

40 Series 1/16, 1/8, 1/4 DIN Temperature & Process Controller

Model	40 Series Temperature and Process Controller			Base Price
6040	1/16 DIN	Dual 4 Digit Display, Universal Input, Auto Detect Hardware, Up to 3 Outputs, Process & Loop Alarms, Auto or Manual Tuning, Heat/Cool Operation, Ramping Setpoint, Adjustable Hysteresis, Optional Features: Valve Motor Drive Position, Heater Break Alarm Function, Remote/Dual Setpoint, Configuration Software, ModBus Communications, 32° to 131°F (0° to 55°C) Operating Temperature. IEC IP66 (NEMA 4X) front panel protection. 3-Year Warranty.		155.00
8040	1/8 DIN			225.00
4040	1/4 DIN			250.00

Code	Output 1	Adder
0	None	nc
R	Relay (2 Amp resistive at 240 VAC, SPDT, Form C)	25.00
S	SSR (0/10 VDC, 500 Ω Minimum load)	25.00
A	Analog (Linear DC: 0-20mA, 4-20mA, 0-5V, 0-10V, 2-10V)	35.00
T	Triac (0.01 to 1 Amp AC, 20 to 280Vrms, 47 to 63Hz)	25.00

Code	Output 2	Adder
0	None	nc
R	Relay (2 Amp resistive at 240 VAC, SPDT, Form C)	25.00
S	SSR (0/10 VDC, 500 Ω Minimum load)	25.00
A	Analog (Linear DC: 0-20mA, 4-20mA, 0-5V, 0-10V, 2-10V)	35.00
T	Triac (0.01 to 1 Amp AC, 20 to 280Vrms, 47 to 63Hz)	25.00
M	⁴ Dual Relay Output - 2 Amp 240 VAC, Form A (X 2)	40.00

Code	Output 3	Adder
0	None	nc
R	Relay (2 Amp resistive at 240 VAC, SPDT, Form C)	25.00
S	SSR (0/10 VDC, 500 Ω Minimum load)	25.00
A	Analog (Linear DC: 0-20mA, 4-20mA, 0-5V, 0-10V, 2-10V)	35.00
P	Isolated Power Supply 24 VDC (910Ω min)	60.00
M	⁴ Dual Relay Output - 2 Amp 240 VAC, Form A (X 2) (Not available on the 6040)	40.00

Code	Feature Option A	Adder
0	None	nc
1	RS485 (ModBus/RTU) Digital Comms	60.00
2	Digital Input (Voltage Free or TTL Input)	60.00
3	³ Remote Setpoint - Manual Set (Not available if H is selected in Feature Option B)	60.00

Code	Feature Option B	Adder
0	None	nc
1	³ Enhanced Remote Setpoint Input & Digital Input - (Not available on the 6040 model)	90.00
V	¹ Valve Motor Drive Position	50.00
W	^{1,3} Valve Motor Drive Position & Remote Setpoint - (Not available on the 6040 model)	140.00
H	² Heater Break Alarm Function (Available ONLY on 6040 model)	90.00
9	Other Special Firmware	Consult Sales

Code	Power Supply	Adder
0	100 - 240V AC	nc
1	24 - 48V AC/DC	20.00

4040	-	R	S	A	0	0	0	Typical Model Number
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Standard lead times are based on Quantity:

- 1 - 5 pieces: 1 day
- 6+ pieces: Consult Factory

Prices are List, Schedule A Discount

Order Table Notes

- 1 Requires 2 On/Off Outputs from above (R, S or T)
- 2 Requires 1 On/Off Output from above (R, S or T) & a Current Transformer.
- 3 Between Feature Option A & B, Only One Remote Setpoint may be selected.
- 4 Available **ONLY** when either V or W is selected in Feature Option B

Accessories

Description	Part Number
Current Transformer for Heater Break Alarm (HBA): 0 - 25 Amp	0149-50071
Current Transformer for Heater Break Alarm (HBA): 0 - 50 Amp	0149-50072
Current Transformer for Heater Break Alarm (HBA): 0 - 100 Amp	0149-50073
ChromaWare Configuration Software & Cable (40 & 50 Series)	0149-50060
Cable only for Configuration Software (40, 50 & 80 Series)	0149-50062
Snubber (PCN 314448)	0149-01305

Stocked Items

DIN Size	Part Number	PCN
1/16	6040-R00000	314616
1/16	6040-S00000	314720
1/16	6040-RR0000	314624
1/16	6040-SR0000	314632
1/16	6040-RRR000	314640
1/16	6040-RRR001	314659
1/8	8040-R00000	314544
1/4	4040-ARR000	314528
1/4	4040-R00000	314704
1/4	4040-RRR000	314510

Technical Notes

1. Quick Start Manuals are shipped with the Controller. Full Installation & Instruction Manuals are available on line at www.chromalox.com

50 Series 1/16, 1/4 DIN Over Temperature / Limit Controller

Model	50 Series Over Temperature / Limit Controller		Base Price
6050	1/16 DIN	Dual 4 Digit Display, Universal Input, Auto Detect Hardware, Up to 3 Outputs, Process & Loop Alarms, Ramping Setpoint, Adjustable Hysteresis, Optional Features: 24VDC Transmitter Power Supply, Retransmit: Process value or limit setpoint, Configuration Software, ModBus Communications, 32° to 131°F (0° to 55°C) Operating Temperature. IEC IP66 (NEMA 4X) front panel protection. 3-Year Warranty.	180.00
4050	1/4 DIN		275.00
<hr/>			
	Code	Output 1	Adder
	1	Relay - SPDT, 5A resistive at 120/240V AC	nc
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	Code	Output 2	Adder
	0	None	nc
	R	Relay (2 Amp resistive at 240 VAC, SPDT, Form C)	25.00
	S	SSR (0/10 VDC, 500 Ω Minimum load)	25.00
	A	Analog (Linear DC: 0-20mA, 4-20mA, 0-5V, 0-10V, 2-10V)	35.00
	T	Triac (0.01 to 1 Amp AC, 20 to 280Vrms, 47 to 63Hz)	25.00
<hr/>			
	Code	Output 3	Adder
	0	None	nc
	R	Relay (2 Amp resistive at 240 VAC, SPDT, Form C)	25.00
	S	SSR (0/10 VDC, 500 Ω Minimum load)	25.00
	A	Analog (Linear DC: 0-20mA, 4-20mA, 0-5V, 0-10V, 2-10V)	35.00
	P	Isolated Power Supply 24 VDC (910Ω min)	60.00
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	Code	Feature Option A	Adder
	0	None	nc
	1	RS485 (ModBus/RTU) Digital Comms	60.00
	2	Digital Input (Voltage Free or TTL Input)	60.00
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	Code	Power Supply	Adder
	0	100 - 240V AC	nc
	1	24 - 48V AC/DC	20.00
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4050	-	1	S
			A
			0
			0
			Typical Model Number

