

CONTREX, INC. Maple Grove, MN 55369 USA Tel: 763.424.7800 800.342.4411

Fax: 763.424.8734

EFFECTIVE August 1, 2005 FORM DS114X PRICE SUBJECT TO CHANGE WITHOUT NOTICE PRICES ARE U.S. DOLLARS

PRICE LIST

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PART NO. DESCRIPTION	FRICE
<u>CX-1102</u>	
3200-2040 <u>CX-1102</u> 2 AXIS CONTROL \$	1,795
UNWIND/DANCER/WIND CONTROLLER	
3200-2041 <u>CX-1102</u> 2 AXIS CONTROL \$	2,190
WITH DEVICENET® BOARD INSTALLED	
<u>CX-1010</u>	
	1,295
FOR SPEED AND SPEED RATIO OPERATIONS	
3200-1945 CX-1010 WITH ANALOG BOARD INSTALLED	1,610
3200-1946 CX-1010 WITH DEVICENET® BOARD INSTALLED	1,690
3200-1947 <u>CX-1010</u> WITH ANALOG AND DEVICENET® BOARDS INSTALLED	2,005
2200 4004 CV 4040 DEVICENCES OPTION POARD ONLY	¢ 205
3200-1991 CX-1010 DEVICENET® OPTION BOARD ONLY (requires external 5vdc)	\$ 395
(requires external svac)	
3200-1992 CX-1010 ANALOG OPTION BOARD	\$ 315
2-Channel Standard	Ψ 0.0
3200-1993 <u>CX-1010</u> ANALOG OPTION BOARD	\$ 315
2-Channel Load Cell	
3200-1994 <u>CX-1010</u> ANALOG OPTION BOARD,	\$ 315
1-Channel Load Cell, 1-Channel Standard	
2200 2024 CV 4040 TECHNICAL MANULAL (CD DOM EVEDA CODIES)	6 4 5
3200-2021 CX-1010 TECHNICAL MANUAL (CD ROM - EXTRA COPIES)	\$ 15
0001-0131 CX-1010 TECHNICAL MANUAL (HARD COPY)	\$ 75

M-SERIES		
3200-1602	M-TRIM UNIVERSAL DIGITAL CONTROL	\$ 900
0200 1002	Precision "Front End" for any AC or DC drive. Isolated input/output. Master or Follower mode with 4 presets, 6 limits/alarms, 3 frequency inputs, and RS422/RS485 computer link.	V 000
3200-1603	M-TRIM WITH ANALOG IN/OUT OPTION INSTALLED	\$ 1,050
3200-1607	M-TRIM WITH INVERSE SET-POINT FUNCTION	\$ 900
3200-1676	M-DRIVE DC MOTOR CONTROL/DRIVE	\$ 925
	Rated for up to 2HP, 180V Armature, 200V Field. (Stock	
	configuration 1HP, 90V/100V with 120VAC supply switch selectable for 2HP, 230VAC supply.) Control features similar to M-Trim.	
3200-1677	M-DRIVE WITH ANALOG IN/OUT OPTION INSTALLED	\$ 1075
3200-1678	M-DRIVE WITH INVERSE SET-POINT FUNCTION	\$ 925
3200-1680	ANALOG I/O OPTION CARD - M-SERIES	\$ 150
	Retrofit M-Drive #3200-1676 or M-Trim #3200-1602 with this plug-in accessory board. Analog is assignable to 1 of 7 input variables; Analog out assignable to any (1) variable code. Signals can be jumper selected as 4-20 ma or 0-10VDC.	
3200-1682	COMPLEMENTARY ANALOG I/O CARD - M-SERIES	\$ 150
	Same as 3200-1680 but an increasing signal input causes a decreasing motor speed.	
3200-1931	ML-TRIM UNIVERSAL DIGITAL CONTROLLER (115VAC)	\$ 565
	Precision "Front End" for any AC or DC drive. Isolated Drive signal	
	and optionally isolated signal I/O. Master or Follower mode with 2 presets each. RS485 Link.	
3200-1932	ML-TRIM UNIVERSAL DIGITAL CONTROLLER (230VAC)	\$ 565
3200-1933	ML-DRIVE DC CONTROLLER/DRIVE (115VAC)	\$ 640
	Rated for 1HP 90V Arm. Control features similar to ML-Trim.	
3200-1934	ML-DRIVE DC CONTROLLER/DRIVE (230VAC)	\$ 640
	Rated for 2HP 180V Arm.	

