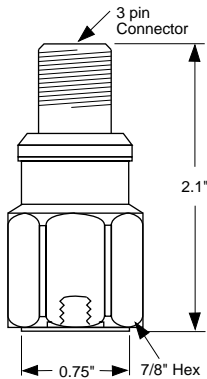


Model 786T

General Purpose Accelerometer with Internal Temperature Sensor

FEATURES:

- Measures both acceleration and temperature
- Rugged design
- Corrosion resistant
- Hermetic seal
- Case isolated
- ESD protection
- Reverse wiring protection



DYNAMIC

Sensitivity, $\pm 5\%$, 25°C	100 mV/g
Acceleration Range	60 g peak
Amplitude Nonlinearity	1%
Frequency Response:	
$\pm 5\%$	3 - 5,000 Hz
$\pm 10\%$	1 - 7,000 Hz
± 3 dB	0.5 - 12,000 Hz
Resonance Frequency	30 kHz
Transverse Sensitivity, max	5% of axial
Temperature Response	-50°C -10%
	+120°C +6%
Temperature Output Sensitivity, $\pm 1.5^\circ\text{C}$	10 mV/ $^\circ\text{C}$
Temperature Measurement Range	+2°C to +120°C

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 $\mu\text{g}/\text{Hz}$
100 Hz	5 $\mu\text{g}/\text{Hz}$
1000 Hz	5 $\mu\text{g}/\text{Hz}$
Output Impedance, max.	100 Ω
Bias Output Voltage, nom.	10 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 $\mu\text{g}/\text{gauss}$
Sealing	Hermetic
Base Strain Sensitivity, max.	0.0002 g/ μstrain

PHYSICAL

Sensing Element Design	PZT ceramic / shear
Weight	90 grams
Case Material	316L stainless steel
Mounting	1/4 - 28 UNF tapped hole
Output Connector	3 pin, MIL-C-5015 style
Mating Connector	R6G
Recommended Cabling	J9T4

CONNECTOR PIN	FUNCTION
SHELL	ground
A	accelerometer power/ signal
B	accelerometer common
C	temperature sensor signal

ACCESSORIES SUPPLIED: SF6 mounting stud (International customers specify mounting requirements); Calibration data (level 2).

