

GENERAL PURPOSE INDUSTRIAL-GRADE ACCELEROMETERS

100 mV/g OUTPUT

ACC101



- ✓ Ideal for Machine Vibration Monitoring
- ✓ Low-Impedance Drives, Cable Lengths to 304 m (1000')
- ✓ Fast Turn-On Time (1 s)

The ACC101 accelerometer is low cost yet extremely durable. It is constructed of high-strength aluminum; has a rugged strain relief, a rugged ¼-28 stud mounting, and an epoxy seal; and uses the kind of dependable components usually found only in higher-priced accelerometers.

SPECIFICATIONS

Excitation: 2 mA nominal @ 24 to 30 Vdc, constant current (18V supply can be used but will limit amplitude range)

Rated Output: 100 mV/g nominal @ 100 Hz

Frequency Range: 3 Hz to 5 kHz (up to ±10% rated output shift)

Amplitude Range: ±70 g peak with ACC-PS1; ±80 g peak with ACC-PS2, ACC-PS3

Amplitude Linearity: ±1% up to 65 g peak

Temperature Range: -18 to 82°C (0 to 180°F)

Temperature Sensitivity Effect: -54 to 38°C (-65 to 100°F) ≤5% FS
38 to 121°C (100 to 250°F) ≤8% FS

Thermal Shock: 1.2 g/°C

Transverse Sensitivity: 5% of axial maximum

Maximum g Without Damage: 5000 g peak

Maximum g Without Clipping: ±80 g peak

Mounted Resonance Frequency: >18 kHz

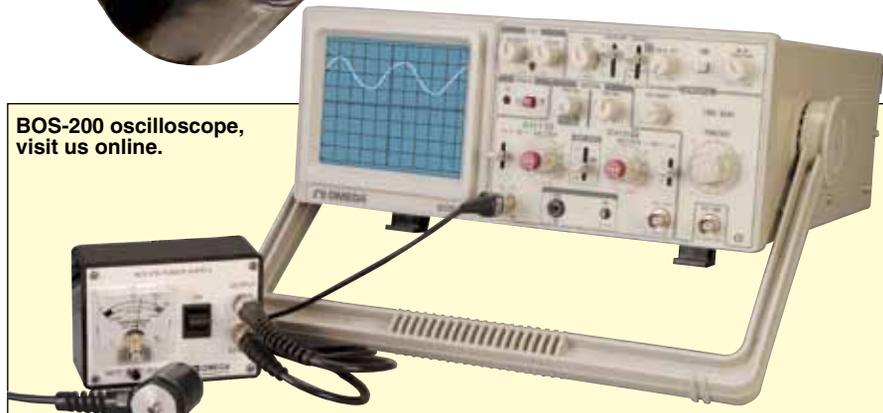
Output Impedance: 50 Ω nominal

Bias Voltage: 10V nominal

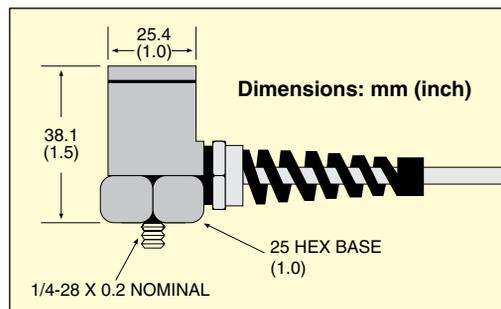


ACC-101 shown actual size.

BOS-200 oscilloscope, visit us online.



ACC-101 shown with ACC-PS1 power supply, and BOS-200 oscilloscope, both sold separately.



Dimensions: mm (inch)

Material: Aluminum; hard anodized thermal insulating boot included

Dimensions: 3.81 H x 2.54 cm (1.50 x 1.0") hex base

Connector: 2.5 m (10') integral coaxial cable with BNCM

Mounting: ¼-28 removable stud
Mounting Torque Maximum: 40 cm-kg (35 in-lb)

Base Strain: 0.002 g/microstrain max
Noise Floor (Wideband): 0.00025 g (rms)
Weight: 50 g (1.75 oz) nominal (without cable)

To Order

MODEL NO.	DESCRIPTION
ACC101	General purpose accelerometer

ACCESSORIES

MODEL NO.	DESCRIPTION
MAGNET1	Magnetic mounting base (10 lb holding force) 25.4 Dia. x 31.8 mm H (1.00 x 1.25")
POWER SUPPLIES/SIGNAL CONDITIONERS	
ACC-PS1	Battery power supply (BNCF connections)
ACC-PS2	Rechargeable power supply/amplifier (BNCF connections)
ACC-PS3	AC power supply (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 operator's manual.

Visit us online for details on the above power supplies and cables.

Ordering Example: ACC101, accelerometer, ACC-PS1, power supply, and ACC-CB5-2, coaxial cable.