Premium Field Configurable Vibration & Temperature Signal Conditioners

Signal Conditioners identify transient faults and guard against catastrophic failure between routine monitoring cycles.

Now, personnel who are not “vibration experts” can easily recognize alarm conditions using the SC series standard process control signal to interface with standard PLC, DCS and SCADA systems. Next generation includes integration with proximity probe drivers for AC output to “4-20 mA and 0-5/0-10VDC” output signals. Additionally, vibration analysts can access the dynamic signal for detailed analysis with industry standard data collectors and online monitoring systems.

### Electrical

- **Input power:** 24 to 32 VDC unregulated / 225 mA maximum
- **Power from conditioner to sensor:**
  - 24 VDC, 4 mA DC sensor excitation, selectable On/Off (as needed)
- **Maximum load resistance of 600 ohms.**
- **Isolation:** 1000 VDC

### Specifications

- **4-20 mA output signal for vibration and temperature (0-1.2 V input)**
- **Additional 0-5 or 0-10 VDC output signal for vibration signal input**
- **Buffered output via BNC and screw terminals**
- **Humidity range of 0-95% relative, non-condensing**
- **Screw terminal connectors, detachable**
- **35 mm DIN rail mountable**
- **Ambient temperature range:** -40º F (-40º C) to 185º F (85º C)

### Product Features

- Microprocessor based system provides the industry’s most accurate filtering. Digital filters from 5 Hz to 15 kHz provide precise overall amplitudes. Analog four pole filters at 2 Hz and 20 kHz add flexibility to monitoring options.
- **DIP switches allow easy “field configuration” for input signal, scale values and filtering options.**
- **Accepts a variety of signal inputs; acceleration, velocity, temperature and displacement. (see below)**
- Provides scaled outputs in English and metric. (see below)
- **Configures for integration and differentiation conversions. (see below)**
- Can be used to monitor temperature and vibration using TA102 and TA104 series sensors.
- **LED indicator for power, sensor disconnection and DIP switch setting errors.**
- **Able to turn off power supplied to sensor**

### SC Series Selection Guide

**Example:** SC203 - 100 A - 002 I R - 010 - 01 K - 05

(standard ISO configuration, power on)

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Input Source</th>
<th>Full Scale Range Value</th>
<th>Full Scale Units</th>
<th>High Pass Filter</th>
<th>Low Pass Filter</th>
<th>Voltage Output</th>
<th>Power Supplies</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 = ISO (Standard)</td>
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<td>7 = Factory configured per part number</td>
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<tr>
<td>&quot;All SC200 series systems are user configurable after initial set up&quot;</td>
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<table>
<thead>
<tr>
<th>Examples:</th>
<th>SC207 - 100 A - 001 MR - 005 - 050 - 10</th>
<th>(power on)</th>
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<tbody>
<tr>
<td></td>
<td>SC207 - 100 A - 001 MR - 005 - 050 - 10 - N</td>
<td>(power off)</td>
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