**DIN Rail Mount Temperature/Process Control**
Universal Input, Two-Color Dual Display

The Series SCZ10 has its own dual display and keypad, making process monitoring and programming a snap. The universal input allows field programming for a wide variety of sensors, making the SCZ10 one of the most flexible controllers or transmitters available today.

**FEATURES**
- Dual display
- Control or transmitter
- Self-Tune and PID
- Directly programmable from self contained keypad
- Universal input
- Compact DIN rail mount

**SPECIFICATIONS**
- **Input:**
  - Thermocouple: K, J, R, S, E, T, N, PL-II, C (W/Re5-26);
  - External resistance: 100Ω or less;
  - B thermocouple: External resistance: 40Ω or less;
  - RTD: Pt100, JPt100 3-wire system. Allowable input wire resistance (10Ω or less per wire);
  - DC current: 0 to 20 mADC, 4 to 20 mA input impedance 50Ω (50Ω shunt resistor sold separately);
  - DC voltage: 0 to 1 VDC;
  - Input impedance: 1MΩ or greater.
- **Output Ratings:**
  - Relay contact: 3A @ 250 VAC, Resistive; 1A @ 250 VAC Inductive (CØS =0.4), electric life 100,000 cycles.
  - Switched voltage (for SSR drive): 12 VDC @ 40 mA max. (short-circuit protected)
  - DC current: 4 to 20 mADC, Load resistance: Max. 550Ω output accuracy: ±0.3% of output span. Resolution: 12,000 counts.
- **Control Type:** P, PI, PD, PID, Self Tune, on-off, process retransmission.
- **Proportional Band:** 0.0 to 110.0% (ON/OFF when set to 0.0).
- **Integral Time:** 0 to 1000 seconds (Off when set to 0).
- **Derivative Time:** 0 to 300 seconds (Off when set to 0).
- **Proportional Cycle:** 1 to 120 seconds.
- **Manual Reset:** Proportional band converted value.
- **Output Limit:** 0 to 100% (DC current output type: -5 to 105%).
- **Hysteresis:** Thermocouple and RTD input: 0.1 to 100.0 degrees DC voltage and current input: 1 to 1000 (decimal point place follows the selection).
- **Power Requirements:** 120-240 VAC, 50-60 Hz, 24 VAC 50-60 Hz optional.
- **Input Sampling Period:** 0.25 seconds, 4Hz.
- **PV Display:** Red LED 4-digit character size: 7.5 x 4.1 mm (H x W).
- **SV Display:** Green LED 4-digit character size 7.5 x 4.1 mm (H x W).
- **Display Resolution:** 1 count, 1 degree, or 0.1 degree, depending on selected range.
- **Memory Backup:** Nonvolatile memory, no battery used.
- **Ambient Temperature:** 32 to 131°F (0 to 50°C).
- **Ambient Humidity:** 35 to 85%RH (non-condensing).
- **Weight:** Approx. 5.3 oz (150 g).
- **Agency Approvals:** CE, UL, cUL.
- **Front Panel Rating:** NEMA 4X (IP66).

**Input Type**

<table>
<thead>
<tr>
<th>Model</th>
<th>Supply Voltage</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCZ10-1000-00</td>
<td>120 to 240 VAC</td>
<td>Relay</td>
</tr>
<tr>
<td>SCZ10-2000-00</td>
<td>120 to 240 VAC</td>
<td>Switched Voltage</td>
</tr>
<tr>
<td>SCZ10-3000-00</td>
<td>24 VAC/DC</td>
<td>Current</td>
</tr>
</tbody>
</table>

**Input/Output Specifications**

<table>
<thead>
<tr>
<th>Input Type</th>
<th>Range °F</th>
<th>Range °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type J Thermocouple</td>
<td>-320 to 1800</td>
<td>-200 to 1000</td>
</tr>
<tr>
<td>Type K Thermocouple</td>
<td>-320 to 2500</td>
<td>-200 to 1370</td>
</tr>
<tr>
<td>Type T Thermocouple</td>
<td>-320 to 7500</td>
<td>-200 to 400</td>
</tr>
<tr>
<td>Type E Thermocouple</td>
<td>-320 to 1500</td>
<td>-200 to 800</td>
</tr>
<tr>
<td>Type R Thermocouple</td>
<td>0 to 3200</td>
<td>-17 to 1760</td>
</tr>
<tr>
<td>Type S Thermocouple</td>
<td>0 to 3200</td>
<td>-17 to 1760</td>
</tr>
<tr>
<td>Type B Thermocouple</td>
<td>0 to 3300</td>
<td>0 to 1820</td>
</tr>
<tr>
<td>Type C Thermocouple</td>
<td>0 to 4200</td>
<td>0 to 2315</td>
</tr>
<tr>
<td>Type PL-II Thermocouple</td>
<td>0 to 2500</td>
<td>0 to 1390</td>
</tr>
<tr>
<td>Type N Thermocouple</td>
<td>-320 to 1500</td>
<td>-200 to 800</td>
</tr>
<tr>
<td>100Ω Plt. 0.003935 DIN RTD</td>
<td>-300 to 900</td>
<td>-150 to 500</td>
</tr>
</tbody>
</table>

**ACCESSORY**

A-600, R/C snubber

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1. These input ranges can be set for 0.1° display. Range may be limited to no greater than 999.9° or less than -199.9°.
2. The 0 to 20 mADC, 4 to 20 mA DC, 0 to 5 VDC, 1 to 5 VDC, and 0 to 10 VDC inputs are fully scalable from a minimum of 100 counts placed anywhere within the range of -1999 to +9999. Decimal point position is adjustable from the zero place (9999), tenths (999.9) place, or hundredths (99.99) place.