

SC200 Series

Premium, Field Configurable Vibration & Temperature Signal Conditioners

Easily removable plugs with key alignment, avoids miswiring



Product Features

Signal Conditioners Identify Transient Faults and Guard Against Failure Between Monitoring Cycles.

Now vibration data can be monitored by control room personnel, without any knowledge of vibration signals. The SC200 Series units provide process control signals to a PLC, DCS, or SCADA system, in 4-20 mA outputs, along with a selectable 0-5 VDC or 0-10 VDC signals, that are proportional to the vibration levels set within the signal conditioner.

The SC200 Series also provides dynamic data to be collected for analysis with conventional Vibration Data Acquisition systems.

- Internal DIP switches allow easy "field configuration 2nd set" for input signal, scale values, filtering options and outputs
- Accepts a variety of signal inputs; acceleration, velocity, temperature and displacement (see below)
- Sensor Power On/Off option allows dual banding, ranges, units, filters and outputs with multiple signal conditioners to be configured for dual banding

Specifications

4-20 mA output signal for vibration and temperature (0-1.2 VDC input)

Each 4-20 mA output requires isolated common (not shared)

Additional 0-5 or 0-10 VDC output signal for vibration signal input

Buffered output via BNC jack and screw terminals

Humidity range of 0-95% relative, non-condensing

+3dB Filter Range

Screw terminal connectors, detachable

35 mm DIN rail mountable

Operating temperature range: -40°F (-40°C) to 158° F (70°C)

Electrical

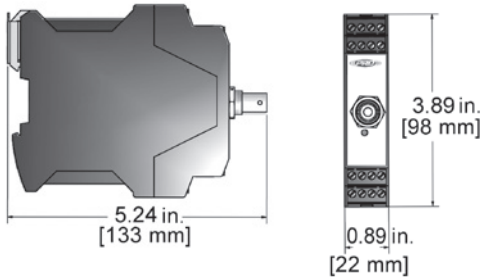
Input power: 24 to 32 VDC unregulated / 225 mA maximum

Power from conditioner to sensor:

24 VDC, 4 mA DC sensor excitation, selectable On/Off sensor power (as required)

Maximum load resistance of 600 ohms

Isolation: 1000 VDC



When Selecting 2 Hz or 5 Hz High Pass Filters, it is Recommended to use Piezo Velocity Sensors

Cooling is required if enclosure temperature exceeds 140°F (60°C).

Ordering Information*

SC20 3 - 1 0 0 A - 0 0 2 I R - 0 1 0 - 0 1 K - 0 5

The Part Number Listed Above is a: **STOCK PRODUCT (SC203-100A-002IR-010-01K-05)**

SC20 7 - [] - [] - [] - [] - [] - []

| Configuration | Input Source | Full Scale Range Value | Full Scale Units | High Pass Filter | Low Pass Filter | Voltage Output | Power Supplies |
|--|--|--|--|--|---|---|---|
| 7 = Factory configured per part number | 100A = 100 mV/g Accelerometer 050A = 50 mV/g Accelerometer 010A = 10 mV/g Accelerometer 500A = 500 mV/g Accelerometer 100V = 100 mV/IPS Velocity Sensor 500V = 500 mV/IPS Velocity Sensor 200D = 200 mV/mil Displacement Probe | 0X5 = 0 - 0.5 001 = 0 - 1 002 = 0 - 2 005 = 0 - 5 010 = 0 - 10 020 = 0 - 20 050 = 0 - 50 100 = 0 - 100 200 = 0 - 200 | I = IPS M = mm/s G = g's D = mils P = Peak R = RMS T = Peak - Peak | 002 = 2 Hz 005 = 5 Hz 010 = 10 Hz 020 = 20 Hz 050 = 50 Hz 100 = 100 Hz 200 = 200 Hz 500 = 500 Hz 01K = 1000 Hz | 050 = 50 Hz 070 = 70 Hz 100 = 100 Hz 200 = 200 Hz 500 = 500 Hz 01K = 1000 Hz 02K = 2000 Hz 05K = 5000 Hz 10K = 10000 Hz 15K = 15000 Hz 20K = 20000 Hz | 05 = 0-5 V 10 = 0-10 V <small>(in addition to standard 4-20 mA)</small> | N = No (not powered) Note: If left blank, the unit provides power to sensor. |

All Configurations Above are: **Built To Order**

Example Part Numbers: **SC207-100A-010MR-005-050-10** (power on)
SC207-100A-010MR-005-050-10-N (power off)

* Not All Configuration Options Are Compatible. Please Consult the Factory for Options, or Our Part Configurator at www.ctconline.com

SECTION 6 - PRO LINE
Signal Conditioners & Enclosures

Lifetime Warranty on Materials & Workmanship

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