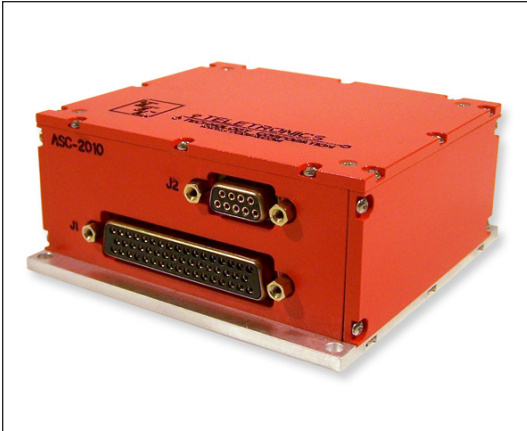


### 10-Channel Analog Accelerometer Conditioner – Constant Current Excitation and Individually Programmable Channel Gains



#### 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 6: 8-pole, Butterworth response, low-pass filter.  $f_c$  (3dB) = 2,000 Hz.
  - Channels 7 through 8: 8-pole, Bessel response, low-pass filter.  $f_c$  (3dB) = 2,000 Hz.
  - Channels 9 through 10: 8-pole, Bessel response, low-pass filter.  $f_c$  (3dB) = 4,000 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 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. Six (6) of the channels (set A) provide signal conditioning for the outputs of Endevco 7251A accelerometers. The remaining four (4) channels (Set B) provide conditioning for the outputs of Endevco 7255A 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 Datasheet

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CAIS  
Compatible



Management  
System  
AS9100C  
ISO 9001:2008

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