PART NO. DESCRIPTION

LIST

PRICE

PART NO.	DESCRIPTION	PRICE
M-SERIES - C	<u>ontinued</u>	
3200-1936	MLP-TRIM UNIVERSAL DIGITAL/ANALOG CONTROLLER (115VAC)	\$ 660
	Similar to ML-Trim but with 1 analog input useable for frequency, set point, or dancer trim. Zero-error in freq. follower mode, and other enhancements.	
3200-1937	MLP-TRIM UNIVERSAL DIGITAL/ANALOG CONTROLLER (230VAC)	\$ 660
3200-1938	MLP-DRIVE DC CONTROLLER/DRIVE - DIGITAL/ANALOG (115VAC)	\$ 735
	Rated for 1 HP - 90V Arm. Control features similar to MLP-Trim.	,
3200-1939	MLP-DRIVE DC CONTROLLER/DRIVE - DIGITAL/ANALOG (230VAC)	\$ 735
	Rated for 2 HP 180V Arm.	
3200-1740	M-TRACK FULL SYNCHRONIZING CONTROL	\$ 1,650
	Controls any AC/DC or Servo Drive to synchronize a slave machine in both speed and phase relative to the master.	
3200-1820	M-ROTARY SYNCHRONIZING CONTROL FOR	\$ 1,650
	ROTARY KNIFE/DRUM Similar to M-TRACK but has engineering unit set points and	
	electronic cam profile feature.	
3200-1831	M-CUT FEED-TO-LENGTH CONTROL	\$ 1,250
	Incremental and absolute motion control for precise repeat	
	lengths. Fast response for use with servo motors/amplifiers.	
3200-1840	M-SHUTTLE FOR FLYING CUT-OFF	\$ 1,650
	Synchronized back-and-forth action for cut-off carriage drive.	
3200-1841	M-TRAVERSE LEVEL WIND OR WEB SCAN	\$ 1,650
	Synchronized back-and-forth action with adjustable lay and	
	width settings. Edge or Center based.	
3200-1855	OPEN-CHASSIS M-CUT CONTROLLER (MB-CUT)	\$ 900
	With isolated power supply. Also includes DB9 cable assy and	
	CONTREX-HOST Software with 1st unit ordered.	
3200-185X	OPEN-CHASSIS M-SERIES CONTROLLER	\$ 1,175
	M-Rotary, M-Track, M-Traverse, M-Shuttle functions	
	in an open-chassis package. With isolated power supply. Also	
	includes DB9 cable assy and CONTREX-HOST Software with 1st unit ordered.	
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LIST

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3200-1860 <u>PENDANT W/RIBBON CABLE</u> FOR MB-SERIES \$ 375 OPEN CHASSIS CONTROLS

Not required if laptop computer is available.

OPEN CHASSIS M-SERIES NOTE:

Custom software configuration possible. Contact factory with specifications/custom requirements or for Special Volume Discount.

COMPUTER/PHONE LINK ACCESSORY ITEMS FOR M-SERIES PRODUCTS

Built-in RS422/RS485 port. Instruction manual describes character format and message protocol. More than 50 parameters can be monitored or changed from host computer. Experienced programmers can write their own routines.

3200-2022 Contrex Host 3 CD - User Ready Software (Windows)

\$ 250

Program allows user to command, change parameter, monitor, or save-to-file. Works with CX-1010, M-Series, MB-Series, ML-Series or MLP-Series.

NOTE: Windows DDE drivers are also available from 3rd party vendors.

