Linearized and isolated RTD and Thermocouple transmitters are part of the Series SC4000 Iso Verter® II Signal Conditioning Modules. These modules completely isolate the input from the output and from ground. Compatible with industry standard 35 mm DIN Rail mount transmitters and isolators, these modules are easily applied in new or existing installations.

The SC4380 Process Signal Converter/Isolator accepts virtually all standard process signals as an input, and isolates and retransmits the signal in either the same units or virtually any other standard process signal. The SC4380 can be field programmed for reverse or direct action and can receive and transmit single sided or bipolar* signals. Low Voltage units (SCL) are also available.

The SC4151 RTD Transmitters each offer a fixed scale range input (selected when ordered) and a linearized, isolated, field selectable 4 to 20 mA or 0 to 10 VDC output. Output is selected by simple switch settings. Low Voltage units (SCL) are also available.

The SC4130 Thermocouple Transmitter offers a fixed scale range input (selected when ordered) and a linearized, isolated, field selectable 4 to 20 mA or 0 to 10 VDC output. Output is selected by simple switch settings. Low Voltage units (SCL) are also available.

Note: The term “bipolar” refers to an input or output that crosses zero volts. Certain devices have ranges that run from minus to plus voltages (eg. -1 to +5 VDC, -10 to +10 VDC, etc.). The SC4380 Iso Verter® II can be set up to accept a bipolar signal input or provide a bipolar output.

<table>
<thead>
<tr>
<th>Model</th>
<th>Range Codes</th>
<th>Inputs</th>
<th>Outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC4130</td>
<td>A = J, -100 to 200°C</td>
<td>0 to 5 mA</td>
<td>0 to 5 mA</td>
</tr>
<tr>
<td></td>
<td>B = DIN, 0 to 100°C</td>
<td>0 to 10 mA</td>
<td>0 to 10 mA</td>
</tr>
<tr>
<td></td>
<td>C = DIN, 0 to 150°C</td>
<td>0 to 20 mA</td>
<td>0 to 20 mA</td>
</tr>
<tr>
<td></td>
<td>D = DIN, 0 to 200°C</td>
<td>0 to 50 mA</td>
<td>0 to 50 mA</td>
</tr>
<tr>
<td></td>
<td>E = DIN, 0 to 250°C</td>
<td>0 to 100 mA</td>
<td>0 to 100 mA</td>
</tr>
<tr>
<td></td>
<td>F = DIN, 0 to 500°F</td>
<td>0 to 5 V</td>
<td>0 to 5 V</td>
</tr>
<tr>
<td></td>
<td>G = DIN, 0 to 1000°F</td>
<td>1 to 5 mA</td>
<td>1 to 5 mA</td>
</tr>
<tr>
<td></td>
<td>H = DIN, 0 to 100°F</td>
<td>4 to 20 mA</td>
<td>2 to 10 mA</td>
</tr>
<tr>
<td></td>
<td>J = DIN, 0 to 200°F</td>
<td>10 to 50 mA</td>
<td>0 to 100 mA</td>
</tr>
</tbody>
</table>

SPECIFICATIONS
Isolation: 1500 VAC RMS.
Linearity: 0.1% of full-scale.
Drift: ±0.02%/°C typical, ±0.05%/°C maximum.
Power Supply: SC: 85 to 265 VDC/VAC 50 to 400 Hz; SCL: 12 to 24 VDC/VAC 50 to 400 Hz.
Output Loads:
- Current: 600 Ω max voltage: 500 Ω min (20 mA maximum).
Input Characteristics:
- SC4380: Voltage: 1 M Ω impedance; Current: 10 Ω;
- SC4151: Search current < 500 µA;
- SC4130: 3 M Ω impedance.
Case Size: 0.866˝ W (22.5 mm) x 2.950˝ H (75.0 mm) 3.880˝ D (98.5 mm).
Mounting: Mounts on industry standard 35 mm DIN Rail (DIN EN50022-35).

To Order Use Range Code as Suffix:
SC4130 & SCL4130
SC4151 & SCL4151
SC4380 & SCL4380

Input Characteristics | Voltage | Current
--- | --- | ---
0 to 5 mA | 0 to 100 mV | 0 to 1 mA
0 to 10 mA | 0 to 200 mV | 0 to 5 mA
0 to 20 mA | 0 to 500 mV | 0 to 20 mA
0 to 50 mA | 0 to 1 V | 1 to 5 mA
0 to 100 mA | 0 to 5 V | 4 to 20 mA
1 to 5 mA | 1 to 5 V | 2 to 10 V
4 to 20 mA | 1 to 20 V | 0 to 100 mA
10 to 50 mA | 2 to 10 V | 0 to 100 mA

Accessories
A-360, Aluminum DIN Rail 1 m | $8.00