH) Display: 6 digit. LED or LCD. Power: 120VAC standard; optional 240VAC, 24VDC. Preset levels: 1 or 2.5 amp relay and NPN transistor per output. Input scaling: x0.001 to 9.999. Input: sinking, sourcing, contact closure, add/subtract, add/add, quadrature. Maximum count speed: 5kHz.

Mfg. Part No.	Type	Stock No.	Price Each
			1-5
C346-0411	LCD/Single Preset/115VAC	16F4072	215.34
C346-0412	LCD/Single Preset/12-24VDC	01B2178	208.68
C346-0421	LCD/Dual Preset/115VAC	16F4073	251.97
C346-0511	LED/Single Preset/115VAC	16F4074	259.74
C346-0521	LED/Dual Preset/115VAC	16F4075	290.82

(3061)

VEEDER-ROOT BRAND SQUIRE™ PREDETERMINING COUNTERS



Offer single or dual preset count capability, or single preset count capability with a presettable batch counter. Backlit LCD display provides simultaneous count and preset indication. Nonvolatile memory retains memory during power loss. Models with calibration feature input signal to appropriate engineering unit. Annunciators and simple key sequences make operation quick and easy. A variety of count sources are accommodated, including switch or relay contacts, photoelectrics, proximity switches, and unidirectional or bidirectional encoders. Solid-state outputs interface to light-duty devices, while relay contacts offer heavy-duty load switching. Maximum count speed: 2.4kHz. 115VAC, 50/60Hz. Fit panel cut-out: 1.772" x 1.772" (45.01x45.01).

Mfg. Part No.	Presets	Speed	Features*	Stock No.	Price Each
					1-14
SQC1100U	1	20Hz	a/s	55M3754	202.54
SQC1200U	1	2.4kHz	a/s;qu;cal;dp	95F5070	225.51
SQC22000	2	2.4kHz	a/s;qu;cal;dp	95F5071	276.66
SQB22000	1	2.4kHz	a/s;qu;cal;dp;bat	95F5072	263.09

* Features: a/s= add/subtract input; qu = quadrature input; cal = calibrator; dp = selectable decimal point; bat = batch preset

(2916)

VEEDER-ROOT BRAND V4545 SERIES PRESET COUNTERS



Veeder-Root brand



V4545-1 Counter, Single Preset

V4545 series counters are suited for applications such as cut-to-length and filling. Dual input channels accept input from a variety of sources, including encoders, dry contact, and PNP and NPN sensors. Prescale function translates signals into useful units of measure. Can be used for reversible or quadrature counting. Models available with single or dual preset, and the ability to direct batching operations. Each preset value features a transistor and a relay output. Outputs can be programmed for latching or timed operation. Large dual line LED. Scale function allows display of engineering units. High speed counting up to 10kHz. 48W x 48mm H. Panel mount (bracket supplied), fits 45 x 45mm cutout. 7 ounces (198 g).

Mfg. Part No.	Description	Stock No.	Price Each
			1-9
V45450-1	Single Preset	52F1253	233.10
V45450-2	Dual Preset	52F1254	261.45
V45450-3	Single Preset, w/Batch	52F1255	261.45

(2989)

COURIER SERIES BATTERY POWERED LCD TOTALIZERS & RATEMETERS



Durant



53300-405

Electronic totalizers, add/subtract counters, and ratemeters feature high-contrast LCD display with large 0.43" (10) high digits for easy readability and rear screw mount terminals. 36x72mm DIN size case. 1.42"H x 2.67"W (36 x 67) panel cut-out. Programmable independent scaling and remote reset. Powered by replaceable 3V lithium battery. NEMA 4X rating.

Mfg. Part No.	Description	Stock No.	Price Each
			1-9
53300400	8-Digit High-Speed Totalizer	89M5405	107.97
53300403	8-Digit Quadrature Totalizer	89M5406	154.94
53300404	4/5-Digit 1/TAU Ratemeter (10kHz)	89M5407	143.96
53300-405	8-Digit Totalizer/Ratemeter	53M5319	171.68
53302405	8-Digit Totalizer/Ratemeter w/Backlight	52F1264	206.18

(2702)

DITAK 8 - ADJUSTABLE TIMEBASE 5-DIGIT RATE INDICATORS



- Adjustable timebase from 4 msec to 32 sec
- Internal lithium battery provides over 7 years of continuous operation
- NEMA 4X/IP65 sealed front panel bezel
- Accepts magnetic or logic type signal inputs
- Wire connections made via screw clamp type terminals

Self-powered rate indicators that feature selectable timebase increments by setting the appropriate DIP switches on the rear of the unit. 5-digit LCD display with 0.6" high digits. Displays are available in positive image reflective (black digits, reflective background) or negative image transmissive (illuminated digits, dark background). Backlight versions require power from an external 9-28VDC power supply. CE compliant. Yellow/Green backlight available; go online or call.

Mfg. Part No.	Display Type	Backlight Color	Stock No.	Price Each
DT800000	LCD Positive Reflective	...	84K7447	77.00
DT800020	LCD Negative Image Transmissive	Red	84K7448	100.00

(88721)



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(116860)

COUNTERS – 36 X 72 • CONTROLLERS – SMART RELAY

MODEL MLPS1 - MICRO-LINE POWER SUPPLY



For use with DT8, DT9, CUB4 and CUB5 meters as an external power supply for backlighting. Model MLPS1 is a +12VDC power supply designed to attach to the rear of the Micro-Line Series. Can be powered from an 85-250VAC source. 12VDC output at 400mA.

Mfg. Part No.	Supply Voltage	Stock No.	Price Each
MLPS1000	85-250VAC	84K7467	32.00

(86722)

MODEL CUB5 36 x 72mm



5-Digit



8-Digit

- LCD reflective or red/green LED backlighting display
- NEMA 4X/IP65 sealed front bezel
- Operates from 9 to 28VDC power source
- Display color change capability at preset output
- Optional serial communications module (RS232 or RS485)

SPECIFICATIONS

Display Options	LCD, Reflective or Green/Red LED Backlighting*
No. of Digits	5 or 8
Digit Height	0.48" or 0.46"
Input Voltage	9-28VDC
Current Meters Input Range	200µADC, 2mADC, 20mADC, 200mADC
Voltage Meters Input Range	200mVDC, 2VDC, 20VDC, 200VDC
Count Modes (Counters and Rate Indicators)	Count with Direction, Rate/Counter, Dual Counter, Quadrature x 1, Quadrature x 2, Quadrature x 4, 2 Input Add/Add, 2 Input Add/Subtract
Quadrature Sensing (Counters and Rate Indicators)	1x, 2x, 4x

*Backlight versions require an external 9-28VDC power supply

CUB5 CURRENT AND VOLTAGE METERS

Four selectable DC ranges. 0.48" high digits. Minimum and maximum display capture. Optional setpoint output modules. Front panel or crimson programmable.

CURRENT METER

Mfg. Part No.	No. of Digits	Display Type	Backlight Color	Stock No.	Price Each
CUB5B00	5	LCD Selectable Transmissive	Red Or Green	17M9129	135.00

VOLTAGE METERS

CUB5V00	5	LCD Positive Reflective	...	18M8514	125.00
CUB5B00	5	LCD Selectable Transmissive	Red Or Green	17M9126	135.00

CUB5 MINIATURE DUAL COUNTERS AND RATE INDICATORS

Optional relay output module. Count speeds up to 20KHz. Can be programmed as a single or dual counter with rate indication capability. Programmable for one of eight different count modes. When programmed as a dual counter, each counter has a separate scale factor and decimal points. In the counter/rate indicator mode, each have their own scaling and decimal point read-outs in different engineering units. Two separate inputs provide different functions depending on which operating mode is selected.

Mfg. Part No.	No. of Digits	Display Type	Backlight Color	Stock No.	Price Each
CUB5B00	8	LCD Selectable Transmissive	Red Or Green	84K7434	109.00
CUB5R00	8	LED	...	84K7438	98.00

OPTIONAL PLUG-IN CARDS

Mfg. Part No.	Description	Stock No.	Price Each
CUB5COM1	RS485 Serial Communications Card	84K7435	30.00
CUB5COM2	RS232 Serial Communications Card	84K7436	30.00
CUB5RLYO	Single Relay Option Card	84K7437	20.00

(86577)

Expert technical support

Chat online to our team of engineers, or connect to them through your representative.

(116882)

MODEL CUB7 COUNTERS AND MODEL CUB7T PROGRAMMABLE ELECTRONIC TIMERS



CUB7



CUB7T

- Count speeds up to 10KHz (counter)
- Replaceable internal lithium battery provides up to 6 years (timer) and 7 years (counter) of uninterrupted operation
- 10 programmable timer ranges (timer)
- Front panel program and reset buttons are individually enabled (timer)
- Front panel and remote reset input (counter)

SPECIFICATIONS

Type	Counter	Timer
LCD Display Options	Reflective or Transmissive with Yellow/Green or Red LED Backlighting*	Reflective, Red Transmissive, Yellow/Green Transmissive with "Timer Active" Annunciator
No. of Digits	8	8
Digit Height	0.35"	0.35"
Wire Connection	Screw clamp type terminals	Screw clamp type terminals
Casing	NEMA 4X/IP65 Sealed Front Bezel	NEMA 4X/IP65 Sealed Front Bezel

*Backlight versions require an external 9-28VDC power supply

CUB7 MINIATURE ELECTRONIC 8-DIGIT COUNTERS

Low speed input: 30Hz from switch contact to open collector transistor with 50% duty cycle. High speed input: 10KHz max. from 3.0V bipolar output with 50% duty cycle.

Mfg. Part No.	Signal Input	Display Type	Backlight Color	Stock No.	Price Each
CUB7000	Contact	LED Positive Image Reflective	...	84K7445	48.00
CUB70020	Contact	LCD Negative Image Transmissive	Red	84K7446	68.00

CUB7T PROGRAMMABLE ELECTRONIC TIMERS

Contact versions operate from a switch or an open collector NPN transistor. Contact burden 15µA. A maintained closed switch to COM will actuate the timer. Voltage versions operate from a signal voltage of 10-300V (AC 50/60Hz or DC), 150V max. for backlight versions. Any offstate leakage current may activate the timer. Constant voltage applied to the input will actuate the timer. Due to the internal digital filtering to this input, up to 30 msec. of error may be added per activation of the signal input.

Mfg. Part No.	Signal Input	Display Type	Backlight Color	Stock No.	Price Each
CUB7T000	Contact	LED Positive Image Reflective	...	84K7439	45.00
CUB7T010	Contact	LCD Negative Image Transmissive	Yellow Green	84K7440	65.00
CUB7T020	Contact	LCD Negative Image Transmissive	Red	84K7441	65.00
CUB7T100	Voltage	LED Positive Image Reflective	...	84K7442	45.00
CUB7T110	Voltage	LCD Negative Image Transmissive	Yellow Green	84K7443	65.00
CUB7T120	Voltage	LCD Negative Image Transmissive	Red	84K7444	65.00

(86579)

FUSION™ SERIES COUNT CONTROL MODULES



- Combines high speed counter with micro PLC
- 10 digital and 4 analog inputs
- 7 digital and 2 analog outputs
- Built-in user configurable operator interface
- Modbus RS485 serial communication

The Fusion™ is a high-speed count control module and a logic controller capable of processing up to 100 rungs of ladder logic. Configuration can be done using the input display keys or utilizing the programming software, (available at no charge from www.durant.com). The Fusion™ has three form C and two form A relay output and two NPN transistor outputs. The 6kHz speed counter consists of a 5-digit ratemeter with high/low presets, a main counter with five presets, a totalizer and a batch counter (both pre-settable). The NEMA 4X operator interface can display counter data, alarms, operator prompts and ladder logic information. The display includes 18 pushbuttons for operator input. In addition to the 10 control inputs and three high-speed count inputs, the logic inputs also include: one power up signal, eight analog comparators for use with the four analog inputs, eight real time clock comparators, eight counters and eight timers. UL listed, cUL listed, CE certified.

Mfg. Part No.	Display	No. of Digits	Supply Voltage	Stock No.	Price Each
57550400	LED	126	10-30VDC	27K6024	650.27
57551400	LED	126	85-265VAC	27K6025	689.36

(84753)

ECLIPSE SERIES COUNT, RATE, TEMPERATURE AND PROCESS INDICATORS



Durant

Full-featured DPM/process meter offers simple front panel programming and calibration, universal input power and NEMA 4 rated front panel for installation in wet areas. AC (85-265VAC) power supply. 1/8 DIN cutout. LED display. Tactile keypad. Removable connectors. Panel depth: 3.6".



Mfg. Part No.	Description	Stock No.	Price Each	
			1-4	
● 57701450	Process (4-20mA, 0-10V, 1-5V), No Output	89M5411	275.10	
● 57701451	Process Meter, 2 Alarms, Relay Out, 85-265VAC Power	16C1111	326.55	
● 57701461	Temperature Indicator, 2 Alarms, Relay Out, 85-265VAC Power	94B7223	352.80	
● 57701470	Ratemeter, No Outputs	90B7449	259.35	
● 57701471	Ratemeter, 85-265VAC, Rate, Relay out, Alarm Outputs	50B3001	313.95	
● 57701480	Count/Totalizer, No Outputs	50B3002	301.04	
● 57701481	6-digit, 1 or 2 Preset Count Control, Relay Output	90B7451	351.75	

(68932)

PRESIDENT SERIES LED TOTALIZERS/COUNT CONTROLS



Durant

Electronic measuring systems feature color-coded keyboard control panel for simple selection and programmability. 0.56" (14) LED display for count and preset values. Sealed front panel meets NEMA 4 specifications. 120/240VAC, 12VDC power input. Units have 15VDC (+1, -2 volts) 100mA maximum DC power output for input device. Non-volatile memory. All models mount in 2.677"H x 5.433"W (67 x 136) panel cut-out except mfg. part no. 58810 which mounts in 1.771"H x 5.433"W (44 x 137) panel cut-out.



57820-400

Mfg. Part No.	Description	Stock No.	Price Each	
			1-4	
● 57820400	5-Digit, Single-Preset Control with Ratemeter	89M5412	540.44	
● 58821-400	5-Digit, Single-Preset Control with Scaling	50F923	784.70	
● 58831400	5-Digit, Dual-Preset Control with Scaling	98F3649	703.50	
58851400	6-Digit, Dual-Preset Control with Presettable Batch Counter, Totalizer and Scaling	50F920	1092.10	
● 58861400	6-Digit, Triple-Preset Control with Scaling	50F918	1092.10	
● 58827400	6-Digit, Single-Preset Control with Presettable Totalizer, Batch Counter and Ratemeter	50F916	1132.30	
● 58810400	8-Digit Totalizer	50F924	587.64	
● 58841400	6-Digit, Dual-Preset Control with Batch Counter, Scaling, and Crop Cut	94F9798	1018.40	

(2705)

LAUREATE™ FREQUENCY, RATE AND PERIOD COUNTERS



- Optional second channel allows both channels to be independently sealable
- Frequency from 0.005Hz to 1MHz
- 6-digit resolution at update rates up to 25/s
- Selectable "count by" of 10 or 100 with rounding
- NEMA 4X, 1/8 DIN case



The counter determines the frequency by timing an integral number of periods over a specified gate time and then taking the inverse of period. The inverse period approach allows greater accuracy and faster update times than conventional meters which count signal pulses over a specified time interval. Isolated 5, 10 or 24VDC excitation supply to power sensors. Green or red LED display. Display will flash and go into four-digit XXXEX scientific notation when count exceeds 999,999. Square root extraction is standard. Each channel (A or B) may be independently scaled for frequency, rate or period. An adaptive filter can reduce variations due to noise. Up to 180 data points can be input into a spreadsheet or text file for custom linearization. 1/8 DIN case meets NEMA 4X (IP-65) standards. Choice of isolated plug-in options for control and computer interface: dual relays, analog output, serial communications, parallel BCD output, low voltage AC and DC power available; go online or call. UL listed, CE certified.

STANDARD MAIN BOARD

Scalable to ±999,999 for frequency, rate, square root of rate, up or down total, period, A-to-B time interval.

Mfg. Part No.	Setpoint Output	Analog Output	Stock No.	Price Each
L60000FR	...	...	84K0401	230.00
L60010FR	...	Isolated 0-20mA and 0-10V	84K0402	310.00
L60100FR	Relay	...	84K0403	310.00

EXTENDED MAIN BOARD

All of the features of the standard main board plus rate and total simultaneously, ration (A/B), draw (A/B-1), other arithmetic functions (AxB, A+B, A-B), phase angle, stopwatch, up/down counting, batching operation, custom curve linearization.

Mfg. Part No.	Setpoint Output	Analog Output	Stock No.	Price Each
L80000FR	...	...	84K0404	270.00
L80010FR	...	Isolated 0-20mA and 0-10V	84K0405	350.00
L80100FR	Relay	...	73K4854	350.00

➔ CONTINUED ➔

LAUREATE™ FREQUENCY, RATE AND PERIOD COUNTERS (CONT.)

CABLE ACCESSORIES

Mfg. part no. CBL01 connects the meter directly to a PC RS232 port. Mfg. part no. CBL02 is used on computers without an RS232 port but have a USB port.

Mfg. Part No.	Cable Length (ft.)	Connector Type A	Connector Type B	Stock No.	Price Each
CBL01	7	DB9 Male	RJ11	87K0754	19.00
CBL02	2	DB9 Male	3 Terminal Plug	87K0755	39.00

(88534)

UNIVERSAL COUNTER/TIMER/TOTALIZER



Universal 6-digit 0.56" (14.22) LED display is a frequency meter, tachometer, rate meter, timer, or totalizer with RS-232 interface. 7MHz maximum frequency. Fast low-frequency measurements, such as power-line monitoring to 5-digit accuracy every 150 micro-seconds. Selection of operating mode, scaling and setpoints via front-panel push-buttons (with selectable hardware lockout). Units capable of handling TTL, NPN, PNP sensors, contact closures and passive magnetic pickups (not included). Fit 1/8 DIN panel cutout. Screw terminals for signal and power. 115VAC, 50/60Hz or non-isolated 9.5-32VDC power optional. Relay output provides dual 10A relays for ON/OFF control or alarm applications, with latched or unlatched modes.



P5000 SERIES WITH NEMA4-RATED INFINITY STYLE BEZEL

Mfg. Part No.	Signal Input	Relay Output	Analog Output	Stock No.	Price Each	
					1-2	
P5001/E	±10mV to 240Vrms, 1-Channel-Pulse	No	No	71C8326	546.25	
P5004	1-5V, 0-10V, 4-20mA, 1-Channel-Analog	No	No	94B3715	592.25	

P6000 SERIES WITH FRONT-REMOVABLE LENS ASSEMBLY

Mfg. Part No.	Signal Input	Relay Output	Analog Output	Stock No.	Price Each
P6000A	TTL/5V CMOS-level, 2 Channel	No	No	89F1797	437.00
P6020A/E	TTL/5V CMOS-level, 2 Channel	Yes	No	89F1798	529.00
P6021A/E	±10mV to 240Vrms, 1 Channel	Yes	No	89F1799	638.25
P6031A	±10mV to 240Vrms, 1 Channel	No	Yes	28M8311	724.50

(2303)

INFCTRA SERIES 1/8 DIN 6-DIGIT RATEMETER/TOTALIZER



- Measures Rate from 0.5Hz to 30kHz
- Totalizes Up or Down from -99,999 to 999,999 or Acts as Accumulating Stopwatch
- Fast Low Frequency Measurements Every 0.3 Seconds
- Optional HI and LO Setpoints for Control or Alarm
- 1/8 DIN Case with 5 Programming Keys



INFCTRA Series ratemeter/totalizer offers user programming via 5 front panel keys. Programs are stored in non-volatile memory with 3 levels of program lockout for security. Selectable sensor excitation of 12.5VDC 50mA, 8.2VDC @ 40mA or 5.0VDC @ 30mA. Wide selection of signal inputs such as TTL compatible with protection to 25VDC, low level (25mVrms), high level signals protected to 115VAC, NAMUR or open collector PNP or NPN. 6-digit, 7-segment LED display. Accuracy: 0.01%. Power: 115VAC. Other configurations are available; go online or call.

Mfg. Part No.	Description	Stock No.	Price Each	
			1-2	
INFCTRA-0100-R	Ratemeter, Dual Relay Output	96F6827	381.90	

(2352)

DYNAPAR BRAND MAX JR TACH 1 & 2 PROGRAMMABLE RATE CONTROLLERS



Dynapar brand



Choose from two compact, economical models, both offering high-accuracy measurement techniques and simple programming. Mfg. part no. MTJR1S00 MAXjr Tach 1 rate indicator/controller is ideal for basic rate or speed measurement functions. Mfg. part no. MTJR2S00 MAXjr Tach 2 rate/ratio/time interval controller provides a choice of operating modes: rate of input A, as in the MAXjr Tach 1 model; ratio of two independent inputs A and B; and time interval, which can be the period of A or the elapsed time between inputs A and B; and time interval, which can be the period of A or the elapsed time between inputs A (start) and (stop). Both MAXjr Tach 1 and 2 models feature programmable 0.0001 to 99999 calibration high/low setpoint alarm capability with outputs and built-in diagnostics. Large 5-digit 0.56" (14.22) red LED display, 0.01% accurate time interval measurement and programmable decimal point position. Sealed NEMA-4 rated front panel with panel mounting in 1/8 D. 1.78x3.56" (45.21x90.42) cutout; 5.68" (144.27) depth. 115/230VAC, 50/60Hz.

Mfg. Part No.	Description	Stock No.	Price Each
MTJR1S00	MAXjr Tach Rate Controller	84F765	588.00
MTJR2S00	MAXjr Tach Rate/Ratio/Time/Controller	04F804	679.14

(2820)

COUNTERS – 1/8 DIN • COUNTERS – ELECTROMECHANICAL

C628 SERIES "AWESOME" DISPLAY COUNTERS, TIMERS AND RATEMETERS



Veeder-Root brand



1/8 DIN panel meters feature the ability to change display color when the monitored data exceed a preset limit, providing operators with instant visual alert to changes in application status. Large, super-bright 5-digit 0.71" LED display can also be set to a constant red or green color. Count and rate models can accept input frequency to 10kHz. Elapsed timer models operate in formats of seconds, minutes, hours, minutes and seconds, or hours and minutes. Fully programmable feature set accommodates a wide range of applications. Power source: 90 to 264VAC, 50/60Hz.

TOTALIZING COUNTERS

Mfg. Part No.	Description	Stock No.	Price Each
C628-10000	Bidirectional; Preset for Display Color Change	48F2129	374.52

PRESET COUNTERS

C628-70000	1 Preset with Transistor Outputs	88F5919	432.36
C628-81000	Bidirectional; 2 Presets with Relay and Transistor Outputs	48F2131	482.97

RATEMETER

C628-41000	2 Presets with Relay and Transistor Outputs	48F2133	419.34
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ELAPSED TIMER

C628-60000	1 Preset with Relay and Transistor Outputs	48F2135	384.64
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(36071)

DYNAPAR BRAND MAX® JR. ELECTRONIC TOTALIZING AND PRESET COUNTERS



Dynapar brand

Mfg. part no. MCJR1S00 8-digit totalizing counter features bidirectional operation, with ± polarity indicator and reference preset function. Mfg. part no. MCJR2S00 is 5-digit predetermined counter for cut-to-length, filling, batching, locating, and similar applications. Features two presets with programmable output action. Mfg. part no. MCJR3S00 similar to MCJR2S00 but includes additional function that serves either as totalizer preset-batch counter. Programmable features include independent calibration and decimal point location for count and rate, allowing totals and speed to be displayed in different units, such as: totals in feet; speed in RPM. All models have bright, high-contrast red LED displays, NEMA-4 front panel rating with panel mounting in 1/8 DIN cut-out. Calibrator scales input signal for display in engineering units. Selectable decimal point positioning. Non-volatile memory retains count and program during power loss. 115/230VAC, 50/60Hz.

Mfg. Part No.	Description	Stock No.	Price Each
MCJR1S00	Count 1 Totalizing Counter	50F2679	536.20
MCJR2S00	Count 2 Predetermining Counter	87F1084	631.03

(10625)

PRESET COUNTERS

The S660 series of counters are capable of handling count speeds of up to 20kHz (30kHz S661). Simple menu-driven programming features word prompts, not difficult codes. The rugged NEMA 4X case fits standard 1/8 DIN cutouts, and is equipped with large tactile buttons that can be pressed easily even when the user has gloves on. The counters feature a 6-digit LED display and 120VAC power. Optional features include quadrature inputs, two 5-amp mechanical relays and 12VDC excitation output @ 100mA (220VAC power upon request). Mfg. Part No. S660 is an up/down, add/subtract totalizing counter, mfg. part no. S661 is a rate counter, and mfg. part no. S662 is a totalizer/batch counter.



UP/DOWN, ADD/SUBTRACT TOTALIZER (S660 SERIES)

Mfg. Part No.	Input	Relay/Excitation	Stock No.	Price Each
S660-1-1-0-0-0	Pulse Input	None/None	83F8782	211.58
S660-1-1-1-0-0	Pulse Input	One/None	83F8783	242.98
S660-1-1-2-0-0	Pulse Input	Two/None	83F7506	261.87
S660-1-1-2-1-0	Pulse Input	Two/12VDC	83F7507	295.04
S660-1-2-0-0-0	Quad Input	None/None	83F8780	236.46
S660-1-2-1-0-0	Quad Input	One/None	83F8781	267.88
S660-1-2-2-0-0	Quad Input	Two/None	83F7508	286.75
S660-1-2-2-1-0	Quad Input	Two/12VDC	83F7509	319.93

➔ CONTINUED ➔

PRESET COUNTERS (CONT.)

RATE (S661 SERIES)

Mfg. Part No.	Input	Relay/Excitation	Stock No.	Price Each
S661-1-1-0-0-0	Pulse Input	None/None	83F7510	211.58
S661-1-1-1-0-0	Pulse Input	One/None	83F7511	242.98
S661-1-1-2-0-0	Pulse Input	Two/None	83F7512	261.87
S661-1-1-2-1-0	Pulse Input	Two/12VDC	83F7513	295.04
S661-1-2-0-0-0	Quad Input	None/None	83F7514	236.46
S661-1-2-1-0-0	Quad Input	One/None	83F7515	267.88
S661-1-2-2-0-0	Quad Input	Two/None	83F7516	286.75

TOTALIZER/BATCH (S662 SERIES)

S662-1-1-0-0-0	Pulse Input	None/None	83F7518	249.35
S662-1-1-1-0-0	Pulse Input	One/None	83F7519	280.75
S662-1-1-2-0-0	Pulse Input	Two/None	83F7520	299.64
S662-1-1-2-1-0	Pulse Input	Two/12VDC	83F7521	332.80
S662-1-2-0-0-0	Quad Input	None/None	83F7522	274.23
S662-1-2-1-0-0	Quad Input	One/None	83F7523	305.63
S662-1-2-2-0-0	Quad Input	Two/None	83F7524	324.52
S662-1-2-2-1-0	Quad Input	Two/12VDC	83F7525	357.68

(33380)

FREQUENCY COUNTERS



Mfg. part no. S664 frequency counters provide a low cost 1/8 DIN frequency counter with ranges from 1Hz to 35kHz. The only programming required is range selection and input card setup. The rugged NEMA 4 case fits standard 1/8 DIN cutouts. The S664 comes standard with a 4-digit LED display and 120VAC power. Optional features include 12VDC excitation output @ 100mA and 220VAC power (upon request).



Mfg. Part No.	Input	Excitation	Stock No.	Price Each
S664-1-1-0-0-0	Pulse Input	None	83F7534	167.81
S664-1-1-0-1-0	Pulse Input	12VDC	83F7535	201.00

(33379)

ELECTROMECHANICAL TOTALIZING IMPULSE COUNTERS



COUNTER 24 X 48

Mfg. Part No.	Supply Voltage (VAC)	Digits	Mounting	Stock No.	Price Each	
					Each	2-5
● 99766902	115	6	Panel	73H5716	56.59	51.56
● 99766922	115	5	Panel/w reset	73H5720	63.31	57.69

COUNTER 36 X 37

● 99766611	115	5	Panel/w reset	17M8659	65.68	59.85
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COUNTER 36 X 48

● 99766711	115	5	Panel/wo reset	17M8661	65.68	59.85
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(80116)

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(116879)

COUNTERS – ELECTROMECHANICAL

Y-RMF AND Y-MF HEAVY-DUTY TOTALIZING COUNTERS



32651-400



31083-403

Mfg. part nos. 32651-400 and 32654-400 are shaded pole electric counters with straight AC operation. They feature a non-rectified, shaded pole coil designed to withstand transient and high voltage spikes. This, combined with a simplified, hinged escapement drive, also eliminates the possibility of miscounts and greatly adds to the life of the counter. Tallies at speeds up to 750 cpm. Mfg. part nos. 31155-402, 31066-416 and 31083-403 provide accurate counts through a wide range of speeds up to 1000 cpm. Feature fast, silent DC electromagnet drive with built-in, higher capacity rectifier for dependable AC operation. Moving parts never need lubrication under normal operating conditions. 0.188"H (4.78) 6-digit readout. 115VAC operating voltage with 7 watt count coil. Available with knob reset in base, panel mounting, or panel mount key reset. Panel models fit 3.703W x 1.250H x 2.469"D (94.06 x 31.75 x 62.71) opening. UL recognized.

Mfg. Part No.	Reset	Mounting	Stock No.	Price Each	
				1-4	
31155402	Knob	Base	87F6150	143.10	
31066416	Knob	Panel	87F6149	164.30	
31083-403	Key	Panel	87F6151	235.32	
32651400	Knob	Base	18C1644	156.22	
32654400	Key	Panel	94F3855	254.40	
32653400	Knob	Panel	94F3854	183.38	

(2695)

MINIATURE ELECTRIC COUNTERS



Compact panel-mount 120VAC counters feature 0.188"H (4.78) 4- and 6-digit readout and tamperproof sealed window. Stainless steel self-lubricating shaft, nylon pinions and synchronous electromagnetic drive assures accuracy and long-life. Speed: up to 1000 cpm. Power: count coil 3 watts. Available non-reset or pushbutton reset. Includes 10" (254) wire leads.