Standard lead times are based on Quantity:
1 - 5 pieces: 1 day
6+ pieces: Consult Factory

Prices are List, Schedule A Discount

Accessories

Description	Part Number
ChromaWare Configuration Software & Cable (40 & 50 Series)	0149-50060
Cable only for Configuration Software (40, 50 & 80 Series)	0149-50062
Snubber (PCN 314448)	0149-01305

Stocked Items

DIN Size	Part Number	PCN
1/16	6050-10000	314683
1/16	6050-1R000	314691
1/4	4050-1R000	314667

Technical Notes

- Quick Start Manuals are shipped with the Controller. Full Installation & Instruction Manuals are available on line at www.chromalox.com

80 Series 1/4 DIN Advanced Temperature & Process Controller

Model	80 Series Advanced Temperature & Process Controller	Base Price
4080	1/4 DIN, 1 Loop Large Graphical/Text LCD Display, up to 9 outputs (up to 5 programmable event outputs), reinforced safety isolation between inputs & outputs, universal inputs. Options: 64 program/255 segment Profiler, Data-Logging, USB Port, Real Time Clock, RS-485 (ModBus/RTU) Digital Communications, Ethernet Port (ModBus TCP Slave), Configuration & Monitoring Software. 32° to 131°F (0° to 55°C) Operating Temperature. 2 Year Warranty	540.00
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Code	Unit Type	Adder
C	Controller	nc
U	Controller with USB Port	75.00
R	Controller/Recorder with USB Port & Real Time Clock	250.00
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Code	Profiler Option	Adder
0	Not Fitted	nc
P	Profiler	200.00
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Code	Output 1	Adder
0	None	nc
R	*Relay (2 Amp resistive at 240 VAC, SPDT, Form C)	35.00
S	SSR (0/10 VDC, 500 Ω Minimum load)	35.00
A	*Analog (Linear DC: 0-20mA, 4-20mA, 0-5V, 0-10V, 2-10V)	35.00
T	*Triac (0.01 to 1 Amp AC, 20 to 280Vrms, 47 to 63Hz)	35.00
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Codes	Output 2 & Output 3 (Choose the Appropriate Code for Each)	Adder/Each
Out 2	Out 3	Output Type
0	0	None
R	R	*Relay (2 Amp resistive at 240 VAC, SPDT, Form C)
S	S	SSR (0/10 VDC, 500 Ω Minimum load)
A	A	*Analog (Linear DC: 0-20mA, 4-20mA, 0-5V, 0-10V, 2-10V)
T	T	*Triac (0.01 to 1 Amp AC, 20 to 280Vrms, 47 to 63Hz)
M	M	*Dual Relay Output - 2 Amp resistive, 240 VAC, SPST, Form A, norm. open, common terminal
W	W	Dual SSR Output - Non Isolated, 0/10 VDC, 500 Ω Minimum load
P	P	*Isolated Power Supply 24 VDC, 910 Ω Minimum
This Adder column for Outputs 2 & 3 represents the list price adder for a single output selection. Be sure to account for both output selections.		
<hr/>		
Code	Output 4	Adder
0	None	nc
1	*4 Relay Output - 2 Amp 240 VAC, SPST, Form A, norm. open, NOT common terminal	105.00
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Code	Feature Option A	Adder
0	None	nc
1	RS485 (ModBus/RTU) Digital Comms	60.00
2	Digital Input (Voltage Free or TTL Input)	60.00
3	¹ Remote Setpoint - Manual Set (RSP) Analog Input A	60.00
4	Ethernet Port - ModBus TCP Slave	125.00
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Code	Feature Option B	Adder
0	None	nc
1	¹ Enhanced Remote Setpoint Input & Digital Input	90.00
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Code	Reserved For Future Options	Adder
0	None	nc
<hr/>		
Code	Power Supply	Adder
0	100 - 240V AC	nc
1	24 - 48V AC/DC	20.00
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4080	- U P S S R - 0 1 0 0 0	Typical Model Number

Standard lead times are based on Quantity:
1 - 5 pieces: 1 day
6+ pieces: Consult Factory

Prices are List, Schedule A Discount

Order Table Note:

¹ Between Feature Option A & B, Only One Remote Setpoint may be selected.

Accessories

Description	Part Number
ChromaloxPro Configuration Software & Cable	0149-50061
Cable only for Configuration Software (40, 50 & 80 Series)	0149-50062
Snubber (PCN 314448)	0149-01305

Technical Notes

1. Quick Start Manuals are shipped with the Controller. Full Installation & Instruction Manuals are available on line at www.chromalox.com
- * Reinforced 240V safety isolation from inputs and other outputs.

