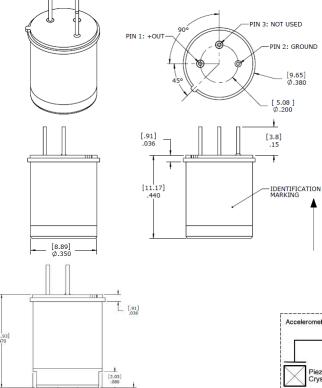




## **DIMENSIONS**



## **MODEL 805 ACCELEROMETER**

### **SPECIFICATIONS**

- **◆ TO-5 Series Accelerometer**
- ◆ 2-Wire IEPE Interface
- **◆** Low-Cost, Embedded Applications
- Wide Bandwidth to 15kHz

The **Model 805** is a miniature adhesive mount IEPE accelerometer built on a 3-pin TO-5 header. It is available in ±50g and ±500g dynamic ranges and offers a flat frequency response to 15kHz. The accelerometer features a hermetic construction in a TO-5 header configuration. The model 805 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.

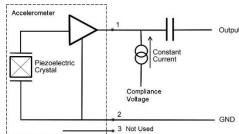
#### **FEATURES**

- ◆ ±50g and ±500g Range
- ◆ Wide bandwidth up to 15kHz
- ◆ TO-5 Configuration
- Hermetically Sealed
- ◆ -40°C to +100°C Operating Range
- Case Grounded Design

### **APPLICATIONS**

-ACCELERATION

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



[8.89] Ø.350

M3 Stud Mounting for -01

## PERFORMANCE SPECIFICATIONS

All values are typical at  $\pm 24$ °C, 80Hz and 4mA excitation unless otherwise stated. Measurement Specialties reserves the right to update and change these specifications without notice.

Parameters DYNAMIC Range (g) Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g)	±50 100 1-8000 0.3-10000 34000 ±1 5	±500 10 1-8000 0.3-12000 34000 ±1 5	Notes ±10% (see Note 1 for ±5% option) ±1dB ±3dB
Residual Noise (g RMS)	0.0004	0.0009	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 ground	led to mounting surface	Room Temperature -40 to +100°C
ENVIRONMENTAL Temperature Response (%) Operating Temperature (°C) Storage Temperature (°C)	±10 -40 to +100 -54 to +125		+120°C option, see Note 2
PHYSICAL Sensing Element Case Material Weight (grams) Mounting	Piezo-Ceram Stainless Sta 5.0 Adhesive or	•••	

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

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

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<sup>&</sup>lt;sup>2</sup> Contact factory for model number to order with +120°C operating temperature

#### **MODEL 805 ACCELEROMETER**

## **ORDERING INFORMATION**

PART NUMBERING	Model Number+Range
----------------	--------------------

805-GGGG-XX

I I\_\_\_\_\_ Optional Stud Dash Number
I\_\_\_\_\_ Range (0050 is 50g)

Dash Number Stud Options -01 Stud Options M3 x 0.5 6g

Example: 805-0050 Model 805, 50g

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