

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

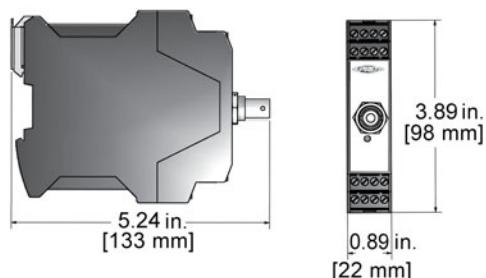
Input power: 24 to 32 VDC unregulated / 225 mA maximum

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 Part Number: **SC203-100A-002IR-010-01K-05** (standard ISO configuration, power on)

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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)	100A = 100 mV/g Accelerometer	0X5 = 0 - 0.5	I = IPS	P = Peak	002 = 2 Hz	050 = 50 Hz	01K = 1000 Hz	05 = 0-5 V	N = No (not powered)	
7 = Factory configured per part number	050A = 50 mV/g Accelerometer	001 = 0 - 1	M = mm/s	R = RMS	005 = 5 Hz	070 = 70 Hz	02K = 2000 Hz	10 = 0-10 V	(in addition to standard 4-20 mA)	Note: If left blank, the unit provides power to sensor
	010A = 10 mV/g Accelerometer	002 = 0 - 2	G = g's	T = Peak - Peak	010 = 10 Hz	100 = 100 Hz	05K = 5000 Hz			
*All SC200 series systems are user configurable after initial set up	500A = 500 mV/g Accelerometer	005 = 0 - 5	D = mils		020 = 20 Hz	200 = 200 Hz	10K = 10000 Hz			
	100V = 100 mV/IPS Velocity Sensor	010 = 0 - 10			050 = 50 Hz	500 = 500 Hz	15K = 15000 Hz			
	500V = 500 mV/IPS Velocity Sensor	020 = 0 - 20			100 = 100 Hz		20K = 20000 Hz			
	200D = 200 mV/mil Displacement Probe	050 = 0 - 50			200 = 200 Hz					
		100 = 0 - 100			500 = 500 Hz					
		200 = 0 - 200			01K = 1000 Hz					

Example Part Numbers: **SC207-100A-001MR-005-050-10** (power on)
SC207-100A-001MR-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

Lifetime Warranty on Materials & Workmanship

www.ctconline.com