Model ED-797
TEDS premium, PiezoFET®, low profile
IsoRing accelerometer

**Dynamic**
- Sensitivity, ±5%, 25°C: 100 mV/g
- Acceleration range: 50 g peak
- Amplitude nonlinearity: 1%
- Frequency response:
  - ±5%: 2 - 7,000 Hz
  - ±10%: 1 - 12,000 Hz
- Resonance frequency: 26 kHz
- Transverse sensitivity, max.: 5% of axial
- Temperature response:
  - -50°C: -5%
  - +120°C: +5%

**Electrical**
- Power requirement: voltage source 18 - 30 VDC
- current regulating diode 2 - 10 mA
- Electrical Noise, equiv. g:
  - Broadband: 600 µg
  - Spectral: 8 µg/Hz
  - 10 Hz: 8 µg/Hz
  - 100 Hz: 5 µg/Hz
  - 1000 Hz: 5 µg/Hz
- Output impedance, max.: 100 Ω
- Bias output voltage: 12 VDC
- Grounding: case isolated, internally shielded

**Environmental**
- Temperature range: -50 to 120°C
- Vibration limit: 500 g peak
- Shock limit: 5,000 g peak
- Electromagnetic sensitivity, equiv. g:
  - Shock: 30 µg/gauss
  - Sealing: hermetic
  - Base strain sensitivity: 0.002 g/µstrain

**Physical**
- Sensing element design: PZT ceramic / shear
- Weight: 140 grams
- Case material: 316L stainless steel
- Mounting: 1/4-28 captive socket head screw
- Output connector: 2 pin, MIL-C-5015 style
- Mating connector: R6 type
- Recommended cabling: J10 / J9T2A

<table>
<thead>
<tr>
<th>Connector pin</th>
<th>Function</th>
<th>Cable conductor color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shell A</td>
<td>power/signal</td>
<td>Shield White Black</td>
</tr>
<tr>
<td>B</td>
<td>common</td>
<td></td>
</tr>
</tbody>
</table>

Notes: Temperature range is limited to -40°C to +85°C when using the IEEE 1451 - TEDS function

**Features**
- Contains transducer electronic data sheet (IEEE 1451 - TEDS)
- Self-identifying
- Rugged design
- Corrosion resistant
- Hermetic seal
- Ground isolated
- ESD protection
- Reverse wiring protection
- Mounting in any orientation

**Benefits**
- Simplifies troubleshooting
- Reduces safety risks - no more climbing on machines to verify connections
- Reduces costs for set-up and tear-down
- No need to recalibrate replacement units - data acquisition system will recalibrate itself
- Designed to integrate with wireless transmitters and receivers
  - eliminates long cables
  - reduces installation, maintenance and upgrade costs of measurement and control systems

**Technical Specifications**
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- Accessories supplied: #12105-01 captive socket head (metric studs available upon request); TEDS calibration data.