MICRO-MODULES

3200-1800 MM100 COMMUNICATION CONVERSION DEVICE - RS232:RS422. \$ 195

Module has standard female DB-25 pin, RS232 receptacle and 4 screw terminals for RS422. Transmit/Receive LEDs verify operation. Snap-Track package. Adapts M-Series communication port to match host computer having RS232 port. Only one device required on multi-channel M-Series systems. Requires + 12VDC from M-Series Control. Optional isolation mode (isolation requires extra 5VDC source).

5200-0045 COMMUNICATION CONVERSION DEVICE - RS232:RS485 \$ 195

Module has standard female DB-25 pin RS232 receptacle and screw terminals for either RS422 or RS485. Transmission LED's verify operation. Requires 5 to 12VDC (available from CONTREX controllers).

MICRO-MO	DUULES	- Continued	
5200-0042	CDE-2	CABLE ADAPTER - 9 PIN FEMALE TO 25 PIN MALE	\$ 40
		Straight extension to match converters to computers having a 9 pin male plug serial port.	
5200-0041	CDE-3	CABLE ADAPTER - 9 PIN FEMALE TO 9 PIN MALE	\$ 40
		To match MB-Series open chassis controller to computers having 9 pin male plug serial port. (No converter required.)	
3200-1803	MM500	8-CHANNEL OPTO-ISOLATION MODULE	\$ 160
SU PPRESSIO	<u>ON</u>	For high-noise environments. Use for discrete inputs on M-Series controllers. (Not for use on high-freq. encoder inputs.)	
6003-5017		QUENCHARC	\$ 4
		Snubber for AC Coils and Supply Line. 100 ohm - 0.1 mfd.	
6003-5015		QUENCHARC	\$ 4
		Snubber for low voltage Signal Lines. 22 ohm - 0.1 mfd.	
6500-0020		CORCOM LINE FILTER	\$ 25
		For AC Supply Line 10 Amps @ 120, 8 amps @ 250	
6500-0073		CORCOM LINE FILTER	\$ 45
		For AC Supply Line 20 Amps @ 120, 16 Amps @ 250	

PART NO. DESCRIPTION

LIST

PRICE

PART NO.	MODEL NO.	DESCRIPTION	PRICE
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E-D RIVE D	C MOTOR CO	NTRO LLER/DRIVE	
3200-1100	B -0	E-DRIVE DC CONTROLLER	\$ 495
		Open chassis for up to 1 HP, (90V) or 2HP (180V)	
3200-1110	ED-1	E-DRIVE DC CONTROLLER	\$ 745
		with enclosure, 10T dial pot, no display.	
3200-1120	ED-2	E-DRIVE DC CONTROLLER	\$ 900
		with enclosure, 10T pot, 4-digit display.	
3200-1130	ED-3	E-DRIVE DC CONTROLLER	\$ 1,040
		with enclosure, man 10T pot, auto 10T pot, and	
		master/follower select switch.	
5800-1500	TCD-10T TUF	RN COUNT 10T DIAL for ED-2	\$ 60
2222 4452			A 00 =
3200-1150	SR241-4	SPEED READ-OUT, cable interconnect to ED-O Controllers.	\$ 295
		cable interconnect to ID-O Controllers.	
MULTI-MC	TOR SYSTEM	ACCESSO RIES	
3200-1330	RC272	MASTER RATIO OSCILLATOR AND FREQUENCY SCALER	\$ 375
0200 1000	10272	Auto: 500 Hz in = 500 HZ out	ψ 010
		Manual: 0-500 Hz out (Specify other ranges)	
3200-1200	VCO-1B	MASTER OSCILLATOR OR	\$ 275
		ANALOG-TO-FREQUENCY CONVERTER	
		0-500 Hz. Field selectable other ranges.	
		Requires + 12VDC.	
		Above oscillators do not include operators	
		potentiometers. Order separately.	
SPEED PO	TS FOR RC272	/VCO-1 OSCILLATORS	
7120-1374	P10-10	POT, 10T w/dial & 10 ft. cable (0.50%)	\$ 170
7120-1390	P10A-10	POT, 10T w/dial & 10 ft. cable (0.05%)	\$ 380

