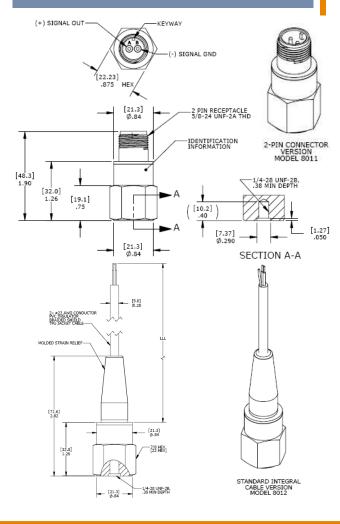




ROHS (E

DIMENSIONS



MODEL 801X-AR/-AP ACCELEROMETER

SPECIFICATIONS

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

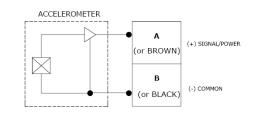
The Model 8011 & 8012 are internally shielded rugged 4-20mA accelerometers. The accelerometers are available in ranges from $\pm 5g$ to $\pm 50g$, in either RMS or Peak acceleration output options. The model 8011 features a top exit MIL-C-5015 connector while the model 8012 features an integral cable.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



PERFORMANCE SPECIFICATIONS

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.

Parameters DYNAMIC Range (g Peak or RMS)	±5	±10	±20	±50	Notes
Output (mA) Frequency Response (cpm) Frequency Response (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g)	4 to 20 600-300000 10-5000 ±1 <5 5000	4 to 20 600-300000 10-5000 ±1 <5 5000	4 to 20 600-300000 10-5000 ±1 <5 5000	4 to 20 600-300000 10-5000 ±1 <5 5000	±10% ±10%
ELECTRICAL Excitation Voltage (Vdc) Loop Resistance (Ohms) Turn on Time (sec) Grounding	12 to 30 900 max <10 Case Isolate	ed, Internally Shield	led		See Note 1
ENVIRONMENTAL Operating Temperature (°C) Storage Temperature (°C)) -40 to +85 -40 to +85				
PHYSICAL Sensing Element Case Material Weight (grams) Mounting Torque	Ceramic (shear mode) Stainless Steel 93 24 Ib-in (2.7 N-m)				
Calibration supplied:	CS-FREQ-0100	NIST Traceable	Amplitude Calibrat	tion from 20Hz to ± 1	0% Frequency Response Limit
Supplied accessories:	AC-A03663	1⁄4-28 to 1⁄4-28 mc	ounting stud		
Optional accessories:	316-XXX 318-XXX AC-D03664 AC-D03665 AC-A04209	Cable Assembly, Straight (XXX designates length in inches, 10ft standard) Cable Assembly, 90 Degrees (XXX designates length in inches, 10ft standard) ¼-28 to M5 mounting stud ¼-28 to M6 mounting stud Magnetic Mounting Adaptor			

Note 1

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

The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. Measurement Specialties, Inc. reserves the right to make changes without further notice to any product herein. Measurement Specialties, Inc. makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does Measurement Specialties, Inc. assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. Measurement Specialties, Inc. does not convey any license under its patent rights nor the rights of others-

ORDERING INFORMATION

PART NUMBERING Model Number+Output Type+Range+Cable Length (if required)

801X-ZZ-GGG-CCC

- I I I I_Cable length (120 is 120 inches)
 - I I Range (050 is 50g)
 - Range Type (AR is RMS Acceleration)
 - Electrical Connection Option (1 for 2-pin connector, 2 for integral cable)

Example: 8011-AR-050

L

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

-ZZ	
AR =	RMS
AP =	Peak

NORTH AMERICA

Measurement Specialties, Inc., a TE Connectivity Company 1000 Lucas Way Hampton, VA 23666 USA Tel: +1-800-745-8008 or +1-757-766-1500 Fax: +1-757-766-4297 Sales: pvg.cs.amer@meas-spec.com

EUROPE

MEAS France SAS a TE Connectivity Company 26 Rue des Dames F78340 Les Clayes-sous-Bois France Tel: +33 (0) 130 79 33 00 Fax: +33(0) 134 81 03 59 Sales: pfg.cs.emea@meas-spec.com

ASIA

Measurement Specialties (China), Ltd., a TE Connectivity Company No. 26 Langshan Road Shenzhen High-Tech Park (North) Nanshan District, Shenzhen 518057 China Tel: +86 755 3330 5088 Fax: +86 755 3330 5099 Sales: pfg.cs.asia@meas-spec.com

TE.com/sensorsolutions

Measurement Specialties, Inc., a TE Connectivity company.

Measurement Specialties, TE Connectivity, TE Connectivity (logo) and EVERY CONNECTION COUNTS are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2015 TE Connectivity Ltd. family of companies All Rights Reserved.