The Series 8B 1/8 DIN Temperature/Process Controller offers versatility and reliability for temperature and process monitoring applications. Designed as a vertical mount 1/8 DIN controller, the Series 8B features dual outputs, universal input, and up to three additional alarm outputs. The second output can be configured as a third alarm output. Select the alarm type from 13 different preprogrammed alarm functions. Control methods include ON/OFF, PID, auto-tune or manual tune. PID control is supported with 64 ramp/soak control actions. RS-485 communication is standard on the Series 8B with up to 247 available addresses.

**SPECIFICATIONS**

**Inputs:** Thermocouple, RTD, DC voltages or DC current.

**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 or 24 VDC (depending on model).

**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;
- Linear voltage: 0-10V.

**Communication:** RS-485 Modbus® communication protocol.

**Weight:** 15 oz (425 g).

**Agency Approvals:** CE, UL, cUL.

**Front Panel Rating:** IP56.

### 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)

*Requires 250 Ohm Precision Resistor.

**Model | Output 1 | Output 2**
--- | --- | ---
8B-23 | Voltage Pulse | Relay
8B-33 | Relay | Relay
8B-53 | Current | Relay
8B-63 | Linear Voltage | Relay

Add -LV to end of model number for 24 VDC supply power.

**ACCESSORIES**

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

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