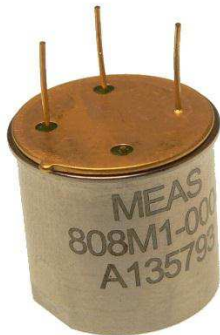


# MODEL 808 ACCELEROMETER



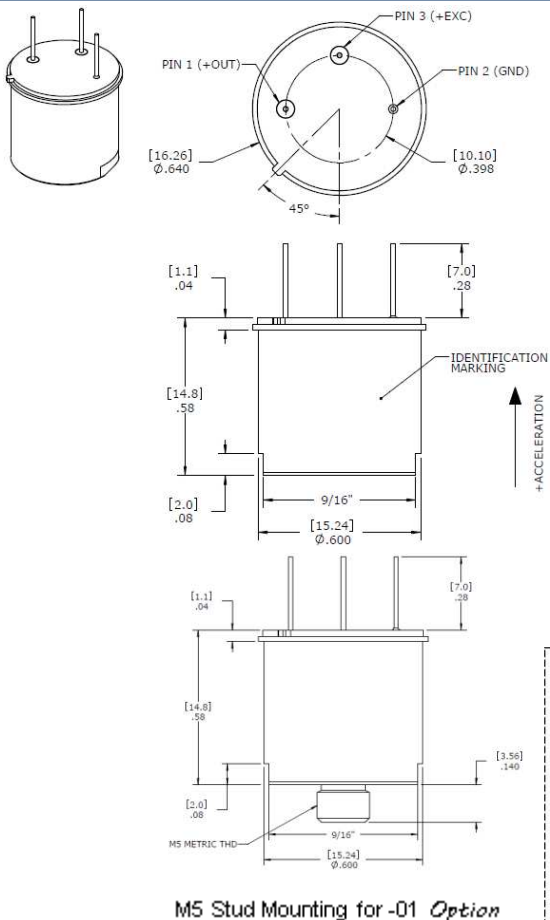
## SPECIFICATIONS

- ◆ 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  $\pm 10g$  and  $\pm 50g$  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 piezoceramic 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

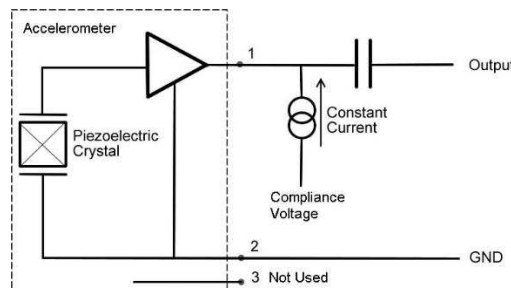


## FEATURES

- ◆  $\pm 10g$  and  $\pm 50g$  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**

			<b>Notes</b>
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)

<sup>1</sup> Contact factory for model number to order with ±5% sensitivity tolerance

<sup>2</sup> 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

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## ORDERING INFORMATION

PART NUMBERING Model Number+Range

808-GGGG-XX

| | | | | Optional Stud Dash Number  
| | | | | Range (0010 is 10g)

Dash Number  
-01

Stud Options  
M5 x 0.8

Example: 808-0010  
Model 808, 10g



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