60 Series 1/16 DIN Temperature & Process Controller

Model	60 Series 1/16 DIN Temperature and Process Controller	Base Price																					
6060	Combination 4 Digit 7-Segment & LCD Text Display on two rows, Universal Input, Up to 6 Outputs, up to 4 Digital Inputs (2: Volt-Free Standard, 2: TTL Optional), Auto or Manual Tuning, Heat/Cool Operation, 16 x16 Profile Programs with up to 4 events, Transmitter power supply or Heater Break/Remote Setpoint, Optional Features: Configuration Software, ModBus RS485 Communications. Operating Temperature: 32° to 140°F (0° to 60°C). IEC IP65 front panel protection, removable screw terminal block. UL/cUL, CE. 2-Year Warranty.	300.00																					
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0	100 - 240Vac	nc																					
1	24VAC, 18-30Vdc	20.00																					
6060	- P W M A 0 0	Typical Model Number																					

Standard lead times are based on Quantity:
15 Days

Prices are List, Schedule A Discount

Order Table Notes

- If Heater Current Setup, This Requires 1 On/Off Output from above (R, S or T) & 1 Current Transformer.

Accessories

Description	Part Number
Current Transformer for Heater Break Alarm (HBA): 0 - 25 Amp	0149-50071
Current Transformer for Heater Break Alarm (HBA): 0 - 50 Amp	0149-50072
Current Transformer for Heater Break Alarm (HBA): 0 - 100 Amp	0149-50073
ChromaloxPro Configuration Software	0149-50061
Snubber (0149-01305)	314448

Technical Notes

- Quick Start Manuals are shipped with the Controller. Full Installation & Instruction Manuals are available on line at www.chromalox.com

3204 1/32 DIN Auto Tuning PID Controller

Model	Base Price	
3204 1/32 DIN Compact 1/32 DIN AutoTune PID controller with the following standard features: User selectable inputs (thermocouple, RTD or 0-20, 4-20 mV or mA** linear process inputs), dual outputs for heat, cool and alarm; single ramp & soak program, latching alarm and limit control capability, with user program security levels. Also, NEMA 4X / IEC IP66 front panel; large 4-digit display. Optional features include RS-485 or RS-232 ModBus RTU digital communications. 3 year warranty. Approvals: UL, cUL, CE	180.00	
Code Outputs 1 and 2, Control Output or Alarm Adder		
11*	Two Relay Outputs: Output 1: 2 Amps at 250 VAC. Output 2: 1 Amp at 250 VAC. Both resistive loads	nc
71	Two Outputs: Output 1: Solid State Relay Drive, 5 Vdc, 15mA. Output 2: Relay, 1 Amp at 250 VAC	nc
77	Two Solid State Relay Drive Outputs: 5 Vdc, 15mA (X 2)	nc
Code Adder		
0	Add to complete model number	nc
9	Special Configuration	Consult Sales
Code Options Adder		
0	None	nc
1	RS-485 ModBus/RTU Digital Communications Interface	45.00
2	RS-232 ModBus/RTU Digital Communications Interface	45.00
Code Power Supply Adder		
0	90-264 Vac	nc
1	12-24 VDC/AC +/-20%	20.00
3204 - 71 0 0 0 Typical Model Number (3204-71000)		

*2 Relay Output Code "11" is not available with the 12-24 VDC/AC Power supply option
 ** 0-20 mA or 4-20 mA input signal requires 1Ω resistor. See accessories.

In Stock

Model	PCN
3204-11000	305090
3204-71000	305082
3204-77000	305103
3204-71001	305146
3204-77001	305162
3204-11010	305120
3204-71010	305111
3204-77010	305138
3204-11020	305189
3204-71020	305170
3204-77020	305197

Accessories

Description	PCN
Resistor, 1Ω (2% tolerance)	305630

ETR-3400

Model	Microprocessor based temperature controller with Smarter Logic®	Base Price
ETR-3400	1/32 DIN: Universal field selectable inputs; PID Autotuning; selection of various control outputs; additional analog or event inputs; analog or digital communications	265.00

Code	Power Input	Adder
4	90-264 Vac, 47/63 Hz	nc
5	11-26 Vac or Vdc	22.00

Code	Signal Input	Adder
1	Standard Input	nc
	Input 1 - Universal Input Thermocouple J, K, T, E, B, R, S, N RTD: PT100 DIN, PT100 JIS Current: 4-20mA, 0-20mA Voltage: 0-1V, 0-5V, 1-5V, 0-10V	
	Input 2 - ** CT: 0-50 Amp, AC Current Transformer*** Voltage Input: 0-1V, 0-5V, 1-5V, 0-10V Event Input (EI)**	

Code	Output 1	Adder
1	Relay rated 2A/240Vac	nc
2	Pulsed Volatge to Drive SSR, 5V/30mA	nc
3	Isolated 4 - 20mA / 0-20mA	33.00
4	Isolated 1 - 5 / 0 - 5V*	33.00
5	Isolated 0 - 10Vdc	33.00
6	Triac Output 1A/240Vac, SSR	33.00
C	Pulsed Volatge to Drive SSR, 14V/30mA	33.00

Code	Output2/Alarm 2	Adder
0	None	nc
1	Form A Relay 2A/240Vac	22.00
2	Pulsed Voltage to Drive SSR, 5V/30mA	22.00
3	Isolated 4 - 20mA / 0 - 20mA*	33.00
4	Isolated 1 - 5 / 0 - 5V*	33.00
5	Isolated 0 - 10Vdc	33.00
6	Triac Output 1A/240Vac, SSR	33.00
7	Isolated 20V/25mA DC Output Power Supply	33.00
8	Isolated 12V/40mA DC Output Power Supply	33.00
9	Isolated 5V/80mA Dc Output Power Supply	33.00
C	Pulsed Voltage to Drive SSR, 14V/30mA	33.00

Code	Alarm 1	Adder
5	5V Logic Output	nc

Code	Communications	Adder
0	None	nc
1	RS-485 Interface	120.00
2	RS-232 Interface**	180.00
3	Retransmit 4 - 20mA, 0 - 20mA*	120.00
4	Retransmit 1 - 5V/0 - 5Vdc*	120.00
5	Retransmit 0 - 10Vdc	120.00

ETR-3400-	4	1	1	1	1	1	Typical Model Number (ETR-3400-411111)
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ACCESSORIES

CC94-1	RS-232 Interace Cable (2M)	55.00
CT94-1	Current Transformer for CT Input/Heater Break Option	50.00
SNA10A	Smart Network Adapter for Third Party Software. Converts one channel of RS-485 or RS-422 to RS-232 Network.	265.00

