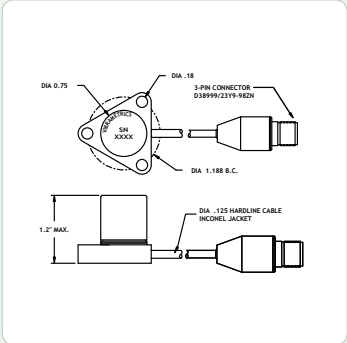


## Model 4001

### High-Temperature EEPE Charge-Type Accelerometer



#### DESCRIPTION AND FEATURES

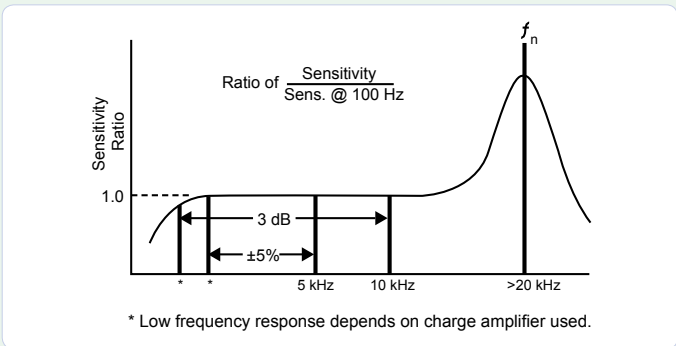
The 4000 Series of EEPE (External Electronic Piezo-Electric) accelerometers are designed to be used with external circuitry in elevated temperature environments where standard IEPE or ICP accelerometers will not function. Generally, above temperatures around 350°F (176°C), EEPE accelerometers (also known as Charge-Type) sensors should be used.

The Model 4001 features an integral hardline cable, and a triangular mounting base, for operation to 900°F (482°C).

- 10 pC/g
- Compact Size
- Broad Frequency Range
- Extended Temperature Operation

#### APPLICATIONS

- Turbines
- Engines
- Furnaces
- Experimental
- Flue Gas Atomizers



#### OPERATING SPECIFICATIONS

##### Dynamic

Sensitivity @ 100 Hz, ± 10% ..... 10 pC/g - 1.02 pC/(m/s<sup>2</sup>)  
 Frequency Range ± 5% ..... \*\*Hz - 5 kHz  
 Frequency Range ± 3 dB ..... \*\*Hz - 10 kHz  
 Amplitude Range ..... ± 500 g  
 Mounted Resonance ..... > 20 kHz (Typical)  
 Transverse Sensitivity ..... < 5%  
 Amplitude Linearity ..... < 2%  
 \*\* Low Frequency Response depends on charge amplifier

##### Environmental

Temperature Range ..... -40 to 900°F / -40 to 482°C  
 Base Strain ..... 0.005 g peak/μstrain  
 Shock Limit ..... 2000 g

##### Physical

Dimensions ..... See Outline Drawing  
 Weight ..... 70 grams (not including 6' Hard-Line Cable)  
 Case/Base Material ..... Inconel  
 Design ..... Compression  
 Mounting ..... Standard ARINC, 3-Point Mounting  
 Mounting Torque ..... 20 in-lb (2.2 N-m)  
 Cable ..... 6' Hard-Line Cable (1" Minimum Bend Radius)  
 Connector ..... Hermetic 3-Pin (MIL 5015) / Connector  
 Maximum Operating Temperature ..... 450°F  
 Connector Pinout ..... Pin A (+), Pin B (-),  
 ..... Pin C (connected to case)

#### ORDERING INFORMATION AND ACCESSORIES

Model 4001, Mfr. Part No. 4001-5015  
 In-line Charge Amp ..... CA-10-5015  
 Cable Assembly, Softline, 3-pin MIL to TNC(M), Tefzel  
 2-conductor shielded twisted pair cable ..... 4002-5085

##### Sensors include

NIST Traceable Calibration  
 6' Hard-Line Cable  
 User Manual  
 1-Year Warranty

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