

# LOW-MASS LABORATORY ACCELEROMETERS FOR HIGH VIBRATION LEVELS

## 10 mV/g OUTPUT

ACC104A  
**\$425**

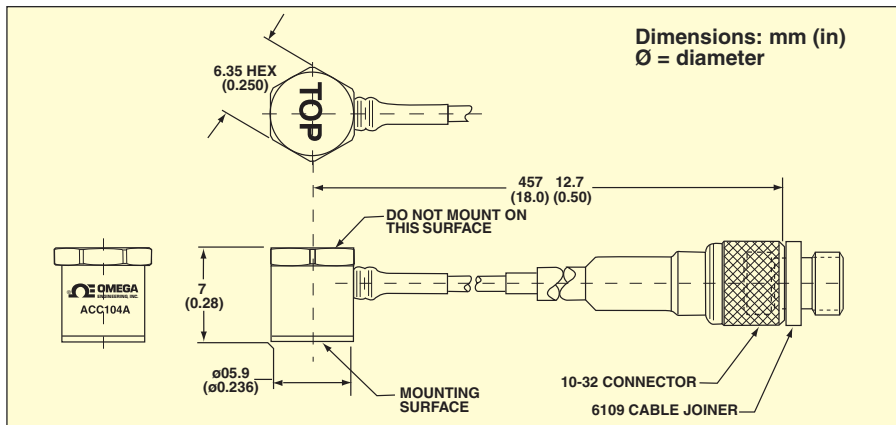
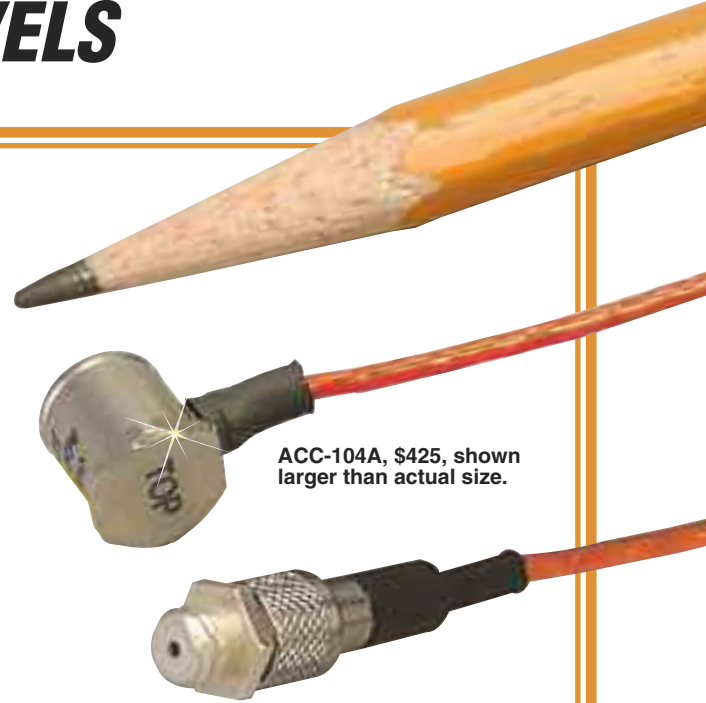
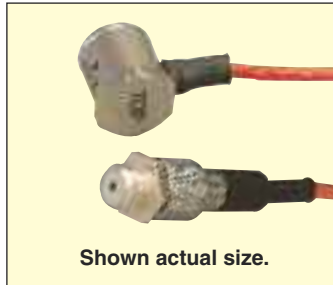


- ✓ Ideal for Accurate Structural Testing
- ✓ Weighs Only 1.5 g
- ✓ Only ¼" Dia. x ¼" High
- ✓ High Shock/Acceleration Range Up to ±1000 g
- ✓ High Resolution Resulting from Low-Noise Floor

OMEGA's ACC104A laboratory accelerometer is ideal when accurate structural testing is required. Weighing only 1.5 g, it is recommended for applications in which low weight is critical. The ACC104A has a 10 mV/g output and can measure vibrations up to 10,000 Hz. It has a stainless steel case with a flat surface for adhesive mounting, and an integral side-exit coaxial cable.

### SPECIFICATIONS

**Excitation:** 2 mA nominal @ 15 to 30 Vdc, constant current  
**Rated Output:** 10 mV/g nominal @ 100 Hz  
**Frequency Response:** 1 Hz to 10 kHz (up to ±10% rated output shift)  
**Amplitude Range:** ±500 g peak  
**Amplitude Linearity:** ±2% up to 400 g peak  
**Temperature Range:** -55 to 120°C (-65 to 250°F)  
**Temperature Sensitivity Effect:** -54 to 38°C (-65 to 100°F) ≤5% FS  
 38 to 121°C (100 to 250°F) ≤8% FS  
**Discharge Time Constant:** 0.5 s min  
**Transverse Sensitivity:** 5% of axial max  
**Strain Sensitivity:** 0.001 g/microstrain @ 25°/ms



**Maximum g Without Damage:** 10,000 g peak  
**Maximum g Without Clipping:** ±500 g peak  
**Mounted Resonance Frequency:** >60 kHz  
**Output Impedance:** 1000 Ω nominal  
**Bias Voltage:** 7V nominal  
**Base Strain:** 0.003 g/microstrain nominal  
**Noise Floor (Wideband):** 0.0012 g (rms)  
**Weight:** 1.5 g (0.05 oz) nominal (without cable)

**Material:** Stainless steel, thermal insulating boot included  
**Dimensions:** 7.11 H x 6.35 mm hex base (0.28 x 0.25")  
**Connector:** 10-32 side coaxial male termination, cable sold separately (order model no. **ACC-CB2-10**)  
**Mounting:** 10-32 removable stud  
**Mounting Torque Max:** 22 cm·kg (20 in·lb)

**AVAILABLE FOR FAST DELIVERY!**

### To Order (Specify Model Number)

MODEL NO.	PRICE	DESCRIPTION
ACC104A	\$425	Low-mass accelerometer
ACC-CB2-10	55	3 m (10') coaxial cable (10-32/BNCM) <b>required</b>
SG496	28	Cold-curing rapid adhesive

Comes complete with operator's manual.

**Note:** See pages K-16 through K-18 for accessories.

**Ordering Example:** ACC104A, accelerometer, ACC-CB2-10, coaxial cable, ACC-PS1, power supply, ACC-CB5-2, coaxial cable, \$425 + 55 + 205 + 35 = \$720.



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