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Find the *National Instruments SCC-AI03* at our website: *Click HERE*

NI SCC-ACC01 Accelerometer Input



Model	Channel	Description	Part Number
SCC-ACC01	1	Accelerometer input	777459-19

The National Instruments SCC-ACC01 is a single-channel module that accepts Integrated Electronic Piezoelectric (IEPE) compatible sensors such as accelerometers and microphones. The NI SCC-ACC01 has an amplifier with a gain of two, a 0.8 Hz highpass filter, and a 19 kHz 3-pole Bessel lowpass filter. The maximum input range is ±5 V. In addition, this module has a 4 mA current source to power an accelerometer or microphone.

When you install the SCC-ACC01 into the SC-2345, the carrier routes the single output voltage to one input channel of the multifunction DAQ device, channel x, where x is 0 through 7. For example, if installed into the J1 socket of the SC-2345, the output voltage is routed to input channel 0 of the DAQ device.

Specifications

SCC-ACC01

Analog Input

Number of input channels	1 differential
Input range	±5 VAC (fixed gain of 2)
Input coupling	AC
-3 dB cutoff frequency	0.8 Hz
Filter type	Lowpass 3-pole Bessel
-3 dB cutoff frequency	19 kHz
Passband flatness	±0.3 dB, 10 Hz to 5 kHz ±1 dB, 5 Hz to 10 kHz
Maximum working voltage (signal + common mode)	Each input should remain within ±12 V of ground
Overvoltage protection	±40 VAC + DC (powered on or off)
Input impedance	5 MΩ in series with 0.39 µF (powered on or off)
System noise	130 μV_{rms} (referred to input)

Transfer Characteristics

Gain	2
Gain error	±1%
Gain-error temperature coefficient	±10 ppm/°C
Offset error	±3 mV (referred to input)
Offset-error temperature coefficient	±1.6 µV/°C
Nonlinearity	10 ppm of full scale
Recommended warm-up time	5 minutes

Amplifier Characteristics

CMRR	80 dB at 60 Hz
Output range	±10 V

Excitation

Number of channels	1
Constant-current source	4 mA
Maximum voltage level without losing regulation	24 V
Drift	±127 ppm/°C

Environment

Operating temperature	0 to 50 °C
Relative humidity	5 to 90% noncondensing

Power Requirements

Analog	89 mW
Digital	420 mW

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