

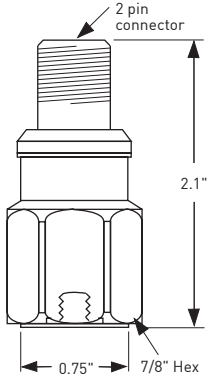


**Model ED-786A**  
**TEDS general purpose accelerometer**



**Features**

- Contains transducer electronic data sheet (IEEE 1451 - TEDS)
- Self-identifying
- Corrosion resistant
- Ground isolated
- Rugged design
- Hermetic seal
- 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

**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 <sup>1</sup> .....	-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

Connector pin	Function
Shell	ground
A	power/ signal
B	common

Notes: <sup>1</sup>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

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