## Model 801X-AR/-AP Accelerometer





# 4-20mA Loop Power True RMS or Peak Output -40°C to +85°C Operating Range Top Exit Connector or Integral Cable

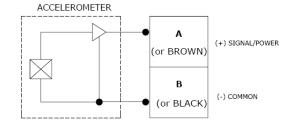
The Model 8011 & 8012 are internally shielded rugged 4-20mA accelerometers. The accelerometers are available in ranges from ±5g to ±50g, in either RMS or Peak acceleration output options. The model 8011 features a top exit MIL-C-5015 connector while the model 8012 features an integral cable. The units are hermetically sealed and and are designed for operating in temperature ranges from -40°C to +85°C.

#### **FEATURES**

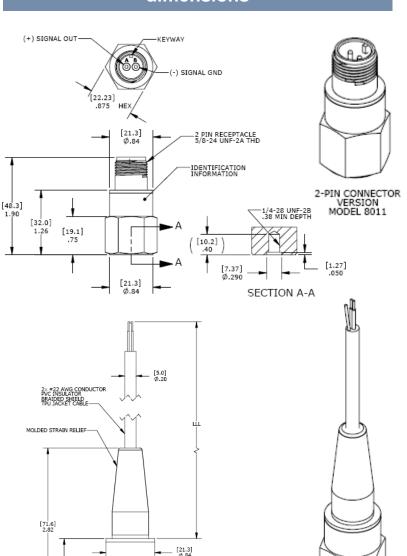
- ±5g to ±50g Dynamic Range
- 10-5000Hz Bandwidth
- Case Isolated, Internally Shielded
- Hermetically Sealed, Welded
- Annular Shear Mode
- **Reverse Wiring Protection**
- Stable Temperature Response
- 2-Pin MIL-C-5015 Connector

#### **APPLICATIONS**

- **General Purpose**
- Machine Monitoring
- **Rotary Compressors**
- Motors and Pumps
- **Rotating Machinery**



#### dimensions



7/8 HEX [22 HEX]

1/4-28 UNF-2B, .38 MIN DEPTH

STANDARD INTEGRAL CABLE VERSION MODEL 8012

### Model 801X-AR/-AP Accelerometer

All values are typical at +24°C, 100Hz and 15Vdc excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice. Standard product parameters are described in PSC-1003 for Plug & Play AC Accelerometers.

DYNAMIC					Notes
Range (g Peak or RMS)	±5	±10	±20	±50	
Output (mA)	4 to 20	4 to 20	4 to 20	4 to 20	
Frequency Response (cpm)	600-300000	600-300000	600-300000	600-300000	±10%
Frequency Response (Hz)	10-5000	10-5000	10-5000	10-5000	±10%
Non-Linearity (%FSO)	±1	±1	±1	±1	
Transverse Sensitivity (%)	<5	<5	<5	<5	
Shock Limit (g)	5000	5000	5000	5000	

#### **ELECTRICAL**

Excitation Voltage (Vdc) 12 to 30
Loop Resistance (Ohms) 900 max See Note 1
Turn on Time (sec) <10

Grounding Case Isolated, Internally Shielded

**ENVIRONMENTAL** 

Operating Temperature (°C) -40 to +85 Storage Temperature (°C) -40 to +85

**PHYSICAL** 

Sensing Element Ceramic (shear mode)
Case Material Stainless Steel

Weight (grams) 93

Mounting Torque 24 lb-in (2.7 N-m)

Calibration supplied: CS-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±10% Frequency Response Limit

**Supplied accessories:** AC-A03663 ¼-28 to ¼-28 mounting stud

Optional accessories: 316-XXX Cable Assembly, Straight (XXX designates length in inches, 10ft standard)

318-XXX Cable Assembly, 90 Degrees (XXX designates length in inches, 10ft standard)

AC-D03664 %-28 to M5 mounting stud AC-D03665 %-28 to M6 mounting stud AC-A04209 Magnetic Mounting Adaptor

Note 1

Maximum Loop Resistance = (Excitation Voltage - 12Vdc) / 20mA

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### ordering info

PART NUMBERING Model Number+Range

801X-ZZ-GGG-CCC -ZZ

I I I \_\_\_Cable length (120 is 120 inches) AR = RMS

I I \_\_\_Range (050 is 50g) AP = Peak

I \_\_\_Range Type (AR is RMS Acceleration)

I\_\_\_\_\_Electrical Connection Option (1 for 2-pin connector, 2 for integral cable)

Example: 8011-AR-050

Model 8011, 2-pin connector, RMS acceleration output, 50g range

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