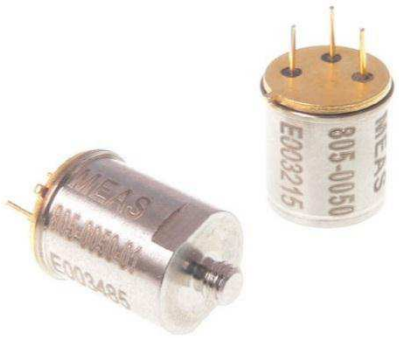
MODEL 805 ACCELEROMETER



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 ±50g to ±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				**Notes**
Range (g)	±50	±100	±500	
Sensitivity (mV/g)	100	50	10	±10% (see Note 1 for ±5% option)
Frequency Response (Hz)	1-8000	1-8000	1-8000	±1dB
Frequency Response (Hz)	0.3-10000	0.3-10000	0.3-12000	±3dB
Natural Frequency (Hz)	34000	34000	34000	
Non-Linearity (%FSO)	±1	±1	±1	
Transverse Sensitivity (%)	5	5	5	
Shock Limit (g)	5000	5000	5000	
Residual Noise (g RMS)	0.0004	0.0005	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

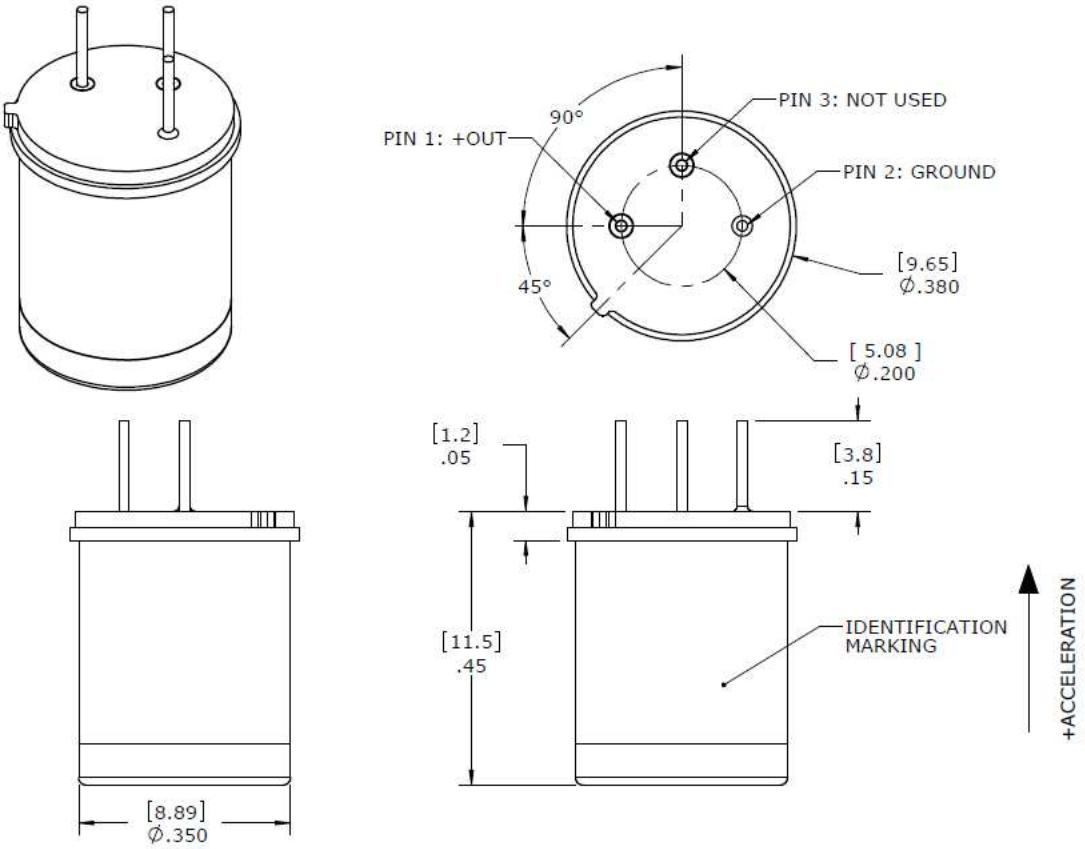
[2] Contact factory for model number to order with +120°C operating temperature

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

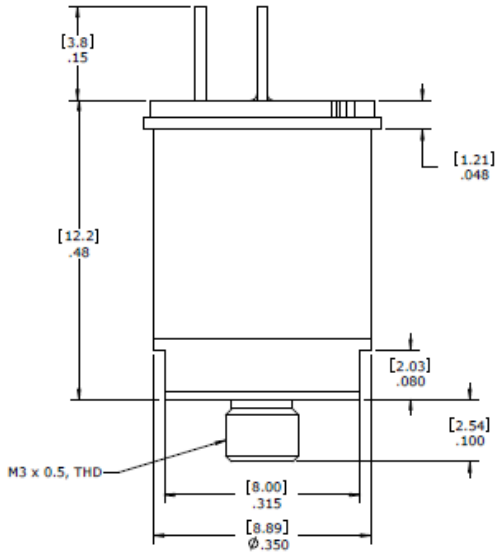
The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. TE Connectivity reserves the right to make changes without further notice to any product herein. TE Connectivity makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does TE Connectivity assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. TE Connectivity does not convey any license under its patent rights nor the rights of others.

DIMENSIONS

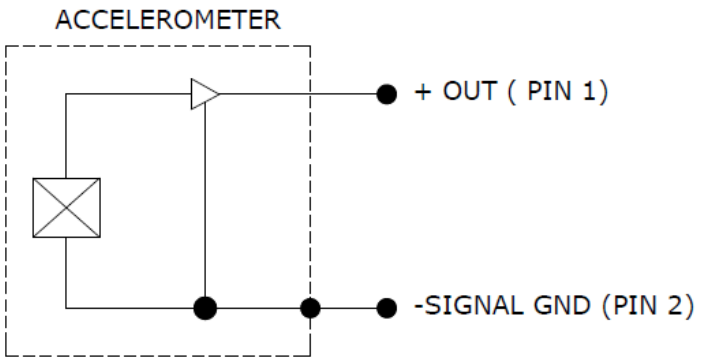
Standard Model 805



Model 805 with M3 Mounting Stud Option



SCHEMATIC



ORDERING INFORMATION

805	GGGG	XX

Range
0050=50g
0100=100g
0500=500g

Options
01=M3 x 0.5 Mouting Stud
02=Standard 805 unit with Isolating Mounting Cover Installed

Isolating Cover Option

Examples;
805-0050
Model 805, 50g range

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

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

MEAS France SAS and Measurement Specialties (China) , Inc., are TE Connectivity companies.

TE Connectivity, TE, TE connectivity (logo) are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2017 TE Connectivity Ltd. All Rights Reserved.

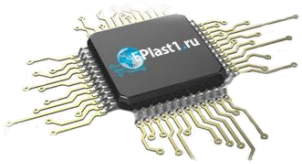
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- 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.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)
Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.