Model ED-786A
TEDS general purpose accelerometer

Dynamic
- Sensitivity, ±5%, 25°C: 100 mV/g
- Acceleration range: 80 g peak
- Amplitude nonlinearity: 1%
- Frequency response:
  - ±5%: 3 - 5,000 Hz
  - ±10%: 1 - 9,000 Hz
  - ±3 dB: 0.5 - 14,000 Hz
- Resonance frequency: 30 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: 2.5 Hz to 25 kHz: 700 µg
  - Spectral: 10 Hz: 10 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, max.: 70 µg/gauss
- Sealing: Hermetic
- Base strain sensitivity, max.: 0.0002 g/µstrain

Physical
- Sensing element design: PZT ceramic / shear
- Weight: 95 grams
- Case material: 316L stainless steel
- Mounting: 1/4 - 28 UNF tapped hole
- Output connector: 2 pin, MIL-C-5015 style
- Mating connector: R6 type
- Recommended cabling: J10 / J9T2A

Features
- Contains transducer electronic data sheet (IEEE 1451 - TEDS)
- Self-identifying
- Corrosion resistant
- Ground isolated
- Rugged design
- ESD protection
- Reverse wiring protection

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

Notes: Temperature range is limited to -40°C to +85°C when using the IEEE 1451 - TEDS function.
Accessories supplied: SF6 mounting stud (International customers specify mounting requirements); TEDS calibration data