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 to 10V.

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

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

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

**Front Panel Rating:**
- IP56.

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**Input Types**

<table>
<thead>
<tr>
<th>Type</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type K T/C</td>
<td>-328 to 2372°F (-200 to 1300°C)</td>
</tr>
<tr>
<td>Type J T/C</td>
<td>-148 to 2102°F (-100 to 1200°C)</td>
</tr>
<tr>
<td>Type T T/C</td>
<td>-328 to 752°F (-200 to 400°C)</td>
</tr>
<tr>
<td>Type E T/C</td>
<td>32 to 1112°F (0 to 600°C)</td>
</tr>
<tr>
<td>Type W T/C</td>
<td>-328 to 2372°F (-200 to 1300°C)</td>
</tr>
<tr>
<td>Type R T/C</td>
<td>32 to 3092°F (0 to 1700°C)</td>
</tr>
<tr>
<td>Type S T/C</td>
<td>32 to 3092°F (0 to 1700°C)</td>
</tr>
<tr>
<td>Type B T/C</td>
<td>212 to 3272°F (100 to 1800°C)</td>
</tr>
<tr>
<td>Type L T/C</td>
<td>32 to 1562°F (0 to 850°C)</td>
</tr>
<tr>
<td>Type U T/C</td>
<td>-328 to 932°F (-200 to 500°C)</td>
</tr>
<tr>
<td>Pt 100 RTD</td>
<td>-328 to 1112°F (-200 to 600°C)</td>
</tr>
<tr>
<td>0 to 50 mV</td>
<td>-999 to 9999</td>
</tr>
<tr>
<td>0 to 10 V</td>
<td>-999 to 9999</td>
</tr>
<tr>
<td>0 to 20 mA*</td>
<td>-999 to 9999</td>
</tr>
<tr>
<td>4 to 20 mA*</td>
<td>-999 to 9999</td>
</tr>
</tbody>
</table>

*Requires 250 Ohm Precision Resistor.

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**Model** | **Output 1** | **Output 2** | **Price**
---|---|---|---
8B-23 | Voltage Pulse | Relay | $109.00
8B-33 | Relay | | $109.00
8B-53 | Current | Relay | $109.00
8B-63 | Linear Voltage | Relay | $109.00

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

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**ACCESSORIES**

- SCD-SW, Configuration Software | $35.00
- A-277, 250 Ohm Precision Resistor | $7.00
- MN-1, Mini-Node™ USB/RS-485 converter | $77.50
- A-600, R/C snubber | $17.75

(® Items are net priced and are not subject to any discount.

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