







## **MODEL 805 ACCELEROMETER**

#### **SPECIFICATIONS**

- TO-5 Series Accelerometer
- 2-Wire IEPE Interface
- Low-Cost, Embedded Applications
- Wide Bandwidth to 12kHz

The **Model 805** is a miniature adhesive mount IEPE accelerometer built on a 3-pin TO-5 header. It is available in  $\pm 50$ g to  $\pm 500$ g dynamic ranges and offers a flat frequency response to 12kHz. 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 model 805 accelerometer is offered in two configurations; one for adhesive mounting and one for stud mounting. An isolating cover option is also included for the standard model.

#### **FEATURES**

- ±50g to ±500g Range
- Wide bandwidth up to 12kHz
- TO-5 Configuration
- Hermetically Sealed
- -40°C to +100°C Operating Range
- Case Grounded Design

### **APPLICATIONS**

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

## PERFORMANCE SPECIFICATIONS

All values are typical at  $\pm 24^{\circ}$ C, 80Hz and 4mA excitation unless otherwise stated. TE Connectivity reserves the right to update and change these specifications without notice.

			Notes
±50	±100	±500	
		• •	±10% (see Note 1 for ±5% option)
			±1dB
			±3dB
-		-	
			Broadband 1Hz to 10kHz
0.0004	0.0003	0.0003	BIOAGDANG THE TO TOKIE
18 to 30			
2 to 10			
8 to 12			Room Temperature
6 to 13			-40 to +100°C
Grounding Case grounded to mounting surface			
+10			
			+120°C option, see Note 2
-54 to +125			1120 0 00000, 000 11010 2
	-		
Stainless Stee	əl		
	100 1-8000 0.3-10000 34000 ±1 5 5000 0.0004  18 to 30 2 to 10 8 to 12 6 to 13 <100 ±5 Case grounde  ±10 -40 to +100 -54 to +125  Piezo-Cerami	100 50 1-8000 1-8000 0.3-10000 0.3-10000 34000 34000 ±1 ±1 5 5 5000 5000 0.0004 0.0005  18 to 30 2 to 10 8 to 12 6 to 13 <100 ±5 Case grounded to mounting si  ±10 -40 to +100	100

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

Weight (grams) Mounting

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

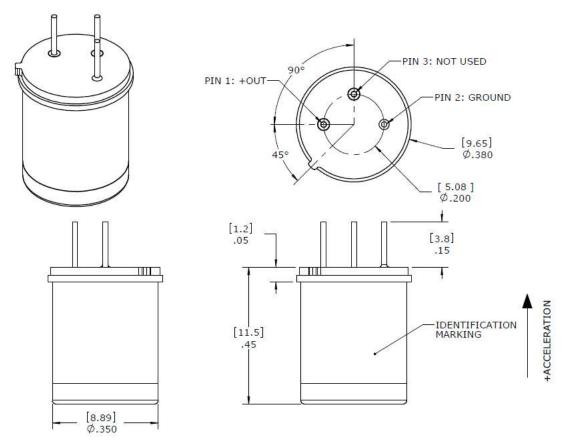
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Adhesive or Circuit Board (M3 Stud Mounting for -01 Option)

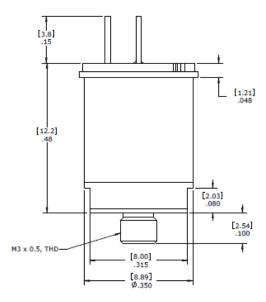
<sup>&</sup>lt;sup>2</sup> Contact factory for model number to order with +120°C operating temperature

## **DIMENSIONS**

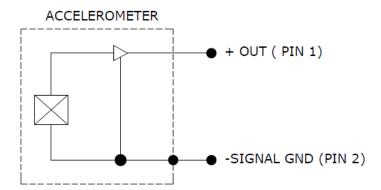
#### Standard Model 805



## Model 805 with M3 Mounting Stud Option



#### **SCHEMATIC**



#### ORDERING INFORMATION





**Isolating Cover Option** 

Examples; 805-0050 Model 805, 50g range

wioder 605, 50g range

805-0100-01 Model 805 with M3 mounting stud, 100g range

#### **NORTH AMERICA**

Measurement Specialties, Inc., a TE Connectivity Company Tel: +1-800-522-6752 customercare.hmpt@te.com

#### **EUROPE**

MEAS France SAS a TE Connectivity Company Tel: +31 73 624 6999 customercare.lcsb@te.com

#### ASIA

Measurement Specialties (China), Ltd., a TE Connectivity Company Tel: +86-400-820-6015 customercare.shzn@te.com

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