

GENERAL PURPOSE INDUSTRIAL-GRADE ACCELEROMETERS

100 mV/g OUTPUT

ACC101

ACC101
\$265



- ✓ 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 1/4-28 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 (18 V 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 $\pm 10\%$ rated output shift)

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

Amplitude Linearity: $\pm 1\%$ 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) $\leq 5\%$ FS
38 to 121°C (100 to 250°F) $\leq 8\%$ 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

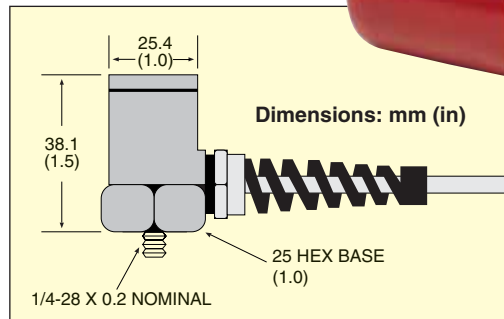
Output Impedance: 50 Ω nominal
Bias Voltage: 10 V nominal



ACC-PS1 power supply, \$195. See page K-20.

DP2000-F meter, \$310, See section D.

ACC-101, \$265, shown smaller than actual size.



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

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: 1/4-28 removable stud

Mounting Torque Max: 40 cm-kg (35 in-lb)

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

MODEL NO.	PRICE	DESCRIPTION
ACC101	\$265	General purpose accelerometer

ACCESSORIES

MODEL NO.	PRICE	DESCRIPTION
MAGNET1	\$70	Magnetic mounting base (10 lb holding force) 25.4 Dia. x 31.8 mm H (1.00 x 1.25")

POWER SUPPLIES

ACC-PS1	\$195	Battery power supply (BNC/BNC connections)
ACC-PS2	530	Battery power supply/amplifier (BNC/BNC connections)
ACC-PS3	475	AC power supply (BNC/BNC connections)

Interface cables used between power supply and instrumentation

ACC-CB4-15	\$65	4.6 m (15') coaxial cable (BNC/BNC)
ACC-CB5-2	25	0.6 m (2') coaxial cable (BNC/banana plug)
ACC-CB6	13	178 mm (7") coaxial cable (BNC/pigtail)
ME-0904	120	Reference Book: Vibration Analysis for Electronic Equipment

Note: See pages K-20 through K-22 for details on the above power supplies and cables.
Ordering Example: ACC101, accelerometer, ACC-PS1, power supply, ACC-CB5-2, coaxial cable, \$265 + 195 + 25 = \$485.

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