Model ED-797V
TEDS low profile, IsoRing PiezoVelocity transducer PVT

Dynamic
- Sensitivity, ±10%, 25°C: 100 mV/in/sec
- Velocity range: 50 in/sec peak
- Amplitude nonlinearity: 1%
- Frequency response:
  - ±10%: 2.0 - 3,500 Hz
  - ±3 dB: 1.6 - 7,000 Hz
- Resonance frequency: 18 kHz
- Transverse sensitivity, max: 5% of axial
- Temperature response:
  - -50°C: -15%
  - +120°C: +10%

Electrical
- Power requirement: voltage source: 18 - 30 VDC
  - current regulating diode: 2 - 10 mA
- Electrical noise, equiv. in/sec:
  - Broadband: 100 μin/sec
  - Spectral: 10 μin/sec
- Shock limit: 2,500 g peak
- Electromagnetic sensitivity, equiv. in/sec: 50 μin/sec/ gauss
- Sealing: Hermetic
- Base strain sensitivity: 0.004 in/sec/μstrain

Environmental
- Temperature range: -50 to 120°C
- Vibration limit: 250 g peak
- Shock limit: 2,500 g peak
- Electromagnetic sensitivity, equiv. in/sec: 50 μin/sec/ gauss
- Sealing: Hermetic
- Temperature range is limited to -40°C to +85°C when using the IEEE 1451 - TEDS function
- Grounding: case isolated, internally shielded

Physical
- Sensing element design: PZT ceramic / shear
- Weight: 153 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 cable: J9T2A

Notes:
- Temperature range is limited to -40°C to +85°C when using the IEEE 1451 - TEDS function
- Accessories supplied: #12105-01 captive socket head (International customers specify mounting requirements); TEDS calibration data

Features
- Contains Transducer Electronic Data Sheet (IEEE 1451 - TEDS)
- Self-identifying
- Rugged design
- Internally integrated to velocity
- Eliminates distortion caused by high frequency signals
- Corrosion resistant
- ESD protection
- Reverse wiring protection
- Mounts 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