*Range is set by front keyboard
 **Alternative between RS-232, Event Input, and CT Input Option includes communications cable
 ***Order CT94-1 if Heater Break Function is required

2110 Temperature Controller

Model	Base Price
2110	400.00
Microprocessor-based 1/4 DIN temperature controller, Accepts type J or K thermocouple input or RTD	
Code Output #1 - Single Output Control Adder	
R1	Relay, 1 Amp Form A, 120/240 Vac 41.00
R3	Relay, 20 Amps Form A, 120/240 Vac 51.00
V0	Solid State Relay, Drive 24 Vdc @ 40 mA 41.00
S0	Solid State Relay, 1 Amp, 120/240 Vac 41.00
S1	Solid State Relay, 5 Amps, 120/240 Vac 68.00
S2	Solid State Relay, 10 Amps, 120/240 Vac 96.00
Code Output #2, Alarm, Output Adder	
0	No Alarm nc
1	Relay, Form "C", 5 Amp @ 240 Vac, 2.5 Amps @ 120 Vac 29.00
Code Adder	
0	Add to complete model number nc
Code Power Supply Adder	
0	90-260 Vac nc
2110- R3 1 0 0	Typical Model Number (2110-R3100)

ACCESSORIES

Part Number	Description	PCN	
0149-27133	R1 1 Amp Relay	317180	60.00
0149-27132	R2 20 Amp relay	317198	70.00
0149-27135	V0 SSR Drive Out	317200	60.00
0149-27134	S0 1 Amp Triac	317219	60.00
0149-27136	S1/S2 5, 10 Amp SSR	317227	125.00
0149-27147	R1 1 Amp Relay + Alarm	317139	80.00
0149-27146	R3 20 Amp Relay + Alarm	317147	90.00
0149-27149	V0 SSR Drive Out + Alarm	317155	80.00
0149-27148	S0 1 Amp Triac + Alarm	317163	80.00
0149-27150	S1/S2 5, 10 Amp SSR + Alarm	317171	150.00
0149-00022	Fan Kit	317235	105.00

In Stock

Model	Description	PCN
2110-R1000	1 Amp Relay	317016
2110-R1100	1 Amp Relay Alarm	317075
2110-R3000	20 Amp Relay	317024
2110-R3100	20 Amp Relay Alarm	317083
2110-V0000	SSR Drive	317032
2110-V0100	SSR Drive Alarm	317091
2110-S2000	10 Amp SSR	317067
2110-S2100	10 Amp SSR Alarm	317120

1040 DIN Rail Modular Multiple Loop Temperature Controller

Communication Module

Part Number	Communication Platform	List Price
1040 - M B	Modbus RTU/RS485	380.00
1040 - D N	DeviceNET	525.00
1040 - P B	Profibus	580.00
1040 - E P	Ethernet/IP	555.00
1040 - M T	MODBUS TCP/IP	555.00

Loop Control Module

Part Number	Loop Description		List Price
	Inputs	Outputs	
1040 - 1 2 0 0 0 0	1 Universal	2 SSR/Relay (selectable)	285.00
1040 - 1 2 0 0 1 0	1 Universal	2 SSR/Relay (selectable), 1 Linear OR 3 SSR/Relay (selectable)	320.00
1040 - 1 2 0 0 1 1	1 Universal, 1 Heater Break	2 SSR/Relay (selectable), 1 Linear OR 3 SSR/Relay (selectable)	335.00
1040 - 3 0 0 6 0 1	3 Universal, 1 Heater Break	6 Relay	695.00
1040 - 3 0 6 0 0 1	3 Universal, 1 Heater Break	6 SSR	695.00
1040 - 3 0 4 0 0 0	3 Universal, 1 Heater Break	4 SSR, 2 Relay	695.00
1040 - 4 0 0 6 0 0	4 Universal	6 Relay	660.00
1040 - 4 0 6 0 0 0	4 Universal	6 SSR	660.00
1040 - 4 0 4 2 0 0	4 Universal	4 SSR, 2 Relay	660.00

Note: SSR/Relay & 3 SSR/Relay Output Options are User Selectable

Accessories

Part Number	Description	List Price
0149-50082	Configuration Software, Cable & Manual	110.00
0149-50071	Current Transformer for Heater Break Alarm (HBA) 0 - 25 A	40.00
0149-50072	Current Transformer for Heater Break Alarm (HBA) 0 - 50 A	40.00
0149-50073	Current Transformer for Heater Break Alarm (HBA) 0 - 100 A	50.00

3340 Four Loop Autotuning PID Controller

Model											Base Price
3340	Four Loop Autotuning PID Controller										1,025.00
	Code	Input									Adder
	1	Thermocouple J, K, R, S, B, E, PLII, N, T, U, L									nc
	3	Vdc 0-5, 0-10, 1-5Vdc									nc
	4	RTD 100 ΩP/t									nc
	Code	Out 1-4 Heat or Cool									Adder
	R	Relay 3 amp, 250Vac									nc
	V	SSR drive, 12Vdc at 20ma									nc
	T	Triac, 0.5 A									190.00
	7	0-20ma up to 600 ohms									190.00
	8	4-20ma up to 600 ohms									190.00
	Code	Out 5-8 Cool or Alarm									Adder
	0	no outputs									nc
	R	Relay 3 amp, 250Vac									120.00
	V	SSR drive, 12Vdc									120.00
	T	Triac, 0.5 A									310.00
	7	0-20ma up to 600 ohms									310.00
	8	4-20ma up to 600 ohms									310.00
	Code	Power									Adder
	3	24Vac/Vdc									nc
	4	100-240Vac									nc
	Code	Alarm 1									Adder
	1	Relay, 1A, 250Vac									nc
	Code	Alarm 2									Adder
	0	No alarm									nc
	1	Relay, 1A, 250Vac									58.00
	2	Heater Break Alarm, 30A, 1 Phase									195.00
	3	Heater Break Alarm, 100A, 1 Phase									195.00
	4	Heater Break Alarm, 30A, 3 Phase									195.00
	5	Heater Break Alarm, 100A, 3 Phase									195.00
	Code	Alarm 3									Adder
	0	No alarm									nc
	1	Relay, 1A, 250Vac									58.00
	Code	Contact In									Adder
	0	None									nc
	1	5 Digital Inputs									58.00
	Code	Digital Communications									Adder
	0	None									nc
	6	RS-485/RS-422 Modbus									215.00
	8	RS 232 - MObus									215.00
	Code	Waterproof									Adder
	0	IP65									nc
3340-	1	R	R	4	1	0	0	0	0	0	Typical Model Number (3340-1RR4100000)

