

# PREMIUM-GRADE ACCELEROMETERS TOP-MOUNT PREMIUM GRADE

ACC793  
**\$285**



- ✓ Intrinsic Safety Certified Options
- ✓ Hermetic Design
- ✓ Ground Isolated
- ✓ 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 ACC793 is a high-performance model with a top cable exit. FM and CSA intrinsic safety approval is an available option.

## SPECIFICATIONS

### DYNAMIC

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

**Acceleration Range:** 80 g peak

**Amplitude Non-Linearity:** 1%

**Frequency Response:**

±5%: 1.5 to 5000 Hz

±10%: 1.0 to 7000 Hz

±3 dB: 0.5 to 15,000 Hz

**Resonance Frequency:** 25 kHz

**Transverse Sensitivity, Max:**  
5% of axial

**Temperature Response:**

-50°C (-58°F) = -10%

120°C (248°F) = 5%

### ELECTRICAL

**Power Requirement:**

**Voltage Source:** 18 to 30 Vdc

**Current Regulating Diode<sup>1</sup>:** 2 to 10 mA

**Electrical Noise (Equiv. g, Nominal):**

**Broadband:** 2.5 Hz to 25 kHz: 600 µg

**Spectral:** 10 Hz: 8 µg/√Hz

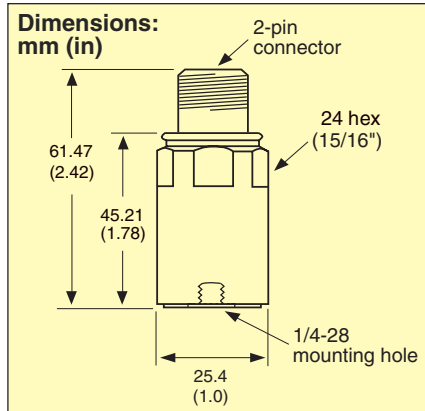
100 Hz: 5 µg/√Hz

1000 Hz: 5 µg/√Hz

**Output Impedance, Max:** 100 Ω

**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

**Base Strain Sensitivity, Max:**  
0.0005 g/microstrain

**Sealing:** Hermetic to 10<sup>-8</sup> cc/s

### PHYSICAL

**Weight:** 112 g (3.9 oz)

**Case Material:** 316L SS

**Mounting:** ¼-28 tapped hole

**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



ACC793, \$285, with ACC-CB7-10WP cable, \$90, shown smaller than actual size.



Mounting stud included!

### Agency Approvals:

**FM:** Class I, II, III, Division I, Groups A, B, C, D, E, F, G; Division II, Groups A, B, C, D, F, G

**CSA:** Class I, Division I, Groups A, B, C, D

**NOTE:** <sup>1</sup> A maximum current of 6 mA is recommended for operating temperatures above 100°C (212°F).

**AVAILABLE FOR FAST DELIVERY!**

## To Order (Specify Model Number)

MODEL NO.	PRICE	DESCRIPTION
ACC793	\$285	Premium accelerometer with top exit connector
ACC793-FM	375	FM-certified intrinsically safe premium accelerometer with top exit cable
ACC793-CSA	375	CSA-certified intrinsically safe premium accelerometer with top exit cable

ACC793 includes mounting stud and calibration data. Specify cable separately; see Accessories.

### ACCESSORIES

MODEL NO.	PRICE	DESCRIPTION
ACC-CB7-10	\$60	3.05 m (10') MIL/BNC twisted-pair shielded cable
ACC-CB7-10WP	90	3.05 m (10') waterproof twisted-pair shielded cable
ACC-B3	90	Magnetic mounting base for flat surfaces, 30 lbf
ACC-B5	125	Magnetic mounting base for curved surfaces, 30 lbf
ACC-PS2	530	Rechargeable power supply with built-in amplifier
ACC-PS3	525	115 Vac power supply

**Ordering Example:** ACC793 + ACC-CB7-10 + ACC-B3 + ACC-PS2, typical accelerometer system, \$285 + 60 + 90 + 530 = \$965.

Recommended Reference Book: Analog Signal Processing, EE-2560, \$180. See Section Y for Additional Books





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