The OMEGAROMETER™ Series accelerometers are designed for industrial vibration measurements. They feature a hermetically sealed 316L SS case suitable for harsh environments. The ACC793 is a high-performance model with a top cable exit. FM and CSA intrinsic safety approval is an available option.

**SPECIFICATIONS**

**DYNAMIC**
- Sensitivity, ±5%, 25°C (77°F): 100 mV/g
- Acceleration Range: 80 g peak
- Amplitude Non-Linearity: 1%
- Frequency Response:
  - ±5%: 1.5 to 5000 Hz
  - ±10%: 1.0 to 7000 Hz
  - ±3 dB: 0.5 to 15,000 Hz
- Resonance Frequency: 25 kHz
- Transverse Sensitivity, Maximum: 5% of axial
- Temperature Response:
  - -50°C (-58°F) = -10%
  - 120°C (248°F) = 5%

**ELECTRICAL**
- Power Requirement:
  - Voltage Source: 18 to 30 Vdc
  - Current Regulating Diode: 2 to 10 mA
- Electrical Noise (Equiv. g, Nominal):
  - Broadband: 2.5 Hz to 25 kHz: 600 µg
  - Spectral: 10 Hz: 8 µg/√Hz
  - 100 Hz: 5 µg/√Hz
  - 1000 Hz: 5 µg/√Hz
- Output Impedance, Maximum: 100 Ω
- Bias Output Voltage: 12 Vdc
- Grounding: Isolated case, internally shielded

**ENVIRONMENTAL**
- Temperature Range: -50 to 120°C (-58 to 248°F)
- Vibration Limit: 500 g peak
- Base Strain Sensitivity, Maximum: 0.0005 g/μstrain
- Sealing: Hermetic to 10⁻⁸ cc/s

**PHYSICAL**
- Weight: 112 g (3.9 oz)
- Case Material: 316L SS
- Mounting: 1/4-28 tapped hole
- Output Connector: 2 pin, MIL-C-5015 style
- Connections:
  - Pin A: Power/signal
  - Pin B: Common
- Mating Connector: Amphenol 97-3106A-10SL-4S type
- Recommended Cabling: ACC-CB7-10

**Agency Approvals:**
- **FM:** Class I, II, III, Division I, Groups A, B, C, D, E, F, G; Division II, Groups A, B, C, D, F, G
- **CSA:** Class I, Division I, Groups A, B, C, D

**NOTE:** A maximum current of 6 mA is recommended for operating temperatures above 100°C (212°F).

**To Order**

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>ACC793</td>
<td>Premium accelerometer with top exit connector</td>
</tr>
<tr>
<td>ACC793-FM</td>
<td>FM-certified intrinsically safe premium accelerometer with top exit cable</td>
</tr>
<tr>
<td>ACC793-CSA</td>
<td>CSA-certified intrinsically safe premium accelerometer with top exit cable</td>
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</tbody>
</table>

ACC793 includes mounting stud and calibration data. Specify cable separately; see Accessories.

**ACCESSORIES**

<table>
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<tbody>
<tr>
<td>ACC-CB7-10</td>
<td>3.05 m (10') MIL/BNC twisted-pair shielded cable</td>
</tr>
<tr>
<td>ACC-CB7-10WP</td>
<td>3.05 m (10') waterproof twisted-pair shielded cable</td>
</tr>
<tr>
<td>ACC-B3</td>
<td>Magnetic mounting base for flat surfaces, 30 lbf</td>
</tr>
<tr>
<td>ACC-B5</td>
<td>Magnetic mounting base for curved surfaces, 30 lbf</td>
</tr>
<tr>
<td>ACC-PS2</td>
<td>Rechargeable power supply with built-in amplifier</td>
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<tr>
<td>ACC-PS3*</td>
<td>115 Vac power supply</td>
</tr>
</tbody>
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* Add suffix "-230" for 230 Vac power supply, no extra charge.

**Ordering Example:** ACC793 + ACC-CB7-10 + ACC-B3 + ACC-PS2, typical accelerometer system.