Stock Items	Description	PCN	List Price
3340-1R04100000	4 channel, with 4 Relay, TC	317884	1,025.00

3380 Eight Loop Autotuning PID Temperature Controller

Model											Base price		
3380	Eight Loop Autotuning PID Temperature Controller										1,730.00		
	Code	Input									Adder		
	1	Thermocouple J, K, R, S, B, E, PLII, N, T, U, L									nc		
	3	Vdc 0-5, 0-10, 1-5Vdc									nc		
	4	RTD, 100 ohm Pit									nc		
			Code	Control Out 1-4							Adder		
			R	Relay 3 amp, 250Vac							nc		
			V	SSR drive, 12Vdc at 20ma							nc		
			T	Triac, 0.5 A							190.00		
			7	0-20ma up to 600 ohms							190.00		
			8	4-20ma up to 600 ohms							190.00		
					Code	Control Out 5-8					Adder		
					R	Relay 3 amp, 250Vac					nc		
					V	SSR drive, 12Vdc at 20ma					nc		
					T	Triac, 0.5 A					190.00		
					7	0-20ma up to 600 ohms					190.00		
					8	4-20ma up to 600 ohms					190.00		
							Code	Power			Adder		
							3	24Vac/Vdc			nc		
							4	100-240Vac			nc		
									Code	Alarm 1	Adder		
									1	Relay, 1A, 250Vac	nc		
										Code	Alarm 2	Adder	
										0	No alarm	nc	
										1	Relay, 1A, 250Vac	58.00	
										2	Heater Break Alarm, 30A, 1 Phase	195.00	
										3	Heater Break Alarm, 100A, 1 Phase	195.00	
											Code	Alarm 3	Adder
										0	No alarm	nc	
										1	Relay, 1A, 250Vac	58.00	
											Code	Contact In	Adder
										0	None	nc	
										1	5 Digital Inputs*	58.00	
											Code	Digital Communications	Adder
										0	None	nc	
										6	RS-485/RS-422 Modbus*	215.00	
										8	RS 232 - Modbus*	215.00	
											Code	Waterproof	Adder
										0	IP65	nc	
3380-	1	V	V	4	1	1	1	0	0	0	Typical Model Number (3380-1VV411100)		

*Heater Break Alarm and communication/contact input cannot be specified on the same hardware

Stock Items	Description	PCN	List Price
3380-1VV4100000	8 channel, with 8 SSR dr., TC	317825	1,730.00

2104 Temperature and Process Controller

(Obsoleted product. Limited quantities available.)

Microprocessor-based 1/4 DIN Temp. Controller	Universal Sensor Input
PID, On/Off and Fuzzy Logic Control Capability	16 Segment Ramp/Soak Program
Analog Remote Set Point	24 Vdc Transmitter Power Supply
One Digital Input	UL, cUL

Model	Base Price
2104 Temperature and Process Controller	600.00
Code Output #1 - Single Output Control Adder	
R0	nc
Relay/SSR Drive (jumper selectable) Relay-N.O. Form A Contact, 1A at 120 or 230 Vac SSR Drive-24 Vdc at 40mA	
T0	nc
Triac-1 Amp at 120 or 230 Vac	
A0	nc
Analog-4-20mA or 1-5 Vdc, non-isolated	
Outputs #1 and #2 - Heat/Cool Control	
RR	nc
Relay/Relay	
TT	62.00
Triac/Triac	
AA	62.00
Analog/Analog	
SS	62.00
SSR Drive/SSR Drive	
AR	62.00
Analog/Relay	
AT	62.00
Analog/Triac	
SR	62.00
SSR Drive/Relay	
SSR Drive/Triac (obsolete, replaced by SR code)	
Code Outputs #3 & #4 or Power Supply Adder	
0	nc
None	
1	62.00
Dual Relay-Form A Contact, 1A at 120 or 230 Vac with shared common terminal	
7	111.00
Isolated Power Supply 12 Vdc, 50mA	
Code Communications, Output #5 (Alarm/Event) & Analog Output Options Adder	
0	nc
None	
1	160.00
RS-422/485 Digital Communications and Output #5	
2	160.00
RS-232 Digital Communications and Output #5	
3	145.00
Analog Output Option	
4	195.00
RS-422/485 Digital Communications, Output #5 and Analog Output Option	
5	195.00
RS-232 Digital Communications, Output #5 and Analog Output Option	
Code Power Supply Adder	
0	nc
100 - 240 Vac	
1	90.00
12-24 Vac/Vdc	
2104 - R0 1 1 0 Typical Model Number (2104-R0110)	

ACCESSORIES

Part Number	Description	PCN	Price
0149-01305	Snubber	314448	20.00
0149-27095	Digital Communications/Output RS-485/422 Auxiliary Board		160.00
0149-27096	Digital Communications/Output RS-232 Auxiliary Board		160.00
CC94-1	RS-232 Interface Cable (2M)		55.00
0149-01333-0002	Housing with Auxiliary Board Connection		150.00
0149-01332-0004	Housing without Auxiliary Board Connection		150.00
0149-27097	Outputs 3 and 4 Alarm / Event Board	306659	118.00
0149-27126	Isolated Power Supply Board 12 Vdc, 50mA		111.00
Control Output Modules			
0149-27106	Single Output-Relay or Solid State Relay Drive	306624	62.00
0149-27105	Single Output-Triac	306632	62.00
0149-27100	Single or Dual Output - 4-20mA/1-5 Vdc Analog	306640	118.00
0149-27097	Dual Output-Relay and Relay	306659	118.00
0149-27099	Dual Output-Triac and Triac	306667	118.00
0149-27098	Dual Output-SSR Drive and SSR Drive	306675	118.00
0149-27103	Dual Output - 4-20mA/1-5Vdc Analog and Relay	306683	118.00
0149-27104	Dual Output - 4-20mA/1-5Vdc Analog and Triac	306691	118.00
0149-27101	Dual Output-SSR Drive and Relay	306704	118.00
0149-27102	Dual Output-SSR Drive and Triac	306712	118.00

SHIPPING WEIGHT

Shipping weight is approximately 5 pounds (net weight 3 1/2 pounds).

