

48VTR
96VTR

From
\$179

Temperature & Process Autotuning PID Controllers

Dual display of process and setpoint value, Control and Limit Alarm relays plus Ramp-to-setpoint control

Features:

- Dual 4-digit LED displays of process and setpoint values
- User friendly menus and tactile keypad for easy programming
- One-touch autotuning for quick setup & precise control
- Includes Limit Alarm relay(s) with 8 programmable modes and adjustable deadband provides for dual control (heat and cool)
- Countdown timer for setting delay of alarm relay activation
- Single stage Ramp Soak and Auto/manual control modes
- Model 48VTR is UL recognized and CE approved
- One year warranty
- Complete with mounting brackets and screw terminals



Specifications

Function	Ranges
Temperature Inputs: (Also Types B,E,N,R,S)	Type J: -58 to 1830°F (-50 to 1000°C) Type K: -58 to 2498°F (-50 to 1370°C) Type T: -454 to 752°F (-270 to 400°C) RTD (Pt-100): -392 to 932°F (-200 to 500°C)
DC Process Inputs:	4-20mA or 1-5VDC
Accuracy:	±0.2% FS (indicating and setpoint)
Control Action:	Proportional Band: 0 to 100% (autotuneable) Integral & Derivative Time: 0 to 3000sec (autotuneable) Cycle Time: 1 to 100sec Anti-Reset: Standard (fixed)
Hysteresis:	0.0 to 25.5% (for ON/OFF control)
Ramp Rate:	0 to 100°C/min
Limit Alarm Relays:	5A at 110V (48VTR: 1 alarm relay, 96VTR 2 alarm relays)
Operating Temperature:	14 to 122°F (-10 to 50°C)
Panel Cutout:	1/16 DIN: 1.77x1.77" (45x45mm); 1/4 DIN: 3.5x3.5" (89x92mm)
Power:	85 to 260VAC 50/60Hz
Depth Behind Panel:	4" (102mm) including screw terminals

Ordering

Complete part number below with your desired input and output

48VTR	1/16 DIN PID Ramp to Setpoint Controller	\$179
96VTR	1/4 DIN PID Ramp to Setpoint Controller	\$299
I	Thermocouple inputs (User selectable J,K,T,B,E,R,S,N)	
R	RTD Input (Pt-100 Ω)	
A	4-20mA Process inputs (Programmable to engineering units)	
V	1-5VDC Process inputs (Programmable to engineering units)	
1	5A at 110VAC Relay control output	
2	Pulsed 24VDC control output	
3	4-20mA control output	ADD \$30

Accessories

404216	1/16 DIN NEMA-4X Cover	\$19
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390 Series

From
\$59

1/8 DIN Process Panel Meters

Big Digit loop powered LCD or 5VDC powered LEDs display 4-20mA in engineering units of choice

Features:

- Big digit LED or Loop Powered LCD display for viewing from a distance
- 9 large user selected annunciators on Loop-Powered LCD
- Slimline design only 1.37" (35mm) deep
- Decimal point selectable by solder jumpers
- Multi-turn Offset and Span for easy calibration in engineering units
- One year warranty
- Screw terminals for power and input signals



Specifications

Function	
Standard Range:	4-20mA displays 0 to 100.0
Accuracy:	±(0.05%+1 digit) typical
Offset-Span Adjust:	Offset ±20% of span / Span <350 to >2000 counts
Dimensions:	1.89x3.78" (48x96mm)
Weight:	2oz (55g)
Cutout/Depth/Thickness:	1.77x3.82" (45x92mm) / Depth: 1.37" (35mm) / 0.08" (2mm)

Ordering

390RAS1	4-20mA 5V Powered, Red 0.8" (20mm) LED	\$59
390GAS1	4-20mA 5V Powered, Green 0.8" (20mm) LED	\$59
390LAS3	4-20mA Loop Powered 0.98" (25mm) LCD	\$69
390117	Regulated 5VDC/117VAC Adaptor	\$15
Special Scaling		ADD \$30

4028 Series

\$159

1/8 DIN Temperature Indicators

1/8 DIN Temperature Indicators for Types J or K Thermocouples

Features:

- 1999 count 0.56" (14mm) LED
- Wide range display scaling via easily accessible pot adjustments behind snap off faceplate
- Temperature inputs: types J, K, T thermocouple or RTD (Pt-100Ω)
- Accuracy 0.25% FS, analog output of 1mV per degree
- Fits in 1/8 DIN panel cutout: 1.77x3.66" (45x92mm)
- Bezel dims.: 3.78x1.89x4.57" deep (96x48x116mm); Weight: 15.2oz (431g)
- 1 year warranty
- Screw terminals for power (110/220VAC) and signal inputs



Ordering

4028JF1 ...Type J Indicator -60 to 1380°F (-50 to 750°C) ...\$159
 4028KF1 ...Type K Indicator -60 to 1999°F (-50 to 1200°C) ...\$159
 4028TF1 ...Type T Indicator -150 to 390°F (-100 to 200°C) ...\$159
 4028PF1 ...RTD (Pt-100Ω) -148 to 752°F (-100 to 400°C) ...\$159

Accessories

404218 ...1/8 DIN NEMA-4 Bezel Cover\$19

M1001AS
M3000AS

From \$99

Scaleable AC & DC Indicators

1/8 DIN Temperature, Voltage, and 4-20mA models

Features:

- 1999 count 0.56" (14mm) LED
- Multiple inputs/scaleable display for Current and Voltage models
- Wide range display scaling via easily accessible pot adjustments behind snap off faceplate
- Fits in 1/8 DIN panel cutout: 1.77x3.66" (45x92mm)
- Bezel dims.: 3.78x1.89x4.57" deep (96x48x116mm); Weight: 15.2oz (431g)
- 1 year warranty
- Screw terminals for power (110/220VAC) and signal inputs



Ordering

M1001AS ...Programmable DC Process Indicator\$99
 M3000AS ...Programmable AC Indicator\$129

Accessories

404218 ...1/8 DIN NEMA-4 Bezel Cover\$19

Specifications

Function	M1001AS: DC input	M3000AS: AC Inputs (direct or via a CT or PT)
Accuracy:	±(0.05% of rdg +1count)	±(0.25% of rdg)
Current:	0 to 20mA (4 to 20mA)	0 to 5A
Voltage:	0 to 2V, 0 to 20V, 0 to 200VDC	20.00, 200.00, 480VAC
Zero Adjust:	±250 counts	-300 to 120 counts
Span Adjust:	1800 counts	1800 counts

405000

From \$79

Two-Wire Transmitters

Thermocouple or RTD Input, 4-20mA output

Features:

- Surface mount design ensures repeatability and precision
- ABS construction with protective cover
- Mounts on the sensor head of a temperature probe
- Programmable J, K Thermocouple or Pt-100Ω RTD inputs
- Easily field-calibrated
- Cold Junction Compensated (CJC)
- 4-20mA non-linearized output with 0.1% FS accuracy
- Dimensions: 1.7"Dx1"H (43x26mm) Weight: 0.8oz (25g)
- One year warranty
- Configurable temperature ranges plus fine ZERO and SPAN adjustments



Ordering

405000 ...Universal 2-Wire Transmitter (RTD)
 32 to 212°F (0 to 100°C)\$79
 40500J ...Universal 2-Wire Transmitter (Type J)
 32 to 750°F (0 to 400°C)\$79
 40500K ...Universal 2-Wire Transmitter (Type K)
 32 to 1470°F (0 to 800°C)\$79
 40500X ...J, K, or RTD Custom Range\$109