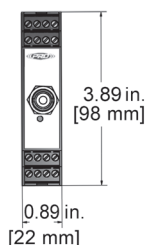
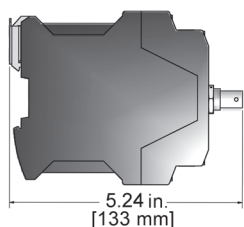


SC200 Series

Premium Field Configurable Vibration & Temperature Signal Conditioners

New Product



CE

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.

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)
- Configure 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

Sensor Power On/Off Option Allows Dual Banding with Multiple Signal Conditioners

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: -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 needed)

Maximum load resistance of 600 ohms.

Isolation: 1000 VDC

SC Series Selection Guide

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) | 100A = 100 mV/g Accelerometer | 0X5 = 0 - 0.5 | I = IPS | 002 = 2 Hz | 050 = 50 Hz | 01K = 1000 Hz | 05 = 0-5 V |
| 7 = Factory configured per part number | 050A = 50 mV/g Accelerometer | 001 = 0 - 1 | M = mm/s | 005 = 5 Hz | 070 = 70 Hz | 02K = 2000 Hz | 10 = 0-10 V |
| | 010A = 10 mV/g Accelerometer | 002 = 0 - 2 | G = g's | 010 = 10 Hz | 100 = 100 Hz | 05K = 5000 Hz | (in addition to standard 4-20 mA) |
| | 500A = 500 mV/g Accelerometer | 005 = 0 - 5 | T = Peak - Peak | 020 = 20 Hz | 200 = 200 Hz | 10K = 10000 Hz | |
| | 100V = 100 mV/IPS Velocity Sensor | 010 = 0 - 10 | D = mils | 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 | | | |

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)



Lifetime Warranty on Materials & Workmanship

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