Mfg. Part No.	Description	Cut-Out	Stock No.	Price Each	
				1-4	
41314402	4-Digit Panel Mount, 24VDC, Pushbutton Reset	1.72W x 1.11"H	94F3839	72.36	
41314-406	4-Digit Panel Mount, 120VAC, Pushbutton Reset	1.72W x 1.11"H	94F3858	105.27	
41346406	6-Digit Panel Mount, 120VAC, Non Reset	1.72W x 1.11"H	94F7375	71.28	

(2694)

PD-Q AND PD-ER PREDETERMINED ELECTRIC COUNTERS

True subtracting devices with easy pushbutton operation for both predetermined count settings and reset. Units subtract one count for each contact closure or impulse and actuate a 4A, S.P.D.T. 250VAC switch when zero is reached. Return to predetermined number when reset and are immediately ready to control next lot or branch. 0.188"H (4.78) 5-digit readout. Count speed: 1000 cpm. Operates on 120VAC, 9 watts. Stainless steel shaft. Mfg. part no. 41625-406 has electric reset for control flexibility and remote operation. Both models fit 2.718W x 1.593"H (69.04 x 40.46) panel cut-out.



Mfg. Part No.	Reset	Mounting	Stock No.	Price Each	
				1-4	
41433406	Pushbutton	Panel	94F3864	380.54	
41625406	Electric	Panel	94F3847	417.64	

(2696)

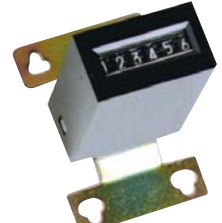
ELECTROMECHANICAL COUNTERS



Model 10 Panel Mount



Model 10 Base Mount



Model 44



P2-4816



Model 49

Model 10 6-figure electromechanical counter with heavy-duty rectifier, transient protection, convenient reset, 1000 cpm capability. Mfg. part no. 2-1006 dimensions in inches: 3.68(H) x 1.74(W) x 2.51(D). Panel cutout in inches: Mfg. part no. P21006, 3.85 x 1.75; Mfg. part no. P32-1206, 4.88 x 1.75. 8" wire leads, 22AWG. UL recognized, CSA certified, CE compliant. 7-figure counters available, go online or call.

Mfg. Part No.	Voltage	Mount	Reset	Stock No.	Price Each	
					1-4	
2-1006	115VAC	Base	Manual	57F3501	135.98	
P2-1006	115VAC	Panel	Manual	57F3502	150.06	
P32-1026	115VAC	Panel	Lock & Key	44F3109	198.26	

Model 44 rugged, low cost 6-figure non-resettable electromechanical counter in a variety of mounting styles. 0.18" high characters. Dimensions in inches: 1.4(H) x 0.8(W) x 2.4(D). 10" wire leads, 22AWG. UL recognized, CE compliant.

R8-4416	24VDC	Behind Panel		27B4547	27.33
RV2-4416	115VAC	Combination		71M0095	54.38
RV8-4416	24VDC	Combination		44F3126	29.17
RV23-4416	24VDC	Combination		71M0096	72.02

Model 48 compact, economical 6-figure non-resettable electromechanical counter designed for general purpose industrial and commercial counting applications. Dimensions in inches: Panel mount, 1.80(H) x 1.80(W) x 2.25(D); base mount, 2.96(H) x 1.63(W) x 2.25(D). 12" wire leads, 22AWG. UL recognized, CSA certified, CE compliant.

P2-4816	115VAC	Panel		90F1624	48.86
P3-4816	24VAC	Panel		27B4538	59.07
P8-4816	24VDC	Panel		27B4540	45.08
V2-4816	115VAC	Base		51M9084	47.48
V8-4816	24VDC	Base		27B4554	44.26

Model 49 4- or 6-figure panel mount electromechanical counter with pushbutton reset. 0.16" high characters. Mfg. part no. 4904 panel cutout in inches: 1.46(H) x 1.01(W). Mfg. part no. 4906 panel cutout in inches: 2.00(H) x 1.01(W). 10" wire leads, 22AWG. UL recognized, CE compliant. Other mounting styles available, go online or call.

Mfg. Part No.	Voltage	Mount	Figures	Stock No.	Price Each	
					1-14	
P2-4904	115VAC	Panel	4	48M0898	53.36	
P8-4904	24VDC	Panel	4	48M0900	49.41	
P2-4906	115VAC	Panel	6	48M0899	66.34	
P8-4906	24VDC	Panel	6	48M0901	61.83	

(2926)

300 SERIES ELECTROMECHANICAL COUNTERS

Extremely long life counter with 6-digits, white on black, 0.15" high. Panel mount. Panel cutout: 2.02x1.05". Power: 2.8 watts. Solder terminals. UL recognized, CSA certified, CE compliant.



Mfg. Part No.	Description	Stock No.	Price Each	
			1-2	3-4
R2-3106	115VAC, 1,000cpm, 30ms "on"/30 ms "off"	57F3505	194.99	185.56
P8-3206	24VDC, 1500cpm, 20ms "on"/20 ms "off"	70B9191	189.23	180.07

(2935)

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(116881)

COUNTERS – ELECTROMECHANICAL • COUNTERS – MECHANICAL STROKE • COUNTERS – TALLY

ECONOMICAL ELECTRIC COUNTERS



7790 series (6-digit, nonreset) and series 7791 offer excellent performance and reliability characteristics for a minimal price. Body size: 1.0" x 1.3". Capable of speeds up to 600 counts/minute. UL recognized, CSA certified. Its count coil can be continuously energized without damage. 115VAC, 5W. Other AC and DC models also available; go online or call.

NONREST

Mfg. Part No.	Description	Stock No.	Price Each	
			1-14	15-24
0779086-001	Base Mount	87F1086	44.27	
0779086-201	Panel Mount	99F6253	45.57	
0779086-401	Rear Mount	01B3985	44.27	

PUSH-BAR RESET

0779185-201	Panel Mount	01B3990	57.29	
0779185-401	Rear Mount	01B3993	54.69	

(52082)

TYPE 5H11R HEAVY-DUTY MECHANICAL STROKE COUNTER

Durant

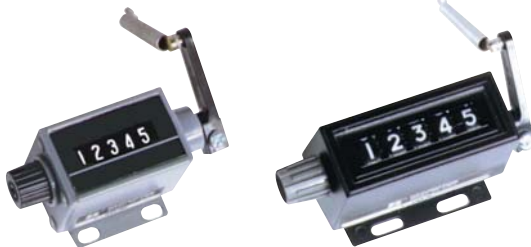
High-speed, heavy-duty unit delivers 800 counts per minute. Features 5-digit readout, right-hand lever drive, wing nut reset, stainless steel shaft, and oil-less bearings. Steel plate adjusts for bottom or back mounting.



Mfg. Part No.	Description	Stock No.	Price Each	
			1-4	15-24
40205400	Heavy-duty mechanical stroke counter	87F6146	192.60	

(2699)

MECHANICAL STROKE COUNTERS



1-4635

1-2035

46 series mechanical stroke counter for limited space applications in office, vending and other small machinery. Speed: 1000cpm. Right hand, 5-digit, manual reset. Operating lever and spring assembly. Shaft diameter: 0.156". 20 series mechanical stroke counter for use in machinery. Speed: 1000cpm. Right hand, 5-digit, manual reset. With operating lever and spring assembly. Shaft diameter: 0.125".

Mfg. Part No.	Description	Stock No.	Price Each	
			1-14	15-24
● 1-4635	5 Figures, 0.19" H., .81" x 1.20" Mounting Slots	57F3516	46.36	44.47
● 1-2035	5 Figures, 0.19" H., .83" x 1.20" Mounting Slots	57F1916	62.78	60.23

(2937)

SMALL STROKE/ REVOLUTION COUNTERS



Small flange mount, mechanical totalizers with large figure size. External and internal parts are corrosion-resistant for trouble-free and accurate performance indoors and out. Easy-to-see, 5-digit display feature high-contrast white-on-black numerals and stainless steel drive shaft. 7272 series is available with left- or right-hand ratchet drives.

RATCHET DRIVE

Mfg. Part No.	Description	Stock No.	Price Each
0727215-001	Left-Hand, Clockwise	81F2971	134.59
0727225-001	Left-Hand, Counter Clockwise	81F2972	133.05
0727245-001	Right-Hand, Clockwise	81F2974	140.78
727235-001	Right-Hand, Counter Clockwise	81F2973	125.31

(52078)

MODEL E6 LCD TALLY COUNTER



- One hand operation
- Counts up to 9999
- Water resistant to 9' (3m)

- Bold display
- Replaceable battery
- Power off button extends battery life

Can be worn on the forefinger allowing you to use your hands for other functions. Features adjustable band, rugged case and programmable beeper. Can be used in general counting applications including inventory, traffic and attendance as well as counting laps in swimming and track. Battery life: 2 years if left on continuously. Dimensions: 1.4D x 1.1W x 0.5"D (35 x 27 x 14).

Mfg. Part No.	No. of Digits	Digit Height (in.)	Reset	Stock No.	Price Each	
					1-14	15-24
E6-1804	4	0.2	Pushbutton	14M8977	21.27	20.37

(89422)

18 SERIES MECHANICAL TALLY COUNTERS



12-1804

13-1804

Mfg. part no. 12-1804 hand-operated reset counter has a pushbutton actuator. Case: chrome-plated steel. Mfg. part no. 13-1804 is the same, but with mounting base.

Mfg. Part No.	Description	Stock No.	Price Each	
			1-14	15-24
12-1804	Hand Tally	01C5544	14.14	13.53
13-1804	Desk Tally, 0.14 dia. Mounting Holes	92F2790	16.09	15.40

(2781)

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(116883)

COUNTERS – TALLY • VOLTS MINI • CURRENT 1/8 DIN

E2 AND E3 LCD TALLY COUNTERS

- Audible beep at every count with the option of switching to off for silent operation
- Large LCD display
- No mechanical parts to wear out
- Large rubber buttons for comfort of use
- Lightweight with carrying cord

Electronic version of mechanical hand tally counter offers Add Only or Add/Subtract models. Counts are input using large buttons, a single "Count" button for the add only, a "+" and "-" for the add/subtract. 4-digit LCD display with 0.35" characters. To reset, press On/Off/reset button for 3 seconds. Operates on one 1.5V type AG10 battery (included).



Mfg. Part No.	Description	Stock No.	Price Each		
			1-14	15-24	25-49
E2-1804	Electronic hand tally, add only	31K1709	19.04	18.64	18.24
E3-1804	Electronic hand tally, add/subtract	31K1710	19.76	19.34	18.93

(89491)

MODEL CUB4V DC VOLTAGE METER

- Four selectable DC voltage ranges
- Fits DIN standard cut-out 2.68 x 1.30" (68 x 33mm)
- NEMA 4X/IP65 sealed front panel bezel
- 9 to 28VDC powered
- Auto zeroing circuit and built-in scaling provided



3½-digit LCD, positive reflective display with 0.6" high digits and a DIP switch selectable decimal point. Wire connections are made with screw clamp type terminals. LCD negative transmissive with yellow/green or red backlighting also available; go online or call.

Mfg. Part No.	DC Selectable Voltage Ranges	Stock No.	Price Each
CUB4V-000	0-199.9mV, 1.999V, 19.99V, 199.9V	17M6444	95.00

(84359)

MODEL DP5 ½ DIN ANALOG INPUT PANEL METERS

- 5-digit 0.56" high LED display
- Programmable function keys/user input
- 9-digit totalizer (integrator) with batching
- NEMA 4X/IP65 sealed front bezel



INPUT SPECIFICATIONS

Model	Input Range
DP5D0010	±200µADC, ±2mADC, ±20mADC, ±200mADC, ±2ADC ±200mVDC, ±2VDC, ±20VDC, ±300VDC
DP5P0000	20mA (-2 to 26mA) 10VDC (-1 to 13VDC)

Meters provide a MAX and MIN reading memory with programmable capture time which is used to prevent detection of false max or min readings which may occur during start-up or unusual process events. The signal totalizer (integrator) can be used to compute a time-input product that can be used to provide a readout of totalized flow, calculate service intervals of motors or pumps, etc. The totalizer can also accumulate batch weighing operations. Once the meters have been initially configured, the parameter list may be locked out from further modification.

Mfg. Part No.	Meter Function	Supply Voltage	Stock No.	Price Each
DP5D0010	Current/Voltage	11-36VDC, 24VAC	20M0569	239.00
DP5P0000	Process	85-250VAC	16M3716	201.00

(94366)

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(116882)



1/8 DIN FALCON SERIES DIGITAL PANEL METERS



The Falcon series indicators are premium quality meters for industrial applications. These 1/8 DIN (92mm x 45mm) meters require only 2.94" (74.7mm) behind panel. All units feature jumper selectable decimal points, display scaling and 120VAC power. The Falcon has 0.56" bright red LED display for high visibility. Mfg. part nos. beginning with F35- are 3½-digit; F45- are 4½-digit. Screw terminal connector for easy wiring. Optional excitation output, 220VAC or 9-32VDC available; go online or call.



AC VOLTAGE INDICATORS (AC AND AC TRUE RMS)

Mfg. Part No.	Input	Stock No.	Price Each
F35-1-31-0	200mV	93F9500	154.26
F35-1-32-0	2V	93F9501	154.26
F35-1-33-0	20V	93F9502	154.26
F35-1-34-0	200V	93F9503	154.26
F35-1-51-0	200mV True RMS	93F9511	187.84
F35-1-52-0	2V True RMS	93F9512	187.84
F35-1-53-0	20V True RMS	93F9513	187.84
F35-1-54-0	200V True RMS	93F9514	187.84
F35-1-55-0	750V True RMS	93F9515	187.83
F45-1-33-0	20V	95F5660	277.16
F45-1-34-0	200V	95F5561	249.35

DC VOLTAGE INDICATORS

Mfg. Part No.	Input	Stock No.	Price Each
F35-1-11-0	200mV	93F9480	115.50
F35-1-12-0	2V	93F9481	115.50
F35-1-13-0	20V	93F9482	115.50
F35-1-14-0	200V	93F9483	115.50
F45-1-11-0	200mV	95F5529	210.59
F45-1-12-0	2V	95F5530	210.59
F45-1-13-0	20V	95F5531	210.59
F45-1-14-0	200V	95F5532	210.59
H345215000	750V	47M7162	277.27

AC CURRENT INDICATORS

Mfg. Part No.	Input	Stock No.	Price Each
F35-1-45-0	2A	93F9488	154.26
F35-1-46-0†	5A	93F9499	154.26
F351-66-0†	5A True RMS	93F9510	187.84

† Scale display, requires use with Simpson current transformer for higher AC current levels; go online or call.

DC CURRENT INDICATORS

Mfg. Part No.	Input	Stock No.	Price Each
F35-1-11-0‡	200mV	93F9480	115.50
F35-1-21-0	200µA	93F9475	115.50
F35-1-22-0	2mA	93F9476	115.50
F35-1-23-0	20mA	93F9477	115.50
F35-1-24-0	200mA	93F9478	115.50
F35-1-25-0	2A	93F9479	115.50
F35-1-26-0	5A	91B3594	115.50
F45-1-11-0‡	200mV	95F5529	210.59
F45-1-22-0	2mA	95F5535	210.59
F45-1-23-0	20mA	95F5536	210.59
F45-1-25-0	2A	95F5538	210.59

‡ Scale display, requires use with Simpson external shunt for higher DC current levels; go online or call.

FREQUENCY INDICATORS

Mfg. Part No.	Input	Stock No.	Price Each
F35-1-91-0	20-199.9Hz RMS	91F9700	129.88
F35-1-92-0	20-1999Hz RMS	91F9701	129.88

TEMPERATURE INDICATORS

Mfg. Part No.	Input	Stock No.	Price Each
F45-1-80-0-C	J T/C	95F5692	234.07
F45-1-81-0-F	K T/C	13C3536	210.59
F45-1-810C	K T/C	23C1953	210.59
F45-1-90-0	RTD PT 100	95F5551	206.50

DC PROCESS INDICATORS

Mfg. Part No.	Input	Stock No.	Price Each
F35-1-71-0	4-20mA	93F9485	150.65
F35-1-73-0	0-10V	93F9487	150.65
F35-3-71-0*	4-20mA	52F5891	222.99
F45-1-71-0	4-20mA	95F5539	210.59
F45-1-73-0	0-10V	95F5541	210.59

DC PROCESS INDICATORS WITH 24VDC EXCITATION OUTPUT

Mfg. Part No.	Input	Stock No.	Price Each
F45-1-71-2	4-20mA	95F5689	270.38

* 9-32VDC power. (16728)

DC INPUT 1/8 DIN • LOOP POWERED 1/8 DIN • MULTI-FUNCTION 1/8 DIN

1/8 DIN BIG-DIGIT PANEL METERS



- 3 1/2 Digits with 0.8" LED or 0.98" LCD for Easy, Precise Viewing
- Requires Only 1.37" (35) Depth Behind Panel

Universal panel meters with large LCD or red or green LED displays for voltage or current. Standard 1/8 DIN industry panel cutout. Snap-in panel mount design for easy installation and secure mounting. Fit panels up to 0.08" thick. Standard 4-20mA input is displayed as 0-100.0. Decimal point selectable by solder jumpers. Overrange and polarity indication. Surface mount design. DCV power: +5VDC. DCA power: loop (4-20mA DC).

Mfg. Part No.	Display	Input	Stock No.	Price Each
1801111	Red LED	2VDC	83F8113	83.00
1802111	Green LED	2VDC	83F8114	83.00
1803111	LCD	2VDC	83F8115	83.00
180500	LCD	4-20mA DC	83F8116	105.00

(32678)

2800 SERIES DIGITAL PANEL METERS



2800 series digital panel meters offer high accuracy and a two piece edge connector for easy wiring of the input signal. Fits 1.682" x 3.662" cutout. 3 1/2-digit LED display. Jumper selectable decimal points.

DC VOLTAGE INDICATORS

Mfg. Part No.	Input	Input	Stock No.	Price Each
24500 2865	200mV	120VAC	55F1688	178.00
24501 2865	2V	120VAC	55F1689	181.05
24502 2865	20V	120VAC	55F1690	181.05
24503 2865	200V	120VAC	55F1691	178.00
24600 2866	200mV	5VDC	55F1697	161.30
24601 2866	2V	5VDC	55F1698	161.30
24602 2866	20V	5VDC	55F1699	161.30
24603 2866	200V	5VDC	55F1700	161.30

AC VOLTAGE INDICATOR

24633 2869	200V	120VAC	89F3533	294.46
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DC CURRENT INDICATORS

24504 2865	20uA	120VAC	55F1692	181.05
24505 2865	200uA	120VAC	55F1693	178.00
24506 2865	2mA	120VAC	55F1694	178.00
24507 2865	20mA	120VAC	55F1695	178.00
24508 2865	200mA	120VAC	55F1696	208.82

(16734)

2000 SERIES 1/8 DIN LOOP-POWERED METER



Process meters similar to 2000 series DC input models except self-powered from 4-20mA control loop. Accuracy: ±0.1% f.s. + 1 count. Conversion rate: 2.5 per second. Operating temperature range: -40° to +65°C. User-selectable decimal point.

Mfg. Part No.	Input Range	Loop Drop Maximum	Stock No.	Price Each
2013-3019-00-U	00.0 for 4mA Inputs	2.2V	51F3596	168.75

(3407)

Go online for 400,000+ datasheets.

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(116881)

MODULAR DIGITAL PANEL METERS



BD35, BD40, BD60 Displays

BP Power Supply Card

BQ Input Card

- 1/8 DIN, 3.5, 4 or 6 digit digital indicators and controllers
- Selectable display color on DB40: red, amber or green
- Dual (analog/digital) backlight LCD display on DB60
- Modular design facilitates many different inputs/outputs
- Rugged IP67 / NEMA4x splash-proof front cover
- AC/DC voltage/current, frequency, tachometer, counter, temperature, rate and resistance inputs

- T_{True} AC current and voltage measurements
- Microprocessor-based design
- Up to four optional alarm outputs
- Optional analog, excitation, serial output
- MODBUS, JBUS communication protocol

UDM series uP-based indicators/controllers feature a rugged 1/8 DIN housing, rated IP67 / NEMA4x. The UDM40's unique display can be programmed in one of three colors (red, amber or green), or it can be programmed to display in a different color should an alarm setting be eclipsed, (i.e., green: OK, amber: caution, red: trouble.) Indicator's features include min/max recording, data hold, display/input range scaling and password protection. Indicators become controllers by inserting one or more of the output cards, listed separately at the bottom of this page. Controllers feature up to four alarms, with adjustable hysteresis, delay and high/low input fault alarms. All parameter settings are controlled by the front keypad via easy-to-use menu-driven format. 120VAC supply, other voltages are available. When a power supply card and multirange configurable input card are slid into a BD type display, a UDM indicator is the end result. Indicators become controllers by inserting one of the output cards, listed separately at the bottom of this page.

DISPLAYS - A REQUIRED COMPONENT

Mfg. Part No.	Description	Max. Value	Stock No.	Price Each
				1-4
● BD35	3.5 digit, red display	1999	27K4038	113.52
BD40	4.0 digit, 3-color display	9999	27K4039	173.12

POWER SUPPLY CARDS - A REQUIRED COMPONENT

Mfg. Part No.	Description	Supply Voltage Range	Stock No.	Price Each
				1-4
BPH	Universal Supply Card	90-260 VAC/DC	27K4045	56.76
BPL	Universal Supply Card	18-60 VAC/DC	27K4046	84.20

PRE-CALIBRATED INPUT CARDS - A REQUIRED COMPONENT

Mfg. Part No.	Description	Input Range	Stock No.	Price Each
				1-4
● BQHSX	High signal input	-200mA to +5A -20V to +500V AC/DC	05M6312	130.55
BQLSX	Low signal output	-200uA to +20mA -200mV to +20V AC/DC	27K4049	130.55
● BQLSE	Low signal input with excitation output	-200uA to +20mA -200mV to +20V AC/DC	05M3950	176.91
BQTRX	Ohm/temperature input	0-20KΩ, J, K, E, S & T RTDs Pt100, Pt250, Pt500, Pt1000, & Ni100 RTDs	27K4050	158.93

(84547)

LAUREATE™ CURRENT, VOLTAGE, STRAIN GAGE AND LOAD CELL PANEL METERS



- 0.2, 2, 20, 200, 300V and 600V ranges
- 2, 20, 200mA and 5A ranges
- 4 1/2 digit resolution
- 1GΩ input impedance on 200mV and 2V scales
- Field scalable from front panel to ±99,999 for use with external current shunts
- Up to 60 conversions per second
- Selectable adaptive digital filter

Supply voltage: 95-240VAC ±10% and 95-300VDC ±10%, or 10-34VAC and 10-48VDC. Concurrent slope conversion allows up to 60 conversions per second while integrating the signal over a full power cycle. Red or green LEDs. 1/8 DIN case meets NEMA 4X (IP65) standards. All ranges factory calibrated. 99.99% full scale accuracy. Peak value display. Selectable fixed zero or active least significant digit. 5, 10 or 24VDC sensor excitation supply. External controls for reset, meter hold and decimal points. Panel meters have a DC signal conditioner board, high accuracy, high read rate and isolated output options. Can be used with external shunts. Selectable signal filtering: unfiltered selection, batch average filter or adaptive moving average filter which provides a choice of 8 time constants from 80ms to 9.6s. Choice of isolated plug-in options for control and computer interface: dual relays, analog output, serial communications, parallel BCD output, low voltage AC and DC power available; go online or call. UL listed, CE certified.

AC AMMETERS

Mfg. Part No.	Signal Input Current	Output Type	Stock No.	Price Each
L2000ORMA4	5.000 A	...	84K0376	245.00
L2010ORMA4	5.000 A	Relay	84K0394	325.00

▶ CONTINUED ▶

MULTI-FUNCTION 1/8 DIN

LAUREATE™ CURRENT, VOLTAGE, STRAIN GAGE AND LOAD CELL PANEL METERS (CONT.)

AC MILLIVOLTMETERS

Mfg. Part No.	Signal Input Current	Output Type	Stock No.	Price Each
L20000RMV1	200.00 mV	...	84K0377	245.00
L20100RMV1	200.00 mV	Relay	84K0395	325.00

AC VOLTMETERS

Mfg. Part No.	Signal Input Current	Output Type	Stock No.	Price Each
L20000RMV4	200.00 V	...	84K0378	245.00
L20100RMV4	200.00 V	Relay	84K0396	325.00
L20000RMV5	600.0 V	...	84K0379	245.00
L20100RMV5	600.0 V	Relay	84K0397	325.00

DC MILLIAMMETERS

Mfg. Part No.	Signal Input Current	Output Type	Stock No.	Price Each
L20000DCA1	± 2.0000 mA	...	84K0367	210.00
L20100DCA1	± 2.0000 mA	Relay	84K0385	290.00
L20000DCA3	± 200.00 mA	...	84K0368	210.00
L20100DCA3	± 200.00 mA	Relay	84K0386	290.00

DC AMMETERS

L20000DCA4	± 5.000 A	...	84K0369	210.00
L20100DCA4	± 5.000 A	Relay	84K0387	290.00

DC MILLIVOLTMETERS

Mfg. Part No.	Signal Input Voltage	Output Type	Stock No.	Price Each
L20000DCV1	± 200.00 mV	...	84K0370	210.00
L20100DCV1	± 200.00 mV	Relay	84K0388	290.00

DC VOLTMETERS

L20000DCV2	± 2.0000 V	...	84K0371	210.00
L20100DCV2	± 2.0000 V	Relay	84K0389	290.00
L20000DCV3	± 20.000 V	...	84K0372	210.00
L20100DCV3	± 20.000 V	Relay	84K0390	300.00
L20000DCV4	± 200.00 V	...	84K0373	210.00
L20100DCV4	± 200.00 V	Relay	84K0391	290.00
L20000DCV5	± 600.0 V	...	84K0374	210.00
L20100DCV5	± 600.0 V	Relay	84K0392	290.00

DC STRAIN GAGE DC MILLIVOLTMETERS WITH SCALABLE DISPLAY

L20000SG	0-200 mV	...	84K0381	210.00
L20100SG	0-200 mV	Relay	84K0398	290.00

DC LOAD CELL MILLIVOLTMETERS

L20000WM	0-20 mV	...	84K0383	275.00
L20100WM	0-20 mV	Relay	84K0399	345.00

DC PROCESS CONTROLLERS

Mfg. Part No.	Signal Input Current	Scalable Display	Retransmit Input	Display Alarm Type	Stock No.	Price Each
L20000P	4-20 mA	0-100.0	...	...	84K0375	210.00
L20010P	4-20 mA	0-100.0	Isolated 0-20mA and 0-10V	...	84K0384	300.00
L20100P	4-20 mA	0-100.0	...	Relay	84K0393	290.00
L20110P	4-20 mA	0-100.0	Isolated 0-20mA and 0-10V	Relay	84K0400	380.00

CABLE ACCESSORIES

Mfg. part no. CBL01 connects the meter directly to a PC RS232 port. Mfg. part no. CBL02 is used on computers without an RS232 port but have a USB port.

Mfg. Part No.	Cable Length (ft.)	Connector Type A	Connector Type B	Stock No.	Price Each
CBL01	7	DB9 Male	RJ11	87K0754	19.00
CBL02	2	DB9 Male	3 Terminal Plug	87K0755	39.00

(88554)

ILD SERIES BIG DISPLAYS AND CONTROLLERS



The Big display features big bright 2.3" (57.2) or 4.0" (101.6) LED digits that can be programmed to change colors between red, amber and green at any set point or alarm point. The changes in color are quickly seen from a distance and equipment operators can intuitively react to changing conditions. The Big display offers a wide assortment of signal inputs for process (DC) voltage and current, thermocouples, RTDs, strain gage, AC voltage and current, and frequency/pulse. The ethernet Big display can display data transmitted via serial or TCP/IP communication from a computer or from other devices which transmit ASCII data via RS-232, RS-422 or RS-485. Optional outputs include SPDT relays for alarm or full PID control, isolated analog output, and RS-232/422/485 serial communications and MODBUS. The Big display can be mounted flush in a panel or surface mounted with the included brackets and features full NEMA 4/IP65 protection. Available with 2 output relays; go online or call.

➔ CONTINUED ➔

ILD SERIES BIG DISPLAYS AND CONTROLLERS (CONT.)

Mfg. Part No.	Description	Stock No.	Price Each
ILD24-UTP/N	2.25" 4-digit Universal Temperature/Process Monitor	02E2615	914.25
ILD24-FP/N	2.25" 4-digit Frequency/Pulse Totalize Input	02E2611	906.30
ILD44-UTP/N	4" 4-digit Universal Temperature/Process Monitor	02E2620	1144.25
ILD44-SP/N	4" 4-digit Strain/Process Monitor	02E2618	1144.25

(73305)

PAX LITE DIGITAL PANEL METERS



- NEMA 4X/IP65 sealed front bezel
- Selectable decimal points
- Over-range indication
- 0.56" (14.2mm) LED readout



MODEL PAXLPV — PAX LITE PROCESS VOLTMETER

Wide span and offset scaling range (covers 1-5VDC process input). 24VDC excitation supply. Optional custom units overlay with backlight available; go online or call.

Mfg. Part No.	No. of Digits	Supply Voltage	Signal Input	Stock No.	Price Each
PAXLPV00	3½	85-250VAC	Selectable Voltage	84K7502	149.00

MODEL PAXLCL — PAX LITE CURRENT LOOP METER

Dual range, 4-20mA or 10-50mA. 24VDC excitation supply. Wide span and offset scaling range.

PAXLCL00	3½	85-250VAC	Selectable Current	84K7495	149.00
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MODEL PAXLI — PAX LITE CURRENT METERS

Multi-range units cover 199.9µA to 1.999A. Built-in scaling provisions. Auto zeroing circuits. Optional custom units overlay with backlight available; go online or call.

