**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

**Material:** Aluminum; hard anodized thermal insulating boot included

**Dimensions:**
- 38.1 mm (1.5")
- 25.4 mm (1.0")
- 25 HEX BASE (1.0)

**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**

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC101</td>
<td>General purpose accelerometer</td>
</tr>
</tbody>
</table>

**ACCESSORIES**

- **MAGNET1** Magnetic mounting base (10 lb holding force) 25.4 Dia. x 31.8 mm H (1.00 x 1.25")
- **ACC-PS1** Battery power supply (BNCF connections)
- **ACC-PS2** Rechargeable power supply/amplifier (BNCF connections)
- **ACC-PS3** AC power supply (BNCF connections)

**POWER SUPPLIES/SIGNAL CONDITIONERS**

- **ACC-CB4-15** 4.6 m (15") coaxial cable (BNMC/BNMC)
- **ACC-CB5-2** 0.6 m (2") coaxial cable (BNMC/banana plug)
- **ACC-CB6** 178 mm (7") coaxial cable (BNMC/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.