

LOW-MASS LABORATORY ACCELEROMETERS FOR HIGH VIBRATION LEVELS 10 mV/g OUTPUT

DISCONTINUED

ACC104A



- ✓ 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

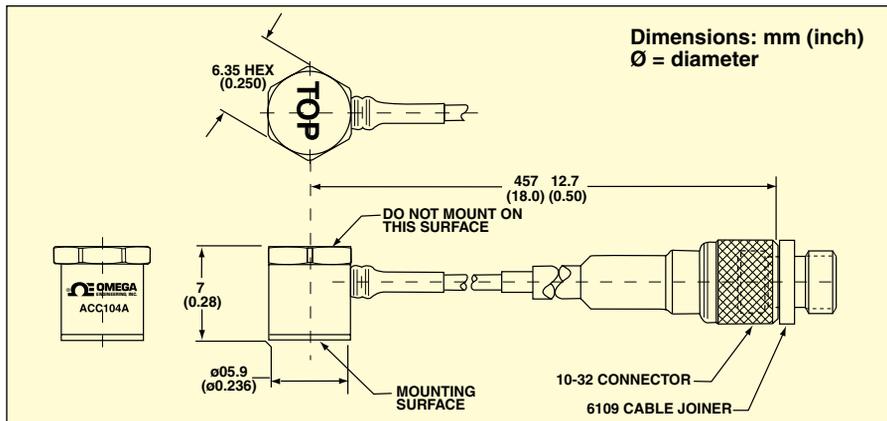
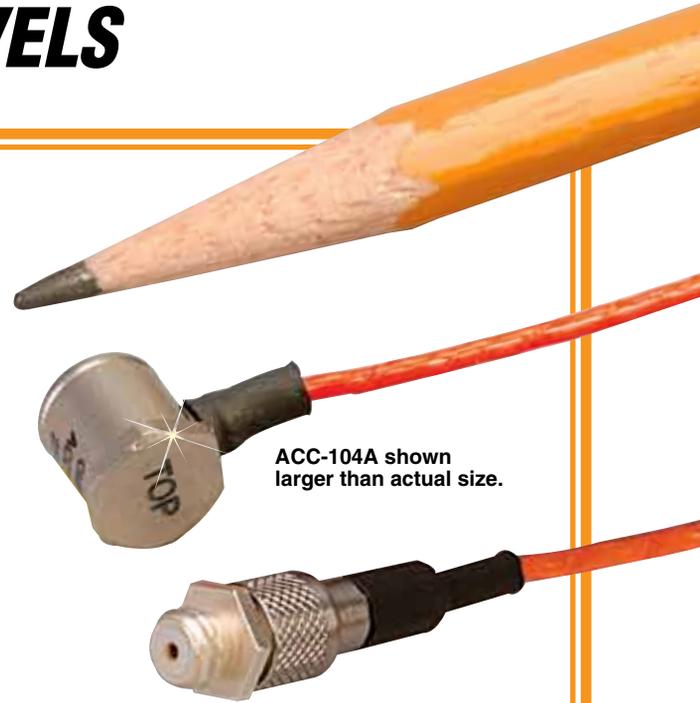
Temperature Range: -55 to 120°C (-65 to 250°F)

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°/μσ



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 Maximum: 22 cm·kg (20 in·lb)

To Order

MODEL NO.	DESCRIPTION
ACC104A	Low-mass accelerometer
ACC-CB2-10	3 m (10') coaxial cable (10-32/BNCM) required
SG496	Cold-curing rapid adhesive

Comes complete with operator's manual.

For accessories, visit us online.

Ordering Example: ACC104A, accelerometer, ACC-CB2-10, coaxial cable, ACC-PS1, power supply, ACC-CB5-2, coaxial cable.

DYNAMIC MEASUREMENT
K

DISCONTINUED