TOP-MOUNT INDUSTRIAL-GRADE ACCELEROMETERS

ACC786A

- Rugged Design
- Corrosion Resistant
- Hermetic Seal
- Isolated Case
- ESD Protection
- Reverse Wiring Protection

The OMEGAROMETER[™] Series accelerometers are designed for industrial vibration measurements. They feature a hermetically sealed 316L SS case suitable for harsh environments. The ACC786A is a general purpose model with a top cable exit.

SPECIFICATIONS

DYNAMIC

Sensitivity, ±5%, 25°C (77°F): 100 mV/g

Acceleration Range: 80 g peak Amplitude Non-Linearity: 1%

Frequency Response: ±5%: 3 to 5000 Hz ±10%: 1 to 9000 Hz ±3 dB: 0.5 to 14,000 Hz

Resonance Frequency: 30 kHz Transverse Sensitivity, Maximum: 5% of axial

Temperature Response: -50°C (-58°F) = -5%; 120°C (248°F) = 5%

ELECTRICÁL

Power Requirement: Voltage Source: 18 to 30 Vdc Current Regulating Diode: 2 to 10 mA

Electrical Noise, Equiv. <u>g:</u> Broadband: 2.5 Hz to 25 kHz: 700 μg Spectral: 10 H<u>z: 1</u>0 μg√Hz 100 Hz: 5 μg√Hz 1000 Hz: 5 μg√Hz

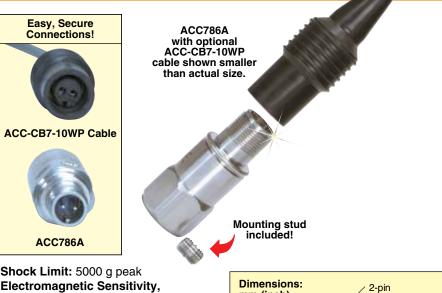
Output Impedance, Maximum: 100Ω

Bias Output Voltage: 12 Vdc

Grounding: Isolated case, internally shielded

ENVIRONMENTAL

Temperature Range: -50 to 120°C (-58 to 248°F) Vibration Limit: 500 g peak



Electromagnetic Sensitivity, Equiv. g, Max: 70 μg/gauss Sealing: Hermetic Base Strain Sensitivity, Max:

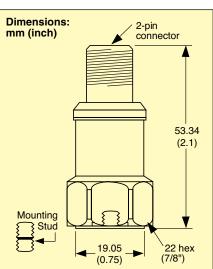
0.0002 g/microstrain

Sensing Element Design: PZT ceramic/shear Weight: 90 g (3.2 oz) Case Material: 316L SS Mounting: ¼-28 UNF tapped hole

Connections: Pin A: Power/signal Pin B: Common

Output Connector:

2 pin, MIL-C-5015 style **Mating Connector:** Amphenol 97-3106A-10SL-4S type **Recommended Cabling:** ACC-CB7-10



To Order	
MODEL NO.	DESCRIPTION
ACC786A	General purpose accelerometer with top exit connector

ACC786A includes mounting stud and calibration data and instruction sheet. Specify cable separately; see Accessories.

ACCESSORIES

MODEL NO.	DESCRIPTION
ACC-CB7-10	3 m (10') MIL/BNC twisted-pair shielded cable
ACC-CB7-10WP	3 m (10') waterproof twisted-pair shielded cable
ACC-B3	Magnetic mounting base for flat surfaces, 30 lbf
ACC-B5	Magnetic mounting base for curved surfaces, 30 lbf
ACC-PS2	Rechargeable power supply with built-in amplifier
ACC-PS3*	115 Vac power supply

Note: Visit us online for details on the above power supplies and cables * For 230 Vac power supply add suffix "**-230**" to model number, no extra charge. **Ordering Example: ACC786A + ACC-CB7-10 + ACC-B3 + ACC-PS2**, typical accelerometer system.