

LABORATORY ACCELEROMETER FOR HIGH VIBRATION LEVELS

10 mV/g OUTPUT TO 500 g

ACC103



Standard

- ✓ Ideal for Laboratory Shake Testing
- ✓ High Shock/Acceleration Range Up to ± 500 g
- ✓ Fast Turn-On Time (1 s)

At only 15 grams, the ACC103 laboratory accelerometer is ideal for applications in which low weight is critical, such as shake tests and vibration labs. It has a 10 mV/g output and can measure vibrations up to 500 g.

SPECIFICATIONS

Frequency Response: 1 Hz to 10 kHz (up to $\pm 10\%$ rated output shift)

Rated Output: 10 mV/g nominal @ 100 Hz

Frequency Range: 2 Hz to 10 kHz (up to $\pm 5\%$ rated output shift)

Amplitude Range: ± 500 g peak

Amplitude Linearity: $\pm 2\%$ up to 500 g peak

Temperature Range: -50 to 120°C (-60 to 250°F)

Temperature Sensitivity Effect: 0.06% FS/°F

Discharge Time Constant: 0.5 s minimum

Transverse Sensitivity: 5% of axial maximum

Strain Sensitivity: 0.001 g per microstrain @ 25°/ $\mu\sigma$

Maximum g Without Clipping: ± 1000 g

Mounted Resonance Frequency: >40 kHz

Output Impedance: 100 Ω

Bias Voltage: 10V nominal

Base Strain: 0.03 g/microstrain nominal

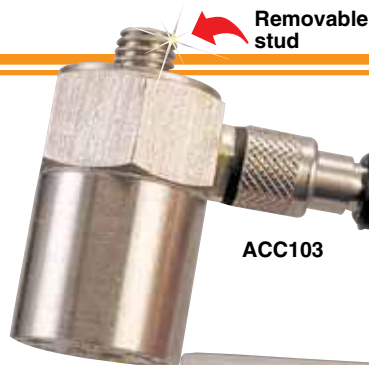
Noise Floor (Wideband): 0.007 g (rms)

Weight: 1.5 g (0.05 oz) nominal (without cable)

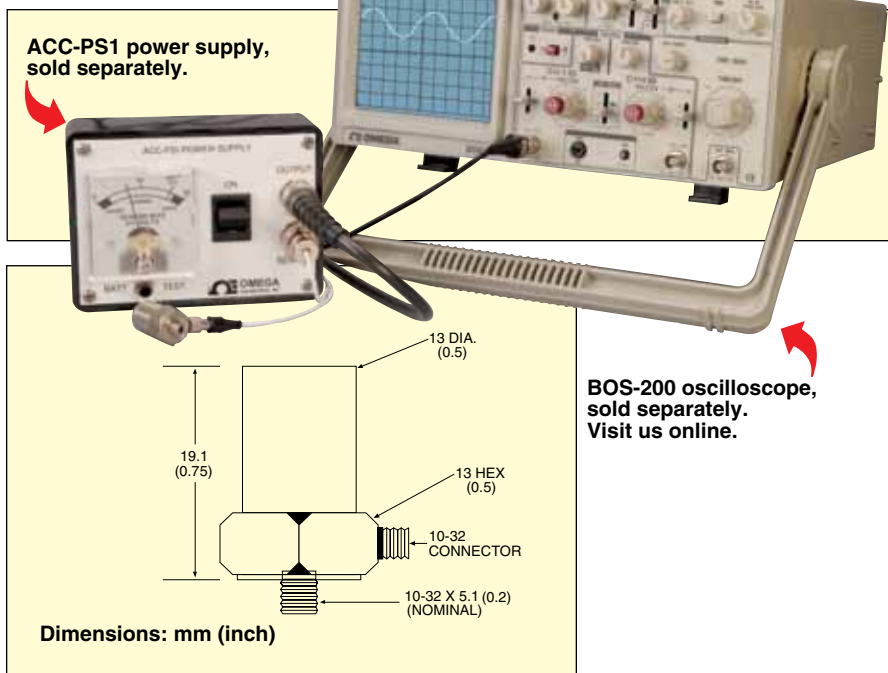
Material: Stainless steel

Dimensions: 7.11 H x 6.35 mm hex base (0.28 x 0.25")

Connector: 10-32 male, cable not included (order model no. ACC-CB2-10)



ACC103



ACC-PS1 power supply, sold separately.

BOS-200 oscilloscope, sold separately. Visit us online.

To Order

MODEL NO.	DESCRIPTION
ACC103	Accelerometer for high vibration levels
ACC-CB2-10	3 m (10') coaxial cable (10-32/BNCM) required

ACCESSORIES

MODEL NO.	DESCRIPTION
MAGNET2	Magnetic mounting base (10 lb holding force) 19.1 Dia. x 19.1 mm high (0.75 x .75")
POWER SUPPLIES	
ACC-PS1	Battery power supply/amplifier (BNCF connections)
ACC-PS2	Battery power supply/amplifier (BNCF connections)
ACC-PS3	AC power supply/amplifier (BNCF connections)
INTERFACE CABLES USED BETWEEN POWER SUPPLY AND INSTRUMENTATION	
ACC-CB4-15	4.6 m (15') coaxial cable (BNCM/BNCM)
ACC-CB5-2	0.6 m (2') coaxial cable (BNCM/banana plug)
ACC-CB6	178 mm (7") coaxial cable (BNCM/pigtail)

Comes complete with instruction sheet.

Visit us online for details on the above accessories.

Ordering Example: ACC103, accelerometer, ACC-CB2-10, coaxial cable, ACC-PS1, power supply, and ACC-CB5-2, coaxial cable.