While Supplies Last - Being Replaced By the 4040 & 4080 Series

Model	Description	PCN
2104-A0000	Analog	306579
2104-A0100	Analog, Alarm, Alarm,	306587
2104-R0000	Relay (SSR)	306510
2104-R0100	Relay (SSR), 2-Alarm	306528

3101 High/Low Limit Controller

(Obsoleted product. Limited quantities available.)

1/4 DIN High/Low Limit Controller	One Digital Input	UL, cUL, FM
Universal Sensor Input	One Alarm Output	
Model	Temperature Controller	Base Price
3101	High/Low Limit Controller (see specifications above)	665.00
	Code	Adder
	1	nc
	Relay, Form C Contact, 5A @ 120 or 230 Vac	
	Code	Adder
	1	nc
	Relay, Form C Contact, 5A @ 120 or 230 Vac	
	Code	Adder
	0	nc
	1	105.00
	Field Selectable 4-20mA or 1-5Vdc	
	Code	Adder
	0	nc
	1	150.00
	RS-422/485 Digital Communications and Alarm #2 Relay-Form C Contact, 5A @ 120 or 230 Vac	
	2	150.00
	RS-232 Digital Communications and Alarm #2 Relay-Form C Contact, 5A @ 120 or 230 Vac	
	Code	Adder
	0	nc
	100-230 Vac	
3101-	1 1 1 2 0	Typical Model Number (3101-11120)

ACCESSORIES

Part Number	Description	PCN	
CC94-1	RS-232 Interface Cable		55.00
0149-01305	Snubber	314448	20.00
0149-27095	Digital Communications/Output RS-485/422		160.00
0149-27096	Digital Communications/Output RS-232		160.00
0149-01333-0002	Housing with Auxiliary Board Connection		150.00
0149-01332-0004	Housing without Auxiliary Board Connection		150.00

SHIPPING WEIGHT

Shipping weight is approximately 5 pounds (net weight approximately 3 1/2 pounds).

Being Replaced By the 4050 Series

1600 1/16 DIN High/Low Limit Controller

(Obsoleted product. Limited quantities available.)

Field Selectable Universal Thermocouple, RTD, Current, or Voltage Inputs

Output (Limit/Alarm)

4-Digit Display

UL, FM, cUL, CE

Programmable Alarm

IEC 801-4 Noise Immunity

IP65 and NEMA 4X Faceplate

Model	Base Price
1600 1/16 DIN High/Low Controller	375.00
Code Output 1	Adder
1 Relay, 3 Amps at 250 Vac, Form C Contact	nc
Code Output 2 Alarm	Adder
0 None	nc
1 Relay, 2 Amps at 250 Vac, Form A Contact	35.00
Code Options	Adder
0 Add to complete model number	nc
1 RS-485 Digital Communications and Event Input	195.00
Code Power Supply	Adder
3 100/240 Vac	nc
5 24 Vac/dc	62.00
Code	Adder
0 Add to complete model number	nc
1600- 1 1 0 3 0 Typical Model Number (1600-11030)	

SHIPPING WEIGHT

Shipping weight is approximately 2 pounds (net weight less than 1/2 pounds).

Being Replaced By the 6050 Series

In Stock While Supplies Last

Model	PCN
1600-10030	307475
1600-11030	307483
1600-11050	317745
1600-11130	317972

1601E 1/16 DIN Temperature Controller

(Obsoleted product. Limited quantities available.)

SMART Self-Tuning	IEC Noise Immunity
Single 4-Digit Display	Universal T/C or RTD Inputs
Up to Three Outputs	Programmable Alarms
NEMA 4X Faceplate	UL, cUL, CE
All Parameters Programmed w/o Internal Switches	

Model	Base Price																																										
1601E 1/16 DIN Temperature Controller	340.00																																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Code</th> <th style="text-align: left;">Output 1-Heat or Cool</th> <th style="text-align: right;">Adder</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Relay, 3 Amps at 250 Vac (Resistive)</td> <td style="text-align: right;">nc</td> </tr> <tr> <td>6</td> <td>SSR Drive, 14 Vdc at 20 mA</td> <td style="text-align: right;">nc</td> </tr> <tr> <th style="text-align: left;">Code</th> <th style="text-align: left;">Output 2-Cool or Alarm</th> <th style="text-align: right;">Adder</th> </tr> <tr> <td>1</td> <td>Relay, 1 Amp at 250 Vac (Resistive Load)</td> <td style="text-align: right;">nc</td> </tr> <tr> <th style="text-align: left;">Code</th> <th style="text-align: left;">Options</th> <th style="text-align: right;">Adder</th> </tr> <tr> <td>0</td> <td>None</td> <td style="text-align: right;">nc</td> </tr> <tr> <td>1</td> <td>Alarm 2 relay SPST, 2A, 250Vac, Resistive Load</td> <td style="text-align: right;">29.00</td> </tr> <tr> <td>2</td> <td>Logic Input for Timer Function or Switch SP1/SP2</td> <td style="text-align: right;">29.00</td> </tr> <tr> <th style="text-align: left;">Code</th> <th style="text-align: left;">Power Supply</th> <th style="text-align: right;">Adder</th> </tr> <tr> <td>3</td> <td>100/240 Vac</td> <td style="text-align: right;">nc</td> </tr> <tr> <td>5</td> <td>24 Vac/dc</td> <td style="text-align: right;">62.00</td> </tr> <tr> <th style="text-align: left;">Code</th> <th style="text-align: left;">Adder</th> <th style="text-align: right;">Adder</th> </tr> <tr> <td>0</td> <td>Add to complete model number</td> <td style="text-align: right;">nc</td> </tr> </tbody> </table>	Code	Output 1-Heat or Cool	Adder	1	Relay, 3 Amps at 250 Vac (Resistive)	nc	6	SSR Drive, 14 Vdc at 20 mA	nc	Code	Output 2-Cool or Alarm	Adder	1	Relay, 1 Amp at 250 Vac (Resistive Load)	nc	Code	Options	Adder	0	None	nc	1	Alarm 2 relay SPST, 2A, 250Vac, Resistive Load	29.00	2	Logic Input for Timer Function or Switch SP1/SP2	29.00	Code	Power Supply	Adder	3	100/240 Vac	nc	5	24 Vac/dc	62.00	Code	Adder	Adder	0	Add to complete model number	nc	
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Code	Adder	Adder																																									
0	Add to complete model number	nc																																									
1601E - 6 1 0 3 0	Typical Model Number (1601E-61030)																																										

