OMEGA’s ACC301A triaxial accelerometer is ideal for lightweight single-point monitoring in 3 (X-Y-Z) planes. This accelerometer has a very low noise floor and a wide frequency range of up to 10 kHz. The ACC301A weighs only 13.6 g (0.48 oz), yet its titanium construction makes it very rugged.

**SPECIFICATIONS**

- **Excitation:** 2 mA nominal @ 15 to 30 Vdc, 1 to 6 mA maximum current constant
- **Sensitivity @ 100 Hz, ±5%:** 10 mV/g - 1.02 mV/(m/s²)
- **Frequency Range:**
  - ±5%: 3 Hz to 7 kHz
  - ±10%: 2 Hz to 8 kHz
  - ±3dB: 1 Hz to 10 kHz
- **Turn on Time (2% of Final Bias):** <5 seconds
- **Amplitude Range @22°C (72°F):** ±500 g
- **Mounted Resonance:** >25 kHz
- **Transverse Sensitivity:** <5%
- **Temperature Range:** -40 to 121°C (-40 to 250°F)
- **Base Strain:** 0.0005 g peak/μstrain
- **Shock Limit:** 5000 g
- **Noise Broadband 2.5 Hz to 25 kHz:** 1500 μ (rms)
- **Noise Spectral:**
  - 10 Hz: 100 μg/sqrt Hz (rms)
  - 100 Hz: 25 μg/sqrt Hz (rms)
  - 1000 Hz: 10 μg/sqrt Hz (rms)
- **Output Impedance:** 1000 Ω
- **Isolation:** Isolated, >100 Meg Ω
- **Noise Rejection (EMI/RFI):** >52 db
- **Bias Voltage:** 7 Vdc
- **Weight:** 13.6 g (0.48 oz) nominal (without cable)
- **Case Material:** Titanium
- **Design:** Isolated compression
- **Environmental Seal:** Splashproof epoxy
- **Dimensions:** 21 H x 21 W x 28 mm D (0.85 x 0.85 x 1.1”)
- **Connector:** Side 4-pin, ¼-28 female termination, cable sold separately (order Model No. ACC-CB3-6)
- **Mounting:** 10-32 removable stud
- **Mounting Torque Maximum:** 2.2 N-m (20 in-lb)

To Order

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>ACC301A</td>
<td>Triaxial accelerometer</td>
</tr>
<tr>
<td>ACC-CB3-6</td>
<td>1.8 m (6’) 4-conductor cable (male/male) <strong>required</strong></td>
</tr>
</tbody>
</table>

**Note:** The compatible meters are for single input only. For multichannel instrumentation, consult the Omega Pressure Department.

**ACCESSORIES**

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>MAGNET2</td>
<td>Magnetic mounting base (10 lb holding force)</td>
</tr>
<tr>
<td>ACC-PS4A</td>
<td>Triaxial accelerometer power supply/amplifier</td>
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<tr>
<td>ACC-CB4-15</td>
<td>4.6 m (15’) coaxial cable (BNCM/BNCM)</td>
</tr>
<tr>
<td>ACC-CB5-2</td>
<td>0.6 m (2’) coaxial cable (BNCM/banana plug)</td>
</tr>
<tr>
<td>ACC-CB6</td>
<td>178 mm (7”) coaxial cable (BNCM/pigtail)</td>
</tr>
<tr>
<td>ACC-CB3-A</td>
<td>4-pin female/female adaptor</td>
</tr>
</tbody>
</table>

Visit us online for details on the above accessories.

**Ordering Example:** ACC301A, accelerometer, ACC-CB3-6, coaxial cable, ACC-PS4A, power supply, (3) ACC-CB6, coaxial cables.