LIST

			LIST
PART NO.	MODEL NO.	DESCRIPTION	PRICE
ACCESSOF	RY CIRCUITS	(Most require external + 12VDC to 15VDC power.)	
3200-1170	PDC-1B	PULSE-TO-DC CARD/CONNECTOR	\$ 175
		Specify sensor type, input frequency. Output range is 4-20 ma.	
3200-1175	PDC-3B	PULSE-TO-DC CARD/CONNECTOR	\$ 225
		Zero based or groundable output 0-5VDC or 4-20 ma. Specify sensor type and input frequency.	
7300-0841	ADR-1	ACCEL-DECEL RAMP CARD/CONNECTOR	\$ 195
		5-30 SECONDS.	
3200-1180	DSS-1	DELTA-SPEED SWITCH	\$ 295
		Specify sensor type, frequency and trip range.	
3200-1440	PDB-1	PRE-AMP/DIVIDE CARD	\$ 195
		For mag. pickups. Jumper Select divide by 1, 2, 4, 8, or 16.	
5210-0013		POWER SUPPLY + 15VDC	\$ 130
	URERING KI	TS II NEW - 60T GEAR, 5-24VDC - OPEN COLLECTOR	
7300-1600	•	/8" Bore w/Pull-up Resistor	\$ 165
7300-1601		, 7/8" Bore w/Pull-up Resistor	\$ 178
7300-1602		, 1-1/8" Bore w/Pull-up Resistor	\$ 255
7300-1603 7300-1604		, 1-3/8" Bore w/Pull-up Resistor , 1-5/8" Bore w/Pull-up Resistor	\$ 255 \$ 255
7300-1605		etric Face, 14mm Bore w/Pull-up Resistor	\$ 260
7300-1610		5/8" Bore w/o Pull-up Resistor	\$ 165
7300-1611	QRK143TC	, 7/8" Bore w/o Pull-up Resistor	\$ 178
7300-1612		, 1-1/8" Bore w/o Pull-up Resistor	\$ 255
7300-1613		, 1-3/8" Bore w/o Pull-up Resistor	\$ 255
7300-1614		, 1-5/8" Bore w/o Pull-up Resistor etric Face, 14mm Bore w/o Pull-up Resistor	\$ 255 \$ 260
7300-1615 QUADRAT		TSII New- 60T GEAR, 5-24VDC - DIFFERENTIAL	\$ 200
7300-1620	QRK56C, 5	/8" Bore Line Driver Output	\$ 175
7300-1621	QRK143TC	, 7/8" Bore Line Driver Output	\$ 188
7300-1622	QRK182TC		\$ 265
7300-1623	QRK213TC	•	\$ 265
7300-1624	QRK254TC	•	\$ 265
7300-1625	QKM/1D M	etric Face, 14mm Bore Line Driver Output	\$ 270

CONVERSION TABLE NEW PRODUCT NUMBERS VS OLD PRODUCT NUMBERS

Quadrature Sensor Ring Kits - 60 Tooth Gear - 5 to 15 VDC - Open Collector

7300-1310	56C, 5/8" Bore, with Pull-up Resistor	Replaced by QRK II 7300-1600
7300-1311	143TC, 7/8" Bore, with Pull-up Resistor	Replaced by QRK II 7300-1601
7300-1312	182TC, 1-1/8" Bore, with Pull-up Resistor	Replaced by QRK II 7300-1602
7300-1313	213TC, 1-3/8" Bore, with Pull-up Resistor	Replaced by QRK II 7300-1603
7300-1314	254TC, 1-5/8" Bore, with Pull-up Resistor	Replaced by QRK II 7300-1604
7300-1355	71D Metric, 14mm Bore, with Pull-up Resistor	Replaced by QRK II 7300-1605
7300-1315	56C, 5/8" Bore, without Pull-up Resistor	Replaced by QRK II 7300-1610
7300-1316	143TC, 7/8" Bore, without Pull-up Resistor	Replaced by QRK II 7300-1611
7300-1317	182TC, 1-1/8" Bore, without Pull-up Resistor	Replaced by QRK II 7300-1612
7300-1318	213TC, 1-3/8" Bore, without Pull-up Resistor	Replaced by QRK II 7300-1613
7300-1319	254TC, 1-5/8" Bore, without Pull-up Resistor	Replaced by QRK II 7300-1614
7300-1357	71D Metric, 14mm Bore, without Pull-up Resistor	Replaced by QRK II 7300-1615

