

# MODEL 8011-01 & 8012-01 ACCELEROMETER

### **SPECIFICATIONS**

- IEPE Accelerometer
- 16kHz Bandwidth
- -55°C to +125°C Operating Range
- Top Exit Connector or Integral Cable

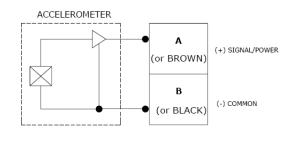
**The Model 8011-01 & 8012-01** are internally shielded rugged IEPE accelerometers designed for harsh environments. The accelerometers are available in  $\pm 10g$ ,  $\pm 80g \& \pm 500g$  dynamic ranges and have a flat bandwidth up to greater than 16kHz. The model 8011-01 features a top exit MIL-C-5015 connector while the model 8012-01 features an integral cable. The units are hermetically sealed and are designed to operating in temperature ranges from -  $55^{\circ}$ C to +125°C.

## FEATURES

- ±10g, ±80g & ±500g Dynamic Ranges
- Wide bandwidth up to 16kHz
- Case Isolated, Internally Shielded
- Hermetically Sealed, Welded
- Annular Shear Mode
- Reverse Wiring Protection
- Stable Temperature Response

### **APPLICATIONS**

- General Purpose
- Machine Monitoring
- Industrial Applications
- Harsh Environments
- Gearbox Monitoring



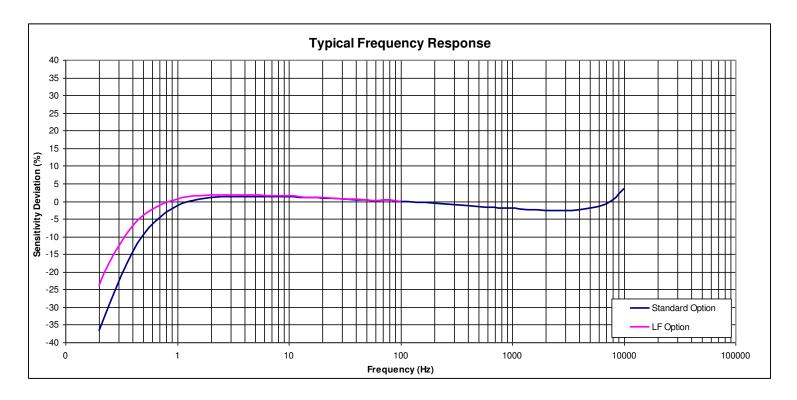
Guangzhou Ankai Electronic Instrument Co., Ltd.

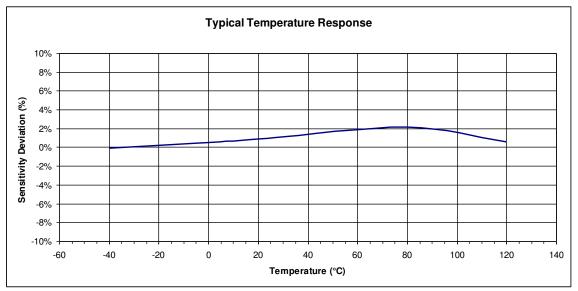
#### PERFORMANCE SPECIFICATIONS

All values are typical at  $+24^{\circ}$ C, 80Hz and 4mA excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters <b>DYNAMIC</b> Range (g) Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g)		±80 100 1-10000 0.5-16000 32000 ±1 <5 5000	±500 10 1-10000 0.5-18000 42000 ±1 <5 5000	<b>Notes</b> ±10% (±5% Option) ±10% ±3dB	
ELECTRICAL Compliance Voltage (Vdc) Excitation Current (mA) Bias Voltage (Vdc) Output Impedance ( $\Omega$ ) Insulation Resistance (M $\Omega$ ) Residual Noise (g RMS) Warm-up Time (sec) Grounding	0.00005 <1	18 to 30 2 to 10 8 to 12 <100 >100 0.0001 <1 ed, Internally Shi	18 to 30 2 to 10 8 to 12 <100 >100 0.0003 <1 elded	See Note 1 Room Temperature @100Vdc	
<b>ENVIRONMENTAL</b> Temperature Response (% Operating Temperature (°C Storage Temperature (°C)	C) -55 to +125				
PHYSICAL Sensing Element Case Material Weight (grams) Mounting Torque <sup>1</sup> For full dynamic range a mi <sup>2</sup> LF option offers a low frequ <sup>3</sup> Contact factory for Hazardo	ency response to 0.	eel N-m) roltage of 24Vdc 1Hz	is recommended		
Calibration supplied:	CS-FREQ-0100	S-FREQ-0100 NIST Traceable Amplitude Calibration from 20Hz to ±10% Frequency Response Lir			
Supplied accessories:	AC-A03663	1/4-28 to 1/4-28 mounting stud			
Optional accessories:	316A-XXX 318A-XXX AC-D03664 AC-D03665	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			

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+Range

801XLF-01-GGG

L T

II I\_

\_\_\_ Range (080 is 80g) \_\_Low frequency option, otherwise leave blank \_Electrical Connection Option (1 for 2-pin connector, 2 for integral cable)

Example: 8011-01-080

Model 8011-01, 2-pin connector, 80g range

#### STANDARD CONFIGURATIONS

Part Number	Electrical Connection	Range	Cable Length
8011LF-01-010	Connector	10g	Not Applicable
8011-01-080	Connector	80g	Not Applicable
8011-01-500	Connector	500g	Not Applicable
8012LF-01-010-120	Integral Cable	10g	10 Feet
8012LF-01-010-240	Integral Cable	10g	20 Feet
8012LF-01-010-360	Integral Cable	10g	30 Feet
8012-01-080-120	Integral Cable	80g	10 Feet
8012-01-080-240	Integral Cable	80g	20 Feet
8012-01-080-360	Integral Cable	80g	30 Feet
8012-01-500-120	Integral Cable	500g	10 Feet
8012-01-500-240	Integral Cable	500g	20 Feet
8012-01-500-360	Integral Cable	500g	30 Feet