

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 50g to \pm 500g 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 piezo-ceramic 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 +24°C, 80Hz and 4mA excitation unless otherwise stated. TE Connectivity reserves the right to update and change these specifications without notice.

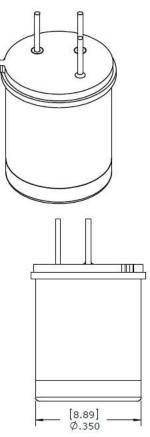
Parameters DYNAMIC Range (g) Sensitivity (mV/g) Frequency Response (Hz) Frequency Response (Hz) Natural Frequency (Hz) Non-Linearity (%FSO) Transverse Sensitivity (%) Shock Limit (g) Residual Noise (g RMS)	±50 100 1-8000 0.3-10000 34000 ±1 5 5000 0.0004	±100 50 1-8000 0.3-10000 34000 ±1 5 5000 0.0005	± 500 10 1-8000 0.3-12000 34000 ± 1 5 5000 0.0009	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 grounde	ed to mounting s	urface	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
,	Piezo-Ceramic Stainless Steel 5.0 Adhesive or Circuit Board (M3 Stud Mounting for -01 Option) to order with ±5% sensitivity tolerance to order with +120°C operating temperature			

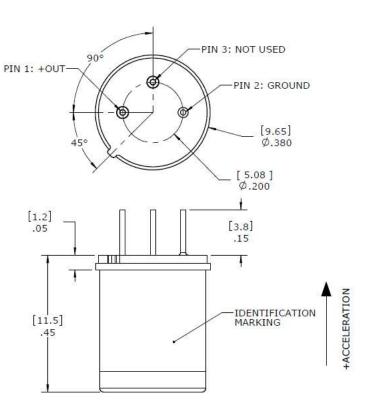
Calibration supplied: CS-SENS-0100 NIST Traceable Amplitude Calibration at 80Hz

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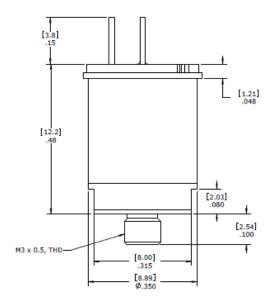
DIMENSIONS

Standard Model 805

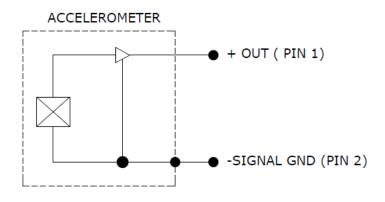




Model 805 with M3 Mounting Stud Option



SCHEMATIC



ORDERING INFORMATION





Isolating Cover Option

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

Model 805, 50g range

Examples; 805-0050

NORTH AMERICA

Measurement Specialties, Inc., a TE Connectivity Company Tel: 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: 0400-820-6015 customercare.shzn@te.com

TE.com/sensorsolutions

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