SC200 Series

Premium, Field Configurable Vibration & Temperature Signal Conditioners

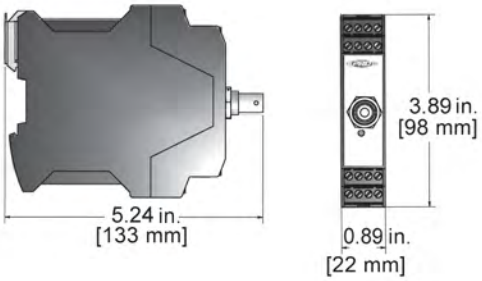
Product Features

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 switchable 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 and filtering options***
- ***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 V input)
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
Screw terminal connectors, detachable
35 mm DIN rail mountable
Ambient temperature range: -40° F (-40° C) to 185° F (85° 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 (as required)
Maximum load resistance of 600 ohms.
Isolation: 1000 VDC

Ordering Information*

Example: SC203 - 1 0 0 A - 0 0 2 I R - 0 1 0 - 0 1 K - 0 5 **(standard ISO configuration, power on)**

SC20 ☐ – ☐☐☐☐ – ☐☐☐ ☐ ☐ – ☐☐☐ – ☐☐☐ – ☐☐ ☐

Configuration	Input Source	Full Scale Range Value	Full Scale Units		High Pass Filter	Low Pass Filter		Voltage Output	Power Supplies
3 = ISO (Standard) (see example above) **7** = Factory configured per part number *All SC200 series systems are user configurable after initial set up	**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 (in addition to standard 4-20 mA)	N = No (not powered) **Note:** If left blank, the unit provides power to sensor

Examples: **SC207 - 1 0 0 A - 0 0 1 M R - 0 0 5 - 0 5 0 - 1 0** **(power on)**
SC207 - 1 0 0 A - 0 0 1 M R - 0 0 5 - 0 5 0 - 1 0 - N **(power off)**

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