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 controls or transmitters available today. When used as a control, the SCZ10 is available with mechanical relay, switched (pulsed) DC for SSRs, or proportional current (4 to 20 mA) to drive motor actuators or proportional power units (SCRs). When used as a transmitter, the 4 to 20 mA output may be scaled virtually anywhere on the input scale, allowing for the greatest application flexibility.

**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 mA, 4 to 20 mA input impedance 50Ω (50Ω shunt resistor sold separately);
- DC voltage: 0 to 1 VDC;
- Output impedance: 1MΩ or greater.

**Output Ratings:**
- Relay contact: 3A @ 250 VAC, Resistive; 1A @ 250 VAC Inductive (C0S =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 mA DC, 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).
- 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 to 240 VAC, 50 to 60 Hz, 24 VAC 50 to 60 Hz optional.

**Power Consumption:** Approximately 6VA.

**Accuracy:** Thermocouple input: ±0.2% of input span, ±1 digit or 4°F (2°C), whichever is greater. R, S input: 0 to 400°F (0 to 200°C): ±5°C (12°F). B input: 0 to 600°F (0 to 300°C): Accuracy is not guaranteed.

**K, J, E, N input less than 32°F (0°C): ±0.4% of input span ±1 digit. RTD input: ±0.1% of input span ±1 digit or ±2°F (1°C), whichever is greater. DC voltage input: ±0.2% of input span ±1 digit. DC current input: ±0.2% of input span ±1 digit.**

**Input Sampling Period:** 0.25 seconds, 4 Hz.

**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. 5.5 oz (150 g).

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

**Front Panel Rating:** NEMA 4X (IP66).