PAXLIA00	3½	115/230VAC	Selectable AC Current	84K7499	133.00
PAXLID00	3½	115/230VAC	Selectable DC Current	84K7500	105.00

MODEL PAXLIT — PAX LITE 5AMP AC CURRENT METER

5A AC current input. Built-in scaling provisions. Auto zeroing circuits. Optional custom units overlay with backlight available; go online or call.

PAXLIT00	3½	115/230VAC	Current	84K7501	149.00
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MODEL PAXLHV — PAX LITE AC VOLTAGE MONITOR

Auto zeroing circuit. Up to 600VAC max. Optional custom units overlay with backlight available; go online or call.

PAXLHV00	3	115/230VAC	Selectable Voltage	84K7498	149.00
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MODEL PAXLV — PAX LITE VOLTMETER

Multi-range units cover 199.9mV (AC or DC), 1.999 to 300V (AC or DC). Built-in scaling provisions. Auto zeroing circuits. Optional custom units overlay with backlight available; go online or call.

PAXLV000	3½	115/230VAC	Selectable DC Voltage	84K7507	105.00
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MODEL PAXLSG — PAX LITE STRAIN GAGE METER/MILLIVOLT METER

High sensitivity, 10mV full scale. Wide range gain and offset adjustments. Built-in excitation 5 or 10VDC. Applicable as regular millivolt indicator (single-ended or differential input). Optional custom units overlay with backlight available; go online or call.

PAXLSG00	3½	85-250VAC	Strain Gage	84K7505	211.00
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MODEL PAXLTC — PAX LITE THERMOCOUPLE METER

Programmable TC type (T, E, J, K, R, S, B, N or mV scale). Conforms to ITS-90 standards. Selectable °F or °C. Programmable temperature offset. Programmable digital filtering enhances stability. Peak/valley (Hi/Lo reading) memory. Custom units overlay with backlight available; go online or call.

PAXLTC00	4	85-250VAC	Selectable Thermocouple	84K7506	186.00
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MODEL PAXLRT — PAX LITE RTD METER

Accepts standard 3-wire 100Ω RTD sensors (alpha = 0.00385 or alpha = 0.00392). Conforms to ITS-90 standards. Selectable °F or °C. Programmable temperature offset. Programmable digital filtering. Peak/valley (Hi/Lo reading) memory. Custom units overlay with backlight available; go online or call.

PAXLRT00	4	85-250VAC	Selectable Thermocouple and RTD	84K7503	186.00
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MODEL PAXLC — PAX LITE COUNTERS

Available in 6- or 8-digit versions. Accepts input count rates up to 25KHz. Bi-directional counting. Remote reset capability. Display store. Programmable scale factor.

PAXLC600	6	115/230VAC	Pulse	84K7496	143.00
PAXLC800	8	115/230VAC	Pulse	84K7497	154.00

MODEL PAXLR — PAX LITE RATE METER

Input rates up to 25KHz. Accepts a wide variety of sensors. Programmable scaling. Programmable update time.

PAXLR000	6	115/230VAC	Pulse	84K7504	143.00
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(88717)

PAX ½ DIN DIGITAL PANEL METERS



- Process, voltage, current, temperature and strain gage inputs
- 5- or 6-digit variable intensity 0.56" red sunlight readable display
- 16 point scaling for non-linear processes
- Four setpoint alarm outputs, communication and bus capabilities and retransmitted analog output (with option card)
- NEMA 4X/IP65 sealed front bezel



➔ CONTINUED ➔

MULTI-FUNCTION 1/8 DIN

PAX 1/8 DIN DIGITAL PANEL METERS (CONT.)

PAX analog panel meters offer many features and performance capabilities to suit a wide range of industrial applications. Provides a MAX and MIN reading memory with programmable capture time. The signal totalizer (integrator) can be used to compute a time-input product. This can be used to provide a readout of totalized flow, calculate service intervals of motors or pumps, etc. The totalizer can also accumulate batch weighing options. Once the meters have been initially configured, the user interface may be completely protected leaving only the setpoints accessible. Accept digital inputs from a variety of sources including switch contacts, outputs from CMOS or TTL circuits, magnetic pickups and all standard RLC sensors. Can accept directional, uni-directional or quadrature signals simultaneously. Maximum input signal varies up to 34KHz depending on the count mode and function configurations programmed. Each input signal can be independently scaled to various process values.

INPUT SPECIFICATIONS

Model PAXD Universal DC Input	±200µADC, ±2mADC, ±20mADC, ±200mADC, ±2ADC, ±200mVDC, ±2mVDC, ±20VDC, ±300VDC, 100Ω, 1000Ω, 10kΩ
Model PAXP Process Input	20mA (-2 to 26mA), 10VDC (-1 to 13VDC)
Model PAXH AC True RMS Volt and Current	200mV, 2V, 20V, 300V, 200µA, 2mA, 20mA, 200mA, 5A
Model PAXS Strain Gage Input	±24mVDC, ±240mVDC
Model PAXT Thermocouple Input	T (-200°C to +400°C, -270°C to -200°C), E (-200°C to +871°C, -270°C to -200°C) J (-200°C to +760°), K (-200°C to +1372°C, -270°C to -200°C) R (-50°C to +1768°C), S (-50°C to +1768°C), B (+100°C to +300°C, +300°C to +1820°C), N (-200°C to +1300°C, -270°C to -200°C) C (W5/AW26) (0 to +1215°C)
Model PAXT RTD Input	100Ω Pt, alpha = 0.00385 (-200°C to +850°C) 100Ω Pt, alpha = 0.03919 (-200°C to +850°C) 120Ω Nickel, alpha = 0.00672 (-80°C to +260°C) 10Ω Copper, alpha = 0.00427 (-100°C to +260°C)
Model PAXT Custom Range Input	-10 to 65mV, 0 to 400Ω (high range), 0-25Ω (low range)

MODEL PAXD — UNIVERSAL DC INPUT

Selectable 24Vm 2C, 1.75mA excitation output

Mfg. Part No.	No. of Digits	Supply Voltage	Signal Input	Stock No.	Price Each
PAXD0000	5	85-250VAC	Selectable DC Current and Voltage	84K7490	254.00
PAXD0010	5	11-36VDC/24VAC	Selectable DC Current and Voltage	84K7491	282.00

MODEL PAXP — PROCESS INPUT

Dual range input. 24VDC transmitter power.

PAXP0000	5	85-250VAC	Selectable Current and Voltage	84K7508	243.00
PAXP0010	5	11-36VDC/24VAC	Selectable Current and Voltage	84K7509	270.00

MODEL PAXH — AC TRUE RMS VOLT AND CURRENT

Accepts AC or DC coupled inputs. Three-way isolation: power, input and outputs.

PAXH0000	5	85-250VAC	Selectable AC Current and Voltage	84K7492	317.00
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MODEL PAXS — STRAIN GAGE INPUT

Selectable 5VDC or 10VDC bridge excitation. Programmable auto-zero tracking.

PAXS0000	5	85-250VAC	Strain Gage	84K7512	360.00
PAXS0010	5	11-36VDC/24VAC	Strain Gage	84K7513	388.00

MODEL PAXT — THERMOCOUPLE AND RTD INPUT

Conforms to ITS-90 standards. Custom scaling for non-standard probes. Time-temperature integrator.

PAXT0000	5	85-250VAC	Selectable Thermocouple and RTD	84K7516	243.00
PAXT0010	5	11-36VDC/24VAC	Selectable Thermocouple and RTD	84K7517	270.00

MODEL PAXC — 1/8 DIN COUNTERS

Dual count quad inputs. Up to 3 count displays. Setpoint alarm outputs (with plug-in card).

PAXC0000	6	85-250VAC	Pulse	84K7488	211.00
PAXC0010	6	11-36VDC/24VAC	Pulse	84K7489	239.00

MODEL PAXR — 1/8 DIN RATE METERS

Rate indication. Minimum/maximum rate displays. Setpoint alarm outputs (with plug-in card).

PAXR0000	6	85-250VAC	Pulse	84K7510	211.00
PAXR0010	6	11-36VDC/24VAC	Pulse	84K7511	239.00

MODEL PAXI — 1/8 DIN COUNTER/RATE METERS

10 point scaling (for non-linear processes). Four setpoint alarm outputs, retransmitted analog output and communication and bus capabilities (with option cards).

PAXI0000	6	85-250VAC	Pulse	84K7493	264.00
PAXI0010	6	11-36VDC/24VAC	Pulse	84K7494	292.00

MODEL PAX 1/8 DIN PRESET TIMER (PAXTM) AND REAL-TIME CLOCK (PAXCK)

Both can function as an elapsed timer or preset timer, while the PAXCK also offers real-time clock with date capability. Both units can function as an elapsed time indicator. By using two separate signal inputs and 23 selectable timer ranges, the meters can be programmed to meet most any timing application. With the addition of a plug-in setpoint card, they can easily become a dual or quad output preset timer

PAXCK000	6	85-250VAC	Pulse	84K7486	211.00
PAXCK010	6	11-36VDC/24VAC	Pulse	84K7487	239.00
PAXTM000	6	85-250VAC	Pulse	84K7514	169.00
PAXTM010	6	11-36VDC/24VAC	Pulse	84K7515	197.00

OPTIONAL PLUG-IN CARDS

Mfg. Part No.	Description	Stock No.	Price Each
PAXCDS10	Dual Setpoint Relay Output Card	84K7483	37.00
PAXCDS20	Quad Setpoint Relay Output Card	84K7484	48.00
PAXCDS40	Quad Setpoint Sourcing Open Collector Output Card	84K7485	37.00
PAXCDC10	RS485 Serial Communications Output Card with Terminal Block	84K7477	48.00
PAXCDC20	RS232 Serial Communications Output Card with Terminal Block	84K7478	48.00
PAXCDC30	DeviceNet Communications Card	84K7479	116.00

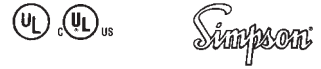
➔ CONTINUED ➔

PAX 1/8 DIN DIGITAL PANEL METERS (CONT.)

Mfg. Part No.	Description	Stock No.	Price Each
PAXCDC40	Modbus Communications Card	84K7480	58.00
PAXCDC50	Profibus-DP Communications Card	84K7481	143.00
PAXCDL10	Analog Output Card	84K7482	74.00

(88660)

HAWK III MICROPROCESSOR CONTROLLERS



- 1/8 DIN and 3.24" Depth Behind Panel
- 7 Segment, Bright Red 3 1/2 or 4 1/2 Digit Display
- Green LED Display Available At No Additional Charge
- 120VAC Power, Optional 9-32VDC Power
- Versatile Configurations to Suit Your Applications
- All Parameters Set From Front Panel
- Screw Terminal Connectors for Easy Installation
- Peak/Valley and Password Lockout
- Optional Output and Excitation Range
- Optional One, Two or Four 5 Amp Relays
- Model H335 Indicates 3 1/2-Digit, Model H340 Indicates 4-Digit, Model H345 Indicates 4 1/2-Digit

Many other ranges and configurations available. Go online or call.

DC VOLTAGE CONTROLLERS

Mfg. Part No.	Input	Outputs/Relays	Stock No.	Price Each
H3351-11-000	200mV	None	90C1349	165.92
H3351-13-000	20V	None	90C1354	165.92
H3351-11-010	200mV	One	90C1350	210.46
H3351-12-010	2V	One	90C1352	215.94
H3351-13-010	20V	One	90C1355	210.46
H3351-14-010	200V	One	90C1357	210.46
H3351-11-0-2-0	200mV	Two	23M9665	232.56
H3351-12-0-2-0	2V	Two	90C1353	232.56
H3351-13-020	20V	Two	90C1356	232.56
H3351-14-020	200V	Two	90C1358	238.62
H3351-15-0-2-0	600V	Two	90C1359	232.56

DC CURRENT CONTROLLERS

For higher DC current levels use Simpson external shunt and scale display.

H3351-21-020	200µA	Two	05J2192	238.62
H3351-22-020	2mA	Two	05J2193	232.56

DC PROCESS CONTROLLERS

H3351-71-000	4-20mA	None	90C1365	165.92
H3351-71-010	4-20mA	One	90C1366	215.94
H3351-71-020	4-20mA	Two	90C1367	232.56
H3452-71-640	4-20mA	RS485/Four	90C1378	483.85
H345-2-71-1-4-0	4-20mA	4-20mA/Four	90C1377	410.55

AC VOLTAGE CONTROLLERS

H3351-34-010	200V	One	90C1360	255.70
H3351-34-020	200V	Two	90C1361	271.32

AC CURRENT CONTROLLERS

For higher AC current levels, use with Simpson® current transformers.

H3351-46-000	5A	None	90C1362	204.68
H3351-46-010	5A	One	90C1363	249.22
H3351-46-020	5A	Two	02M2070	271.32
H3452-46-040	5A	Four	90C1372	421.23

AC TRMS CONTROLLERS

H3452-53-040	20V TRMS	Four	90C1373	467.62
H3452-65-120	2A TRMS	4-20mA/Two	90C1375	478.79
H345-2-66-1-2-0	5A TRMS	4-20mA/Two	90C1376	466.65

RESISTANCE CONTROLLERS

H3351-81-010	200 ohm	One	90C1368	282.88
H3351-82-010	2 Kohm	One	90C1369	282.88
H3351-83-010	20 Kohm	One	90C1370	282.88
H3351-84-010	200 Kohm	One	90C1371	290.24

TEMPERATURE CONTROLLERS

H3401-91-000	Type J(C/F)	None	05J2195	238.62
H3401-91-020	Type J(C/F)	Two	05J2196	306.98
H3401-92-020	Type K(C/F)	Two	05J2197	306.98
H3401-93-020	RTD PT 100	Two	05J2198	318.37

(2444)

FIND IT • BUY IT • GET IT • DONE

"It's easy to do business with Newark online or by phone."

(116883)

MULTI-FUNCTION 1/8 DIN • PROCESS 1/8 DIN

NEMA 4X COVER



NEMA-4 (IP-65) splash-proof lens cover fits all Simpson® 1/8 DIN controllers and indicators, providing protection against dust, falling dirt, salt spray, dripping water, and non-corrosive liquids. 4.30W x 2.41H x 0.96"D (109.22mm x 61.21mm x 24.38mm).

Mfg. Part No.	Description	Stock No.	Price Each
45003	NEMA-4 Lens Cover	92F4277	47.30

(42170)

S628 SERIES "AWESOME" DIGITAL DISPLAY PANEL METERS



1/8 DIN panel meters feature the ability to change display color when the monitored data exceed a preset limit, providing operators with instant visual alert to changes in application status. Large, super-bright 5-digit 0.71" LED display can also be set to a constant red or green color. Fully programmable feature set includes minimum and maximum value capture and programmable alarms. 2 alarm presets, each with SPDT relay and transistor output. ±0.1% of span accuracy. Power source: 90 to 264VAC, 50/60Hz.



DC PROCESS METERS

Input for popular current and voltage standards.

Mfg. Part No.	Description	Stock No.	Price Each
S628-21000	SPDT Relay and Transistor Output	48F2137	365.74

DC VOLTS/AMPS METERS

Fully scalable, wide-range current and voltage input.

S628-51000	SPDT Relay and Transistor Output	48F2143	364.80
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AC VOLTS/AMPS METERS

Fully scalable, wide-range current and voltage input.

S628-31000	SPDT Relay and Transistor Output	48F2146	420.00
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TEMPERATURE METERS

Input for B, J, K, N, S, and T thermocouples and 3- and 4-wire RTD.

S628-11000	SPDT Relay and Transistor Output	48F2140	373.20
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(33798)

SENSOTEC MODEL GM SINGLE-CHANNEL SIGNAL CONDITIONERS

Features:

- Versatile full function signal conditioner, amplifier, and power supply
- Large 0.56" readout display size
- Short circuit protected
- 20,000 count resolution
- 14+ bit accuracy (20,000 steps)

Specifications:

- 4 1/2 digit LED display
- ±0.03% accuracy
- Supply voltage: 115VAC
- Operating temperature range: 32°F to 130°F
- Panel mount bracket included
- Bench mount bracket and NEMA 4 splash cover also available; order separately below



AE213 (shown with Bench Mount Bracket)

SIGNAL CONDITIONERS

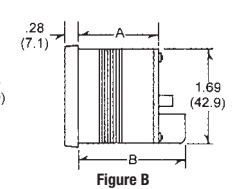
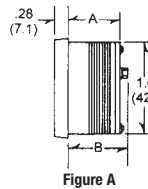
Mfg. Part No.	Description	Input (mV/V)	Output (V)	Stock No.	Price Each
AE213	Model GM	0.5-5	±5	27M1753	713.01
AE213.58C	Model GM w/Peak Hold	0.5-5	±5	27M1754	749.26

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
AA923	NEMA-4 Splash proof front cover	29M9214	76.55
AA924	Bench mount bracket	29M9215	37.70

(90235)

2000 SERIES UNIVERSAL SELECTABLE METERS



- High-Impact Polycarbonate Case
- NEMA 4, 12, and IPC 55 (Splash-Proof / Hose Down) Standards
- DIN Industry Standard Cutout

Universal selectable true RMS AC voltage and current model or Process DC voltage/DC current meters allow you to select different inputs, scale in engineering units, select decimal point and calibrate from the rear of the instrument without opening the case. Surface mount and special design features result in unit that is only 1" deep behind the panel (1 1/2" for mfg. part no. 2153-3419-04) and is splash- and hose-down proof. Screw terminals eliminate added cost of plug-in screw terminals or solder connectors. Operating temperature: -20° to +60°C. Over-range indication.

DIMENSIONS

Input Type	Figure	A	B
AC	A	0.99" (25.1)	1.15" (29.2)
DC	A	0.99" (25.1)	1.15" (29.2)
4-20mA Process	B	1.49" (37.8)	2.00" (50.8)

UNIVERSAL SELECTABLE: PROCESS, DC VOLTAGE OR DC CURRENT TYPE, 115VAC

Mfg. Part No.	Input	Scaled	Stock No.	Price Each
2153-3406-04	10VDC	0-10.00	93F7500	202.50
2153-3419-04	4-20mADC	0-100.0	93F7502	202.50

UNIVERSAL SELECTABLE: POWER RANGES (TRUE RMS)

2353-1024-10	200VAC	0-200.0	93F7507	234.50
2353-1026-10	250VAC	0-250	93F7508	234.50

(3469)

QUANTA PROCESS INDICATORS AND CONTROLLERS



The QUANTA process indicators and controllers feature 0.56" (14.22) LED displays, screw terminal barrier strip for power and signal connection. Units are standard 1/8 DIN panel cutout. Input signal is selectable via jumpers for 0-1mA, 4-20mA, 10-50mA, ±200mV to ±20VDC and pot adjustable to display engineering units. Dual set point option includes 2 internal Form C relays rated at 10A at 20VDC or 240VAC resistive. 2 LED lamps indicate on/off status of either relay. Set points are screwdriver adjustable over entire display range or over narrower ranges selected by jumpers on screw terminal strip. Analog output is adjustable for 4-20mA or 0-10VDC. Factory scaling available for different display range (FS), other input signal and outputs are available.



INPUT SIGNAL CURRENT

Mfg. Part No.	Description	Display Range	Stock No.	Price Each
Q2000-P	Process Monitor	4-20mA = 0-100.0	50B5920	310.50
Q2001-P	Process Controller, 2 Relay (10A) Output	4-20mA = 0-100.0	50B5921	500.25

INPUT SIGNAL VOLTS

Q9000-P	Process Monitor	4-20mA = 0-99.99	98B5720	409.20
Q9040-P	Process Meter, Analog Output 4-20mA	4-20mA = 0-99.99	02E6855	433.20

(3733)

SPLASH-PROOF LENS COVERS FOR PANEL METERS



Meet NEMA enclosure type 4 and IEC enclosure IP65 Classification. Protects against dust, falling dirt, salt spray, dripping water, and non-corrosive liquids.



Mfg. Part No.	Description	Stock No.	Price Each
SPC18	1/8 DIN w/Quick-release Snap Locks	92F4398	38.70
SPC4	1/8 DIN Heavy-Duty w/Thumb Screws	89F1847	34.20

(2492)

PROCESS 1/8 DIN • TEMPERATURE 1/8 DIN

INFINITY® SERIES 1/8 DIN INDICATORS/CONTROLLERS



Options Include:

- Dual 7A Form C Relays
- 4 Setpoints
- Isolated RS-485, Addressable up to 199 Units
- Isolated Parallel BCD Output
- Isolated Serial RS-232
- Isolated Analog Output of 0-10VDC, 0-5VDC, 1-5VDC, 0-20mA DC and 4-20mA DC

TEMPERATURE METERS

Mfg. Part No.	Signal Inputs (Standard)	Stock No.	Price Each	
			1-2	1-4
INFT-0000-KF	T/C Input	84F866	684.25	
INFT-0210-KF	T/C Input, Relays, Analog	84F868	897.00	
INFT-0200-RTD2F	RTD Input, Relays	84F870	770.50	

STRAIN METERS

INFS-0000-DC1	Strain Input	84F872	615.85	
INFS-0210-DC1	Strain Input, Relays, Analog	84F874	832.20	

PROCESS METERS

INFP-0000-C2	Process Input	24C5184	626.75	
INFP-0200-C2	Process Input, Relays	96B0765	713.00	
INFP-0210-C2	Process Input, Relays, Analog Out	18C0417	839.50	

(2457)

INFINITY "C" SERIES INDICATORS/CONTROLLERS



Common Specifications:

- Display: 4-Digit, 9-Segment, 21mm (0.83") Color-Selectable (Red, Green, Amber) LED
- Analog-To-Digital Technique: Dual Scope
- Internal Resolution: 15 Bits
- Polarity: Automatic
- Read Rate: 3/Sec.
- Step Response: 2 Seconds
- Power: 115VAC, 230VAC, 10-32VDC, 26-56VDC
- Operating Temperature: 0°C to 60°C
- Dimensions: 48H x 96W x 152mm D (1.89 x 3.78 x 6.0")



The **Infinity C Series** features the biggest and brightest 1/8 DIN panel meter display. Red, green or amber LED color is menu-selectable. Options include dual 5A Form C relays for alarm or control, plus a choice of isolated or non-isolated analog output scalable from 0-10VDC, 0-20mA, or 4-20mA. Covers many signal inputs including: process (DC voltage and current), strain gauge, thermocouple, RTD, dual-differential thermocouple, RTD, PH, ORP, and AC voltage and current.

INFCTRA SERIES 1/8 DIN 6-DIGIT RATEMETER/TOTALIZER

- Measures Rate from 0.5Hz to 30kHz
- Totalizes Up or Down from -99,999 to 999,999 or Acts as Accumulating Stopwatch
- Fast Low Frequency Measurements Every 0.3 Seconds
- Optional HI and LO Setpoints for Control or Alarm
- 1/8 DIN Case with 5 Programming Keys

INFCTRA Series ratemeter/totalizer offers user programming via 5 front panel keys. Programs are stored in non-volatile memory with 3 levels of program lockout for security. Selectable sensor excitation of 12.5VDC 50mA, 8.2VDC @ 40mA or 5.0VDC @ 30mA. Wide selection of signal inputs such as TTL compatible with protection to 25VDC, low level (25mVrms), high level signals protected to 115VAC, NAMUR or open collector PNP or NPN. 6-digit, 7-segment LED display. Accuracy: 0.01%. Power: 115VAC. Other configurations are available; *go online or call*.

Mfg. Part No.	Description	Stock No.	Price Each	
			1-2	1-4
INFCTRA-0000-R	Ratemeter, No Outputs	96F6826	296.40	
INFCTRA-0100-R	Ratemeter, Dual Relay Output	96F6827	381.90	

INFCTP PROPORTIONAL THERMOCOUPLE TEMPERATURE PANEL METERS

Features time-proportional relay and open-collector outputs, 0.1° or 1.0° resolution, dual 5A relay and analog outputs. Rated 115VAC. Red LED display.

Mfg. Part No.	Signal Input	Control Output	Analog Output	Stock No.	Price Each	
					1-2	1-4
INFCTP-011	J,K,T,J-DIN	Yes	Yes	93F9331	621.30	

INFCTRTD TEMPERATURE PANEL METERS

Standard features include a choice of 0.00385 or 0.00392 alpha curves; 2, 3 or 4 wire RTDs, 0.1° or 1.0° resolution, dual set points. Rated 115VAC. Red LED display.

Mfg. Part No.	Signal Input	Control Output	Analog Output	Stock No.	Price Each	
					1-2	1-4
INFCTR-010B	0.00385 or 0.00392	Yes	No	92F6552	362.25	
INFCTR-011B		Yes	Yes	93F9334	454.25	

Optional Power: 25-56VDC and 10-32VDC are available on all models; *go online or call*.

INFCT THERMOCOUPLE INPUT TEMPERATURE METERS

Standard features include 0.1° or 1.0° resolution and dual setpoints. Rated 115VAC. Red, green or amber LED color display is menu selectable. Dual setpoint, analog output and DC power optional.

Mfg. Part No.	Signal Input	Control Output	Analog Output	Stock No.	Price Each	
					1-2	1-4
INFCT-000B	J,K,T,J-DIN	No	No	67C1854	264.60	
INFCT-010B	J,K,T,J-DIN	Yes	No	67C1808	340.20	
INFCT-011B	J,K,T,J-DIN	Yes	Yes	67C1850	426.60	

➔ CONTINUED ➔

INFINITY "C" SERIES INDICATORS/CONTROLLERS (CONT.)

INFCP PROCESS PANEL METERS

Accepts a wide range of DC voltage and current inputs to cover any typical process application. Features easy front panel scaling to virtually any engineering units, selectable excitation of four voltages to work with most transducers and transmitters. Red, green or amber LED color is menu selectable. Signal Input: 0-100mV (±50mV), 0-10V ±5V, 0-20mA, 4-20mA.

Mfg. Part No.	Control Output	Analog Output	Stock No.	Price Each	
				1-4	1-2
INFCP000B	No	No	24C7158	270.48	
INFCP-010B	Yes	No	25C3532	352.80	
INFCP-001B	No	Yes	25C2386	358.80	

INFCS SERIES STRAIN PANEL METERS

The Newport Infinity C Strain meter accepts a wide range of DC voltage and current inputs to cover any typical application. Easy front scaling to virtually any engineering units. Selectable excitation of 4 voltages. Front panel and remote tare function for weighing applications and a hardware lockout to prevent unauthorized changes in setup. Red, green or amber LED color is menu selectable. Input ranges: 0-100mV, ±50mV, 0-10V, ±5V, 0-20mA, 4-20mA. Excitation voltage: 24V at 25mA or 12V at 50mA; 10V at 120mA or 5V at 60mA. Max. error strain/process: ±0.03% rdg.

Mfg. Part No.	Control Output	Analog Output	Stock No.	Price Each	
				1-2	1-4
INFCS-000B	No	No	39C1940	284.20	
INFCS-001B	Yes	Yes	81C7707	377.00	

(2473)

PROCESS INDICATORS



202A-E



2002A-P

Indicators, when integrated with sensors or transducer, reflect changes in voltage or current by displaying calibrated engineering units for pressure, loads or distance (depending on transducer) once indicator is scaled in the field. All units feature 0.56" (14.22) LED displays, screw terminal barrier strip for power and signal connections. Units are standard 1/8 DIN panel cut-out (45 x 92mm). 120VAC. Units with excitation output provide voltage supply (10-24VDC) to power transmitters, active transducers or passive networks. Input signal: 4-20mA, 1-5VDC and 0-10VDC.

INPUT SIGNAL-CURRENT

Mfg. Part No.	Display Range	Excitation	Stock No.	Price Each	
				1-2	1-4
202A-P	±1,999	No	98F9201	218.30	
202A-E	±1,999	Yes	19C9684	274.40	

INPUT SIGNAL-VOLTS

Mfg. Part No.	Display Range	Excitation	Stock No.	Price Each	
				1-2	1-4
2002B-P	±19,999	No	90B7044	356.40	
2002B-E	±19,999	Yes	19C9687	319.20	

(2298)

IDP SERIES PROCESS METER



4-digit LED process meter that has user-selectable inputs of 4-20mA, 20-4mA, 0-5V, 1-5V or 0-10V. Features are easy scaling to engineering units with or without an input signal to meter, front panel and remote tare, peak or valley recall and memory. 1/8 DIN case 4" deep. Removable screw terminals for easy connections. 230VAC, 10-32VDC and green displays are optional. CE compliant.



Mfg. Part No.	Power	Display	Stock No.	Price Each	
				1-2	1-4
IDP-0/E	115VAC	Red LED, 4-Digit	92F4386	226.20	

(2387)

2000 SERIES 1/8 DIN TEMPERATURE METER



Industrial temperature meter similar to 2000 series DC input models except thermocouple input. User-selectable °C or °F. Accuracy: ±0.1% + 1 count. Non-backlit display. DPM and backlit power: 115VAC. Order thermocouples separately-see Product Index for selection.



Mfg. Part No.	Thermocouple Input Type	Stock No.	Price Each	
			1-2	1-4
2013-3480-04	J: -23° to +650°C / -10° to +1200°F	80K8560	110.00	

(3405)

TEMPERATURE 1/8 DIN • TRUE RMS 1/8 DIN • VOLTS 1/8 DIN

LAUREATE™ THERMOCOUPLE AND RTD TEMPERATURE PANEL METERS



- Selectable 1° or 0.1° resolution
- Upscale or downscale open sensor indication
- Up to 60 conversions per second
- Peak value display
- AC or DC powered
- NEMA 4X, 1/8 DIN case



Concurrent slope conversion allows up to 60 conversions per second while integrating the input over a full power cycle. High accuracy and repeatability. Celsius, Fahrenheit, Kelvin or Rankine scales. Green or red display. Automatic cold junction compensation. Open sensor indication is standard. 2-, 3-, or 4-wire RTD connection with lead resistance compensation. For 3- and 4-wire connections, the meter automatically compensates for the lead resistance of the sensor. All ranges for all temperature sensor types are digitally calibrated at the factory. Choice of isolated plug-in options for control and computer interface: dual relays, analog output, serial communications, parallel BCD output, low voltage AC and DC power available; go online or call. UL listed, CE certified.