ACCESSORIES

Part Number	Description	PCN	Price
0149-01305	Snubber	314448	20.00
0006-12137	1/4 DIN to 1/16 DIN Mounting Adapter Plate	306923	115.00
CNFG-10000	Configuration Kit	317614	600.00

SHIPPING WEIGHT

Shipping weight is approximately 2 pounds (net weight less than 1/2 pounds).

In Stock While Supplies Last - Being Replaced by the 6040 Series

Model	PCN
1601E-11030	317534
1601E-61030	317542

1603E 1/16 DIN Temperature Controller

(Obsoleted product. Limited quantities available.)

SMART Self-Tuning	Heat/Cool or Control Alarm
Dual 3-Digit Display	Universal T/C or RTD Inputs
Up to Three Outputs	Programmable Alarms
NEMA 4X Faceplates	UL, cUL, CE
All Parameters Programmed w/o Internal Switches	

Model	Base Price																																										
1603E 1/16 DIN Temperature Controller	375.00																																										
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1	Alarm 2 relay SPST, 2A, 250vac, Resistive Load	29.00																																									
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Code	Adder	Adder																																									
0	Add to complete model number	nc																																									
1603E - 6 1 0 3 0	Typical Model Number (1603E-61030)																																										

ACCESSORIES

Part Number	Description	PCN	Price
0149-01305	Snubber	314448	20.00
0006-12137	1/4 DIN to 1/16 DIN Mounting Adapter Plate	306923	115.00
CNFG-10000	Configuration Kit	317614	600.00

SHIPPING WEIGHT

Shipping weight is approximately 2 pounds (net weight less than 1/2 pound).

In Stock While Supplies Last - Being Replaced by the 6040 Series

Model	PCN
1603E-11030	317577
1603E-61030	317585
1603E-11050	317593
1603E-11130	305947
1603E-61130	305966
1603E-11230	305963

1604 1/16 DIN Temperature Controller

(Obsoleted product. Limited quantities available.)

SMART Self-Tuning	Optional Heater Breakdown Alarm
Dual 4-Digit Display	Optional Digital Communications
Two or Three Outputs	Auto/Manual Control
Universal Inputs	NEMA 4X Faceplate
UL, cUL, CE	

Model	Base Price																																																														
1604 1/16 DIN Temperature Controller	440.00																																																														
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ACCESSORIES

Part Number	Description	PCN	Price
0149-01305	Snubber	314448	20.00
0006-12137	1/4 DIN to 1/16 DIN Mounting Adapter Plate	306923	115.00

Heater Break Down Transformers

*Controllers with the Heater break Down option, models 1604-xx2xx and 1604-xx4xx require a Current Transformer. Specify one of the four Current Transformers listed below when ordering a Controller with the Heater Break Down option.

	Part Number	PCN	Price
Current Transformer, for 0.0-10.0 Amp Load Current	0149-01340	306480	62.00
Current Transformer, for 0-25 Amp Load Current	0149-01341	306350	62.00
Current Transformer, for 0-50 Amp Load Current	0149-01342	306368	62.00
Current Transformer, for 0-100 Amp Load Current	0149-01343	306376	62.00

SHIPPING WEIGHT

Shipping weight is approximately 2 pounds (net weight less than 1/2 pounds).

In Stock While Supplies Last - Being Replaced by the 6040 Series

Model	PCN
1604-11030	306270
1604-61030	306288
1604-11130	306296
1604-61130	306309
1604-11230	306317
1604-61230	306325
1604-61430	306341

1604mA 1/16 DIN Temperature Controller

(Obsoleted product. Limited quantities available.)

SMART Self-Tuning	3 Outputs (Heat/Cool or Control/Alarm)
Programmable Linear Output	Dual 4-Digital Display Resolution
Field Selectable Universal Thermocouple	0.1 Degree Display Resolution
RTD, Voltage or Current Inputs	UL, cUL, CE
Auto/Manual Control	IP65 and NEMA 4X Splashproof Faceplate
	Optional Digital Communications

Model		Base Price
1604	1/16 DIN Temperature Controller	505.00
	Code Output 1-Heat, Cool or Process/Setpoint Retransmit	Adder
	7 0-20mA or 4-20ma (programmable), optoisolated	nc
	Code Output 2-Heat, Cool or Alarm	Adder
	1 Relay, 2 Amps at 240 Vac	nc
	Code Options	Adder
	1 Output #3 relay, 2 Amps at 240 Vac (Resistive Load)	nc
	3 RS485 Digital Communications and Output #3	150.00
	Code Power Supply	Adder
	3 100/240 Vac	nc
	5 24 Vac/dc	62.00
	Code	Adder
	0 Add to complete model number	nc
1604 -	7 1 1 3 0	Typical Model Number (1604-71130)

SHIPPING WEIGHT

Shipping weight is approximately 2 pounds (net weight less than 1/2 pounds).

