## Model 797LT
Low frequency accelerometer with temperature sensor

### Dynamic
- Sensitivity, ±5%, 25°C: 500 mV/g
- Acceleration range: 10 g peak
- Amplitude nonlinearity: 1%
- Frequency response:
  - ±5%: 0.6 - 850 Hz
  - ±10%: 0.4 - 1,500 Hz
  - ±3 dB: 0.2 - 3,700 Hz
- Resonance frequency: 18 kHz
- Transverse sensitivity, max: 7% of axial
- Temperature response:
  - −50°C: −5%
  - +120°C: +5%
- Temperature output sensitivity, ±5%: 10 mV/K
- Temperature measurement range: 223 to 390K (−50 to 120°C)

### Electrical
- Temperature sensor power requirement: voltage source 18 - 30 VDC
  - current regulating diode 2 - 4 mA
- Accelerometer power requirement: voltage source 18 - 30 VDC
  - current regulating diode 2 - 10 mA
- Electrical noise, equiv. g:
  - Broadband 2.5 Hz to 25 kHz: 12 µg
  - Spectral 2 Hz:
    - 2 Hz: 12 µg/√Hz
    - 10 Hz: 2 µg/√Hz
    - 100 Hz: 0.6 µg/√Hz
- Output impedance, max: 100 Ω
- Bias output voltage: 10 VDC
- Grounding: case isolated, internally shielded

### Environmental
- Temperature range: −50 to 120°C
- Vibration limit: 250 g peak
- Shock limit: 2,500 g peak
- Electromagnetic sensitivity, equiv. g: 5 µg/gauss
- Base strain sensitivity: 0.001 g/µstrain

### Physical
- Sensing element design: PZT ceramic / shear
- Weight: 160 grams
- Case material: 316L stainless steel
- Mounting: 1/4-28 captive socket head screw
- Output connector: 3 pin, MIL-C-5015 style
- Mating connector: R60 type

### Connections

<table>
<thead>
<tr>
<th>Connector pin</th>
<th>Function</th>
<th>Cable conductor color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shell</td>
<td>ground</td>
<td>shield</td>
</tr>
<tr>
<td>A</td>
<td>accelerometer, power / signal</td>
<td>red</td>
</tr>
<tr>
<td>B</td>
<td>accelerometer / temperature common</td>
<td>black</td>
</tr>
<tr>
<td>C</td>
<td>temperature sensor, power / signal</td>
<td>white</td>
</tr>
</tbody>
</table>

Accessories supplied: #12105-01 captive screw (International customers specify mounting requirements); calibration data (level 3).