THERMOCOUPLES

Setting	Thermocouple	Temperature Range
JC	Type J	-210°C to +760°C
JF	Type J	-347°F to +1400°F
KC	Type K	-347°C to +1372°C
KF	Type K	-408°F to +2501°F
TC	Type T	-257°C to +400°C
TF	Type T	-430°F to +752°F
EC	Type E	-240°C to +1000°C
EF	Type E	-400°F to +1830°F
NC	Type N	-240°C to +1000°C
NF	Type N	-410°F to +2370°F
SC	Type S	-46°C to +1768°C
SF	Type S	-51°F to +3214°F
RC	Type R	-45°C to +1768°C
RF	Type R	-49°F to +3213°F

RTDs (100 Ohm PLATINUM)*

Setting	RTD	Temperature Range
P385C	Alpha 0.00385	-202°C to +850°C
P385F	Alpha 0.00385	-331°F to +1562°F
P392C	Alpha 0.003925	-202°C to +631°C
P392F	Alpha 0.003925	-331°F to +1168°F

*Note: The same temperature signal conditioner board can be user configured for all thermocouple and RTD types listed. Temperatures for each type are spanned by a single range.

Mfg. Part No.	Stock No.	Price Each
L20000TC	84K0382	220.00
L20000RTD	84K0380	210.00

CABLE ACCESSORIES

Mfg. part no. CBL01 connects the meter directly to a PC RS232 port. Mfg. part no. CBL02 is used on computers without an RS232 port but with a USB port.

Mfg. Part No.	Cable Length (ft.)	Connector Type A	Connector Type B	Stock No.	Price Each
CBL01	7	DB9 Male	RJ11	87K0754	19.00
CBL02	2	DB9 Male	3 Terminal Plug	87K0755	39.00

IDT SERIES THERMOCOUPLE METER



4-digit LED temperature meter has user selectable inputs of: J, J DIN, K, T, E, R/S and N. Selections are made via the front pushbuttons. Features are: C/F switchable, 1.0 and 0.1 resolution, min/max recall, external display HOLD input. 1/8 DIN case 4" deep. Removable screw terminals for easy connections. 115VAC and red display standard. 230VAC, 10-32VDC and green displays are optional. CE compliant.

Mfg. Part No.	Signal Input Range, Vdc	Display Range	Relay Output	Stock No.	Price Each
IDT-00	J	-346 to 1400°F	N/A	92F4387	274.50
	JDIN	-200 to 1652°F	N/A		
	K	-337 to 2500°F	N/A		
	T	-454 to 752°F	N/A		
	E	-454 to 1832°F	N/A		
	R/S	-58 to 3214°F	N/A		
	N	-454 to 2372°F	N/A		
IDT-00/E	E	-454 to 1832°F	N/A	05C0628	274.50

AC AMMETERS



3 1/2-digit units feature bright 0.56"(14.22) LED displays, screw terminal barrier strip for power and signal connections, operate on 120VAC, fit standard 1/8 DIN panel cut-out. Decimal point programmable at barrier strip. Factory-calibrated precision op-amp rectifier circuit to read true RMS values of sinusoidal waves. 5A signal input range for direct connection to current transformer with 5A secondary without a step-down transformer.



➔ CONTINUED ➔

AC AMMETERS (CONT.)

Mfg. Part No.	Display Range	Stock No.	Price Each
			1-2
Q2000-DCR7-1	1-10/100/1000	89F1835	316.25
Q2000DCR7-6	0-50/500	89F1826	316.25

(37270)

INFCAC SERIES TRUE RMS VOLTAGE AND CURRENT METERS



The Newport INFCAC true RMS meters compute the true root-mean-square value of complex signals. Both DC + AC and AC coupled connections are included. AC coupling allows the measurement of the AC component (or ripple) from a signal with both AC and DC components. True RMS meters are especially useful in monitoring voltage and current supplied to motors or heaters controlled by an SCR or Triac circuit. Optional user scalable analog output of 4-20mA or 0-10V allows either control or recorder interface. Optional dual 5A relays give additional control capability. The optional plug-in communication options can be added at any time allowing the instrument to grow with your application.

Mfg. Part No.	Signal Inputs	Description	Stock No.	Price Each
			1-2	
INFCAC-0000-C5	0-1mA, 0-10mA, 0-100mA,	True RMS Ammeter, No Output	90B6647	396.75
INFCAC-0100-C5	0-1A, 0.5A ac		31C2009	477.25
INFCAC-0110-C5		True RMS Ammeter, Dual Relay and Analog Output	11C0687	569.25
INFCAC-0000-V5	0-1V, 0-10V, 0-100V,	True RMS Voltmeter, No Output	88F6316	396.75
INFCAC-0110-V5	0-750V ac		93B5745	569.25

(73302)

AC POWER-LINE MONITORS



3 1/2-digit units feature bright 0.56" (14.22) LED displays, screw terminal barrier strip for power and signal connections, operate on 120VAC and fit standard 1/8 DIN panel cut-out. Decimal point programmable at barrier strip. 201AN-AC series AC power-line monitors use factory-calibrated half-wave rectifier to read RMS values of sinusoidal signals. Provide AC voltmeter performance for AC ranges.



201AN-AC

Mfg. Part No.	Signal Input Range, VAC	Display Range	Stock No.	Price 1-2
201AN-AC5	20-199.9	±1,999	89F1833	219.60
201AN-AC6	20-650	±1,999	89F1834	219.60

(2297)

DC VOLTMETERS



201AN



2001

Factory calibrated for DC input range indicated. Bright, 0.56" (14.22) LED display. Decimal point programmable at connector. 201AN and 2001 series are 120VAC and fit standard 1/8 DIN panel cutout; screw-terminal barrier strip standard for signal and power. 215 series are 5VDC and fit half-height 1/8 DIN panel cutout; solder-tab board edge connector standard. Display range is 3 1/2-digits (±1,999 counts) or 4 1/2-digits (±19,999 counts).



215

Mfg. Part No.	Signal Input Range, VDC	Display Range	Operating Voltage	Stock No.	Price Each
				1-2	
201AN-2,D4	0.1999	±1,999	120VAC	89F1836	193.20
201AN-3D4	1.999	±1,999	120VAC	89F1837	193.20
201AN-4,D4	19.99	±1,999	120VAC	89F1838	193.20
201AN-5,D4	199.9	±1,999	120VAC	89F1839	193.20
2001A-3,D4	1.9999	±19,999	120VAC	89F1840	240.54
2001A-4,D4	19.999	±19,999	120VAC	89F1841	240.54
2001A-5,D4	199.99	±19,999	120VAC	89F1842	240.54
215-3	1.999	±1,999	5VDC	89F1830	114.00
215-4	19.99	±1,999	5VDC	89F1831	114.00

(2296)

VOLTS 1/8 DIN • CURRENT MINI

2000 SERIES 1/8 DIN DC INPUT VOLTMETERS

- Meet NEMA 4, 12 and IPC 55 (Splash-Proof/Hose Down) Standards
- Shallow, 1" (25.40) Depth

Fit 1/8 DIN panel cutout. Ideal for dairy, pharmaceutical, food, petrochemical, and other demanding applications. Accuracy: ±0.1% + 1 count typical; ±0.2% + 1 count maximum. 0.5" (12.70)H, 3.5-digit, 7-segment backlight, positive green LCD visible in sun or bright light. User-selectable decimal. Screw terminal connector. Polycarbonate case has gasket. Temperature range: -20° to +60°C. DPM and backlight power: 115VAC.



Mfg. Part No.	Input Range	Input Resistance	Stock No.	Price Each
2033-3401-04-U	200mVDC	≥100mΩ	51F3579	132.50
2033-3402-04	2VDC	≥100mΩ	51F3580	132.50
2033-3403-04-U	20VDC	1mΩ	51F3581	132.50
2033-3404-04	200VDC	1mΩ	73K5231	126.00

(3403)

DATEL® ACA-20PC SERIES AC AMMETERS WITH BUILT-IN CURRENT TRANSFORMERS



- Built-in current transformers for direct measurement of 0 to 2/20/50/100 Amps
- On-board current transformers
- Scaling/interface circuitry
- Precision A/D converters
- Bright red LED displays
- Subminiature, 1.38" x 0.88" package



SPECIFICATIONS:

Accuracy:	±0.15%
Input:	85-264Vac @ 50/60Hz with "self-power"
Display:	0.37"/9.4mm 3-1/2 digit Red
Isolation:	2000V between load and supply

Mfg. Part No.	Input Range (A)	Stock No.	Price Each
● ACA-20PC-1-AC1-RL-C	1.999A Voltage	39M6189	78.00
● ACA-20PC-2-AC1-RL-C	19.99A	39M6191	78.00
● ACA-20PC-3-AC1-RL-C	50.0	39M6193	84.00
● ACA-20PC-4-AC1-RL-C	100.0A	39M6195	84.00

(83941)

DATEL® ACA5-20PC SERIES 5AMP INPUT AC AMMETERS



- Scales and displays the output of 50:5A to 2000:5A current transformers
- On-board 5A current transformers
- Scaling/interface circuitry
- Precision A/D converters
- Bright red LED displays
- Subminiature, 1.38" x 0.88" package
- Digital replacements for analog ammeters



SPECIFICATIONS:

Accuracy:	±0.15%
Input:	85-264Vac @ 50/60Hz
Display:	0.37"/9.4mm 3-1/2 digit Red
Isolation:	2000V

Mfg. Part No.	Input Range (A)	Stock No.	Price Each
ACA5-20PC-1-AC1-RL	50.0A	53K5583	72.00
● ACA5-20PC-3-AC1-RL-C	100.0A	39M6241	72.00
● ACA5-20PC-5-AC1-RL-C	199.9A	39M6243	72.00
● ACA5-20PC-9-AC1-RL-C	500A	39M6247	72.00

5A current transformers for all ACA5-20PC series AC ammeters are available, go online or call Newark.

➔ CONTINUED ➔

● Indicates RoHS Compliant

DATEL® ACA5-20PC SERIES 5AMP INPUT AC AMMETERS (CONT.)

Mfg. Part No.	Current Ratio	Accuracy	Current Transformer for	Stock No.	Price Each
● 7020-01036-0	50:5 A	±2%	Use with ACA5-20PC-1 ammeter	40M4740	25.00
● 7020-01038-0	100:5 A	±1%	Use with ACA5-20PC-3 ammeter	40M4742	25.00
● 7020-01040-0	200:5 A	±1%	Use with ACA5-20PC-5 ammeter	40M4744	25.00

(83942)

DATEL® DCA-20PC SERIES DC AMMETERS WITH BUILT-IN SHUNTS



- Built-in shunts for digitally measuring DC currents from 200µA to 20A
- Functionally complete, no additional components required
- 20mV internal shunt minimizes power loss
- Includes load connections for easy 3- or 4-wire operation
- Available with red, blue or green LED displays
- Subminiature, 1.38" x 0.88" package



SPECIFICATIONS:

Accuracy:	±0.1%
Input:	8-36Vdc, isolated power
Display:	0.37"/9.4mm 3-1/2 digit

Mfg. Part No.	Input Range (A)	Display Color	Stock No.	Price Each
● DCA-20PC-4-DC4-RL-C	199.9mA	Red	87K3618	64.00
● DCA-20PC-5-DC4-RL-C	1.999A Voltage	Red	87K3619	64.00
● DCA-20PC-6-DC4-RL-C	19.99A	Red	87K3620	64.00

(83946)

DATEL® DCA5-20PC SERIES DC AMMETERS AND EXTERNAL SHUNTS



- Scales and displays the output of 5A to 2000A, 50mV AND 100mV shunts
- Wide power supply inputs: 5 to 40Vdc for 12V/24V/28V
- 48V option for telecom supplies
- Isolated-supply models for high-side shunts
- Available in red, blue or green LED displays
- Subminiature, 1.38" x 0.88" package with screw-style terminal blocks
- Digital upgrade for analog meters



SPECIFICATIONS:

Accuracy:	±0.1%
Input:	8-36Vdc, isolated power
Display:	0.37"/9.4mm 3-1/2 digit Red

Mfg. Part No.	Input Range (A)	Stock No.	Price Each
● DCA5-20PC-1-DC4-RLC	50mV shunt: 5.00A/50.0A/500A 100mV shunt: 10.00A/100.0A/1000A	29M7392	59.00
● DCA5-20PC-2-DC4-RLC	50mV shunt: 1.000A/10.00A/100.0A/1000A 100mV shunt: 1.999A/19.99A/199.9A/1999A	39M7983	59.00
● DCA5-20PC-6-DC4-RLC	50mV shunt: 1.999A/19.99A/199.9A/1999A	39M7987	59.00

50mV and 100mV base-mounted current shunts are designed for measuring DC currents from 5A to 1200A. These precision shunts (±0.25% accuracy) connect directly to DCA5-20PC series DC ammeters.

Mfg. Part No.	Rated Current/Output	Resistance (Ohms @ 25°C)	Stock No.	Price Each
● 3020-01096-0	50A/50mV	0.001	40M4326	20.00
● 3020-01097-0	5A/50mV	0.01	40M4327	20.00
● 3020-01098-0	20A/50mV	0.0025	40M4328	20.00
● 3020-01099-0	100A/50mV	0.0005	40M4329	20.00
● 3020-01101-0	200A/50mV	0.00025	40M4331	25.00
● 3020-01103-0	500A/50mV	0.0001	40M4333	25.00

(83948)

CURRENT LOOP POWERED MINI • DC INPUT MINI • SINGLE FUNCTION MINI

DATEL® LOCALLY POWERED 4-20mA INPUT PANEL METERS



DMS-30PC



DMA-40PC

- 3 1/2 and 4 1/2 digit resolutions; LED/LCD displays
- 4 LED options including low-current and high-intensity red
- 3 power supply options: +5, +24V "I" or 7.5-32V
- 24V "I" models isolate loop inputs from power ground

- DIP-switch selectable span/offset/decimal points
- On-board gain/span and zero/offset trim pots
- Vibration-resistant package; reliable screw-terminal input connections
- Miniature size: 2.17 x 0.92 x 1.02"

Mfg. Part No.	Display	Description	Stock No.	Price Each
● DMS-30PC-4/20S-24BS-I-C	3-1/2 digit 0.56" high Blue	+24V isolated supply, high-intensity LED	87K3682	94.00
● DMS-30PC-4/20S-24RS-I-C	3-1/2 digit 0.56" high Red LED	+24V isolated supply, high-intensity LED	87K3683	84.00
● DMS-40PC-4/20S-24RS-I-C	4-1/2 digit 0.52" high Red LED	+24V isolated supply, standard-intensity LED	87K3694	116.00

(83955)

DATEL® LOOP-POWERED 4-20mA PROCESS MONITORS



DMS-20PC



DMS-30LCDA

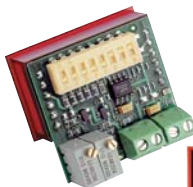
- Self-powered, no separate supply required
- 3 1/2 and 4 1/2 digit resolutions; LED/LCD displays
- Industry's only loop-powered, full-size LED readouts
- Small packages; Large digits: 0.37"/9.4mm
- DIP-switch selectable span/offset/decimal points

- On-board gain/span and zero/offset trim pots
- Hundreds of different input/readout combinations
- Vibration-resistant package; reliable screw-terminal input connections

Mfg. Part No.	Description	Stock No.	Price Each
● DMS-20PC-4/20S-C	Unipolar reading, 3.5-digit, loop-powered LED meter	16M5699	72.00
● DMS-20LCD-4/20S-C	Unipolar reading, 3.5-digit, loop-powered LCD meter	87K3634	54.00
● DMS-30LCDA-4/20S-C	Unipolar reading, 3.5-digit, loop-powered LCD meter	87K3667	72.00
● DMS-40LCD-4/20S-C	4.5-digit, loop-powered LCD meter	87K3686	110.00

(83949)

DATEL® 0-5V AND 0-10V PROCESS MONITORS



- Accepts 0-5V and 0-10V inputs
- Easy to read 0.37"/9.4mm LED display
- High input impedance
- DIP-switch selectable span/offset/decimal points
- On-board gain/span and zero/offset trim pots
- Vibration-resistant package
- Reliable screw-terminal input connections
- Miniature size: 1.38 x 1.25 x 0.95"

Mfg. Part No.	Display	Description	Stock No.	Price Each
● DMS-20PC-0/5-24RL-C	3-1/2 digit, Red, 0.37" high	5.00V to +40V supply	87K3641	78.00
● DMS-20PC-0/5-5BS-C	3-1/2 digit, Blue, 0.37" high	5.00V supply	87K3642	82.00

(83960)

TWO-WIRE LOOP POWERED PROCESS INDICATORS



508B-2
508B-1 in Explosion Proof Housing



558B

LCD display indicators show such process variables as pressure, flow, temperature or level, depending on sensor and application. 3 1/2 active digit 0.35" (8.89) display to ±1,999 and selectable dummy right hand zero for displays to ±19,990. Powered by 4-20mA input signal and jumper selectable for 1-5 and 10-50mA input signal applications. Standard electrical configuration for readout from 0 to 100.0 for 4-20mA. Explosion housing (NEMA4 and NEMA7) is optional; go online or call.

Mfg. Part No.	Description	Stock No.	Price Each
508B-2	1/2" EMT Male Conduit Fitting w/2-#18AWG Wires	89F1816	534.75
558B	1/8" DIN Panel Cutout Indicator	89F1818	178.50

(2299)

MINIATURE DIGITAL PANEL METERS



1000 SPM Series are 3 1/2-digit, 7-segment backlit digital panel meters. Input: 200mVDC. Input resistance: ≥100MΩ. Conversion rate: 2.5 per second. Operating temperature: 0°C to +60°C. Accuracy: ±0.25% + 1 count maximum. 13-pin terminals. Window mount. **Mfg. part nos. 1030-00-19 and 1060-00-19** are loop-powered from signal and input: 4-20mA DC. Accuracy: ±0.1% of F.S. + 1 count. Operating temperature: -30°C to +80°C. Window mount. For bezel mounting, order snap bezel separately; go online or call.

Mfg. Part No.	Display Color	DPM Power	Stock No.	Price Each
1030-01-01-U	Positive Green	9VDC	51F3573	101.25
1030-00-19-U	Positive Green	Loop Powered	51F3577	101.25
1060-00-19-U	Positive Red	Loop Powered	51F3578	101.25

(6605)

10 SERIES SNAP-IN PANEL METERS



DPM 1AS-BL



DPM 3AS-BL



DPM 342

- 3 1/2-Digit LCD with LED Backlighting, or 3 1/2-Digit LED
- Accuracy: 0.10% (±1 Count) Typical
- Auto-Zero, Auto-Polarity
- 1-Piece, Snap-In Design
- 3.0V to 7.5V or 6.0-15.0VDC Power Supply



DPM 340

Voltmeters feature full-scale reading of ±200mVDC. LCD versions use a supply of 3.0 to 7.5V at 350µA (typ.) or 6.0 to 15.0VDC at 175µA (typ.); LED versions use a 5VDC supply at 50mA (typ.). **Mfg. part no. DPM 342** is a loop-powered 4-20mA meter with screw terminals.

VOLTMETERS

Mfg. Part No.	Display	W x H	Digit Height	Stock No.	Price Each	
					1-9	10-24
DPM 1AS-BL	LCD	1.18" x 0.55"	0.22"	72C6419	42.29	38.80
DPM 3AS-BL	LCD	1.57" x 0.79"	0.43"	89C2660	48.34	44.35
DPM 340	LED	1.57" x 0.79"	0.31"	36C2798	48.34	44.35

LOOP-POWERED METER, 4-20mA

Mfg. Part No.	Display	W x H	Digit Height	Stock No.	Price Each
DPM 342	LCD	1.57" x 0.79"	0.43"	36C2799	81.51 74.77

(69455)

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(116880)

SINGLE FUNCTION MINI

700 AND 900 SERIES PANEL METERS WITH WATERPROOF OPTION



- Large 3½ Digit LCD Displays
- 4-20mA Loop Powered Meters
- AC Voltmeter
- DC Voltmeter
- NEMA 4X Rated Bezel Option
- LED Backlighting on most meters

This range of 3½ digit LCD meters includes ±200mVDC full scale reading voltmeters, a 500VAC voltmeter, 4-20mA loop powered meters and a dual channel LCD voltmeter. Optional NEMA 4X rated bezels fit all meters.

700 SERIES

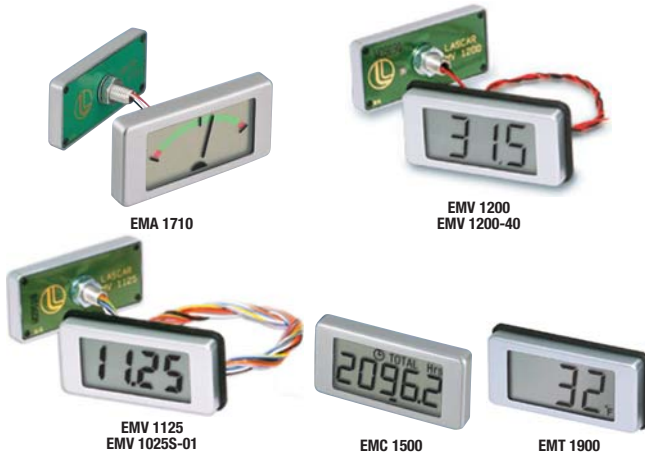
Mfg. Part No.	Description	W x H	Digit Height	Stock No.	Price Each
DPM 742-BL	Loop Powered	2.36 x 1.18"	0.5"	02H6481	81.96
DPM 750S-BL	DC Voltmeter	2.36 x 1.18"	0.5"	02H6482	55.89
● BEZ 700-IP	Nema 4X Bezel	2.57 x 1.39"	...	02H6394	15.00

900 SERIES

Mfg. Part No.	Description	W x H	Digit Height	Stock No.	Price Each
DPM 942	Loop Powered	2.99 x 1.73"	0.75"	02H6483	95.50
DPM 950	DC Voltmeter	2.99 x 1.73"	0.75"	02H6484	67.41
DPM 970	AC Voltmeter	2.99 x 1.73"	0.75"	02H6485	86.78
● BEZ 900-IP	Nema 4X Bezel	3.17 x 1.91"	...	02H6395	17.15

(73562)

EM SERIES SPLASHPROOF ROUND-HOLE FITTING PANEL METERS



A splashproof range of LCD meters each fitted with a threaded stud, allowing users to mount the product through a ½" hole. A rubber seal (supplied) provides splashproof protection when fitted between the meter and mounting panel.

Mfg. Part No.	Description	Digits	Digit Ht.	Stock No.	Price Each	
					1-9	10-24
EMA 1710	9-Segment Analog Style Voltmeter	...	...	36C2800	24.38	23.16
EMV 1200	2-wire, 4-25VDC Self-Powered Voltmeter	3	0.5"	36C2804	32.61	31.02
EMV 1200-40	2-wire, 4-40VDC Self-Powered Voltmeter	3	0.5"	28K2619	31.92	30.36
EMV 1125	User Set Voltmeter	3½	0.5"	73C7319	37.33	35.51
EMV 1025S-01	Preset Voltmeter	3½	0.5"	36C2803	32.61	31.02
EMC 1500	Hour Meter	5	0.35"	36C2801	30.69	29.19
EMT 1900	Thermometer	3	0.5"	36C2802	30.69	29.19

(69456)

World-class website

- Fast, intuitive search
- Real-time availability
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(116679)

EM SERIES WATERPROOF ROUND-HOLE FITTING PANEL METERS



Waterproof LCD and LED units feature 200mV full-scale reading, auto-zero, auto-polarity plus jumper link selection. NEMA 4X/IP67 protection. Metal bezel, rubber seal and mounting nut. Screw terminal connection. Designed for mounting in a 1.28" diameter cutout.



Mfg. Part No.	Description	Digits	Digit Ht.	Stock No.	Price Each	
					1-9	10-24
EM32-1B	LCD Voltmeter	3½	0.31"	50H3922	66.31	63.07
EM32-1B-LED	LED Voltmeter	3½	0.31"	50H3923	66.31	63.07

(85041)

SP5 SERIES SPLASHPROOF PANEL METERS



- Seal provides splashproof protection
- LED Backlighting
- Panel Cutout: 1.85 x 1.38"

Mfg. Part No.	Description	Digit Ht.	Stock No.	Price Each	
				1-9	10-24
● SP 5-GFX1	128 x 64 Pixel Graphic Display	...	50H5429	42.28	39.91
SP 5-1200-BL	2-Wire, 3-Digit, Signal-Powered Voltmeter	0.7"	50H5430	48.06	45.36
SP5-1710-BL	17 Segment Analog Style Voltmeter	...	28K2623	42.28	39.91

(85047)

3½-DIGIT PANEL MINI-METERS



Indicators have 0.56" (14.22) red LED display, 115VAC. Panel space 37.5% of standard ½ DIN meter. Process meters provide zero and span adjustments for readout in engineering units. Thermocouple meters include cold junction compensation, linearization, jumper selection of C or F, thermocouple break detection and analog output (1mV/count). Connection to sensor can be 2, 3 or 4 wire (RTD). Other power options available; go online or call.



Mfg. Part No.	Signal Input	Display Span	Stock No.	Price Each	
				1-9	10-24
205-PA1-R-CO	4-20mA	±1,999	90F8938	172.55	
205-PV3-R-CO	1-5V	±1,999	90F8939	176.90	
205-PV4-R-CO	0-10V	±1,999	90F8940	176.90	
205-JF1-R-CO	"J"/T/C	-346° to +1400°F	90F8941	237.90	
205-KF1-R-CO	"K"/T/C	-157° to +1999°F	90F8943	237.90	

(2301)

3/64 DIN MINI SERIES DIGITAL PANEL METERS



Red Backlight

No Backlight

Mfg. part no. M135 is 3½-digits and Mfg. part no. M145 is 4½-digits. Provides high quality accuracy and reliability in a compact, shallow 1.25" (31.75mm) deep case. Fits 3/64 DIN cutout (22mm x 68mm). The 0.5" high LCD display is available with a negative image, bright red backlit option. User selectable decimal point and display hold. Includes a 12 pin mating connector with 6" wire leads. +9VDC power option available; go online or call.

DC VOLTAGE INDICATORS (5 VDC POWER)

Mfg. Part No.	Input	Backlight	Stock No.	Price Each
M135-0-0-11-0	200mV	None	95F5604	74.29
M135-0-0-12-0	2V	None	95F5605	74.29
M135-0-0-14-0	200V	None	95F5607	74.29
M135-1-0-11-1	200mV	Negative Red	95F5616	98.99
M135-1-0-12-1	2V	Negative Red	95F5617	98.99

➔ CONTINUED ➔

SINGLE FUNCTION MINI • TRUE RMS MINI

3/64 DIN MINI SERIES DIGITAL PANEL METERS (CONT.)

Mfg. Part No.	Input	Backlight	Stock No.	Price Each
M135-1-0-13-1	20V	Negative Red	95F5618	98.99
M135-1-0-14-1	200V	Negative Red	95F5619	98.99
M145-0-0-11-0	200mV	None	92F4197	97.94
M145-0-0-12-0	2V	None	92F4198	97.94
M145-0-0-13-0	20V	None	92F4199	97.94
M145-0-0-14-0	200V	None	92F4200	97.94
M145-1-0-11-1	200mV	Negative Red	92F4191	122.64
M145-1-0-12-1	2V	Negative Red	92F4192	122.64
M145-1-0-13-1	20V	Negative Red	92F4193	122.64
M145-1-0-14-1	200V	Negative Red	92F4194	122.64

DC VOLTAGE INDICATORS (±5VDC POWER)

M145-0-1-11-0	200mV	None	92F4203	97.94
M145-0-1-13-0	20V	None	92F4205	97.94
M145-0-1-14-0	200V	None	92F4188	97.94
M145-1-1-11-1	200mV	Negative Red	92F4206	122.64
M145-1-1-12-1	2V	Negative Red	92F4207	122.64
M145-1-1-13-1	20V	Negative Red	92F4208	122.64
M145-1-1-14-1	200V	Negative Red	92F4209	122.64

DC CURRENT INDICATORS (5VDC POWER)

M135-0-0-23-0	20mA	None	95F5608	74.29
M135-0-0-24-0	200mA	None	95F5609	74.29
M145-0-0-23-0	20mA	None	92F4201	97.94
M145-0-0-24-0	200mA	None	92F4202	97.94

DC CURRENT INDICATORS (±5VDC POWER)

M145-0-1-23-0	20mA	None	92F4189	97.94
M145-1-1-23-1	20mA	Negative Red	92F4210	122.64
M145-1-1-24-1	200mA	Negative Red	92F4211	122.64

(16729)

MICROMITE SERIES PC BOARD MOUNT COUNTERS, TIMERS AND PANELMETERS



TOTALIZING COUNTERS

8-digit, 8mm-high LCD. 2.6-3.4VDC @ 10µA maximum. Count and direction inputs, 5kHz maximum count speed. 20Hz switch bounce filter. Operating temperature: -10°C to +60°C.

Mfg. Part No.	Fig.	Description	H x W x D	Stock No.	Price Each
0799988-412	1	Panel and Remote Reset	0.83 x 1.85 x 0.53" (21 x 47 x 13.5)	48F2119	31.35
0799988-402	1	Remote Reset Only	0.83 x 1.85 x 0.53" (21 x 47 x 13.5)	48F2120	31.35

6-digit, 6mm-high LCD. 2.6-3.4VDC @ 10µA maximum. 10kHz maximum count speed. Remote reset. With supplied bezel, fits 1.16 x 0.87" cutout. Operating temperature -10°C to +60°C.

