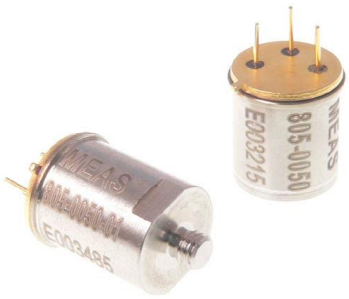
Model 805 Accelerometer

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 piezo-ceramic 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.

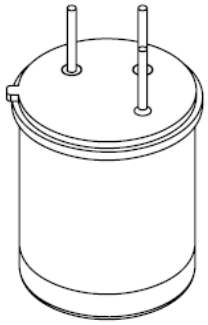
FEATURES

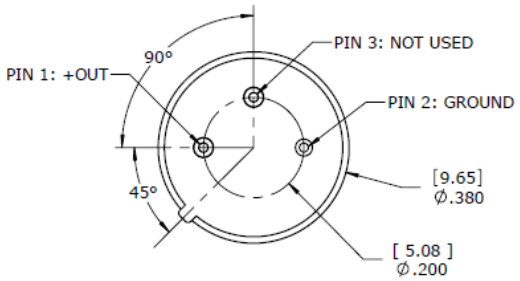
- ±50g and ±500g Range
- Wide bandwidth up to 15kHz
- TO-5 Configuration
- Hermetically Sealed
- -40°C to +100°C Operating Range
- Case Grounded Design

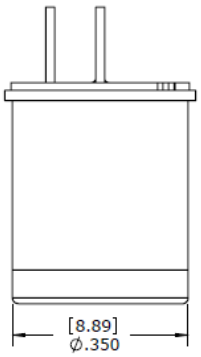
APPLICATIONS

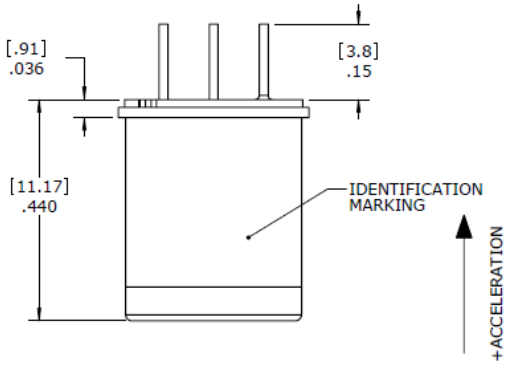
- Machine Monitoring
- Low-Cost OEM Installation
- Permanent Structural Study
- Embedded Sensing Solution

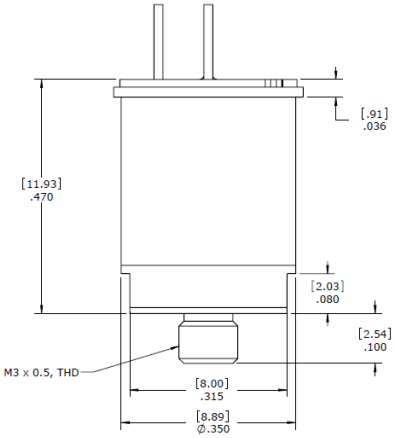
dimensions

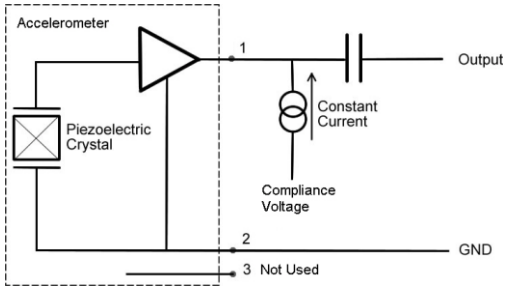












M3 Stud Mounting for -01

32 Journey Ste. 150 Aliso Viejo, CA 92656 949-716-5377 t&m@meas-spec.com

Model 805 Accelerometer

performance specifications

All values are typical at +24°C, 100Hz 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)	±50	±500	
Sensitivity (mV/g)	100	10	±10% (see Note 1 for ±5% option)
Frequency Response (Hz)	1-8000	1-8000	±1dB
Frequency Response (Hz)	0.3-10000	0.3-12000	±3dB
Natural Frequency (Hz)	34000	34000	
Non-Linearity (%FSO)	±1	±1	
Transverse Sensitivity (%)	5	5	
Shock Limit (g)	5000	5000	
Residual Noise (g RMS)	0.0004	0.0009	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)	6 to 13		-40 to +100°C
Output Impedance (Ω)	<100		
Full Scale Output Voltage (V)	±5		
Grounding	Case grounded to mounting surface		
ENVIRONMENTAL			
Temperature Response (%)	±10		
Operating Temperature (°C)	-40 to +100		+120°C option, see Note 2
Storage Temperature (°C)	-54 to +125		
PHYSICAL			
Sensing Element	Piezo-Ceramic		
Case Material	Stainless Steel		
Weight (grams)	5.0		
Mounting	Adhesive or Circuit Board (M3 Stud Mounting for -01 Option)		

[1] Contact factory for model number to order with ±5% sensitivity tolerance

[2] Contact factory for model number to order with +120°C operating temperature

Calibration supplied: CS-SENS-0100 NIST Traceable Amplitude Calibration at 100Hz

Wiring color code: See schematic

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ordering info

PART NUMBERING Model Number+Range

805-GGGG-XX
I I_____ Optional Stud Dash Number
I_____ Range (0050 is 50g)

Dash Number	Stud Options
-01	M3 x 0.5 6g

Example: 805-0050
Model 805, 50g

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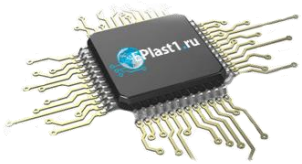
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- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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Факс: 8 (812) 320-02-42
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