Quadrature Sensor Ring Kits - 60 Tooth Gear - 5 to 15 VDC - Differential

7300-1370	56C, 5/8" Bore, Line Driver Output	Replaced by QRK II 7300-1620
7300-1371	143TC, 7/8" Bore, Line Driver Output	Replaced by QRK II 7300-1621
7300-1372	182TC, 1-1/8" Bore, Line Driver Output	Replaced by QRK II 7300-1622
7300-1373	213TC, 1-3/8" Bore, Line Driver Output	Replaced by QRK II 7300-1623
7300-1374	254TC, 1-5/8" Bore, Line Driver Output	Replaced by QRK II 7300-1624
7300-1375	71D Metric, 14mm Bore, Line Driver Output	Replaced by QRK II 7300-1625

Quadrature Sensor Ring Kits - 60 Tooth Gear - 15 to 24 VDC - Open Collector

7300-1410 7300-1411 7300-1412 7300-1413 7300-1414 7300-1420 7300-1420 7300-1421 7300-1422 7300-1423	56C, 5/8" Bore, with Pull-up Resistor 143TC, 7/8" Bore, with Pull-up Resistor 182TC, 1-1/8" Bore, with Pull-up Resistor 213TC, 1-3/8" Bore, with Pull-up Resistor 254TC, 1-5/8" Bore, with Pull-up Resistor 71D Metric, 14mm Bore, with Pull-up Resistor 56C, 5/8" Bore, without Pull-up Resistor 143TC, 7/8" Bore, without Pull-up Resistor 182TC, 1-1/8" Bore, without Pull-up Resistor 213TC, 1-3/8" Bore, without Pull-up Resistor	Replaced by QRK II 7300-1600 Replaced by QRK II 7300-1601 Replaced by QRK II 7300-1602 Replaced by QRK II 7300-1603 Replaced by QRK II 7300-1604 Replaced by QRK II 7300-1605 Replaced by QRK II 7300-1610 Replaced by QRK II 7300-1611 Replaced by QRK II 7300-1612 Replaced by QRK II 7300-1613
7300-1423 7300-1424 7300-1425		

Product Number Change: Quadrature Speed Sensors

7200-0940, 7200-0942, 7200-0970, 7200-0972	Replaced with 7200-0990
7200-0941, 7200-0971, 7200-0945, 7200-0973	Replaced with 7200-0991
7200-0943, 7200-0946	Replaced with 7200-0992

PART NO. MODEL NO. DESCRIPTION

MAGNETIC PICK-UP KITS

Note: Only M-Trim, M-Drive, and E-Drive controls can use magnetic pick-ups. Other models require Quad Kits, Single Channel Kits, other Encoders, or Converter Kit 3200-1980.

7300-0980	RK56C	SENSOR KIT w/60T GEAR - 5/8 inch	\$ 99
7300-0982	RK143TC	SENSOR KIT w/60T GEAR - 7/8 inch	\$ 112
7300-0934	RK182TC	SENSOR KIT w/60T GEAR - 1-1/8 inch	\$ 175
7300-0936	RK213TC	SENSOR KIT w/60T GEAR - 1-3/8 inch	\$ 175
7300-0987	RK254TC	SENSOR KIT w/60T GEAR - 1-5/8 inch	\$ 175
7300-0981	RK56C-30	SENSOR KIT w/30T GEAR - 5/8 inch	\$ 117
7300-0983	RK143TC-30	SENSOR KIT w/30T GEAR - 7/8 inch	\$ 139
7300-0984	RK182TC-30	SENSOR KIT w/30T GEAR - 1-1/8 inch	\$ 195
7300-0985	RK213TC-30	SENSOR KIT w/30T GEAR - 1-3/8 inch	\$ 367

3200-1980 DUAL CHANNEL MAG PICK-UP CONVERTER

\$ 85

Converts 2 magnetic pick-up signals into amplified square wave. Requires 5-12VDC (available from CONTREX controllers).