0799986-302	2	Count Up Only	0.70 x 1.09 x 0.26" (17.7 x 27.6 x 6.5)	48F2123	31.35
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4-digit, 6mm-high LCD. Powered by replaceable internal 1.5V button cell, 4 years expected life. 12kHz maximum count speed from contact input, reset by removing battery. With supplied bezel, fits 1.16 x 0.87" cutout. Operating temperature: -10°C to +60°C.

0799984-322	3	Count Up Only	0.70 x 1.09 x 0.42" (17.7 x 27.6 x 10.7)	48F2125	16.93
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8-digit, 8mm-high LCD. Wiring option for backlighting. 3VDC @ 10µA maximum. 10kHz maximum count speed. Operating temperature -10°C to +60°C.

07999F8-302	4	Count Up Only	0.94 x 1.89 x 0.55" (24 x 48 x 14)	48F2126	42.64
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ELAPSED TIME INDICATORS

8-digit, 8mm-high LCD. 2.6-3.4VDC @ 10µA maximum. Timing modes: seconds, mins/secs, hrs/mins, hrs/hundredths ±20ppm accuracy. Operating temperature: -10°C to +60°C.

0799988-612	1	Panel and Remote Reset	0.83 x 1.85 x 0.53" (21 x 47 x 13.5)	48F2121	30.30
0799988-602	1	Remote Reset Only	0.83 x 1.85 x 0.53" (21 x 47 x 13.5)	48F2122	30.30

➔ CONTINUED ➔

MICROMETER SERIES PC BOARD MOUNT COUNTERS, TIMERS AND PANELMETERS (CONT.)

Mfg. Part No.	Fig.	Description	H x W x D	Stock No.	Price Each
07999F3-001	5	14mm-High LCD	1.42 x 2.83 x 0.55" (36 x 72 x 14)	48F2127	54.65
07999F3-002	5	8mm-High LCD	0.94 x 1.89 x 0.55" (24 x 48 x 14)	48F2128	54.65

(33786)

3/64 DIN MINI-MAX SERIES DIGITAL PANEL METERS



Mfg. part no. M235 3½-digit, M240 4-digit and M245 4½-digit Mini-Max indicators have 0.5" (12.7mm) high LCD or negative image red backlighting display, user selectable decimal point and display scaling. Indicator fits 3/64 DIN cutout (22mm x 68mm) and requires only 2.36" (60mm) behind front panel. Mounting bracket provided to allow vertical or horizontal stacking of multiple indicators. Screw terminal connectors and 85-250VAC power standard. Optional excitation output and 9-32VDC power available; go online or call.

AC CURRENT INDICATORS

Mfg. Part No.	Input	Backlight	Stock No.	Price Each
M235-0-0-33-0	20V	None	95F5651	137.94
M235-0-0-34-0	200V	None	95F5652	137.94
M235-1-0-34-0	200V	Negative Red	95F5659	159.90
M245-0-0-34-0	200V	None	92F4227	171.05

DC VOLTAGE INDICATORS

M235-0-0-11-0	200mV	None	95F5628	110.23
M235-0-0-12-0	2V	None	95F5629	99.18
M235-0-0-13-0	20V	None	95F5630	99.18
M235-0-0-14-0	200V	None	95F5631	99.17
M235-0-2-13-0*	20V	None	51B1090	132.76
M235-1-0-11-0	200mV	Negative Red	95F5634	121.14
M235-1-0-12-0	2V	Negative Red	95F5635	121.14
M235-1-0-13-0	20V	Negative Red	95F5636	121.14
M235-1-2-13-0*	20V	Negative Red	90B5878	154.73
M235-1-0-14-0	200V	Negative Red	95F5637	121.14
M235-0-2-14-0*	200V	None	90B2969	132.76
M245-0-0-11-0	200mV	None	92F4239	132.29
M245-0-0-12-0	2V	None	92F4240	132.29
M245-0-0-13-0	20V	None	92F4241	132.29
M245-0-0-14-0	200V	None	92F4242	132.29
M245-1-0-11-0	200mV	Negative Red	92F4245	154.26
M245-1-0-12-0	2V	Negative Red	92F4246	154.26
M245-1-0-13-0	20V	Negative Red	92F4247	154.26
M245-1-0-14-0	200V	Negative Red	92F4221	154.26

* 9-32VDC power.

AC CURRENT INDICATORS

M235-0-0-44-0	200mA	None	95F5653	137.94
M235-0-0-45-0	2A	None	95F5654	137.94
M235-0-0-46-0†	5A	None	95F5655	137.94
M235-1-0-46-0†	5A	Negative Red	95F5662	159.90
M245-0-0-44-0	200mA	None	92F4228	190.12
M245-0-0-45-0	2A	None	92F4229	171.05
M245-0-0-46-0†	5A	None	92F4230	171.05
M245-1-0-44-0	200mA	Negative Red	92F4235	214.54
M245-1-0-45-0	2A	Negative Red	92F4236	214.54
M245-1-0-46-0†	5A	Negative Red	92F4237	193.02

† Scale display needs Simpson current transformer for higher current levels; go online or call.

DC CURRENT INDICATORS

M235-0-0-11-0‡	200mV	None	95F5628	110.23
M235-0-0-24-0	200mA	None	95F5632	99.18
M235-0-0-25-0	2A	None	95F5633	99.18
M235-0-0-26-0	5A	None	88F1583	99.18
M235-1-0-24-0	200mA	Negative Red	95F5638	121.14
M235-1-0-25-0	2A	Negative Red	95F5639	121.14
M245-0-0-11-0‡	200mV	None	92F4239	132.29
M245-0-0-24-0	200mA	None	92F4243	132.29
M245-0-0-25-0	2A	None	92F4244	147.05
M245-1-0-24-0	200mA	Negative Red	92F4222	154.26
M245-1-0-25-0	2A	Negative Red	92F4223	154.26

➔ CONTINUED ➔

TRUE RMS MINI • FREQUENCY MINI • VOLTS MINI

3/64 DIN MINI-MAX SERIES DIGITAL PANEL METERS (CONT.)

Mfg. Part No.	Input	Backlight	Stock No.	Price Each
‡ Scaled display requires Simpson external shunt for higher DC current levels.				
FREQUENCY INDICATORS (LED DISPLAY)				
M235-0-0-81-0	20-199.9Hz RMS	None	91F9696	110.23
M235-0-0-82-0	20-1999Hz RMS	None	91F9697	110.23
M235-1-0-81-0	20-199.9Hz RMS	Negative Red	91F9698	134.65
M235-1-0-82-0	20-1999Hz RMS	Negative Red	91F9699	134.65
TEMPERATURE INDICATORS				
M2400-910F	J T/C	...	52F6604	196.76
M2400-920F	K T/C	...	52F6605	196.76
DC PROCESS INDICATORS				
M235-0-0-71-0	4-20mA	None	95F5663	115.97
M235-0-0-73-0	0-10V	None	16F2260	115.97
M235-1-0-71-0	4-20mA	Negative Red	95F5665	137.94
M235-1-0-73-0	0-10V	Negative Red	16F2261	137.94
M235-0-2-71-0*	4-20mA	None	95F5667	149.55
M235-1-2-71-0*	4-20mA	Negative Red	95F5669	171.52
M245-0-0-71-0	4-20mA	None	92F4238	149.08
M245-1-0-71-0	4-20mA	Negative Red	92F4213	171.05
M245-0-2-71-0*	4-20mA	None	92F4215	182.66

*9-32VDC power (16738)

DATel® 2-WIRE AC LINE FREQUENCY METERS



- Self-powered, no external supplies required
- Screw terminals simplify panel mounting
- Ideal for emergency power equipment
- Epoxy encapsulated for harsh environments



SPECIFICATIONS:

Accuracy:	±0.01V
Display:	3 digit, Red, 0.40" high
Dimensions:	1.38 x 0.88 x 1.00"

Mfg. Part No.	Frequency Range (Hz)	Voltage Range (Vac)	Stock No.	Price Each	
				1-4	
● DMS-20PC-1-FM-C	47.0-99	85-140	87K3646	56.00	
● DMS-20PC-3-FM-C	47.0-99	170-264	87K3659	56.00	

(83958)

DATel® 2-WIRE AC LINE VOLTAGE MONITORS



- Plugs directly into 120V wall outlet
- Screw terminals for panel mounting
- Large easy to read, red, green or blue LED displays
- Fully encapsulated for harsh environments
- Half-wave averaging, rms calibrated
- UL, CSA and IEC1010-1 certified



SPECIFICATIONS:

Accuracy:	±1V
Input Range:	85-264Vrms
Frequency Range:	47-63Hz
Display:	3 digit, Red, 0.37" high
Dimensions:	1.38 x 0.88 x 1.00"

Mfg. Part No.	Description	Stock No.	Price Each	
			1-4	
● DMS-20PC-1-LM-C	LED AC Voltmeter with threaded terminations and screws	87K3649	56.00	
● DMS-20PC-1-LM-B-C	LED AC Voltmeter with threaded terminations and screws	87K3648	65.00	
● DMS-20PC-1-LM-F-C	LED AC Voltmeter with blade terminals (installed)	87K3650	56.00	

(83957)

DATel® 3 1/2 DIGIT, SUBMINIATURE LED/LCD PANEL METERS



- Large 0.37" display
- Epoxy-encapsulated, 12-pin DIP package
- 4 differential input voltage ranges
- High accuracy, ±1 count
- User-selectable decimal point placement
- 0 to 60°C temperature rating

The DMS-20PC series, includes built-in color filter and bezel, high-intensity or low-power red LED options, a "DISPLAY ENABLE", "DISPLAY TEST" and an optional "DISPLAY HOLD". LED subminiature size: 1.38 x 0.88 x 0.48". The DMS-20LCD series is panel or pc-board mountable, provides low-battery annunciator, and optional backlit display and 9V battery power. LCD Subminiature size: 1.38 x 0.88 x 0.48".

3 1/2 DIGIT, RED LED

Mfg. Part No.	Power Supply (V)	Input Range	Display Intensity	Stock No.	Price Each
					1-4
● DMS-20PC-0-RS-C	5.00	±200mV	Standard	87K3640	42.00
● DMS-20PC-0-RL-C	5.00	±200mV	Low-Power	87K3639	46.00
● DMS-20PC-1-RS-C	5.00	±2V	Standard	87K3653	42.00
● DMS-20PC-1-RL-C	5.00	±2V	Low-Power	87K3652	46.00
● DMS-20PC-1-RH-C	5.00	±2V	High-Intensity	87K3651	46.00
● DMS-20PC-2-RS-C	5.00	±20V	Standard	87K3657	42.00
● DMS-20PC-2-RS-H-C*	5.00	±20V	Standard	16M5688	46.00
● DMS-20PC-2-RL-C	5.00	±20V	Low-Power	87K3656	46.00
● DMS-20PC-3-RL-C	5.00	±200V	Low-Power	87K3660	46.00

3 1/2 DIGIT, BLUE LED

● DMS-20PC-0-BS-C	5.00	±200mV	Standard	87K3635	50.00
● DMS-20PC-1-BS-C	5.00	±2V	Standard	87K3643	50.00
● DMS-20PC-2-BS-C	5.00	±20V	Standard	87K3654	50.00

3 1/2 DIGIT, GREEN LED

● DMS-20PC-0-GS-C	5.00	±200mV	Standard	87K3638	42.00
● DMS-20PC-1-GS-C	5.00	±2V	Standard	87K3647	42.00
● DMS-20PC-2-GS-C	5.00	±20V	Standard	87K3655	42.00

3 1/2 DIGIT, LCD

● DMS-20LCD-0-5-C	5.00	±200mV	LED	87K3628	32.00
● DMS-20LCD-1-5-C	5.00	±2V	LED	87K3631	32.00
● DMS-20LCD-2-5-C	5.00	±20V	LED	87K3633	32.00
● DMS-20LCD-0-9-C	9.00	±200mV	LED	87K3629	30.00
● DMS-20LCD-1-9-C	9.00	±2V	LED	87K3632	30.00

*H suffix calls out DISPLAY HOLD option (83962)

DATel® 3 1/2 DIGIT, MINIATURE LED/LCD PANEL METERS



- Epoxy-encapsulated, 12-pin DIP package
- 4 differential input voltage ranges
- High accuracy, ±1 count
- User-selectable decimal point placement
- Numerous "plug-on" application boards
- 0 to 60°C temperature rating

The DMS-30PC series includes built-in color filter and bezel, is panel or pc-board mountable and optional high-intensity or low-power red LED. LED miniature size: 2.17 x 0.92 x 0.56". The DMS-30LCD series provides autopolarity changeover and overrange indication, consumes power as low as 3.2mW, and offers optional backlit display and 9V battery power. LCD miniature size: 2.17 x 0.92 x 0.43".

3 1/2 DIGIT, 0.56" RED LED

Mfg. Part No.	Power Supply (V)	Input Range	Display Intensity	Stock No.	Price Each
					1-4
● DMS-30PC-0-RS-C	5.00	±200mV	Standard	87K3671	54.00
● DMS-30PC-0-RL-C	5.00	±200mV	Low-Power	87K3670	58.00
● DMS-30PC-1-RS-C	5.00	±2V	Standard	87K3676	54.00
● DMS-30PC-1-RL-C	5.00	±2V	Low-Power	87K3675	58.00
● DMS-30PC-1-RH-C	5.00	±2V	High-Intensity	87K3674	58.00
● DMS-30PC-2-RS-C	5.00	±20V	Standard	87K3680	54.00
● DMS-30PC-2-RL-C	5.00	±20V	Low-Power	87K3679	58.00
● DMS-30PC-3-RL-C	5.00	±200V	Low-Power	87K3681	58.00

► CONTINUED ►

DATEL® 3 1/2 DIGIT, MINIATURE LED/LCD PANEL METERS (CONT.)

3 1/2 DIGIT, 0.56" BLUE LED

Mfg. Part No.	Power Supply (V)	Input Range	Display Intensity	Stock No.	Price Each
					1-4
● DMS-30PC-1-BS-C	5.00	±2V	Standard	87K3672	65.00
● DMS-30PC-2-BS-C	5.00	±20V	Standard	87K3677	65.00

3 1/2 DIGIT, 0.56" GREEN LED

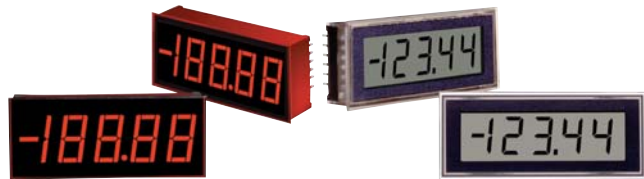
● DMS-30PC-0-GS-C	5.00	±200mV	Standard	87K3669	54.00
● DMS-30PC-1-GS-C	5.00	±2V	Standard	87K3673	54.00
● DMS-30PC-2-GS-C	5.00	±20V	Standard	87K3678	54.00

3 1/2 DIGIT, 0.40" LCD

● DMS-30LCD-0-5-C	5	±200mV	LCD	87K3662	48.00
● DMS-30LCD-1-5-C	5	±2V	LCD	87K3664	48.00
● DMS-30LCD-0-9-C	9	±200mV	LCD	87K3663	46.00
● DMS-30LCD-1-9-C	9	±2V	LCD	87K3665	46.00
● DMS-30LCD-2-5B-C	5	±20V	LCD	16M5707	50.00

(83964)

DATEL® 4 1/2 DIGIT, MINIATURE LED/LCD PANEL METERS



- Epoxy-encapsulated, 12-pin DIP package
- Panel or board mountable
- Display HOLD function standard
- 3 differential, dual, input voltage ranges
- Scientific-grade accuracy, ±2 counts
- 0 to 50°C temperature rating

The **DMS-40PC series** includes built-in color filter and bezel, precision, autozeroing, factory calibrated A/D converter, and optional high-intensity or low-power red LED's and BCD data outputs for CPU interface. LED miniature size: 2.17 x 0.92 x 0.56". The **DMS-40LCD series** includes user-selectable decimal point placement, low-battery annunciator, consumes typically 12.5mW, and offers optional backlit display and 9V battery power. LCD miniature size: 2.17 x 0.92 x 0.43".

4 1/2 DIGIT, 0.52" RED LED

Mfg. Part No.	Power Supply (V)	Input Range	Display Intensity	Stock No.	Price Each
					1-4
● DMS-40PC-1-RH-C	5.00	±2V	High-Intensity	87K3688	82.00
● DMS-40PC-1-RL-C	5.00	±2V	Low-Power	87K3690	82.00
● DMS-40PC-1-RL-BCD-C*	5.00	±2V	Low-Power	87K3689	86.00
● DMS-40PC-1-RS-C	5.00	±2V	Standard	87K3691	78.00
● DMS-40PC-2-RL-C	5.00	±20V	Low-Power	87K3692	82.00
● DMS-40PC-2-RS-C	5.00	±20V	Standard	87K3693	78.00

4 1/2 DIGIT, 0.52" GREEN LED

● DMS-40PC-1-GS-C	5.00	±2V	Standard	87K3687	78.00
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4 1/2 DIGIT, 0.40" LCD

● DMS-40LCD-0/1-5-C	5.00	±200mV	LCD	87K3684	78.00
● DMS-40LCD-1/2-5-C	5.00	±2V±20V	LCD	87K3685	78.00

*BCD data outputs for CPU interface (83967)

DATEL® DMS-30DR SERIES DAYLIGHT READABLE, AUTO-DIMMING 3 1/2 DIGIT LED PANEL METERS



- Super-bright LED display is readable in direct sunlight
- Autodim circuitry automatically adjusts display brightness
- External brightness adjustment for customizing intensity
- Large 0.56", easy-to-read red LED display
- 4 differential input ranges provide ±1 count accuracy
- Single +5V supply — less than 1W power consumption



DMS-30DR series digital panel meters offer LED displays that are readable in direct sunlight — no special filters or shading devices are required. Features Autodim circuitry that automatically adjusts the display's brightness to suit viewing environments, ranging from total darkness to full, brilliant sunlight. A user-accessible brightness adjustment pin allows custom intensity settings or display matching in multiple display applications. Available in four differential input voltage ranges: ±200mV, ±2V, ±20V and ±200V. Each meter incorporates a precision, ultra-stable voltage reference and is factory calibrated prior to encapsulation. The meter's 12-pin, component-like, DIP package is both vibration- and moisture-proof, making them ideal for harsh environments. Each meter includes a built-in color filter and bezel, and is easily mounted in either panels or PC boards. Miniature housing size: 0.92H x 2.17W x 0.56"D.

Mfg. Part No.	Input Range	Power Supply (V)	Stock No.	Price Each
				1-4
● DMS-30DR-0-R-C	±200mV	5.00	29M7512	65.00
● DMS-30DR-1-R-C	±2V	5.00	29M7513	65.00

➔ CONTINUED ➔

DATEL® DMS-30DR SERIES DAYLIGHT READABLE, AUTO-DIMMING 3 1/2 DIGIT LED PANEL METERS (CONT.)

Mfg. Part No.	Input Range	Power Supply (V)	Stock No.	Price Each
				1-4
● DMS-30DR-2-R-C	±20V	5.00	29M7514	65.00
● DMS-30DR-3-R-C	±200V	5.00	29M7515	65.00

(80995)

DATEL® SELF-POWERED 2-WIRE DC VOLTMETERS



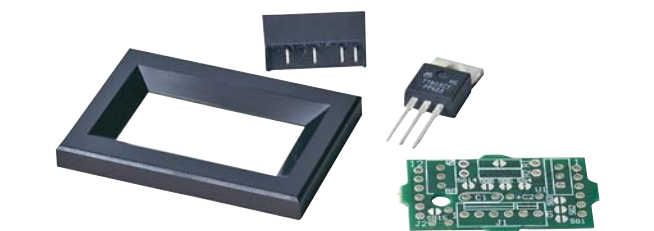
- Self-powered, only two connections required
- Low power consumption
- -25 to +60°C operating temperature
- Subminiature 1.38 x 0.88 x 1.0" package

DMS-20LCD-0/1 and **DMS-20PC-3/7** are reverse polarity protected and epoxy-encapsulated. **DMS-20LCD-0** and **1** has built-in "Vdc" annunciator and constructed with rugged ABS plastic. **DMS-30PC-0/1/3** provide ideal digital replacements for analog panel meters. Accessories available, go online or call Newark.

Mfg. Part No.	Input Range (Vdc)	Display	Stock No.	Price Each
				1-4
● DMS-20LCD-0-DCM-C	6.50 to 18.00	3-1/2 digit 0.37" high LED	87K3627	30.00
● DMS-20LCD-1-DCM-C	8.00 to 50.00	3 digit 0.37" high LED	87K3630	30.00
● DMS-20PC-0-DCM-C	4.50 to 19.99	3-1/2 digit 0.37" high Red	87K3637	50.00
● DMS-20PC-0-DCM-B-C	4.50 to 19.99	3-1/2 digit 0.37" high Blue	87K3636	59.00
● DMS-20PC-1-DCM-C	8.00 to 50.00	3-1/2 digit 0.37" high Red	87K3645	50.00
● DMS-20PC-1-DCM-B-C	8.00 to 50.00	3-1/2 digit 0.37" high Blue LED	87K3644	59.00
● DMS-20PC-3-DCM-C	2.00 to 11.00	3 digit 0.37" high Red	87K3658	50.00
● DMS-20PC-7-DCM-C	-36.0 to -75.0	3 digit 0.37" high Red	87K3661	50.00

(83956)

DATEL® DMS PANEL METER ACCESSORIES



Mfg. Part No.	Description	Stock No.	Price Each
● 7805SR-C	High-Efficiency Switch Regulator	87K6146	9.90
● DMS-PS1-CM-C	High-Efficiency, AC/DC Instrumentation Power Supply with Individually Isolated Outputs	16M5643	54.00
DMS-20-CP	DMS-20 Panel Cutout Punch	01K5530	280.00
DMS-30-CP	DMS-30 Panel Cutout Punch	01K5609	280.00
● DMS-BZL3C	DMS-20 Bezel Assembly	28M9623	4.00
● DMS-BZL4-C	DMS-20 Bezel Assembly with EPDM Rubber Gasket	28M0113	6.00
DMS-BZL1	DMS-30/40 Bezel Assembly	11J1970	4.00
● DMS-BZL2-C	DMS-30/40 Bezel Assembly with EPDM Rubber Gasket	39M8063	6.00
● DMS-EB2-C	Multi-Purpose Application Board for DMS-20	16M5642	14.00
● DMS-EB-C	Multi-Purpose Application Board for DMS-30 and DMS-40 Series Meters	16M5635	14.00

(83969)

FIND IT • BUY IT • GET IT • DONE

"It's easy to do business with Newark online or by phone."

(116883)

VOLTS MINI • POWER MONITOR

DIGITAL VOLTMETERS FOR OEMS



OEM4-LED

OEM 1B

OEM 1B-LED

- Ultra-miniature, component-style
- Ultra-low current 150µA (LCD) and 50mA (LED) typical
- Selectable decimal points

- 200mV full scale reading
- 4-digit data display module

Provided in a compact DIL package, the OEM series can be easily integrated into applications where space constraints exist and the full functionality of a digital voltmeter is required. Mfg. part no. OEM 1B is a metal framed LCD meter and mfg. part no. OEM 1B-LED is a potted LED meter with an integral red filter. Both meters have on-board calibration adjustment. Mfg. part no. OEM4-LED has four digits and three decimal places. It accepts a clocked serial bitstream which corresponds with the segments to be displayed, and a data enable input to latch the data on the LEDs and up to four external LEDs.

Mfg. Part No.	Display	W x H	Digits	Digit Height	Stock No.	Price Each	
						1-4	5-9
OEM 1B	LCD	0.92 x 0.65"	3 1/2	0.31"	02H6797	45.76	41.08
OEM 1B-LED	LED	0.92 x 0.65"	3 1/2	0.31"	02H6798	26.35	23.66
OEM4-LED	LED	0.92 x 0.65"	4	0.31"	28K2621	20.72	18.60

(73563)

SP SERIES SPLASHPROOF PANEL METERS



SP 100 and SP 300

SP 200 and SP 400

SP 400-BLUE

- Seal provides splashproof protection
- Ultra-low profile

- Low current: 50mA (LED), 350µA (LCD) typical
- Ultra-high accuracy: 0.1% (±1 count) typical

3 1/2 digit voltmeters with ±200VDC full-scale reading. 12-pin dual in-line connection versions are compatible with competing meters, while lower-cost 8- and 9-pin versions are better suited to new designs. 1.38"W x 0.88"H.

Mfg. Part No.	Display	Digit Height	Pins	Stock No.	Price Each	
					1-9	10-24
SP 100	LED	0.37"	12	36C2858	42.70	40.30
SP 200	LCD	0.38"	12	36C2859	33.12	31.26
SP 300	LED	0.37"	8	36C2860	36.33	34.29
SP 400	LCD	0.38"	9	36C2861	28.84	27.22
SP 400-BLUE	LCD	0.38"	9	28K2622	32.48	30.66

(69457)

BIG-LITTLE LCD 3 1/2-DIGIT PANEL METERS



BL100202-U

BL-300202-01-U

- High-Contrast LCD Readout
- User-Selectable Decimal Point
- Low Power Consumption
- Auto-Polarity (-) Displayed



BL-531201-01-U

BL series digital panel meters feature 0.5" (12.70) high digits on high-contrast LCD. 1999-count maximum. Accuracy: ±0.1% reading +2 count. Resolution: one art in 2000. User-selectable decimal point. Automatic polarity (-) displayed. BL-100 is surface/window mount. BL-130 is bezel mount. Both types have a 13-pin terminal. BL-176 is flat pack DPM with solder pad connections. Order 176-BK bezel kit with mounting hardware separately below. BL-300 and BL-500 are LCD digital panel meters with LED backlighting. Easily read in dark or bright sunlight. Digits are 0.5" (12.70) high. 1999-count maximum. Decimal point user-selectable. Auto polarity. Red or green backlight. Backlight power: 5VDC. Voltage range: 4.7V to 5.25V maximum. Red current: 130mA to 200mA, 165mA nominal. Green current: 75mA to 160mA, 115mA nominal. 13-pin terminal. Operating temperature range: -20° to +60°C. BL-300 positive image dark on green background; BL-500 negative image, red segments on dark background.

➔ CONTINUED ➔

BIG-LITTLE LCD 3 1/2-DIGIT PANEL METERS (CONT.)

WINDOW-MOUNT DIGITAL PANEL METERS

Mfg. Part No.	Power	Input	Stock No.	Price Each
BL100202-U	+5V and -5VDC	2VDC	46F164	59.25
BL-100-301-U	+5VDC	200mVDC	46F165	67.05
BL-100-302-U	+5VDC	2VDC	46F166	67.05
BL-100-303-U	+5VDC	20VDC	90F9684	67.05

BEZEL-MOUNT DIGITAL PANEL METERS

Mfg. Part No.	Power	Input	Stock No.	Price Each
BL130201-U	+5V and -5VDC	200mVDC	46F169	63.15
BL130202-U	+5V and -5VDC	2VDC	46F170	63.15
BL-130-301-U	+5VDC	200mVDC	46F171	70.95
BL-130-302-U	+5VDC	2VDC	46F172	70.95
BL130303U	+5VDC	20VDC	90F9686	70.95

FLAT-PACK DIGITAL PANEL METERS

Mfg. Part No.	Power	Input	Stock No.	Price Each
BL176201-U	+5V and -5VDC	200mVDC	46F175	41.25
BL-176-202	+5V and -5VDC	2VDC	46F176	41.25
BL176301-U	+5VDC	200mVDC	46F177	59.25
BL-176-302	+5VDC	2VDC	46F178	59.25
BL176303U	+5VDC	20VDC	90F9688	59.25

GREEN BACKLIGHT, WINDOW-MOUNT DPMs

BL-300-302-01-U	+5VDC	2VDC	87F2572	83.60
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GREEN BACKLIGHT, BEZEL-MOUNT DPMs

BL-330-202-01-U	+5V and -5VDC	2VDC	87F2574	79.70
BL-330-301-01-U	+5VDC	200mVDC	87F2575	87.50
BL330302-01U	+5VDC	2VDC	87F2562	87.50

RED BACKLIGHT, BEZEL-MOUNT DPMs

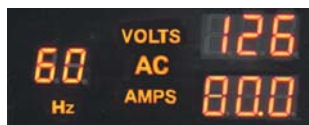
BL530302-01U	+5VDC	2VDC	87F2536	94.00
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BEZEL KIT

Mfg. Part No.	Description	Stock No.	Price Each
176BK	Bezel kit	89F4226	5.50

(3468)

D-CK 920 SERIES MULTIFUNCTION 2 1/2 DIGITAL PANEL METERS



AC



DC

- Display: 0.38" LED high intensity
- AC voltage accuracy: 1% of reading ±1 count between 45 and 65Hz
- AC current TRMS sensing accuracy: 2% of reading ±1 count
- Frequency accuracy: 0.5% from 45-65Hz ±1 count
- DC volts accuracy: 0.1% of reading ±1 count
- DC amperes accuracy: 1% of reading ±1 count

Operating temperature: -20°C to +60°C. Storage temperature: -40°C to +85°C. Relative humidity non-condensing: 0-95%

Mfg. Part No.	Signal Input Type	Stock No.	Price Each
D-CK920-AC-3	Selectable AC Voltage and Current	84K7373	257.40
D-CK920-DC-2	Selectable DC Voltage and Current	84K7374	140.00

(88770)

GIMA® SERIES 3-PHASE METERS



Simpson's GIMA® series replaces ammeters, voltmeters, switches, power factor and kW indicators, and kWh meters. Provides a single source of instrumentation for all measurement and metering requirements. Offers accurate, high-speed, continuous measurement, regardless of harmonics and waveform interruptions. "Auto-Commissioning" ensures that a reverse current transformer connection will not cause reading errors. Per phase kW and power factor allow cross-phase connection errors to be quickly and easily detected. Full 4-digit resolution of single-phase values and 5-digit resolution of 3-phase values. Offers maximum visibility with a custom backlit LCD display. The display is fully visible under most conditions and from all angles. Clear display legends ensure simple reading with no multipliers required. Power: 115VAC. Input current: 5A. Also available with 230VAC power. go online or call. CE compliant.



