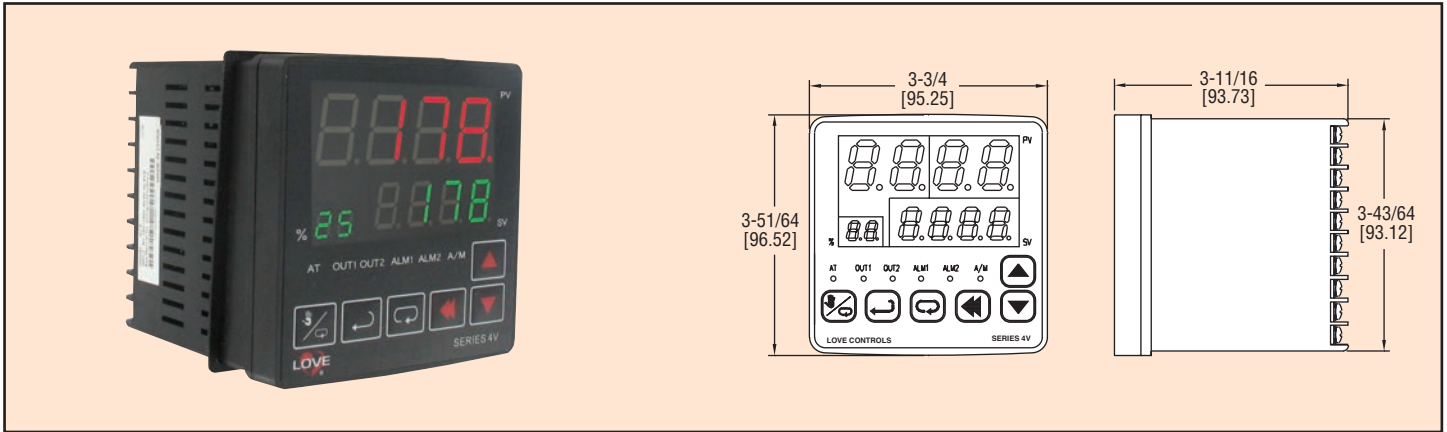




Model
4V-3

1/4 DIN Valve Controller

Valve Position Feedback, RS-485 Communications



The Series 4V 1/4 DIN Valve Controller displays and controls the current position of a valve or damper by accepting in a signal from a position indicator such as our QV series. The controls can be programmed for ON/OFF, PID, ramp and soak, auto-tuning or manual tuning control methods. For greater design flexibility, the Series 4V accepts thermocouple, RTD, current or voltage inputs. An auto/manual key is located on the front panel in order to toggle between manual operation and automatic operation. The RS-485 serial communications can work with either ASCII or Modbus® RTU protocol. During normal operation, the controller will display the present value (PV), set point value (SV) and the current valve position (%). The Series 4V is equipped with two programmable alarm set points.

Model 4V-3, Valve Controller

ACCESSORIES

- A-277, 250 Ω precision resistor
- MN-1, Mini-Node™ USB/RS-485 converter

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 Ω Precision Resistor.

SPECIFICATIONS

- Inputs:** Thermocouple, RTD, DC Voltages or DC Current.
- Display:** 2 line, 7 segment LED, 4 bits and 2 bits of valve openness display.
- Accuracy:** ±0.25%, ± 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:** Non-volatile memory.
- Control Output Ratings:** SPST, 5A @ 250 VAC resistive.
- Communications:** RS-485 Modbus® A-5-11/RTU Communication Protocol.
- Weight:** 15 oz (425 g).
- Front Panel Rating:** NEMA 4X (IP66).
- Agency Approvals:** CE, RoHS, cUL, UL.

VALVES

Valve Controllers,
Digital