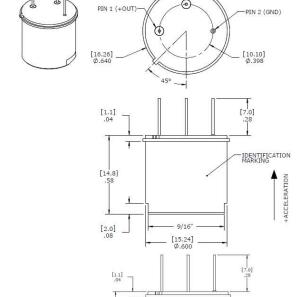






PIN 3 (+EXC)

DIMENSIONS



[2.0]

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.

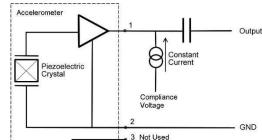
The model 808 incorporates a stable piezoceramic crystal and an integrated charge converter amplifier in a 100% shielded housing suitable for many embedded OEM applications. The accelerometer is offered in two configurations; one for adhesive mounting and one for stud mounting.

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

[3.56]

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 Range (g) Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g) Residual Noise (g RMS)	±10 500 1-3000 0.3-5000 18000 ±1 5 5000 0.0008	±50 100 2-4000 0.3-6000 24000 ±1 5 5000	Notes ±10% (see Note 1 for ±5% option) ±1dB ±3dB Broadband 1Hz to 10kHz
ELECTRICAL Compliance Voltage (Vdc) Excitation Current (mA) Bias Voltage (Vdc) Bias Voltage (Vdc) Output Impedance (Ω) Full Scale Output Voltage (V) Grounding	18 to 30 2 to 10 8 to 12 6 to 13 <100 ±5 Case grounded to mounting surface		Room Temperature -40 to +100°C
ENVIRONMENTAL Temperature Response (%)	±10		

PHYSICAL

Operating Temperature (°C)

Storage Temperature (°C)

Sensing Element Piezo-Ceramic, Shear Mode

Case Material Stainless Steel

Weight (grams) 20 (for 10g range), 16 (for 50g range)

-40 to +100

-54 to +125

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

MODEL 808 ACCELEROMETER

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

Example: 808-0010 Model 808, 10g