MEASUREMENT CAPABILITIES

Parameter	Type G100	Type G200	Type G300	Type G400
Phase Amps	Yes	Yes	Yes	Yes
Phase Volts	Yes	Yes	Yes	Yes
Line Volts	Yes	Yes	Yes	Yes
Per Phase PF	Yes	Yes	Yes	Yes
Per Phase kW	Yes	Yes	Yes	Yes
Per Phase kvar	No	No	Yes	Yes
Per Phase kva	No	No	No	Yes

➔ CONTINUED ➔

POWER MONITOR • TIMERS – 1/16 DIN

GIMA® SERIES 3-PHASE METERS (CONT.)

Parameter	Type G100	Type G200	Type G300	Type G400
3-Phase PF	Yes	Yes	Yes	Yes
3-Phase kW	Yes	Yes	Yes	Yes
3-Phase kvar	No	No	Yes	Yes
3-Phase kva	No	No	No	Yes
Frequency	Yes	Yes	Yes	Yes
kWh	No	Yes	Yes	Yes
Capacitive kvarh	No	No	Yes	Yes
Inductive kvarh	No	No	Yes	Yes
Total kvarh	No	No	Yes	Yes
Import kvarh	No	No	No	Yes
Current Demand	Yes	Yes	Yes	Yes
Voltage Demand	Yes	Yes	Yes	Yes
kW Demand	No	No	Yes	Yes
Peak Amps	No	No	No	Yes
Peak Phase Volts	No	No	No	Yes
Peak Current Demand	Yes	Yes	Yes	Yes
Peak Voltage Demand	Yes	Yes	Yes	Yes
Neutral Current	No	No	No	Yes

GIMA® SERIES 3 PHASE METERS

Mfg. Part No.	Input	Stock No.	Price Each
G100-1-1-1-0	120/208V	25C4129	477.16
G100-1-3-1-0	277/408V	25C4130	477.16
G200-1-1-1-0	120/208V	20C3982	532.20
G200-1-2-1-0	120/240V	20C3984	532.20
G200-1-3-1-0	277/480V	20C3986	532.20
G200-1-4-1-0	63/110V	20C3987	532.20
G300-1-1-1-0	120/208V	25C4131	587.27
G300-1-3-1-0	277/480V	25C4132	587.27
G400-1-1-1-0	120/208V	20C3978	666.31
G400-1-3-1-0	277/480V	20C3981	666.31

(61276)

GIMA® ACCESSORIES



370xx



3-PHASE CURRENT TRANSFORMERS

Can be used to monitor AC current when the current level is too high for the meter.

Mfg. Part No.	Current Ratio	Stock No.	Price Each
37026	50:5	20C3988	105.53
37027	100:5	25C2456	105.53
37028	150:5	25C4197	105.53
37029	200:5	20C3991	105.53
37030	300:5	27C0306	105.53

(72388)

POWER LOGIC POWER METER 800 INPUT/OUTPUT MODULE

Features:

- Plug and play design in a compact (96 x 96mm) unit
- Link several analog and digital I/O inputs to a single PM820
- View 3 phases, plus neutral, for current or voltage at the same time
- Modular design allows for easy upgrade path
- Samples continuously at 128 times per cycle; no blind spots in data collection

Specifications:

- Digital input voltage range: 20-150VAC/DC
- Digital output voltage range: 0-240VAC, 0-30VDC
- Analog input voltage/current range: 0-5VDC or 4-20mA user selectable
- 80kb onboard logging



Mfg. Part No.	Description	Stock No.	Price Each
PM820	Power Meter with integrated display, THD, alarming	89H5544	2474.61

(90756)

MODEL PR300 POWER AND ENERGY METERS

Just Added



- Save on cost, wiring and space
- Demand measurement
- Convert the phase and wire system of an AC power system and an input voltage circuit to a universal format
- Compatible with ANSI 4-inch round for size and DIN 96-square instrument size
- Standard equipped with an RS-485 communication function and capable of Ethernet communication

Panel-mount power and energy meters with large, three-row displays integrate all the measuring functions required for power management in locations such as factories and buildings into a single unit. With the objective of working toward the preservation of the global environment by saving energy and performing equipment maintenance, the PR300 series is designed to display and output the energy of various types of electrical equipment. Equipped with a transducer function for power (active, regenerative, reactive and apparent), voltage current, frequency and power factor (4 to 20mA DC). Enable the measurement of the maximum and minimum values of current as well as the use of the external digital input to measure energy at arbitrary times. Capable of outputting pulses proportional to energy (one measurement item from active, regenerative, reactive and apparent energy). Power line indications A, B and C provided for overseas use, in addition to R, S and T.

UNIVERSAL VOLTAGE INPUT (150V, 300V, 600V) / 1A AC

Mfg. Part No.	Phase and Wire System	Output Function	Stock No.	Price Each
PR300-3-1-0-0-0-6-A-0	Universal 3-Phase, 3-Wire	...	59M6604	595.00
PR300-3-1-1-0-0-6-A-0	Universal 3-Phase, 3-Wire	1 Analog	59M6605	625.00
PR300-3-1-2-0-0-6-A-0	Universal 3-Phase, 3-Wire	1 Pulse	59M6606	635.00
PR300-3-1-3-3-3-6-A-0	Universal 3-Phase, 3-Wire	1 Analog, 1 Pulse	59M6607	895.00
PR300-4-1-0-0-0-6-A-0	Universal 3-Phase, 4-Wire	...	59M6612	595.00
PR300-4-1-1-0-0-6-A-0	Universal 3-Phase, 4-Wire	1 Analog	59M6613	625.00
PR300-4-1-2-0-0-6-A-0	Universal 3-Phase, 4-Wire	1 Pulse	59M6614	635.00
PR300-4-1-3-3-3-6-A-0*	Universal 3-Phase, 4-Wire	1 Analog, 1 Pulse	59M6615	985.00
PR300-5-1-0-0-0-6-A-0	3-Phase, 4-Wire	...	59M6620	595.00
PR300-5-1-1-0-0-6-A-0	3-Phase, 4-Wire	1 Analog	59M6621	625.00
PR300-5-1-2-0-0-6-A-0	3-Phase, 4-Wire	1 Pulse	59M6622	635.00
PR300-5-1-3-3-3-6-A-0*	3-Phase, 4-Wire	1 Analog, 1 Pulse	59M6623	985.00

UNIVERSAL VOLTAGE INPUT (150V, 300V, 600V) / 5A AC

Mfg. Part No.	Phase and Wire System	Output Function	Stock No.	Price Each
PR300-3-2-0-0-0-6-A-0	Universal 3-Phase, 3-Wire	...	59M6608	595.00
PR300-3-2-1-0-0-6-A-0	Universal 3-Phase, 3-Wire	1 Analog	59M6609	625.00
PR300-3-2-2-0-0-6-A-0	Universal 3-Phase, 3-Wire	1 Pulse	59M6610	635.00
PR300-3-2-3-3-3-6-A-0*	Universal 3-Phase, 3-Wire	1 Analog, 1 Pulse	59M6611	895.00
PR300-4-2-0-0-0-6-A-0	Universal 3-Phase, 4-Wire	...	59M6616	595.00
PR300-4-2-1-0-0-6-A-0	Universal 3-Phase, 4-Wire	1 Analog	59M6617	625.00
PR300-4-2-2-0-0-6-A-0	Universal 3-Phase, 4-Wire	1 Pulse	59M6618	725.00
PR300-4-2-3-3-3-6-A-0*	Universal 3-Phase, 4-Wire	1 Analog, 1 Pulse	59M6619	985.00
PR300-5-2-0-0-0-6-A-0	3-Phase, 4-Wire	...	59M6624	595.00
PR300-5-2-1-0-0-6-A-0	3-Phase, 4-Wire	1 Analog	59M6625	625.00
PR300-5-2-2-0-0-6-A-0	3-Phase, 4-Wire	1 Pulse	59M6626	635.00
PR300-5-2-3-3-3-6-A-0*	3-Phase, 4-Wire	1 Analog, 1 Pulse	59M6627	985.00

* RS-485 communication, Ethernet communication. Demand measurement (1 demand alarm output). (101630)

48 x 48 PROGRAMMABLE TIMERS



TMR series are multi/mono-function timers based in a 1/16th DIN (48 x 48mm) enclosure. Large dial allows easy setting and direct reading. Times are adjustable from 0.005sec to 300hrs. LEDs monitor power and output relays. Output relays rated 2 x 5A at 250VAC, SPDT. Supply voltage: 12-240VDC, 24-240VAC. Can be panel mounted.



Function	Description
A, A1, A2	Delay-On-Make
H1, H2	Timing on Energization - Interval
Q1	Star-Delta
Q2	Star-Delta 2
D-Di	Cycle-Timing: Repeat-Cycle: Symmetric Recycler
B	Timing on Impulse: Single Shot
C	Timing After Impulse - Delay-On-Break - Delay-Off w/ constant supply
W	Timing After Impulse on Control Contact
G	Cyclic Function
Ac	Timing After Closing and Opening of Control Contact
Bw	Pulse Output (Adjustable)
L/Li - G/Gi	Cyclic Timing: Asymmetrical Recycler

Mfg. Part No.	Mounting	Function	Stock No.	Price Each
88886016	11-pin	A, Ac, B, Bw, G, W	17M8555	73.12
88886116	8-pin	A1, A2, D-Di, H1, H2, Q1, Q2	17M8557	73.12

➤ CONTINUED ➤

TIMERS – 1/16 DIN

48 x 48
PROGRAMMABLE TIMERS (CONT.)

Mfg. Part No.	Mounting	Function	Stock No.	Price Each	
				1-14	
● 88886106	8-pin	A	17M8556	70.20	
● 88886516	11-pin	L, Li, G, Gi	18M4438	73.12	

(79441)

EAGLE SIGNAL BRAND B856
SERIES MULTIFUNCTION TIMERS



Feature a compact 1/16 DIN housing, precise digital setting, versatile functionality, and straightforward button-per-digit interface. Programmable to perform On-Delay, Off-Delay, Interval, or Repeat Cycle timing functions. Capable of performing the function of 2 separate timers. DPDT relay contact output. All programming is done from the front panel. Display: dual-line LCD.

Mfg. Part No.	Description	Stock No.	Price Each	
			1-5	
B856-500	Timed DPDT Output	91F3079	110.25	
B856-511	1 Timed, 1 Instantaneous SPDT Output	91F3080	116.55	

(15427)

EAGLE SIGNAL BRAND
SERIES B846 TIMER



Combine simplicity of dial entered time presetting with advanced multimode functionality. Housed in a compact 1/16 DIN package. Selectable time ranges from 0.05 seconds to 100 hours. Field configurable to operate in On-Delay, Off-Delay, Interval or repeat cycle timing modes. B866-511 includes instantaneous contacts. Industry standard 8 or 11 pin socket connection. DIN rail mounted or panel mounted with optional hardware. NEMA 4 front panel and IEC 801 level 4 noise immunity. Universal power supply for 100-240VAC or 24-240VDC operation. Setting accuracy: ±5%. Repeat accuracy: ±0.3%.

Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	
B866-500	Dial Set Timer with Multi-Function	20K7201	72.54	
B866-511	Dial Set Timer w/Instantaneous Contacts	23K8375	79.24	

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
60SR2P06	8-Pin Socket	16F6462	13.02
60SR3P06	11-Pin Socket	16F6463	18.88

(3059)

MULTI-MODE
TIMERS



Analog Type



Digital Type

- Analog and digital available
- Delayed DPDT or delayed SPDT plus instantaneous SPDT
- 60 msec. max. reset

- 8- or 11-pin termination
- Dimensions: 1.57H x 1.42W x 2.53"D (40 x 36 x 64.2mm)
- UL listed, CE

GT3A is analog setting type, has contacts rated 250VAC/5A, 30VDC/5A max. POWER indicator flashes during time-delay operation. OUT indicator remains on while output on. Life expectancy: 20,000,000 operations mechanical, 100,000 electrical. GT3D is digital set type with contacts rated 240VAC/5A, 24VDC/5A max. Back-lit LCD display shows elapsed time or time remaining, LED OUT indicator remains lit while output on. Life expectancy: 10,000,000 operations mechanical, 100,000 electrical. Other time ranges available; go online or call.

ANALOG MODELS

Mfg. Part No.	Contacts	Time Range	Voltage	Pins	Stock No.	Price Each	
						1-14	
GT3A-2AF20	Delayed SPDT	0.05 sec. to 180 hr.	100-240VAC	8	96F3881	66.24	
GT3A-3AF20	Delayed DPDT	0.05 sec. to 180 hr.	100-240VAC	8	96F3884	60.94	
GT3F-2AF20	Delayed SPDT + Relay	0.05 sec. to 600 sec.	100-240VAC	8	50B4190	78.83	
GT3W-A11AF20N	Delayed DPDT	0.1 sec. to 6 hr.	100-240VAC	8	26H1600	78.83	
GT3A-4AF20	Delayed DPDT	0.05 sec. to 180 hr.	100-240VAC	11	96F3887	60.94	
GT3A-4AD24	Delayed DPDT	0.05 sec. to 180 hr.	24VAC/VDC	11	92B4668	60.94	

➔ CONTINUED ➔

● Indicates RoHS Compliant

MULTI-MODE TIMERS (CONT.)

DIGITAL MODELS

Mfg. Part No.	Contacts	Time Range	Voltage	Pins	Stock No.	Price Each	
						1-14	
GT3D-2AF20	Delayed SPDT + Relay	0.01 sec. to 99.9 hr.	100-240VAC	8	96F3894	105.99	
GT3D-3AD24	Delayed DPDT	0.01 sec. to 99.9 hr.	24VAC/VDC	8	96F3898	105.99	
GT3D-3AF20	Delayed DPDT	0.01 sec. to 99.9 hr.	100-240VAC	8	96F3897	105.99	
GT3D-4AD24	Delayed DPDT	0.01 sec. to 99.9 hr.	24VAC/VDC	11	96F3901	105.99	
GT3D-4AF20	Delayed DPDT	0.01 sec. to 99.9 hr.	100-240VAC	11	96F3900	105.99	

SOCKETS AND ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each	
			1-14	15-24
● SR3B-05	11-Blade Snap-Mount DIN Rail Socket	13M2994	7.14	6.45
● SR2P-06	8-Pin Snap-Mount DIN Rail Socket	13M2991	4.46	4.03
● SR3P-06	11-Pin Snap-Mount DIN Rail Socket	18M9335	7.14	6.45
● SR6P-M08G	8-Pin Wiring Socket Adapter	13M3003	7.49	6.77
● SR6P-M11G	11-Pin Wiring Socket Adapter	13M3004	15.63	14.13
● RTB-G01	Panel Mount Adapter	96F3910	3.81	3.44

(2738)

10A MULTIFUNCTION
TIMERS



- Time range: 0.1 sec-600 hrs
- DPDT (delayed outputs) contacts
- Reset time: 0.1 sec. max
- Mechanical life expectancy: 50,000,000 operations

Feature ON-delay/interval or signal OFF-delay/single shot and high-repeat accuracy of ±0.25%. Contacts rated 10A resistive at 240VAC/30VDC; 7A inductive at 240VAC/30VDC. 1.575"(40H) x 1.417"(36W) x 2.362"(60D). 11-blade socket SR3B-05. 8-pin socket SR2P-06. 11-pin sockets SR3P-05 and SR3P-05C.

Mfg. Part No.	Timing Function	Input Voltage	Termination	Stock No.	Price Each	
					1-14	
RTE-P2AF20	ON/OFF delay, OFF-delay, 1-shot	100-240VAC	11-pin	83H4153	60.53	
RTE-P2D12	ON/OFF delay, OFF-delay, 1-shot	12VDC	11-pin	82H8176	60.53	
RTE-P2AD24	ON/OFF delay, OFF-delay, 1-shot	24V AC/DC	11-pin	83H4152	60.53	
RTE-B2AF20	ON/OFF delay, OFF-delay, 1-shot	100-240VAC	11-blade	83H4147	60.53	
RTE-B2D12	ON/OFF delay, OFF-delay, 1-shot	12VDC	11-blade	83H4148	60.53	
RTE-B2AD24	ON/OFF delay, OFF-delay, 1-shot	24V AC/DC	11-blade	78H1740	60.53	
RTE-P1AF20	On-Delay, Interval, cycle OFF, cycle ON	100-240VAC	8-pin	83H4150	48.95	
RTE-B1AF20	On-Delay, Interval, cycle OFF, cycle ON	100-240VAC	11-blade	82H2304	56.67	
RTE-P1D12	On-Delay, Interval, cycle OFF, cycle ON	12VDC	8-pin	83H4151	48.95	
RTE-P1AD24	On-Delay, Interval, cycle OFF, cycle ON	24V AC/DC	8-pin	83H4149	48.95	
RTE-B1D12	On-Delay, Interval, cycle OFF, cycle ON	12VDC	11-blade	83H4146	56.67	
RTE-B1AD24	On-Delay, Interval, cycle OFF, cycle ON	24V AC/DC	11-blade	83H3624	56.67	

(2740)

ON-DELAY
TIMERS



- Delay-on-make (ON delay) function
- DPDT or SPDT + instantaneous SPDT contacts
- Contact rating: 24VDC/120VAC 5A, 240VAC 3A
- 8 time ranges
- Adjustable from 0.1 sec. to 10 min. or 0.1 min. to 10 hours
- Large, clear knob for easy setting
- Repeat error ±0.2% maximum
- Instant monitoring of operational status by LED indicators
- 8-pin, octal base

GE1A series timers are single-function (On Delay) time-delay relays. Extremely easy to configure for a wide variety of set times, the GE1A series serves as a simple "plug-and-play" timing solution. Handles settings up to 10 hours. 2 different contact configurations are designed to meet most application requirements. With IDEC's accessories, DIN rail, socket or through-panel (with a clear plastic protective cover) mounting configurations are available.

➔ CONTINUED ➔

ON-DELAY TIMERS (CONT.)
TIMERS

Mfg. Part No.	Contacts	Time Range	Rated Voltage	Stock No.	Price Each	
					1-14	15-24
GE1A-B10HA110	Del. SPDT and Inst. SPDT	0.1min. to 10hr.	110-120VAC	83C9524		27.83
GE1A-B10HA220	Del. SPDT and Inst. SPDT	0.1min. to 10hr.	220-240VAC	83C9525		27.83
GE1A-B10HAD24	Del. SPDT and Inst. SPDT	0.1min. to 10hr.	24VAC/VDC	83C9523		27.83
GE1A-B10MA110	Del. SPDT and Inst. SPDT	0.1sec. to 10min.	110-120VAC	83C9527		25.84
GE1A-B10MAD24	Del. SPDT and Inst. SPDT	0.1sec. to 10min.	24VAC/VDC	83C9526		25.84
GE1A-C10HAD24	Delayed DPDT	0.1min. to 10hr.	24VAC/VDC	83C9529		27.83
GE1A-C10HA110	Delayed DPDT	0.1min. to 10hr.	110-120VAC	83C9530		27.83
GE1A-C10MA110	Delayed DPDT	0.1sec. to 10min.	110-120VAC	83C9532		25.84
GE1A-C10MAD24	Delayed DPDT	0.1sec. to 10min.	24VAC/VDC	72C6940		25.84

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	25-49
SR6P-M08G	Screw Terminal Socket Adapter for Panel Mounting	13M3003	7.49	6.77
GE9Z-AD	Panel Mount Adapter	83C9534	2.07	1.90
GE9Z-C48	Clear Plastic Dust Cover	83C9535	2.59	2.38
SR2P-06	8-Pin Snap Mount DIN Rail Socket	13M2991	4.46	4.03
SY4S-05	Standard DIN Rail, for use with Optional Mounting Clip SFA-202	13M3022	8.70	7.69
SY4S-05C	Finger-Safe DIN Rail, for use with Optional Mounting Clip SFA-202	13M3023	10.41	9.19
SFA-202	Mounting Clip for use with DIN Rails	16F5300	0.28	0.25

(72441)

ON-DELAY TIMERS



GT5Y series on-delay timers with four selectable time ranges feature control setting set by hand or screwdriver. Power ON and timing and LED indicators. Operating temperature -10°C to +50°C.



100-120VAC

Mfg. Part No.	Time Range	Contacts	Stock No.	Price Each	
				1-14	15-24
GT5Y-4SN1A100	0.1 sec. to 10 min.	4PDT	66F4213	39.53	35.43
GT5Y-4SN3A100	0.1 sec. to 30 min.	4PDT	16F281	39.53	35.43
GT5Y-4SN6A100	0.1 sec. to 60 min.	4PDT	16F5291	39.53	35.43
GT5Y-2SN1A100	0.1 sec. - 10 min.	DPDT	16F280	39.53	35.43
GT5Y-2SN3A100	0.1 sec. to 30 min.	DPDT	30B6301	39.53	35.43
GT5Y-2SN6A100	0.1 sec. to 60 min.	DPDT	30B6306	39.53	35.43

24VDC

GT5Y-4SN1D24	0.1 sec. to 10 min.	4PDT	16F5292	39.53	35.43
GT5Y-4SN3D24	0.1 sec. to 30 min.	4PDT	16F5293	39.53	35.43
GT5Y-4SN6D24	0.1 sec. to 60 min.	4PDT	16F5294	37.21	...

12VDC

GT5Y-2SN1D12	0.1 sec. to 10 min.	DPDT	30B6300	39.53	35.43
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SOCKETS AND ACCESSORIES

Snap on to 1.38" (35mm) DIN rails.

Mfg. Part No.	Description	Mounting Clip (Opt.)	Stock No.	Price Each	
				1-24	25-49
SY4S-51	Panel Mt. Socket w/Solder Terms.	SFA-302	13M3024	1.24	1.10
SY4S-61	PC Board Mount Socket	SFA-302	13M3025	1.38	1.22
SY4S-62	PC Board Mount Socket	SY4S-51F1	13M3026	1.38	1.22
SFA-302	Mounting Clip for SY4S-51, SY4S-61 Sockets		16F5301	0.20	0.18
SFA-201	Hold-down Clip		16C0565	0.54	0.48

(3071)

Expert technical support

Chat online to our team of engineers, or connect to them through your representative.

(116882)

E42DP SERIES MULTIFUNCTION/ MULTIRANGE TIMERS



Durant

Model E42DP55 DIN rail- or base-mounted multi-function timer has a 3-digit LCD display that provides 2 lines of data and function annunciators: upper row, 0.275", indicates elapsed or time remaining; the lower row, 0.157", the setpoint. User selectable operation functions include: On Delay, Off Delay, Cycle One Shot, Single Shot, Repeat Cycle, Repeat Cycle Delay =, and Repeat Cycle =. Time setting ranges can be programmed in seconds, minutes, or hours. The inputs range from 12-260VAC/VDC and work with contact closure or NPN or PNP devices. The SPST output is programmable as a NO or NC, 10A 380VAC or 220VDC relay. Size: 3.07H x 0.88W x 3.94"D. **Model E42DP50** is a door-mounted timer with similar characteristics as model E42DP55 plus a full 6-digit LCD and 6 keys. Size: 1.88H x 1.88W x 2.36"D.



E42DP55



E42DP50

Mfg. Part No.	Description	Stock No.	Price Each	
			1-4	5-24
E42DP55	DIN Rail or Base Mount	16F8939		80.25
E42DP50	Panel Mount	16F8936		116.63

(6626)

MULTIFUNCTION TIME-DELAY RELAYS



- 12A carry current
- 12-240VAC supply voltage
- Timing range: 0.1 sec to 9990 hrs.
- Tamper proof dust cover
- Universal power supply
- Thumb wheel adjustment for function / timing
- 2 LED status indicators
- 5 timing functions controlled via supply voltage
- 4 timing functions controlled via trigger input 1
- Timing function of memory latching relay
- Retains settings / keeps dust out
- Indicate coil power / timing out / output state



The TDRPRO 5100 series is a programmable multi-function, multi-voltage time-delay relay with 10 time ranges. The 2 indicator LED's allow the user to know when power is present at the coil, output is energized or if the relay is performing one of its 10 timing functions. Contact rating horsepower: 1/2 @ 120VAC, 1/2 @ 240VAC. Dimensions: 48L x 48W x 121.3H mm. For use with sockets **70-464-1** (8-pin screw terminals), **70-465-1** (11-pin screw terminals), **70-750D8-1** (8-pin DIN/panel mount logic style touch-safe), **70-740D11-1** (11-pin DIN/panel mount logic style touch-safe), **70-750E8-1** (8-pin DIN touch-safe), **70-750E11-1** (11-pin DIN touch-safe).

Mfg. Part No.	Contacts	Input Voltage (VAC/VDC)	Pins	No. of Functions	Stock No.	Price Each	
						1-5	6-14
TDRPRO-5100	DPDT	12-240	11	10	93K5594	102.34	93.94
TDRPRO-5101	SPDT	12-240	8	10	93K5595	97.50	89.50
TDRPRO-5102	DPDT	12-240	8	3	93K5596	102.34	93.94

(88936)

1/16 DIN MULTIFUNCTION DIGITAL TIMER



- ON-Delay, Twin Timer, Repeat Cycle, Interval and Cumulative Timing Functions Available
- Large Backlit Negative LCD Display for Dim Lighting Conditions and Wide Angles
- Wide Variety of Timing Ranges from 0.0015 to 9999h
- Finger-Safe Terminal Sockets and Cover Available
- Supply Voltage: 100 to 240VAC, 50/60Hz or 24VAC/12 to 24VDC, 20% P-P Max. Ripple
- Operating Voltage: 85% to 110% VAC or 90% to 110% VDC
- Power Consumption: Approx. 6.2VA at 264VAC; 5.1VA at 26.4VAC; 2.4W at 12VDC
- Display: 11.5mm High Characters (Present Value); 6mm High Characters (Set Value); 7-Segment Negative Transmissive LCD
- Input Signals: Start, Gate (H5CX-A) and Reset; 1 or 20 ms Input Signal Width



Use the external DIP switch to configure the timer for simple jobs and the front panel switches for more complex settings. Screw terminal and 11-pin socket types have full functionality. Twin timer available on all models. 5A at 250VAC, SPDT contact output. Control output: SPDT contact, rated 5A@250VAC resistive load. Units with transistor output also available; Go online or call. UL listed, UL recognized, CE compliant.

➤ CONTINUED ➤

TIMERS – 1/16 DIN

1/16 DIN MULTIFUNCTION DIGITAL TIMER (CONT.)

Mfg. Part No.	Supply Voltage	Termination	Stock No.	Price Each	
				1-14	15-24
● H5CX-A AC100-240	100-240VAC	Screw Terminal	29C7981	167.40	159.30
● H5CX-AD AC24/DC12-24	12-24VDC or 24VAC	Screw Terminal	18M7369	167.40	159.30
● H5CX-A11 AC100-240	100-240VAC	11-Pin Socket	18M7370	167.40	159.30
● H5CX-A11D AC24/DC12-24	12-24VDC or 24VAC	11-Pin Socket	74C6498	181.35	172.58
● H5CX-L8 AC100-240	100-240VAC	8-Pin Socket	18M7371	157.17	149.57
● H5CX-L8D AC24/DC12-24	12-24VDC or 24VAC	8-Pin Socket	79C4151	137.27	130.63

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	25-49
● Y92F-30	Flush Mounting Adapter, Supplied with Screw Terminal Units	88K2030	8.58	8.30
● P2CF-08-E	8-Pin Track or Flush-Mount Socket	84C9861	8.49	8.08
● P2CF-11-E	11-Pin Track-Mounting, Front-Connecting Socket with Finger-Safe Terminals	98B1828	9.72	9.06
● P3G-08	8-Pin Panel-Mount Socket	88K1975	8.60	8.38
● P3GA-11	11-Pin Track-Mounting, Back-Connecting Socket	88K1976	9.34	9.03
● Y92A-48G	Finger-safe Terminal Cover for P3G-08 or P3GA-11 Socket	88K1286	5.73	5.46

(72211)

1/16 DIN NEMA 4 ON-DELAY TIMER WITH LED DISPLAY



H5CL digital timer provides NEMA 4 protection for use in water washdown and dusty environments. Large, easy-to-read four-digit LED display. ON-delay and cumulative operation functions with eight timing ranges from 0.001 second to 999.9 hours. Wide supply voltage range (100-240VAC or 12-24VDC) with SPDT 3A, 250VDC control output. Four no-voltage inputs include: gate, reset, start, and key protection. Rated NEMA 4 and IEC IP66 when using supplied rubber gasket. Dimensions: 1.89H x 1.89W x 2.87"D (48 x 48 x 73). Panel mounting adapter included. Requires 11-pin socket, *ordered separately; go online or call.* UL recognized, CSA certified, CE compliant.



Mfg. Part No.	Description	Stock No.	Price Each	
			1-14	15-24
● H5CX-A11 AC100-240	100-240VAC Timer	18M7370	167.40	159.30
● H5CX-AD AC24/DC12-24	12-24VDC Timer	18M7369	167.40	159.30

(3019)

SOLID-STATE TIMERS WITH HIGH SWITCHING CAPACITY



- ON-Delay Timing Function Only
- Multiple, Predetermined Time Range Selections: 5s, 5m, 10s, 10m, 30s, 30m, 60s, 60m
- Up to 7A Switching Capacity
- Choose SPDT or DPDT Contact Form
- Fit Standard 8-Pin Sockets
- Ideal Replacement for Time Relays
- Subminiature DIN Size 36 x 36mm
- LED Power-ON Indicator
- Timer Hold-Down Clips Supplied



For panel mount, use **Y92F-31** mounting adapter and **P3G-08** back mount socket. 12VDC and 24VDC supply voltages and time ranges available; *go online or call.* UL recognized, CSA certified SEV approved.

