MODEL 808 ACCELEROMETER



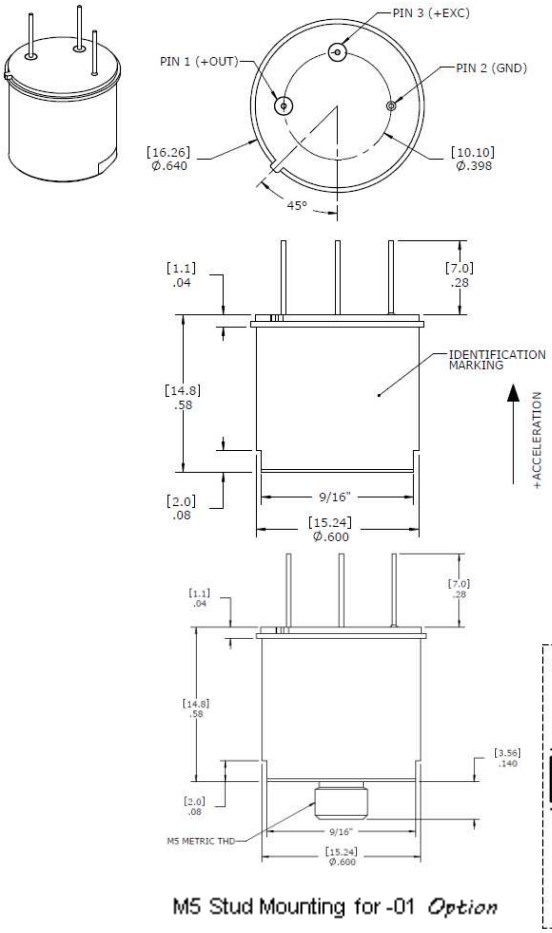
SPECIFICATIONS

- **TO-8 Series Accelerometer**
- **2-Wire IEPE Interface**
- **Low-Cost, Embedded Applications**
- **Wide Bandwidth to 6kHz**

The Model 808 is a miniature adhesive mount IEPE accelerometer built on a 3-pin TO-8 header. It is available in ±10g and ±50g dynamic ranges and offers a flat frequency response to 6kHz. The accelerometer features a hermetic construction in a TO-8 header configuration.

The model 808 incorporates a stable piezo-ceramic crystal and an integrated charge converter amplifier in a 100% shielded housing suitable for many embedded OEM applications.The accelerometer is offered in two configurations; one for adhesive mounting and one for stud mounting.

DIMENSIONS

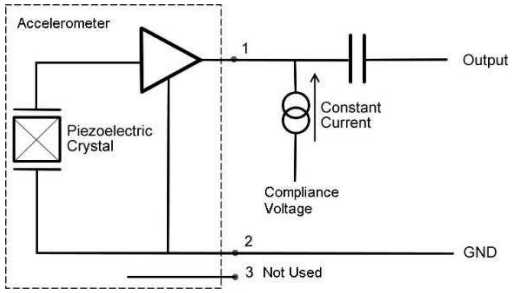


FEATURES

- ±10g and ±50g Range
- Wide bandwidth up to 6kHz
- TO-8 Configuration
- Hermetically Sealed
- -40°C to +100°C Operating Range
- Case Grounded Design

APPLICATIONS

- Machine Monitoring
- Low-Cost OEM Installation
- Permanent Structural Study
- Embedded Sensing Solution



PERFORMANCE SPECIFICATIONS

All values are typical at +24°C, 80Hz and 4mA excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice. Standard product parameters are described in PSC-1001 for Embedded AC Accelerometers.

Parameters			
DYNAMIC			**Notes**
Range (g)	±10	±50	
Sensitivity (mV/g)	500	100	±10% (see Note 1 for ±5% option)
Frequency Response (Hz)	1-3000	2-4000	±1dB
Frequency Response (Hz)	0.3-5000	0.3-6000	±3dB
Natural Frequency (Hz)	18000	24000	
Non-Linearity (%FSO)	±1	±1	
Transverse Sensitivity (%)	5	5	
Shock Limit (g)	5000	5000	
Residual Noise (g RMS)	0.0008	0.001	Broadband 1Hz to 10kHz
ELECTRICAL			
Compliance Voltage (Vdc)	18 to 30		
Excitation Current (mA)	2 to 10		
Bias Voltage (Vdc)	8 to 12		Room Temperature
Bias Voltage (Vdc)	6 to 13		-40 to +100°C
Output Impedance (Ω)	<100		
Full Scale Output Voltage (V)	±5		
Grounding	Case grounded to mounting surface		
ENVIRONMENTAL			
Temperature Response (%)	±10		
Operating Temperature (°C)	-40 to +100		+125°C option, see Note 2
Storage Temperature (°C)	-54 to +125		
PHYSICAL			
Sensing Element	Piezo-Ceramic, Shear Mode		
Case Material	Stainless Steel		
Weight (grams)	20 (for 10g range), 16 (for 50g range)		
Mounting	Adhesive or Circuit Board (M5 Stud Mounting for -01 Option)		

[1] Contact factory for model number to order with ±5% sensitivity tolerance

[2] Contact factory for model number to order with +125°C operating temperature

Calibration supplied: CS-SENS-0100 NIST Traceable Amplitude Calibration at 80Hz

Wiring color code: See schematic

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

808-GGGG-XX
I I_____ Optional Stud Dash Number
I_____ Range (0010 is 10g)

Dash Number	Stud Options
-01	M5 x 0.8

Example: 808-0010
Model 808, 10g

NORTH AMERICA
Measurement Specialties, Inc.,
a TE Connectivity Company
Tel: 800-522-6752
Email: customercare.hmpt@te.com

EUROPE
MEAS France SAS
a TE Connectivity Company
Tel: 800-440-5100
Email : customercare.lcsb@te.com

ASIA
Measurement Specialties (China), Ltd.,
a TE Connectivity Company
Sales and Customer Service
Tel: 0400-820-6015
Email: customercare.shzn@te.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.