## PREMIUM LOW-PROFILE **ACCELEROMETERS**

## *ACC797*

- Rugged, General Purpose
- Corrosion Resistant
- ESD Protection
- ✓ Reverse Wiring Protection

The OMEGAROMETER™ accelerometer is designed for industrial vibration measurements. It features a hermetically sealed 316L SS case suitable for harsh environments. The ACC797 is a high-performance model with a side cable exit.

## **SPECIFICATIONS**

**DYNAMIC** 

Sensitivity, ±5%, 25°C (77°F): 100 mV/g Acceleration Range1: 50 g peak

**Amplitude Non-Linearity: 1%** 

Frequency Response: ±5%: 3 to 5000 Hz ±10%: 2 to 7000 Hz ±3 dB: 1 to 12,000 Hz

Resonance Frequency: 26 kHz Transverse Sensitivity, Max:

5% of axial **ELECTRICAL** 

**Power Requirement:** 

Voltage Source: 18 to 30 Vdc Current Regulating Diode1,2: 2 to 10 mA

Electrical Noise, Equiv. g: Broadband: 2.5 Hz to 25 kHz: 600 μg

**Spectral:** 10 Hz:  $8 \mu g/\sqrt{Hz}$ 100 Hz: 5 μg/√Hz

1000 Hz: 5 μg/\/Hz Output Impedance, Max:  $100 \Omega$ 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 Shock Limit: 5000 g peak

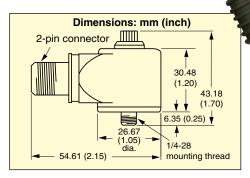
Electromagnetic Sensitivity, Equiv. q:

30 µg/gauss

**Base Strain Sensitivity:** 0.002 g/microstrain

**PHYSICAL** 

Weight: 135 g (4.8 oz) Case Material: 316L SS



Mounting: 1/4-28 screw

Output Connector: 2 pin, MIL-C-5015 style

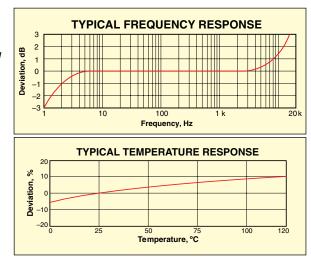
Connections:

Pin A: Power/signal Pin B: Common

Mating Connector: Amphenol 97-3106A-10SL-4S type

Recommended Cabling: ACC-CB7-10

**NOTES:** <sup>1</sup> To minimize signal distortion when driving long cables with high-vibration signals, 24 to 30 Vdc powering is recommended. The higherlevel constant current source should be used when driving long cables; please consult Sales. <sup>2</sup> A maximum current of 6 mA is recommended for operating temperatures above 100°C (212°F).



**○E OMEGA™** 

ACC797, with ACC-CB7-10WP

cable, shown smaller than actual size.

Mounting screw

included!

To Order	
MODEL NO.	DESCRIPTION
ACC797	Premium accelerometer with side exit connector

ACC797 includes captive mounting screw and calibration data. Specify cable separately; see Accessories.

## **ACCESSORIES**

MODEL NO.	DESCRIPTION
ACC-CB7-10	3.05 m (10') MIL/BNC twisted-pair shielded cable
ACC-CB7-10WP	3.05 m (10') waterproof twisted-pair shielded cable
ACC-B3-1	Magnetic mounting base for flat surfaces, 40 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

<sup>\*</sup> Add suffix "-230" for 230 Vac power supply, no extra charge.

Ordering Example: ACC797 accelerometer, ACC-CB7-10, cable, ACC-B3-1, mounting base, and ACC-PS2, power supply (typical system).