

MODEL 808 ACCELEROMETER

SPECIFICATIONS

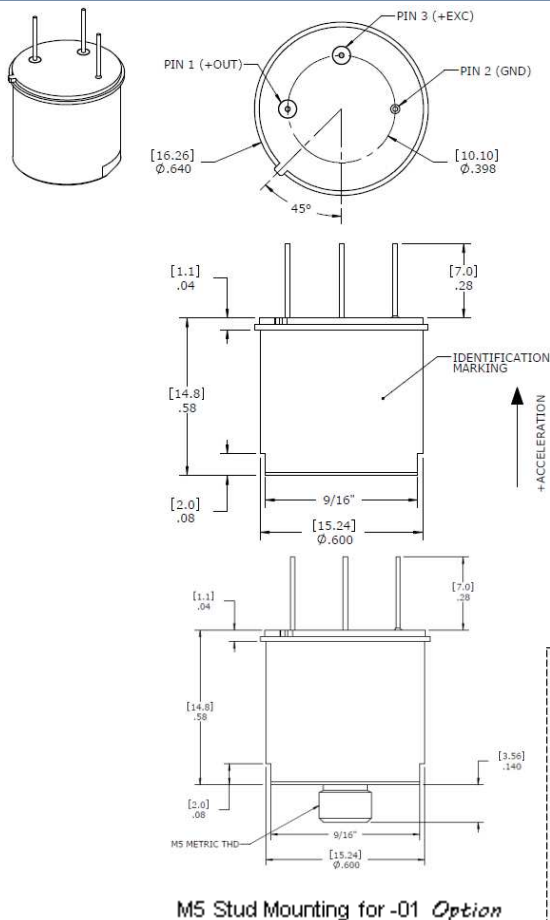
- ◆ TO-8 Series Accelerometer
- ◆ 2-Wire IEPE Interface
- ◆ Low-Cost, Embedded Applications
- ◆ Wide Bandwidth to 6kHz

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 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

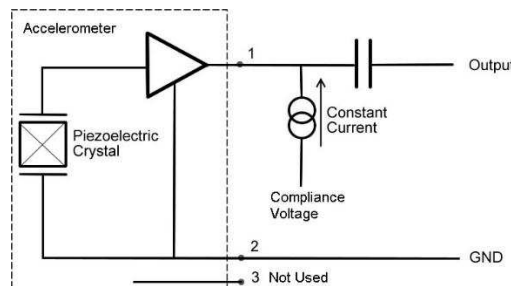


FEATURES

- ◆ $\pm 10g$ and $\pm 50g$ Range
- ◆ Wide bandwidth up to 6kHz
- ◆ TO-8 Configuration
- ◆ Hermetically Sealed
- ◆ -40°C to $+100^{\circ}\text{C}$ 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

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ORDERING INFORMATION

PART NUMBERING Model Number+Range

808-GGGG-XX

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

Dash Number
-01

Stud Options
M5 x 0.8

Example: 808-0010
Model 808, 10g

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