

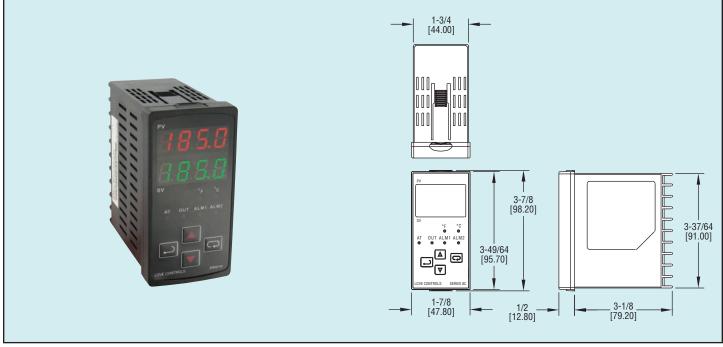
## 1/8 DIN Temperature Controller

## ON/OFF or PID Control, Auto-Tuning, RS-485 Communication









The Series 8C Temperature Controller offers easy-to-use programming menus designed for quick installation. The unit is designed for direct or reverse acting (cooling or heating) control. The Series 8C 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 pulse, or current output control methods. The controller also includes two additional alarm outputs. The alarm outputs can be configured from 12 different

The temperature controller accepts a variety of thermocouple and RTD inputs. The process value and setpoint value are displayed simultaneously on the large dual LED. Autotuning, engineering units (°F or °C) and alarm status is also indicated on the faceplate.

Model	Output
8C-2	Voltage Pulse
8C-3	Relay
8C-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 .38" H (9.53 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: SPDT, 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: 15 oz (425 g).

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

Inner Toward	Danie
Input Types	
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)