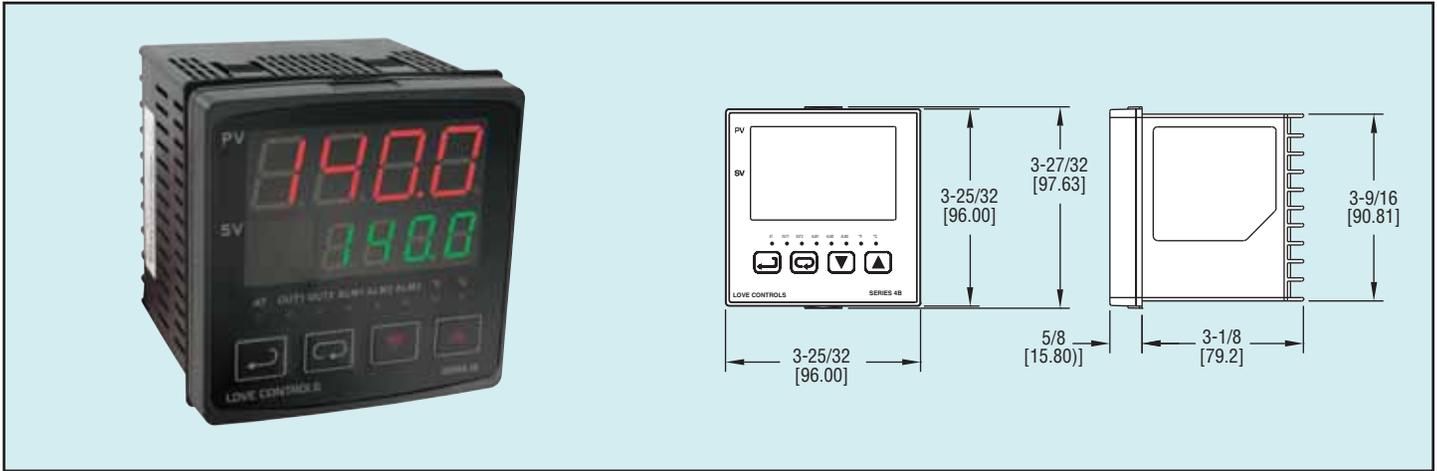




Series 4B

1/4 DIN Temperature/Process Controller

Dual Control Output, RS-485 Communication, Auto-Tuning



The Series 4B 1/4 DIN Temperature/Process Controller is designed to accept thermocouple, RTD, current or voltage input and provide dual outputs for control. Available outputs include relay/relay, voltage pulse/relay, current/relay, or linear voltage/relay. The units can be programmed for ON/OFF, PID, auto-tuning, or manual tuning control methods. The PID control is supported by 64 ramp/soak actions. The Series 4B also includes two additional alarm outputs. The second relay output can be reconfigured as a third alarm output. The alarm type can be selected from 13 different preprogrammed alarm functions. The controller features dual LED displays for local indication of process and setpoint values.

SPECIFICATIONS

- Inputs:** Thermocouple, RTD, DC voltages or DC current.
- Display:** Two 4-digit, 7 segment. PV: 3/4" H (19 mm) red; SV: 1/2" H (12.7 mm) 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;
 - Linear voltage: 0-10V.
- Communication:** RS-485 Modbus® A-5-11/RTU communication protocol.
- Weight:** 15 oz (425 g).
- Agency Approvals:** CE, UL, cUL.
- Front Panel Rating:** NEMA 4X (IP66).

Input Types	Range
Type K T/C	-328 to 2372°F (-200 to 1300°C)
Type J T/C	-148 to 2192°F (-100 to 1200°C)
Type T T/C	-328 to 752°F (-200 to 400°C)
Type E T/C	32 to 1112°F (0 to 600°C)
Type W T/C	-328 to 2372°F (-200 to 1300°C)
Type R T/C	32 to 3092°F (0 to 1700°C)
Type S T/C	32 to 3092°F (0 to 1700°C)
Type B T/C	212 to 3272°F (100 to 1800°C)
Type L T/C	-328 to 1562°F (-200 to 850°C)
Type U T/C	-328 to 932°F (-200 to 500°C)
Pt 100 RTD	-328 to 1112°F (-200 to 600°C)
0-50 mV	-999 to 9999
0-5 V	-999 to 9999
0-10 V	-999 to 9999
0-20 mA*	-999 to 9999
4-20 mA*	-999 to 9999

*Requires 250 Ohm Precision Resistor.

Model	Output 1	Output 2
4B-23	Voltage Pulse	Relay
4B-33	Relay	Relay
4B-53	Current	Relay
4B-63	Linear Voltage	Relay

ACCESSORIES

- SCD-SW, Configuration Software
- A-277, 250 Ohm Precision Resistor
- MN-1, Mini-Node™ USB/RS-485 converter
- A-600, R/C snubber

TEMPERATURE Temperature/Process Controllers