The Series SCC Signal Conditioners provide maximum accuracy with minimal cost. Built-in microprocessor digitally scales, amplifies, linearizes and isolates thermocouple, RTD, current, voltage, frequency or potentiometer analog input signals. Units offer 16-bit input resolution with ±0.05% full scale accuracy. Eliminate ground loops with 1500VAC isolation. Two LEDs, one red and one green, located on the front face of the enclosure provide visual indication of operation. Additional features include short circuit, reverse power protection, digital calibration and cold junction compensation.

Installation is a snap with the DIN rail mountable enclosure. Units are factory set to support a specific analog input and output, however, can be easily reconfigured to suit your application with the user-friendly Windows® Configuration software and cable (sold separately).

Also available is the SCC-4W DIN Rail Mount power supply and SCC-L1 Loop Isolator. Model SCC-4W is designed specifically to provide 24 VDC power for the SCC modules. Model SCC-L1 accepts a 4 to 20 mA signal and provides an isolated 4 to 20 mA signal output.

ACCESSORIES
SCC-L1, Loop Isolator 4 to 20 mA input and output
SCC-4W, Power Supply 85 - 265 VAC @ 50/60 Hz
SCC-CC-A1, Windows® Software and Cable

* Units can be reconfigured from their factory (default) settings with the SCC-CC-A1 Windows® Software (sold separately).

### SPECIFICATIONS
- **Isolation**: 1500 VAC, 3-way: C, V, TC; 2-way: RTD, POT, FRQ, LI.
- **Input Protection**: 220 VAC continuous.
- **Input Impedance**: 1GΩ (mV/TC); >55KΩ (voltage); 82Ω (current).
- **Excitation**: 150µA (RTD), 1.25V (POT).
- **Output Impedance**: >10MΩ (current); ~0Ω (voltage).
- **Output Load**: ≤ 600Ω (current); ≥4KΩ (±10 Volts); ≥2KΩ (±5 volts).
- **Power Requirements**: 15-32 VDC @ 25-45 mA.
- **Over Voltage**: 240 Vrms continuous.
- **Accuracy**: 0.05% full scale (includes linearity, repeatability and calibration errors).
- **Cold Junction Compensation**: ±0.2˚C (-15 to 55 ˚C) for all T/C.
- **Resolution**: 16-bit (input); 13-bit (output).
- **Ambient Operating Temperature**: Operating: -40 to 167˚F (-40 to 75˚C).
- **Storage Temperature**: -49 to 185˚F (-45 to 85˚C); 0-95% RH, non-condensing.
- **Mounting**: DIN rail (32 mm-G and 35 mm-H).
- **Connections**: Socketed screw terminals for 14-22 AWG.
- **Response Time**: 150 ms @ 60 Hz, typical.
- **Housing Material**: Polyamide.
- **Weight**: 1.4 oz (40 g).
- **Agency Approvals**: CE, CSA, FM, cUL, UL.

### ACCESSORIES
- SCC-L1, Loop Isolator 4 to 20 mA input and output
- SCC-4W, Power Supply 85 - 265 VAC @ 50/60 Hz
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### Model | Input Types and Ranges | Default Input Range | Output Types and Ranges | Default Output Range
--- | --- | --- | --- | ---
SCC-C/C | 0 to 10 mA, 0 to 20 mA | 4-20 mA | 0 to 20 mA or 4 to 20 mA | 4-20 mA
SCC-C/V | 4 to 20 mA, ±10 mA, ±20 mA | 0 to 5V, 1 to 5V, 25V, ±15V | 0 to 10V | 0 to 10V
SCC-V/V | 0 to 5V, 1 to 5V, 25V, ±15V, 0 to 1.5 V, 0 to 1.25V, ±1.25V, ±300mV, 0 to 300 mV, ±10mV, 0 to 10 mV, 0 to 50 mV, and ±50mV | 0-10V | 0 to 20 mA or 4 to 20 mA | 4 to 20 mA
SCC-TC/C | -148 to 1832˚F, -32 to 32°F (Type E T/C), 32 to 400˚F, -328 to 32°F (Type J T/C), -328 to 32°F, 32 to 2372°F (Type N T/C), 32 to 2498°F, -328 to 32°F (Type K T/C), -256 to 752°F, 32 to 752°F (Type T T/C) | Type J, -32 to 1400°F | 0 to 20 mA or 4 to 20 mA | 4 to 20 mA
SCC-TC/V | -148 to 1832˚F, -32 to 32°F (Type E T/C), 32 to 400˚F, -328 to 32°F (Type J T/C), -328 to 32°F, 32 to 2372°F (Type N T/C), 32 to 2498°F, -328 to 32°F (Type K T/C), -256 to 752°F, 32 to 752°F (Type T T/C) | Type J, -32 to 1400°F | 0 to 20 mA or 4 to 20 mA | 4 to 20 mA
SCC-RD/C | -4 to 1562°F (Pt100Ω), 0 to 1500°F (Ni120Ω), 0 to 1000°F (Cu10Ω) | Pt100, -328 to 1562°F | 4-20 mA or 4 to 20 mA | 4-20 mA
SCC-RD/V | 0 to 1000Ω, 0 to 50Ω | 0 to 10V | 0 to 20 mA or 4 to 20 mA | 4-20 mA
SCC-POT/C | 0 to 500Ω (min.) or 0 to 1000Ω (max.) | 0 to 10KΩ | 0 to 20 mA or 4 to 20 mA | 4-20 mA
SCC-POT/V | 0 to 500Ω, 0 to 1000Ω | 0 to 10V | 0 to 20 mA or 4 to 20 mA | 4-20 mA
SCC-FT/C | 0 to 100 KHz (4 VDC) | 0-10KHz (24 VDC) | 0 to 10V | 4 to 20 mA
SCC-FT/V | 0 to 100 KHz (24 VDC) | 0-10KHz (24 VDC) | 0 to 10V | 4 to 20 mA

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