Mfg. Part No.	Switching Capacity (125-250VAC)	Output Configuration	Supply Voltage (VAC)	Timing Range	Stock No.	Price Each
						1-9
● H3JA8AC2002405M	7A	SPDT	200-240	0.5-5 min.	66J9336	48.51
● H3JA-8C AC100-120 30S	5A	DPDT	100-120	3-30 sec.	27M2455	48.51
● H3JA-8C AC100-120 5M	7A	DPDT	100-120	0.5-5 min.	27M2456	48.51
● H3JA-8C AC100-120 60S	5A	DPDT	100-120	6 to 60 sec.	09J1494	48.51
● H3JA-8C AC100-120 10S	5A	DPDT	100-120	1-10 sec.	09J1491	48.51

(60677)

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(116881)

● Indicates RoHS Compliant

1/16 DIN ANALOG SET ON-DELAY TIMERS



Choose ON-delay, Repeat Cycle, Interval, and One-shot timing functions with 8-pin model and these functions plus Signal ON/OFF delay, Signal OFF-delay with 11-pin model. Universal supply voltage (AC100-240/DC100-125) OR (AC24-48/DC12-24), short, 80mm (3.15 in) panel depth with socket. Socket for mounting, *ordered separately on page 1952.* UL recognized, CSA certified, CE compliant.

- Analog-Set Dial
- Field-Selectable Time Ranges from 0.05 Second to 300 Hours or 0.1 Second to 600 Hours
- Select 2-, 4-, or 6-Function Models to Handle Most Applications
- Wide-Range AC/DC Supply Voltage Models (AC100-240/DC100-125 or AC24-48/DC12-24)
- NPN Input; PNP Available
- Short, 80mm (3.15") Panel Mounting Depth with Socket Allows Space-Efficient Control Panel Design
- 8- or 11-Pin Mounting
- DPDT 5A@240VAC/30VDC Relay Output
- Choice of Light Gray, Medium Gray, or Black Panel Covers to Match Panel Aesthetics



100-120VAC SUPPLY VOLTAGE

Mfg. Part No.	Pins	No. of Timing Functions	Time Range	Stock No.	Price Each	
					1-14	15-24
● H3CR-H8L AC100-120 S	8	2	0.05 sec. to 12 sec.	52F4142	82.99	78.20

100-240VAC SUPPLY VOLTAGE

● H3CR-F AC100-240	11	2	0.05 sec. to 30 hr.	38B610	74.22	69.93
● H3CR-F8 AC100-240	8	2	0.05 sec. to 30 hr.	93K7586	71.63	67.49
● H3CR-F8-300 AC100-240	8	2	1.2 sec. to 300 hr.	52F4140	74.22	69.93

100-240VAC/100-125VDC SUPPLY VOLTAGE

● H3CR-A8-AC100-240/DC100-125	8	4	0.05 sec. to 300 hr.	94B1633	67.47	63.57
● H3CR-A8E AC100-240/DC100-125	8	4	0.05 sec. to 300 hr.	88K1948	78.39	73.86
● H3CR-A AC100-240/DC100-125	11	6	0.05 sec. to 300 hr.	95B5375	64.62	60.88

24-48VAC/12-48VDC SUPPLY VOLTAGE

● H3CR-A AC24-48/DC12-48	11	6	0.05 sec. to 300 hr.	93B4352	64.62	60.88
● H3CR-A8 AC24-48/DC12-48	8	4	0.05 sec. to 300 hr.	94B1639	67.47	63.57

(3013)

1/16 DIN DIGITAL SET TIMER WITH BAR GRAPH DISPLAY



H3CA timer offers accurate digital thumbwheel setting and easy-to-read LCD bar graph display for time remaining and LCD indicator of output status. Eight field-selectable operation modes include ON-delay, signal interval/OFF-delay I, repeat cycle, signal OFF-delay (I and II), interval, cycle, and signal ON-delay/OFF-delay. Seven selectable timing ranges from 0.1 second to 9990 hours. Universal voltage 24-240VAC or 12-240VDC, control output SPST 3A, 250VAC. Includes three no-voltage inputs for start, reset, and gate. Dimensions: 1.89H x 1.89W x 3.50"D (48 x 48 x 89). Requires 11-pin socket, *ordered separately; go online or call.* UL recognized, CSA certified.



Mfg. Part No.	Description	Stock No.	Price Each	
			1-14	15-24
● H3CA-A	Digital Set Multi-Mode Timer	18M7364	132.48	123.84

(3015)

P&B 10A MULTIFUNCTION TIME-DELAY RELAY



DPDT multifunction time-delay relay for plug-in or panel mounting. Five timing functions selectable via rotary switch. 0.1 sec. to 9,990 hr. timing range. Fixed input type (120VAC ±15%). Rated 10A @ 30VDC/277VAC resistive. 1/16 DIN style enclosure with 11-pin octal plug-in base. Thumbwheel switches for programming delay time. Outline dimensions in inches (mm): 2.83 (71.9L x 1.88(47.8)H x 1.88(47.8)W. Use **SSA-24C667** mounting clip to secure relay in panel-mount applications. UL recognized E22575, CSA certified LR15734.



RELAY

Mfg. Part No.	Nominal Voltage	Power Consumption	Stock No.	Price Each		
				1-4	5-9	10-24
CNM5	120VAC	3VA @ 120VAC	93F1051	92.42	87.09	83.09

► CONTINUED ►

TIMERS – 1/16 DIN • TIMERS – DIN RAIL

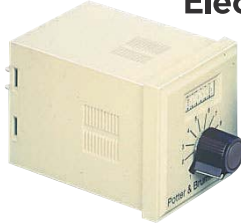
P&B 10A MULTIFUNCTION TIME-DELAY RELAY (CONT.)

11-PIN OCTAL SOCKETS

Mfg. Part No.	Dimensions (in)	Mounting	Stock No	Price Each		
				1-24	25-49	50-99
● 27E123	2.322 x 2.385 x .925	Screw	57F3432	4.82	4.43	4.08
● 27E892	2.035 x 2.332 x .970	Screw, DIN Mount	46F3588	7.07	6.49	5.98

(2711)

P&B 10A PROGRAMMABLE TIME-DELAY RELAYS



CNS Series are economical, multi-functional, programmable, time-delay relays housed in 1/16 DIN style enclosures. 8 programmable timing modes (4- on 8-pin models). Timing function and range selected by DIP switch, and actual delay time is set with adjustment knob and calibrated dial. Delay selectable from 0.1 sec. to 100 min. DPDT contacts rated 10A @ 240VAC/30VDC. Fixed input type 3VA @ 120VAC. Transient and reverse voltage protection. Temperature range: -10°C to +55°C. UL recognized, CSA certified.

RELAYS

Mfg. Part No.	Input Voltage	Pins	Stock No.	Price Each		
				1-4	5-9	10-24
CNS-35-72	120VAC	8	90F7645	61.65	58.80	55.95
CNS-35-76	120VAC	11	90F7646	78.57	74.94	71.29
CNS-35-92	24-240VAC/VDC	8	90F7647	68.71	65.53	62.35
CNS-35-96	24-240VAC/VDC	11	90F7648	81.92	78.14	74.35

SCREW TERMINAL OCTAL SOCKETS

27E891 and 27E892 are DIN rail snap mountable; for use with mounting track 24A110. For use with mounting clip SSA-24C667 for securing relay in panel-mount applications.

Mfg. Part No.	Pins	Mounting	Dimensions (in)	Stock No.	Price Each		
					1-24	25-49	50-99
● 27E122	8	Screw Terminal	2.385 x 1.572 x .925	57F3431	4.36	4.00	3.69
● 27E891	8	Screw Terminal, DIN Mount	2.010 x 1.575 x .970	46F3587	5.16	4.69	4.30
● 27E123	11	Screw Terminal	2.322 x 2.385 x .925	57F3432	4.82	4.43	4.08
● 27E892	11	Screw Terminal, DIN Mount	2.035 x 2.332 x .970	46F3588	7.07	6.49	5.98

(13928)

P&B 10A MULTIFUNCTION, DIGITAL TIME-DELAY RELAY/COUNTER



- 1/16 DIN enclosure
- 10 programmable timing modes
- 2 counting modes
- Thumbwheel switches for digital programming
- LCD digital readout
- 11-pin octal plug-in base
- Time-delay from 0.1sec to 9990 hr.

CNT Series are multi-functional, digitally programmable, time-delay relays/counters. DPDT, silver-cadmium oxide alloy contacts, rated 10A @ 240VAC/30VDC. Temperature range: -10°C to +55°C. Outline dimensions in inches (mm): 2.83 (71.9)L x 1.88 (48.8)H x 1.88 (47.8)W. UL recognized, CSA certified.

RELAYS

Mfg. Part No.	Input Voltage	Stock No.	Price Each		
			1-24	25-49	50-99
CNT-35-26	12VDC	90F7642	106.20	96.70	87.75
CNT-35-76	120VAC	90F7643	106.20	96.70	87.75
CNT-35-96	24-240VAC/VDC	90F7644	123.16	112.15	101.78

11-PIN OCTAL SOCKETS

For use with mounting clip mfg. part no. SSA-24C667 for securing relay in panel-mount applications.

Mfg. Part No.	Dimensions (in)	Mounting	Stock No.	Price Each		
				1-24	25-49	50-99
● 27E123	2.322 x 2.385 x .925	Screw-Terminal	57F3432	4.82	4.43	4.08
● 27E892	2.035 x 2.332 x .970	Screw Terminal, DIN Rail	46F3588	7.07	6.49	5.98

(3089)

MINI DIN RAIL MOUNT TIME-DELAY RELAYS



- Compact DIN rail mount housing
- Economically priced
- Universal power supply
- 0.1 seconds to 100 hours



Mini D-Series housed in 3H x 0.7W x 2"D housing (except the **DMB71**, which is 1.4W"). Snaps onto DIN rail. Provides an 8A SPDT output (with the exception of the **DMB71**, which provides a 5A DPDT output). All timers (with the exception of the **DBB series**) provide 6-switch selectable timing ranges from 0.1 seconds to 100 hours. Timing functions are listed below. The **DMB series** multifunction timers offer the following switch selectable choice of delays: delay-on-operate, interval, interval with external trigger, double interval, delay on release, and symmetrical recycler. Repeat accuracy: $\leq 0.2\%$. UL recognized, CSA certified, CE compliant.

Mfg. Part No.	Timing Function	Supply Voltage	Stock No.	Price Each	
				1-4	5-9
● DAA51CM24	On Delay	24-230VAC or 24VDC	05M4078	53.17	50.20
● DBB51CM2410M	Off Delay (1 to 10 Minutes)	24-230VAC or 24VDC	05M4081	83.31	78.41
DBB51CM2410S	Off Delay (1 to 10 Seconds)	24-230VAC or 24VDC	89C4336	79.75	75.29
● DMB51CM24	Multi-Function	24-230VAC or 24VDC	05M4092	62.03	58.56
● DMB51CW24	Multi-Function (12VDC)	24-230VAC or 12VDC	05M4093	77.14	72.60
DCB51CM24	Asymmetrical Recycler	24-230VAC or 24VDC	89C4354	113.22	106.90
DMB71DW24	Multi-Function	12-240VAC/DC	26K5686	107.31	101.32

(60577)

CHRONOS II TIMERS



- Multi-function or mono-function
- Multi-range (7 ranges, available options)
- SPDT relay output: 10A - 250V, or DPDT (Octal Plug-In Style)
- Screw or spring terminals (17.5 and 22.5 mm)
- LED status indicator
- 3-wire sensor control option



8- and 11-pin plug-in models are 35 x 35 x 79mm. 17.5mm DIN rail models are 17.5 x 81 x 69mm. 22.5mm DIN rail models are 22.5 x 78 x 99mm. All Chronos II timers rated at 10A@250VAC. Time range is selectable from 0.1 seconds to 100 hours.

17.5mm DIN MOUNT

Mfg. Part No.	Supply Voltage	Function	Con-tacts	Current Rating (A)	Stock No.	Price Each	
						1-14	15-24
● 88 826 135	24VDC, 24-240VAC	Delay-On-Break	SPDT	10	91B6258	47.23	44.29
● 88826115	24VDC, 24-240VAC	Delay-On-Make	SPDT	10	17M8546	39.03	36.60
● 88826044	24-240VAC	Interval	SPDT	0.7	28C6588	39.03	36.60
● 88826105	24VDC, 24-240VAC	Multifunction	SPDT	10	17M8545	56.21	52.71
● 88826503	12VAC/DC	Multifunction	SPDT	10	28C6595	68.09	63.86
● 88826004	24-240VAC	Multifunction	SPDT	0.7	28C6586	56.21	52.71
● 88 826 155	24VDC, 24-240VAC	Repeat Cycle	SPDT	10	17M8532	48.10	45.11
● 88826054	24-240VAC	Repeat Cycle	SPDT	0.7	17M8543	65.18	61.13
● 88 826 125	24VDC, 24-240VAC	Single Shot	SPDT	10	17M8531	47.23	44.29

22.5mm DIN MOUNT

● 88 865 115	24VDC, 24-240VAC	Delay-On-Make	SPDT	10	17M8533	39.24	36.80
● 88 865 215	24VDC, 24-240VAC	Delay-On-Make	DPDT	10	91B6332	56.21	52.71
● 88865155	24VDC, 24-240VAC	Repeat Cycle	SPDT	10	17M8551	50.59	47.44
● 88865265	24VDC, 24-240VAC	Off Delay	DPDT	10	17M8552	79.98	75.01

8-PIN OCTAL PLUG-IN

● 88 867 135	24VDC, 24-240VAC	Delay-On-Break	SPDT	10	17M8537	48.85	45.82
● 88867215	24VDC, 24-240VAC	Delay-On-Make	DPDT	10	17M8553	46.69	43.79
● 88 867 105	24VDC, 24-240VAC	Multifunction	SPDT	10	17M8536	56.21	52.71
● 88 867 100	12VAC/DC	Multifunction	SPDT	10	91B6339	57.29	53.72
88867801	24VDC, 24-240VAC	Repeat Cycle	SPDT	8	28C6621	56.21	52.71
● 88867155	24VDC, 24-240VAC	Repeat Cycle	SPDT	10	68K9127	53.29	49.98

11-PIN OCTAL PLUG-IN

Mfg. Part No.	Supply Voltage	Function	Con-tacts	Current Rating (A)	Stock No.	Price Each	
						1-14	15-24
88867435	24VDC, 24-240VAC	Delay-On-Break	DPDT	10	90B2436	56.21	52.71
● 88 867 415	24VDC, 24-240VAC	Delay-On-Make	DPDT	10	17M8540	46.90	43.99
● 88 867 305	24VDC, 24-240VAC	Multifunction	DPDT	10	17M8539	79.98	75.01
● 88 867 300	12VAC/DC	Multifunction	DPDT	10	17M8538	82.14	77.04
● 88 867 455	24VDC, 24-240VAC	Repeat Cycle	DPDT	10	17M8541	74.58	69.94

(52485)

TIMERS – DIN RAIL

MULTIFUNCTION DIN MOUNT TIMER



a company of Schneider Electric



- Universal voltage input
- DIN mount 17.5mm wide
- Finger-safe
- Ten time scales - 1 seconds to 10 days
- 2 status LEDs



10 Functions. On-delay, Interval, Repeat - Off-first, Repeat - On-first, Pulse generator, Off-delay, Interval - S make, Interval - S break, On and Off. Memory latch. **Specifications:** Input Voltage: 12 to 240VAC/VDC 50-60 Hz. Burden 3VA, 1.7W, Accuracy 0.2%, Operating temperature: -20 to 55°C, Output: SPDT 15A @ 240VAC, 24VDC, B300 pilot duty.

Mfg. Part No.	Stock No.	Price Each			
		1-14	15-24	25-49	50-99
● 821TD10H-UNI	10M6579	59.86	56.76	53.21	50.33

(79165)

ANALOG MULTIFUNCTION SOLID-STATE TIMERS



- High Immunity to Inverter Noise
- Programmable Contact Enables Building of Self-Holding Relay Circuit
- Wide-Range Time Setting of 0.10s to 120h
- Finger Protection Terminal Block
- Enables Easy Sequence Checks Through Instantaneous Outputs for a Zero Set Value at Any Time Range
- UL Recognized, CSA Certified, CE Compliant

Series H3DE analog set multifunction timers have a slim design for track mounting. Wide AC/DC power supply range of 24 - 230VAC/DC minimizes inventory. To cover a wide range of applications, there are 8 operating modes for H3DE-M and 4 operating modes for H3DE-S.

OPERATING MODES

H3DE-M2 & M1	H3DE-S2 & S1
A: ON-Delay (Signal or Power) B: Flicker OFF Start (Signal or Power) B2:Flicker ON Start (Signal or Power) C: Signal ON/OFF Delay D: Signal OFF Delay E: Interval (Signal or Power) G: Signal ON/OFF Delay J: One-Shot (Signal or Power)	A: ON-Delay B: Flicker ON Start E: Interval J: One-Shot

Mfg. Part No.	Output	Stock No.	Price Each
			1-5
● H3DE-M1AC/DC24-230	SPDT	18M7365	53.40
● H3DE-M2AC/DC24-230	DPDT	19C7107	64.08
● H3DE-S1AC/DC24-230	SPDT	18M7366	40.59
● H3DE-S2AC/DC24-230	DPDT	19C7109	53.40

(61878)

S1DXM-M SERIES TIMERS



Just Added



Panasonic Electric Works Corporation of America



Features

- 12 Time Ranges Available
- S1DXM-M Multifunctional
- Useable with HJ Relay Terminal Socket
- Space-Saving Design - 22.1 x 51.7 x 29.5mm
- UL Recognized, CSA Approved
- Easy and Safe Handling
- Wide Time Range
- Indicator LEDs Provide Status at a Glance
- Flush Mountable with Accessories



The S1DXM is a small, low-cost time delay relay available in Power On-Delay, Power Flicker, Power One-Shot, and Power One-Cycle configurations. Other features include flush mount capability, quickset dial, LED status indicators, and more.

Mfg. Part No.	Contacts	Time Range	Operating Voltage	Stock No.	Price 1-14
● S1DXM-M2C10M-DC24V	DPDT	0.05 sec to 10 min	24 VDC	08N3186	32.57
● S1DXM-M2C30M-DC24V	DPDT	0.2 sec to 30 min	24 VDC	08N3188	32.57
● S1DXM-M2C60M-DC24V	DPDT	0.5 sec to 60 min	24 VDC	08N3190	32.57
● S1DXM-M2C10H-DC24V	DPDT	0.05 min to 10 hr	24 VDC	08N3184	32.57
● S1DXM-M2C10M-AC120V	DPDT	0.05 sec to 10 min	100-120 VAC	08N3185	32.57
● S1DXM-M2C30M-AC120V	DPDT	0.2 sec to 30 min	100-120 VAC	08N3187	32.57

➔ CONTINUED ➔

S1DXM-M SERIES TIMERS (CONT.)

Mfg. Part No.	Contacts	Time Range	Operating Voltage	Stock No.	Price 1-14
● S1DXM-M2C60M-AC120V	DPDT	0.5 sec to 60 min	100-120 VAC	08N3189	32.57
● S1DXM-M2C10H-AC120V	DPDT	0.05 min to 10 hr	100-120 VAC	08N3183	32.57

(115549)

PM SERIES ANALOG TIMERS



Just Added



Panasonic Electric Works Corporation of America



DIN48



DIN24

- Multiple time ranges — 1 s to 500 h (Max.)
- Built-in Screw terminals
- 0 setting instantaneous output operation
- **PM4H:**
 - 100-240V AC free-voltage input, 48-125V DC type available
 - Short body — 62.5mm 2.461 inch (screw terminal type)
 - Front panel of IP65 type is protected against water-splash and dust
 - Screw terminal type is used for easy wiring and reducing additional cost for accessories
 - 8 different operation modes: (PM4H-A)
- **PM5S:**
 - 24-240V AC/DC free-voltage input
 - Slim body — DIN 22.5 mm .886 inch
 - 6 different operation modes: (PM5S-A)

DIN48 SIZE TIMERS

Mfg. Part No.	Time Range	Operating Voltage	Operation Mode	Stock No.	Price Each
					1-14
● PM4HA-H-24V	1 sec. to 500 hr.	24VAC	Multiple	16F1376	37.39
● PM4HA-H-AC240V	1 sec. to 500 hr.	100-240VAC	Multiple	10C8923	40.30
● PM4HS-H-AC240V	1 sec. to 500 hr.	100-240VAC	Power ON-delay	10C9027	39.21

DIN24 SIZE TIMERS

● PM5S-A-24-240V	1 sec. to 500 hr.	24-240VAC	Multiple	93B3742	47.90
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(115548)

P&B MULTIFUNCTION SOLID-STATE TIME-DELAY RELAYS



- 15 time ranges
- 0.05 sec. to 100 hour time ranges
- Contacts rated 3A @ 250VAC
- Breaking capacity is 2000VA
- DIN rail mountable
- 24VDC nominal input voltage

3RP Series relays tolerance is ±5% of full scale value. Reset time: 150ms. Contacts: silver tin oxide. Contact expected mechanical life: 200,000 operations at 3A, 250VAC, AC-15. Rated DC power supply: 2W. Rated AC power: 6VA. Temp. range: -25° to +60°C for operating and -40° to +80°C for storage. Mechanical life: 30 x 10⁶ operations. Max. switching rate at a rated load: 2500 ops/h. Mounts directly on 35mm DIN track with screw terminal termination. Switch adjustable available; go online or call.

MULTIFUNCTION

Mfg. Part No.	Nominal Voltage	Contacts	Functions	Stock No.	Price Each	
					1-24	25-49
3RP1505-1AQ30	24VAC/VDC, 100-127VAC	SPDT	1-8	48F4079	148.18	137.66
3RP1505-1BQ30	24VAC/VDC, 100-127VAC	DPDT	9-24	48F4081	155.97	144.90

DELAY ON

3RP1525-1AQ30	24VAC/VDC, 100-127VAC	SPDT	1	48F4083	92.18	85.63
3RP1525-1AP30	24VAC/VDC, 200-240VAC/VDC	SPDT	1	48F4084	92.18	85.63
3RP1525-1BQ30	24VAC/VDC, 100-127VAC	DPDT	9	48F4085	99.26	92.21

(37870)



TIMERS – 24 HR • TIMERS – ELAPSED

DIGITAL DAILY TIMERS



- Precise Control of Both Regular and Special (e.g., Half-day Operation) ON/OFF Times
- Can be Set for Timed or Pulsed Operation and for Multiple-day Operation
- 2 Mounting Types Available: Panel or Track Mounting
- Timing Chart Displayed for At-a-glance Confirmation
- DIN-sized 1/8 (48 x 48mm)
- SPST-NO 15A Relay Output
- Supply Voltage: 100-240VAC, 50/60Hz
- Power Consumption: Approximately 5VA



Panel Mount

NEMA 4 cover mfg. part no. Y92A-48N available; go online or call. UL recognized, CSA approved, SEV approved.

Mfg. Part No.	Mounting	Outside Dimensions H x W x L" (mm)	Stock No.	Price Each		
				1-9		
● H5FB	Panel	1.89 x 1.89 x 3.41 (48 x 48 x 86.7)	88K1950	208.28		
● H5F-KB	Surface/Track	3.93 x 1.97 x 2.87 (99.8 x 50 x 73)	88K1110	195.44		

(51887)

PROGRAMMABLE AM/PM WEEKLY TIMER



- AM/PM Display
- 24 Program Steps
- A Different Program Possible Each Day
- Over Midnight Setting Possible
- 2 Independent 15A Control Circuits with Manual Mode
- Automatic or Manual Operation Following Power Failure
- Field-adjustable ON/OFF, Cycle, and Pulse Input
- Easy-to-use Prompted Programming
- Wide Supply Voltage Range
- 10-year Battery Backup for Memory Protection
- DIN Size 72 x 72mm
- Contact Type: 2 SPST-NO Time-limit Contacts with Manual Override Switches
- Cycle Length: 1-minute to a Full Week



Surface/Track Mount

Ideal for HVAC, lighting, and other system operations in commercial or industrial environments. UL recognized, CSA certified, SEV approved. Hard plate cover Y92A-72C, track mounting adapter Y92F-90, and NEMA 4 cover Y92A-72N available; go online or call.

Mfg. Part No.	Mount	Outside Dimensions H x W x L" (mm)	Stock No.	Price Each		
				1-5	6-14	15-24
● H5SWFB2	Surface/track	4.99x2.83x2.68 (126.7x72x68)	80K0833	204.16	195.17	186.18

(3042)

PROGRAMMABLE 24-HOUR TIMER



H5L series programmable 24-hour weekly timer features easy front-panel set-up, 24-hour (military time), 7-day programming, and large, easy-to-read LCD display. Unit offers 2 independent SPST 15-amp circuits (with manual override switches) and wide operating voltage: 100-240VAC. Ideal for HVAC, lighting, and other system operations in commercial or industrial environments. Programs may be tailored to daily routines within single 24-hour periods. Built-in 10-year battery protects programming. Unit may be panel, surface or DIN rail mounted. Dimensions: 3.8H x 3.8W x 2.25"D (96 x 96 x 57mm). UL recognized, CSA certified.



Mfg. Part No.	Stock No.	Price Each			
		1-5	6-14	15-24	25-49
● H5L-A	52F4158	217.16	207.17	197.19	188.45

(3040)

ELAPSED TIME INDICATORS



Elapsed time indicators are ruggedly constructed true-time mechanisms for recording the ON time of electrical equipment and machinery. 7-digit display has capacity of 99999.99 hrs. 1.9"W x 1.6"L. UL recognized, CSA certified.



INDICATORS

Mfg. Part No.	Input Voltage	Input Type	Stock No.	Price Each		
				1-24	25-49	50-99
● 99761715	115VAC/60Hz	On input power	96F1859	54.34	49.44	45.61
● 99761718	24VAC/60Hz	On input power	17M8658	52.76	48.00	44.28

➔ CONTINUED ➔

ELAPSED TIME INDICATORS (CONT.)

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each		
			1-24	25-49	50-99
● 26546803	DIN Rail Adapter	17M8383	8.29	7.54	6.96

(2842)

LCD ELAPSED TIMERS/HOUR METERS



Durant



E42DIR



E42DI24

The E42DIR (round) and E42DI24 series (rectangular) are solid-state hour meters that record and display up to 99,999.9 hours, roll over and continue timing. Feature an EEPROM that can retain data for 25+ years. Operating temperature: 40°F to 185°F (-40°C to 85°C). Able to function in harsh conditions of vibration, shock, moisture and dust. Feature minimal power consumption, compact behind-panel depth and operating indicator (hourglass icon). Size: 2.30W x 1.125"D (round); 0.89H x 2.09W x 0.86"D (rectangular).

Mfg. Part No.	Description	Stock No.	Price Each	
			1-4	
● E42DIR48230	Round, 48-150VDC, 100-230VAC	89M5166	44.42	
● E42DIR1260	Round, 12-48VDC, 20-60VAC	89M5165	50.87	
● E42DI2448230	Rectangular, 48-150VDC, 100-230VAC	18C2536	43.61	
● E42DI241260	Rectangular, 12-48VDC, 20-60VAC	89M5167	43.61	

(60973)

DIOCHRON ECONOMY HOUR METER BY HOBBS



Honeywell

Sensing and Control

Features:

- Honeywell / Hobbs economy line of hourmeters
- Sealed, shock-resistant case
- Polycarbonate case and lens
- Run indicator

Specification:

- Quartz accuracy: ±0.02% (±200ppm)
- Temperature range: -40°F to 185°F
- Termination: 1/4" blade
- Number size: 0.12"



Mfg. Part No.	Meter Shape	Operating Voltage (VDC)	Number of Digits	Mounting	Stock No.	Price Each	
						1-14	15-24
082450 83	Rectangular	12-60	5	2-Screw	64K2420	28.90	27.88
082451 84	Round	12-60	5	Panel	64K2421	19.97	19.27
082453 85	Round	12-60	5	3-Screw	64K2422	19.97	19.27

(85746)

HOBBS 20000 SERIES AC HOUR METERS



Honeywell

Sensing and Control

Specification:

- Accuracy: 0.02%
- Records up to 99,999 hours
- Automatic recycle to zero
- Operating frequency: 60Hz
- Power rating: 3.0W
- Operating temperature: -54°C to 68°C
- Weight: 3oz
- Lens material: 3-screw mount: Glass, 2-screw mount: Polycarbonate
- Number size: 0.12" (3mm)

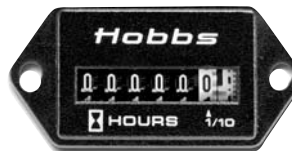


Fig. 1



Fig. 2

Features:

- Polycarbonate, shock resistant, tamper proof case
- Totally sealed
- Single phase, synchronous, permanently lubricated motor

These deluxe AC meters are totally sealed and benefit from a design which integrates the motor and frame into substructure.

Mfg. Part No.	Fig.	Operating Voltage (VDC)	Number of Digits	Termination	Stock No.	Price Each	
						1-14	
020001 17	1	108-132	6	Screw	64K2417	31.35	
020017 14	2	108-132	6	Screw	64K2418	34.57	

(85745)

TIMERS – ELAPSED

HOBBS 85000 SERIES QUARTZ PLUS HOUR METERS



Honeywell
Sensing and Control



Fig. 1



Fig. 2



Fig. 3



Fig. 4

Specification:

- 10,000hour version standard, with automatic recycle to zero
- Temperature range: -40°C to 85°C
- Quartz accuracy: ±200ppm, ±0.02%
- Precision built relay driven odometer

Features:

- Custom CMOS integrated circuit
- Indicates operating time in hours and tenths, plus has a running indicator

- Standard terminals: 1/4" male blade
- Lens material: Glass
- Case material: Polyester
- Number size: 0.12" (3mm)

- Totally sealed
- Excellent vibration and shock
- Battery system voltages: 6, 12, 24, 36, 48, 60, 72 and 80VDC

The Quartz Plus features a highly reliable drive mechanism, an improved odometer gear train, and a snap-together integrated chassis. The chassis fits into a shockproof, totally sealed case made of an engineered plastic that is impervious to acids and solvents.

