

### **Series** 16C

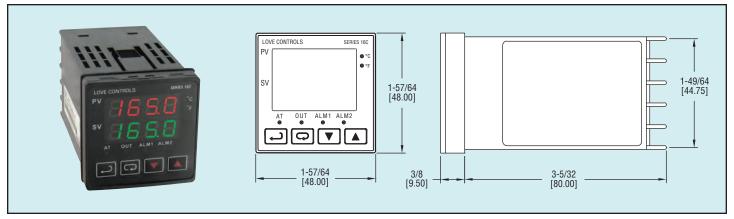
# 1/16 DIN Temperature Controller

## PID Control, Auto-Tuning, Dual Display, RS-485 Communication









The compact Series 16C Temperature Controller offers accurate temperature measurement and control in a 1/16 DIN package. Designed for direct or reverse acting (cooling or heating) control, the Series 16C can be programmed for simple ON/OFF or more complex PID control functions. PID control is supported with manual or auto-tuning. Select relay, voltage or current output for control methods.

The Series 16C accepts a variety of thermocouple and RTD inputs. Process value and setpoint value are displayed simultaneously on the large dual LED. Auto-tuning, engineering units (°F or °C), and alarm status is also indicated on the faceplate. Two alarm outputs are included on the unit with 12 preprogrammed alarm functions.

Input Types	Range
Pt100Ω RTD	32 to 212°F (0 to 100°C)
	-4 to 932°F (-20 to 500°C)
	-328 to 1112°F (-200 to 600°C)
T/C type B	212 to 3272°F (100 to 1800°C)
T/C type S	32 to 3092°F (0 to 1700°C)
T/C type R	32 to 3092°F (0 to 1700°C)
T/C type N	-328 to 2372°F (-200 to 1300°C)
T/C type E	32 to 1112°F (0 to 600°C)
T/C type T	-4 to 752°F (-20 to 400°C)
	-328 to 752°F (-200 to 400°C)
T/C type J	-4 to 752°F (-20 to 400°C)
	-148 to 1562°F (-100 to 850°C)
T/C type K	-328 to 2372°F (-200 to 1300°C)
	-328 to 932°F (-200 to 500°C)
T/C type L	-328 to 932°F (-200 to 500°C)
T/C type U	-328 to 1472°F (-200 to 800°C)

#### **SPECIFICATIONS**

Inputs: Thermocouple, RTD, see chart.

Display: Two 4-digit, 7 segment .25" H (6.35 mm) LED's. PV: red; SV:

Accuracy: ±0.25% span, ±1 least significant digit. Supply Voltage: 100 to 240 VAC, 50/60 Hz.

Power Consumption: 5 VA max.

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

Memory Backup: Nonvolatile memory.

**Control Output Ratings:** 

Relay: SPST, 5A @ 250 VAC resistive;

Voltage pulse: 14V, 10% to -20% (max 40 mA);

Current: 4 to 20 mA.

Communication: RS-485 Modbus® communication protocol.

Weight: 4 oz (114 g).

Agency Approvals: CE, RoHS, cUL, UL. Front Panel Rating: NEMA 4X (IP66).

Model	Output
16C-2	Voltage Pulse
16C-3	Relay
16C-5	Current

### **ACCESSORIES**

SCD-SW, Configuration Software MN-1, Mini-Node™ USB/RS-485 converter A-600, R/C snubber

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