

10-Channel Analog Accelerometer Conditioner – Constant Current Excitation and Individually Programmable Channel Gains



Applications

- Flight test instrumentation
- Factory automation and process control
- Vibration monitoring
- Research measurements and experiments

Features

- 10 channels per unit
- Fixed 8-pole presample filtering on all channels
 - Channels 1 through 10: 8-pole, Butterworth response, low-pass filter. f_c (3dB) = 2,000 Hz
- Fixed constant current excitation
- Individually programmable gain on all channels
- AC input coupling
- $Z_{IN} > 1M\Omega$ (power on or off)
- $\pm 0.5\%$ system accuracy
- Powered from external +28 Volt DC supply
- Reverse polarity protected
- $\pm 35VDC$ overvoltage protection
- RS-232/RS-422 programming interface for system setup
- Windows software included

Description

The ASC-2010-2 is a stand-alone, 10-channel analog accelerometer conditioning unit for use with the external accelerometers described below or their equivalent. The accelerometer outputs provide the electrical signal inputs for the ASC-2010. The analog ASC-2010 output channels (one channel for each signal input) may be digitized and sampled by an external PCM encoder. The ASC-2010 is one integrated electronics package capable of providing for each channel the following: gain, power to the accelerometers, and preset anti-aliasing filtering. The ASC-2010 provides signal conditioning for ten (10) independent channels. Ten (10) of the channels (set A) provide signal conditioning for the outputs of Endevco 7251A accelerometers. The ASC-2010 has one 50-pin connector that interfaces with power input, all 10 accelerometers, and the digitizer/PCM Encoder. The ASC-2010 also has one 9-pin connector that provides an RS-232/RS-422 programming interface for system setup. The ASC-2010 is fabricated with high quality workmanship and materials typical of the aerospace industry.

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ASC-2010-2 Datasheet

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CAIS
Compatible



Management
System
AS9100C
ISO 9001:2008

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