Mfg. Part No.	Fig.	Operating Voltage (VDC)	Number of Digits	Mounting	Stock No.	Price Each	
						1-14	15-24
085331 12	1	6.5-16	5	Screw	64K2426	60.44	57.40
085094 12	1	10-80	5	Screw	64K2424	49.93	47.41
085097 02	2	10-80	5	Screw	64K2425	54.43	51.68
085342 03	3	10-80	5	Panel	64K2427	60.74	57.68
085093 03	4	10-80	5	Panel	64K2423	63.78	60.56

ACCESSORIES

Mfg. Part No.	Description	For Use With	Stock No.	Price Each	
				1-14	15-24
023944 01	Angle Bracket	Two-screw flange AC and DC rectangular meters	64K2419	2.92	2.77

(85744)

HONEYWELL HOBBS 98000 SERIES LCD HOUR METERS



Honeywell
Sensing and Control

Features:

- Totally sealed from moisture and dirt
- Direct replacement current hour meter
- No battery backup needed
- Fits in existing panel openings
- Snap-in retainer mount combines easy installation with rugged design
- Compact depth

Specification:

- Run accuracy: ±200ppm; ±0.02%
- Start time: Maximum 1 second
- 6-digit display
- Digit height: 6mm
- Termination: 1/4" blade
- Operating temperature: -40°C to 85°C
- Display: 0 to 99,999.9 (hours); 0 to 999,999 (counter)

The Hobbs 98000 series LCD hour meters provide a large easy-to-read display in a conventional size package.



Mfg. Part No.	Operating Voltage (VDC)	Number of Digits	Termination	Stock No.	Price Each	
					1-14	15-24
098313 12	9-64	6	2 terminal	64K2429	35.31	33.62
098323 92	9-64	6	3 terminal with enable	64K2430	36.95	35.19
098303 92	9-64	6	4 terminal resettable	64K2428	37.53	35.73

(85743)

AC ELAPSED TIME INDICATOR

This non-resettable running time meter features a 5-digit readout enclosed in a glass and metal housing. Indicates hours and tenths. Tamperproof no-reset feature. Dust and moisture resistant. Panel mount with 4 holes; 1.670" diameter panel cutout. Voltage: 120V/60Hz, -12°C to +55°C. **Mfg. part no. ED72-12** is UL recognized; **mfg. part no. ED71-12** is UL recognized and CSA certified. **Series 7010** hermetically sealed versions also available; *go online or call.*



Industrial Timer Company



Mfg. Part No.	Lead Configuration	Stock No.	Price Each
			1-24
● ED7212	11 1/4"	31C7201	243.00
● ED7112	Glass-Fused Solder Terminals	40C1626	216.11

(3084)

H/CH SERIES TIME DELAY TIMERS

External wiring is connected to terminal strip. Isolated SPDT load switch rated 10A non-inductive, 120VAC. **H series** have clutch motor, repeat accuracy ±1 full scale, and reset time 5% of dial setting. **CH series** have external clutch, repeat accuracy ±1-1/2% full scale, and reset time 0.5 second at max. setting. Both provide automatic reset upon removal of power and are panel-mounted. UL recognized, CSA certified.



CH Series



Industrial Timer Company

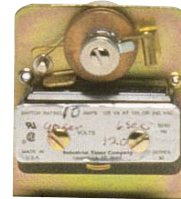


Mfg. Part No.	Time Cycle	Dial Div.	Stock No.	Price Each
				1-2
● H-15S	15 sec.	0.25 sec.	24F296	190.92
● CH-1M	1 min.	1 sec.	24F297	251.60

(2901)

90 SERIES DELAY TIMERS

For applications requiring infrequent adjustment. Isolated SPDT load switch, rated 10A, non-inductive, 120V/60Hz. Repeat accuracy: +1% full scale. Reset time: 5% of set time delay. Auto-reset upon power removal. UL recognized, CSA certified. 6, 30 and 60 second time cycles versions are available; *go online or call.*



Industrial Timer Company



Mfg. Part No.	Setting		Stock No.	Price Each
	Max.	Min.		1-2
90-15S	15 sec.	1.5 sec.	24F1844	120.69
90-90S	90 sec.	9 sec.	24F1847	221.27

(2903)

TDAB SERIES HIGH-PRECISION BACK-MOUNT TIMERS

For applications requiring high repetitive accuracy, fast reset, and anticipate heavy usage. Accuracy: ±0.25% full scale. Reset time: 0.5 seconds max. at full setting. Feature automatic reset and infinite-resolution clutch. Isolated SPDT switch rated 15A, 120V/60Hz. UL recognized, CSA certified. 6,15,60 second, 60 minutes, and 3 hour time cycles are available. *Go online or call.*



TDAB



Industrial Timer Company



Mfg. Part No.	Time Cycle	Dial Division	Stock No.	Price Each
				1-2
● TDAB-15S	15 sec.	0.25 sec.	24F302	309.32

(2905)

EG AND EF SERIES ELAPSED TIME INDICATORS

These elapsed time indicators feature a 6-digit readout with no reset capabilities. **EG series** is a basic timer without a housing or bezel and is designed for mounting behind a panel. **EF series** timers are provided with their own bezels. **EF13 series** has a round bezel. **EF27 series** has a square bezel. **EG series** and **EF13 series** units feature an operational indicator. Voltage: 120V/60Hz. **EF series** is UL recognized. All are CSA certified. Minutes and tenths available. *Go online or call.*



EF13



EF27



Industrial Timer Company

Mfg. Part No.	Description	Stock No.	Price Each
			1-2
● EF1335	Round Bezel, Indicates Hours and Tenths	54F062	98.80
● EF2735	Square Bezel, Indicates Hours and Tenths	54F170	83.60
● EG1335	Without Bezel, Indicates Hours and Tenths	87F5238	85.84

(3083)

TIMERS – ELAPSED

ELAPSED AND PRESET TIMERS



A103 series elapsed time indicators and preset timers can be programmed to meet your needs. They display in seconds, minutes, hours, or hours: minutes: seconds. All units use an internal 3-volt single or dual battery. Features include a 7-digit supertwist LCD with .47" (12mm) high digits and green illumination display backlight capability. Accepts input signals from dry contact, PNP, or NPN sensors. Timing start/stop can be initiated by solid-state signals or mechanical switches. Reset on front panel or remotely. Ranges and resolution: seconds, minutes to 1/10, hours to 1/10, hours: minutes: seconds. Connections made at screw terminals. Weight: 2.25 oz. (64 g). Front panel rated NEMA 4/IP65 for use in washdown environments. Order matching counters, rate indicators, and quick-attach option modules separately on this page.

Mfg. Part No.	Description	Stock No.	Price Each	
			1-5	
A103-006	Elapsed Time Indicator	52F1238	87.69	
A103-008	Preset Timer	52F1240	133.20	

(2848)

A103 SERIES OPTION MODULES



These quick-attach option modules provide a power supply for sensors, display backlighting, timing signals, and mechanical relay output. They accept high or low voltage AC or DC input signals. Low voltage input accepts 15 to 30VAC or VDC for count input. High voltage input accepts 100 to 260 volt AC/DC for count input. Mechanical relay output is SPDT (Form C); 120/240VAC, 30VDC contacts.

Mfg. Part No.	Description	Stock No.	Price Each
A103-A10	HV Input Module	52F1242	30.36
A103-A11	Relay Output Module	52F1243	30.36
A103-A12	AC Power Supply	52F1244	55.60
A103-A14	HV Input/Power Supply Module	52F1246	74.58
A103-A16	HV Input/Power Supply/Relay Module	52F1248	90.58
A103-A17	LV Input Module	52F1249	30.36
A103-A18	LV Input/Relay Out Module	52F1250	48.82
A103-A20	LV Input/Power Supply/Relay Module	52F1252	90.58

(2850)

VEEDER-ROOT BRAND HOURMETERS



Series 7795 rugged and reliable electric hourmeters fit 2" diameter round or 0.95 x 1.45" rectangular panel cutouts. 1/10 hour increments with capacity to 99999.9 hours (DC models: 9999.9) and 1% accuracy. Models for 120VAC or 10 to 32VDC operation. Compact, easy to install. Sealed against dirt and moisture and non-resettable. Ideal for use on any equipment to determine usage, maintenance and warranty periods. Temperature range: AC models: -65° to +154°F (-18° to +68°C); DC models: -40° to +185°F (-40° to +85°C).

Mfg. Part No.	Description	Stock No.	Price Each
0779555-216	Round, DC, Spade Terminals	87F1090	110.32
0779565-216	Rectangular, DC, Spade Terminals	87F1091	110.32
0779516-201	Round, AC, Screw Terminals	71C9395	78.61
0779526-201	Round, AC, 7" Leads	27C7866	77.23
0779536-201	Rectangular, AC, Screw Terminals	87F1089	77.23

(2758)

MODEL 720 ELECTRONIC LCD HOUR METER



- Rugged steel housing
- Non-reset
- Self-powered hour meter memory (internal lithium battery)
- Quartz accuracy (better than 0.01%)

Large 7-digit LCD display, (999999.9), 0.32" (8mm) high. Front of the unit is totally sealed. Rugged steel enclosure is interchangeable with Redington Model 720 electro-mechanical hour meters.

Mfg. Part No.	Operating Voltage (VAC)	Mounting	Termination	Stock No.	Price Each	
					1-14	15-24
7205300	85-500	3-Hole, Panel	6" Wire Leads	42J8417	150.03	141.49

(89427)

MODEL 722 AND 732 ELECTROMECHANICAL TOTALLY SEALED HOUR METERS



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7

- Model 722 operating range: 90-240VAC 50/60Hz
- Model 732 operating range: 18-30VDC
- Totally Sealed
- UL/CUL Recognized, CE & RoHS Compliant
- 6 Figure, 99999.9

The Reding Model 722 (AC Hour Meter) no longer requires two separate meters, one for 115VAC and one for 230VAC. The Redington Model 732 (DC Hour Meter) are protected for 2x battery voltage and/or reverse polarity. A quartz time base insures accurate long-term time keeping. Models have a square front panel dimension of 1.90" [48mm x 48mm]. Three adapter panels are also available for fitting additional panel dimensions.

AC HOUR METERS

Mfg. Part No.	Fig.	Operating Voltage (VAC)	Mounting	Meter Shape	Stock No.	Price Each	
						1-14	15-24
722-0001	1	90-240	2-Hole Panel	Rectangular	78H0980	77.70	75.00
722-0002	2	90-240	Flush-Panel	Rectangular	52M1956	77.70	75.00
722-0003	3	90-240	Flush-Round	Round	97H1577	77.70	75.00
722-0004	4	90-240	3-Hole Panel	Round	97H1578	77.70	75.00
722-0030	5	90-264	Flush-Panel with Clip	Square	05N0105	25.00	...

DC HOUR METERS

Mfg. Part No.	Fig.	Operating Voltage (VDC)	Mounting	Meter Shape	Stock No.	Price Each	
						1-14	15-24
732-0004	1	10-80	2-Hole Panel	Rectangular	88H4282	77.70	75.00
732-0001	4	10-80	3-Hole Panel	Round	82H1901	77.70	75.00
732-0030	5	10-80	Flush-Panel with Clip	Square	05N0108	25.00	...
732-0013	6	10-80	Cup-Panel	Round	05N0106	25.00	...
732-0023	7	10-80	Stirrup-Panel	Round	05N0107	25.00	...

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each	
			1-14	15-24
5003-005S	Sealing Gasket for 722-0004, 732-0001	97H1504	3.37	3.25
5003-008	Sealing Gasket for 732-0013, 732-0014, 732-0023, 732-0024	05N0093	0.80	...
5003-009	Sealing Gasket for 722-0002, 732-0002	05N0094	0.80	...
5003-010	Sealing Gasket for 722-0001, 732-0004	05N0095	0.80	...
5003-011	Sealing Gasket for 722-0004, 732-0001	66M8751	1.33	1.25
1662-024	Square Pane Bezel 72mm	05N0075	0.80	...
1662-025	Round Pane Bezel 72mm	05N0076	0.80	...
1662-026	Square Pane Bezel 55mm	05N0077	25.00	...

(89428)

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(116880)

TIMERS – ELAPSED

HOURLMETERS



7 digit, numerals magnified to 0.14", 2 oz., 2 watts (nominal AC), 0.4 watts (DC). Temperature range -13°F to +185°F, mounting by retaining clip or 2-screw mounting kit not included, 1.45" x .87" panel cutout. 1/4" spade terminals obtainable by removing screws from clamp. All are 99,999.99 hrs. AC models UL recognized, CSA certified, CE compliant. DC models CE compliant only.

AC HOURLMETERS

Mfg. Part No.	Voltage Max. (VAC)	Mount	Style	Stock No.	Price Each
					1-9
● 711-0130	115	2-Hole	Rectangular	48M1317	42.03
● 711-0131	230	2-Hole	Rectangular	48M1318	42.03
● 711-0113	115	Panel	Rectangular	48M1316	42.03

DC HOURLMETERS

Mfg. Part No.	Voltage Max. (VDC)	Mount	Style	Stock No.	Price Each
					1-9
● 731-0040	28	2-Hole	Rectangular	48M1323	39.54

FLUSH MOUNT AC HOURMETER

Flush mount, AC hourmeter, 15" leads, 2 watts (nominal), 1.98 x 0.99" panel cutout. 711-0019 is 6 figures with bracket retainer for mounting. 711-0020 is 7 figures with snap-in mounting. UL recognized, CSA certified, CE compliant.

Mfg. Part No.	Voltage Max. (VAC)	Mount	Style	Stock No.	Price Each
					1-9
● 711-0020	115	Panel	Rectangular	48M1315	55.38
● 711-0019	115	Panel	Rectangular	48M1314	145.73

AC ROUND AND SQUARE HOURLMETERS

7 digit, 0.14" numerals, 4 oz, 3 watts (nominal), temperature range -22°F to +158°F; panel cutout 1.99" dia. or 1.81" sq; incorporates retaining clip or 3-screw mounting kit included. 1/4" spade terminals obtainable by removing screws from clamp. All are 99,999.99 hrs. UL recognized, CSA certified, CE compliant.

Mfg. Part No.	Voltage Max. (VAC)	Mount	Style	Stock No.	Price Each
					1-9
● 711-0160	115	3-Hole	Round	48M1320	36.95
● 711-0162	230	3-Hole	Round	48M1321	38.51
● 711-0150	115	Panel	Round	48M1319	36.13
● 711-0190	115	Panel	Square	48M1322	40.27

(2772)

710 AC HOURLMETERS



Widely used in panel applications where number size and visibility are critical. Tough Lexan bezel and distinctive styling enhance appearance and durability. 5-digit reset or 6-digit non-reset, 0.19" numerals, 6 oz., 3 watt (nominal), 2.84" diameter bezel. 230, 115 or 24VAC versions. Temperature range: -20°F to +160°F; panel cutout 2.21" dia., 2.44 to 2.53" slotted mounting holes. All are 99,999.99 hrs. UL recognized, CSA certified, CE compliant.

NON-RESET

Mfg. Part No.	Voltage (VAC)	Termination	Stock No.	Price Each	
				1-14	15-24
● 710-0001	115	8" Leads	48M1311	44.72	42.56
● 710-0002	115	Terminal Block	48M1312	49.48	47.09

RESET

● 710-0013	115	8" Leads	48M1313	112.41	106.98
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(2771)

MODEL 34 LCD COUNTERS AND HOUR METERS

Just Added



- AC or DC voltage input in the same unit
- Tachometer/Hour Meter/Preset Counter versions
- Preset Hour Meter/time up or down and can be programmed with starting time
- Preset Counter with programmable output thresholds and a choice of reset modes
- Totally sealed from moisture and dirt

The Redington Model 34 LCD provides a large, always ON display, with 0.28" [7mm] high characters, in the standard industry size housings (1.45 x 0.95" [36.8 x 24.1mm]). The Hour Meters are available in 8 different housings, including a surface mount inductive input model. All models are totally sealed and are capable of submersion in 6' [2 meters] of water. A wide operating voltage, 10-300VDC and 20-300VAC, and inductive input make the Model 34 versatile for all indoor and outdoor applications. All models are NEMA 4/4X, 12, & IP66 rated when used with the optional gasket and have a polarized lens which assures high visibility in an outdoor environment.

Maintenance Meters are offered with a maximum of 3 "Redi-Alerts" icons 0.08" [2mm] to alert users when service is due. Models are available with front panel field or three factory programmable alerts. Not only does the display flash to get attention, but it displays a choice of 7 different maintenance icons. Models are available as a Preset Timer with a MOSFET output for the actuation of external alarms or indicator lamps. Users can program or specify the service interval and flash duration for each Redi-Alert. Flash duration is the amount of time in hours that the specific icon flashes before and after the service interval. If a front panel manual reset of the Redi-Alert is required the front panel models with switches must be specified.

LCD COUNTERS

Mfg. Part No.	Mounting Type	No. of Digits	Stock No.	Price Each
● 3400-0000	Panel Plug-In	8	05N0078	31.50
● 3400-1000	Panel Plug-In	8	05N0079	31.50
● 3400-2000	Panel Plug-In	8	05N0080	31.50
● 3400-3000	Panel Plug-In	8	05N0081	31.50
● 3400-4000	Panel Plug-In	8	05N0082	31.50
● 3400-5000	Panel Plug-In	8	05N0083	31.50
● 3400-7000	Panel Plug-In	8	05N0084	31.50

LCD HOUR METERS

● 3410-0000	Panel Plug-In	8	05N0085	31.50
● 3410-1000	Panel Plug-In	8	05N0086	31.50
● 3410-2000	Panel Plug-In	8	05N0087	31.50
● 3410-3000	Panel Plug-In	8	05N0089	31.50
● 3410-4000	Panel Plug-In	8	05N0090	31.50
● 3410-5000	Panel Plug-In	8	05N0091	31.50
● 3410-7000	Panel Plug-In	8	05N0092	31.50

(115440)

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(116879)

TIMERS – ELAPSED • TIMERS – ELECTRO-PNEUMATIC • TIMERS – INTERVAL

ELAPSED TIME METERS



Style 55ET 3.5" size, 120VAC or 240VAC input power. Accuracy synchronous with AC power. Styles 57ET and 2153ET 3.5", 120VAC input power. Accuracy synchronous with AC power. Style 112ET 1.5" size, 120VAC input power. Accuracy $\leq 0.01\%$ /24 hrs. Style 109ET 1.5" size, 10-80VDC input power or 100-265VAC with optional style 03619 adapter. Accuracy $\leq 0.01\%$ /24 hrs. All styles totalizing, non-resettable.

Mfg. Part No.	Style	Stock No.	Price Each
03580	55ET/120VAC	55F4359	108.35
03600	55ET/240VAC	55F4363	108.87
03590	57ET	55F4361	108.35
03595	1357ET	55F4360	108.35
17720	2153ET	57F2473	108.35
03622	112ET	12C8566	42.01
03618	109ET	46F1399	53.65
03619	AC Converter Module for Type 109ET	46F1438	15.18

(2378)

AGASTAT INDUSTRIAL ELECTROPNEUMATIC TIMING RELAYS



- Available in On-delay, true Off-delay and On/Off-delay
- Timing from 0.1 s to 60 min., fully calibrated in linear increments
- Operating voltages: 6 to 550VAC and 12 to 550VDC with special voltages available
- Available in 2-pole or 4-pole models
- Many enclosure options: explosion proof, dust tight, watertight, hermetically-sealed, NEMA 1
- Mounting options: surface mount, panel mount, octal plug-in mounting
- Options and accessories: quick-connect terminals, dial stops and transient protection module
- Front terminals: easy-to-reach screw terminals



Initiate, delay, sequence and program equipment actions over wide range of applications. 7000 series dielectric withstands 1500Vrms 60Hz between terminals and ground. Normal mounting in vertical position, from back of panel. A front mounting bracket is also supplied with each basic unit. Standard screw terminals (8-32 truss head screws supplied) located on front of unit, with permanent schematic markings. Barrier isolation accommodates spade or ring tongue terminals. Seismic and radiation tested E700 models available; go online or call. UL listed, CSA certified, CE compliant.

DPDT, ON-DELAY, 120V 60Hz, 110V 50Hz

Mfg. Part No.	Timing Range	Stock No.	Price Each		
			1-4	5-9	10-24
7012AB	0.5 to 5 sec.	57F1550	253.78	243.07	233.21
7012AK	1 to 300 sec.	28F1929	253.78	243.05	233.23
7012AD	5.0 to 50 sec.	57F1551	256.05	245.24	235.29
7012AE	20 to 200 sec.	57F1583	266.88	246.53	230.10
7012AF	1 to 10 min.	57F1585	280.60	268.75	257.84
7012AH	3 to 30 min.	57F1552	335.38	321.22	308.19

DPDT, OFF-DELAY, 120V 60Hz, 110V 50Hz

7022AB	0.5 to 5 sec.	57F1556	256.05	245.25	235.29
7022AK	1 to 300 sec.	28F1931	236.87	226.87	217.66
7022AC	1.5 to 15 sec.	57F1582	253.78	243.07	233.21
7022AD	5.0 to 50 sec.	57F1557	254.81	246.53	230.10
7022AF	1 to 10 min.	57F1586	280.60	268.75	257.84
7022AH	3 to 30 min.	57F1558	290.72	281.25	262.51
7022BK	1 to 300 sec.	28F1932	253.78	243.07	233.21

➔ CONTINUED ➔

AGASTAT INDUSTRIAL ELECTROPNEUMATIC TIMING RELAYS (CONT.)

DPDT, ON-DELAY, 125VDC

Mfg. Part No.	Timing Range	Stock No.	Price Each		
			1-4	5-9	10-24
7012PB	0.5 to 5 sec.	50F3837	275.25	263.61	252.93
7012PK	1 to 300 sec.	50F3840	275.27	263.59	252.94
7012PF	1 to 10 min.	50F3615	302.02	289.30	277.54

(2706)

MPB SERIES INTERVAL TIMERS



Automatic reset, pushbutton-operated timers feature metal bezel-framed dial with time selector ring and start button in one assembly. SPDT snap action switch is rated 15A non-inductive, 125/250VAC. Time rated 120V/60Hz, 1/4" push-on terminals. 4H x 4W x 2 1/2"D. UL recognized, CSA certified.

Mfg. Part No.	Setting		Stock No.	Price Each
	Max.	Min.		
● MPB-5M	5 min.	5 sec.	24F1757	139.84
● MPB-15M	15 min.	15 sec.	24F1758	139.84
● MPB-60M	60 min.	1 min.	24F1759	139.84

LPB panel-mount units also available, go online or call. (2807)

P SERIES INTERVAL TIMERS



Portable timers have 3-wire power cord and load receptacles, automatic reset, infinite resolution clutch, and remote or local momentary start. Housed in metal case for surface mounting. Toggle switch provided for continuous power. Accuracy $\pm 0.25\%$ full scale. Set time 0.5 seconds max. at full setting. 120V/60Hz. 15 second, 30 second, and 3 minute time cycle versions also available; go online or call. CSA certified.



Mfg. Part No.	Time Cycle	Dial Division	Stock No.	Price Each
				1-2
P-1M	60 sec.	1 sec.	81F031	338.92
P-5M	5 min.	5 sec.	81F033	338.92

(2899)

C-2 AND C-5 SERIES ELAPSED TIME INDICATORS



C-2 series is non-reset running time indicator enclosed in panel-mount housing with 2.81" mounting hole. C-5 series is a reset time totalizer mounted in steel housing with 2.875" mounting hole. 120V/60Hz. CSA certified.



C-2

C-5

Mfg. Part No.	Max. Hours	Reading	Stock No.	Price Each
				1-2
● C-2	10,000	Hr. & 1/10	55F670	205.62
C-5	10,000	Hr. & 1/10	55F680	312.90

(2910)

FIND IT • BUY IT • GET IT • DONE

"It's easy to do business with Newark online or by phone."

(116883)

TIMERS – INTERVAL, PROGRAMMABLE CAM, DELAY MOTOR & PROGRAMMABLE CAM

AB52 SERIES INTERVAL TIMER



Interval must be reset manually at beginning of each cycle. Feature an external friction providing low setting-torque and enabling setting to be changed during cycle without damage. For appliances, amusement devices, medical equipment, battery chargers. SPDT load switch certified rated 25 amps. 120V/60Hz. UL recognized, CSA certified. 15-, 30- and 60-minute and 6- and 24-hour time cycles are available. Dials available for all time cycles; go online or call.



TIMERS

Mfg. Part No.	Time Cycle	Stock No.	Price Each
			1-2
AB52-007 (6 HR)	6 HR	95C0832	57.24
● AB52-009 (12 HR)	12 HR	95C0835	57.24
● AB52-006 (2 HR)	2 HR	95C0831	57.24

DIALS

Mfg. Part No.	Dial Calibration	Stock No.	Price Each
			1-2
● AT5-1143-901	12 HR	90F1692	11.84
● AT51148-901	2 HR	96F5334	11.84

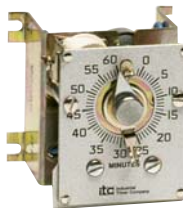
KNOBS

Mfg. Part No.	Description	Stock No.	Price Each
			1-2
● 55-00121-000	Fits All Series AB52 Timers	54F090	5.18

(3077)

SF AND CSF SERIES TIME DELAY TIMERS

For remote surface mounting where infrequent adjustment of time delay setting is anticipated. SF series offers clutch motor, repeat accuracy of ±1% full scale, and reset time of 5% dial setting. CSF series offers external clutch, repeat accuracy of ±1.5% full scale, and reset time of 0.5 seconds at max. setting. All feature auto-reset upon power removal, operate with isolated SPDT load switch rated 10A non-inductive. 120V/60Hz. UL recognized, CSA certified.



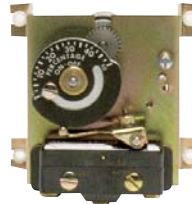
Mfg. Part No.	Time Cycle	Dial Div.	Stock No.	Price Each
				1-2
● SF-15S	15 sec.	0.25 sec.	24F1853	199.80
● SF-30S	30 sec.	0.5 sec.	24F1854	515.04

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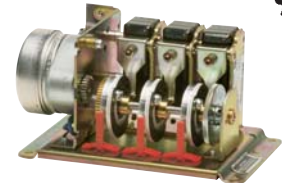
Mfg. Part No.	Time Cycle	Dial Div.	Stock No.	Price Each
				1-2
● CSF1M	60 sec.	1 sec.	24F280	281.20
● CSF-30M	30 min.	30 sec.	70B5829	230.88
● CSF-5M	5 min.	5 sec.	24F282	216.08

(2897)

CM SERIES SINGLE CAM AND MC SERIES MULTI-CAM PROGRAMMABLE TIMERS



CM



MC

CM series and MC series recycling timers repeat a continuous adjustable on/off time cycle. A heavy duty synchronous motor, which offers 13 different speeds, is linked with a choice of gear racks ordered separately on this page, to allow for a variety of time cycles to be selected. SPDT switches on the cams are rated 10 amps non-inductive at 120VAC. Cams are adjustable 2-98% of total cycle time. Order cam timers and gear racks separately from "how to order" table on this page. Other versions available, up to 20 switches; go online or call. UL recognized, CSA certified.

CM SERIES

Mfg. Part No.	Stock No.	Price Each
		1-2
● CM0 115/60	24F1827	141.36
● CM-3	24F1829	124.64
● CM-5	24F251	124.64
● CM-6	24F252	124.64
● CM-7	24F1819	124.64
● CM-10	24F254	124.64

MC SERIES

Mfg. Part No.	Chassis	Stock No.	Price Each
			1-2
● MC3-4SW	4 Switch	62F2067	270.84
● MC5-4SW	4 Switch	62F2014	270.84
● MC5-6SW	6 Switch	62F2022	338.92

(3079)

HOW TO ORDER CAM TIMERS AND GEAR RACKS

1. Locate in table below time cycle for one revolution of camshaft.
2. Note the model of cam timer designated at top of column.

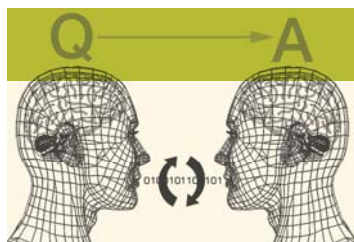
3. Note across the column from time cycle the gear rack model number.
4. Specify for MC multiple cam timers the required number of load switches.

Example: should you require a single cam 30 second time cycle, you would look in table for 30S (see abbreviation code below table). 30S appears across from gear rack mfg. part no. A12 and under cam timer CM2. So you order gear rack mfg. part no. 24F315, with cam timer CM2.

GEAR RACKS — TOTAL TIME CYCLE*

Mfg. Part No.	MCO CMO	MC1 CM1	MC2 CM2	MC3 CM3	MC4 CM4	MC5 CM5	MC6 CM6	MC7 CM7	MC8 CM8	MC9 CM9	MC10 CM10	MC12 CM12	Stock No.	Price Each
														1-2
● E12	40c	4S	10S	20S	40S	2M	3M20S	10M	20M	40M	2H	8H	24F306	19.85
● C12	1S	6S	15S	30S	60S	3M	5M	15M	30M	60M	3H	12H	24F308	19.85
● B12	80c	8S	20S	40S	80S	4M	6M40S	20M	40M	80M	4H	16H	24F311	19.85
● B15	100c	10S	25S	50S	100S	5M	8M20S	25M	50M	100M	5H	20H	24F313	19.14
● A12	2S	12S	30S	60S	2M	6M	10M	30M	60M	2H	6H	24H	24F315	19.85
● A18	3S	18S	45S	90S	3M	9M	15M	45M	90M	3H	9H	36H	24F321	19.14
● A24	4S	24S	60S	2M	4M	12M	20M	60M	2H	4H	12H	48H	24F324	19.85
● A36	6S	36S	90S	3M	6M	18M	30M	90M	3H	6H	18H	72H	24F330	19.85

*c = cycles (refers to 60 cps current; e.g. 50 c = ½ sec), S = seconds, M = minutes, H = hours. (3081)



(116862)

Expert technical support

Chat online to our team of engineers, or connect to them through your representative.