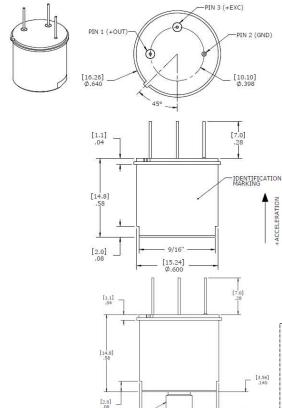








DIMENSIONS



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.

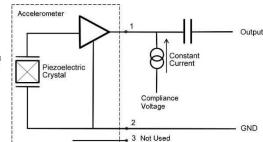
The model 808 incorporates a stable piezoceramic crystal and an integrated charge converter amplifier in a 100% shielded housing suitable for many embedded OEM applications. The accelerometer is offered in two configurations; one for adhesive mounting and one for stud mounting.

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



M5 Stud Mounting for -01 Option

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) Sensitivity (mV/g)	±10 500	±50 100	±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) Transverse Sensitivity (%)	±1 5	±1 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) Output Impedance (Ω)	6 to 13 <100		-40 to +100°C
Full Scale Output Voltage (V)	±5		
Grounding	Case ground	ed to mounting surface	

ENVIRONMENTAL

Temperature Response (%) ±10
Operating Temperature (°C) -40 to +100
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)

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

Wiring color code: See schematic

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+125°C option, see Note 2

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

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 Stud Options M5 x 0.8

Example: 808-0010 Model 808, 10g

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