SPEED SENSORS Note: See page 8 for Product Number Cross Reference

7200-0990		QUADRATURE SENSOR 5-24VDC	\$ 100
		w/Pull-up Resistor - open collector	
7200-0991		QUADRATURE SENSOR 5-24VDC	\$ 100
		w/o Pull-up Resistor - open collector	
7200-0992		QUADRATURE SENSOR 5-24VDC	\$ 110
		Differential	
7200-0940		QUADRATURE SENSOR 5-15VDC	\$ 120
		w/Pull-up Resistor - open collector	
		(Obsolete Available only while existing stock lasts.)	
5800-1410	SM3N	MAGNETIC PICKUP, Threaded	\$ 25
5800-1412	SM3N-A	MAGNETIC PICKUP, Smooth	\$ 25
6500-0038	SM5XP	MAGNETIC PICKUP, Explosion Proof ¹	\$ 595
5800-1413	SP8N3	PROX SENSOR, 3-wire ^{1&2}	\$ 160
3200-1340	ENCDR-600	ENCODER, 10V, 600 PPR	\$ 295
3200-1350	ENCDR-1200	ENCODER, 10V, 1200 PPR	\$ 295
3200-1341	QENCDR-600	ENCODER, 5V, 600 PPR, Quadrature, NPN	\$ 525
7000-0450	R56CXP	FLANGERING ONLY, 56C, for SM5XP sensor	\$ 125

¹NOTE: These sensors require larger size targets . . . use with 30T gears only.

²NOTE: These sensors will fit in Flange Ring Sensor Kits (RK Kits). Order Sensor Kit "less sensor" and add special sensor/price as additional order line item.

		LIST
PART NO. MODEL NO.	DESCRIPTION	PRICE

GEARS

5800-1700	G60T5	GEAR, 60T, 5/8 inch	\$ 25
5800-1701	G60T7	GEAR, 60T, 7/8 inch	\$ 38
5800-1702	G60T9	GEAR, 60T, 1 1/8 inch	\$ 45
5800-1703	G60T11	GEAR, 60T, 1 3/8 inch	\$ 45
5800-1704	G60T13	GEAR, 60T, 1 5/8 inch	\$ 45
7000-0376	G20T2	SPROCKET, 20T, 1/4 inch	\$ 60
5800-0382	G30T5	GEAR, 30T, 5/8 inch	\$ 40
5800-0383	G30T7	GEAR, 30T, 7/8 inch	\$ 65
5800-0347	G30T9	GEAR, 30T, 1 1/8 inch	\$ 68
5800-0348	G30T11	GEAR, 30T, 1 3/8 inch	\$ 240

DC DRIVES, REGEN, SINGLE PHASE

DC CONTROLLER for 1/8 - 5 HP, Regen, chassis only. Chassis is drive module only. Subplate, Armature Contactors, Pot, and Operator Devices are <u>NOT</u> included. Convertible unit is shipped in 230V configuration. (5 HP version is slightly larger chassis.)

		<u>HP</u>	<u>AMP</u>	<u>VOLTS</u>	PRICE
3200-1264	DF9P-10C	1	10	115	\$ 600
3200-1264	DF9P-10C	2	10	230	\$ 600
3200-1782	DF9P-15C	3	15	230	\$ 680
3200-1792	DF9P-25C	5	25	230	\$ 1,150

OTHER CONTREX PRODUCT LINES:

REFLEX PRODUCTS

Reflex model accessory and signal conditioning cards are available. Consult Price Sheet D \$456 or contact factory.

SERVO MOTORS/AMPLIFIERS

Complete line of Brushless DC servo motors and amplifiers available as modules or as complete kits. Consult Price Sheet DS410 or contact factory.

ADDITIONAL INFORMATION:

Check our Web Site for Technical and Application Information for our most popular controller models.

Web Site: www.contrexinc.com

E-Mail: info@contrexinc.com