In Stock While Supplies Last - Being Replaced by the 6040 Series

Model	PCN
1604-71130	307491

1605 Ramp/Soak Temperature Controller

(Obsoleted product. Limited quantities available.)

SMART Self-Tuning 3 Outputs Auto/Manual Controls, Programmable Alarms IP65 and NEMA 4X Splashproof Faceplate Field Selectable Universal Thermocouple, RTD, Voltage or Current Inputs	Programmable 4-Segment Ramp/Soak Profile Dual 4-Digit Display of Process and Setpoint 0.1 Degree Display Resolution CE, UL, cUL
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Model	Base Price									
1605 1/16 DIN Temperature Controller	510.00									
<table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Code</th> <th style="text-align: left;">Output 1 - Heat or Cool</th> <th style="text-align: right;">Adder</th> </tr> </thead> <tbody> <tr> <td style="border-left: 1px solid black;">1</td> <td>Relay, 3 Amps at 240 Vac</td> <td style="text-align: right;">nc</td> </tr> <tr> <td style="border-left: 1px solid black;">6</td> <td>SSR Drive, 14 Vdc at 20mA</td> <td style="text-align: right;">nc</td> </tr> </tbody> </table>	Code	Output 1 - Heat or Cool	Adder	1	Relay, 3 Amps at 240 Vac	nc	6	SSR Drive, 14 Vdc at 20mA	nc	
Code	Output 1 - Heat or Cool	Adder								
1	Relay, 3 Amps at 240 Vac	nc								
6	SSR Drive, 14 Vdc at 20mA	nc								
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Code	Power Supply	Adder								
0	Add to complete model number	nc								
1605 - 1 1 1 3 0	Typical Model Number (1605-11130)									

SHIPPING WEIGHT

Shipping weight is approximately 2 pounds (net weight less than 1/2 pound).

In Stock While Supplies Last - Being Replaced by the 6040 Series

Model	PCN
1605-11130	307504
1605-61030	307512

8003 1/8 DIN Temperature Controller

(Obsoleted product. Limited quantities available.)

SMART Self-Tuning	Heat/Cool or Control/Alarm
Dual 3-Digit Display	Universal T/C or RTD Inputs
Two Outputs	Programmable Alarms

Model	Base Price																																				
8003 1/8 Din Temperature Controller	585.00																																				
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8003- 1 1 1 3 0	Typical Model Number (8003-11130)																																				

ACCESSORIES

Part Number	Description	PCN	Price
0149-01305	Snubber	314448	20.00
0006-12136	1/4 DIN to 1/8 DIN Adapter Plate	306931	185.00

SHIPPING WEIGHT

Shipping weight is approximately 2 pounds.

**Being Replaced By the 8040 Series
In Stock**

Model	PCN
8003-11030	306202
8003-11130	306210

ECR1 Electronic Chart Recorder

Model	ECR1 Electronic Chart Recorder Basic Configuration										
ECR1											
Code	Power									Base Price	
4	90-250 VAC, 47-63 Hz									nc	
6	11-18Vdc									nc	
7	18-36Vdc									nc	
Code	Analog Input Card									Adder	
3	3 Channels (1 Card*)									2,340.00	
6	6 Channels (2 Cards*)									2,540.00	
A	9 Channels (3 Cards*)									2,840.00	
B	12 Channels (4 Cards*)									3,160.00	
C	15 Channels (5 Cards*)									3,460.00	
D	18 Channels (6 Cards*)									3,710.00	
Code	Digital Input Card									Adder	
0	None									nc	
1	6 Channels (1 Card*)									255.00	
2	12 Channels (2 Cards*)									510.00	
Code	Digital Output Card									Adder	
0	None									nc	
1	6 Relays (1 Card*)									255.00	
2	12 Relays (2 Cards*)									510.00	
Code	Communications									Adder	
0	Standard Ethernet Interface									nc	
1	RS-232/422/485 (three in one)* Ethernet interface									230.00	
Code	PC Software									Adder	
1	Free Basic Observer I for non-communication application									nc	
2	Extensive Observer II for communication via RS-232/422/485 or Ethernet									255.00	
Code	Firmware									Adder	
0	Basic Function									nc	
1	With Mathematics, Counter and Totalizer Functions									375.00	
Code	Storage Media									Adder	
1	500 MB Compact Flash Card (CF)									125.00	
4	1 GB Compact Flash Card (CF)									200.00	
Code	Case/Mounting									Adder	
1	Standard Panel Mount									nc	
2	Bench Top/Portable Style with Handle									220.00	
Code	Special Option									Adder	
0	None									nc	
1	24Vdc Auxiliary Power Supply (for Transmitter, 6 Channels)									250.00	
ECR1 –	4	A	0	0	0	1	0	1	1	0	Typical Model Number (ECR1-4A00010110)

*Standard model without options, ECR1-4A00010110
 *The rear slots of the recorder will only accept up to 6 cards in any combination.

CX224 12 Channel Temperature Monitor

Model				Price
CX224	12 Channel Temperature Monitor			4,050.00
	Code	Input Voltage		
	A	120/240 Vac, 50/60 Hz		nc
		Code	Output	
		1	Relays (10A, 250 Vac)	nc
		2	Logic (5 Vdc)	nc
		Code	Communications	
		A	RS-232	nc
		B	RS-485	nc
CX224-	A	1	A	Typical Model Number (CX224-A1A)

Stocked Models:

	PCN	List Price
CX224-A1A, 12 Channel, Relay, RS-232	309913	4,050.00
CX224-A1B, 12 Channel, Relay, RS-485	309921	4,050.00

ChromaSoft™ SpecView®

Model																																																																			
Soft	ChromaSoft™ SpecView®																																																																		
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To order specify number of simultaneous users. If 01 is ordered, only one additional computer can be connected at a time, although multiple computers can have access.