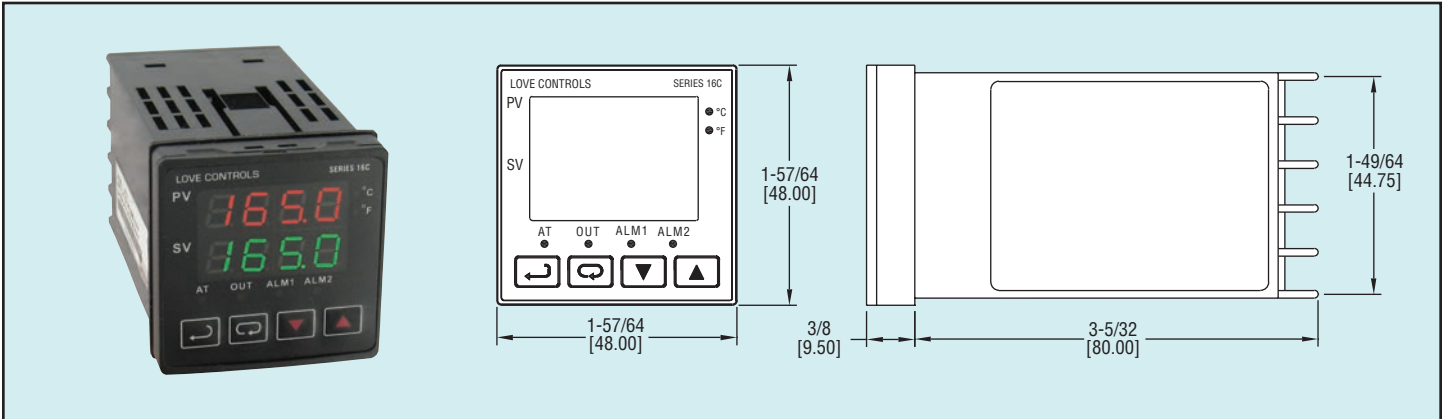




Series
16C

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.

| 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

SPECIFICATIONS

- Inputs:** Thermocouple, RTD, see chart.
- Display:** Two 4-digit, 7 segment .25" H (6.35 mm) LED's. PV: red; SV: green.
- 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).

| 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) |

TEMPERATURE
Temperature/Process
Controllers

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