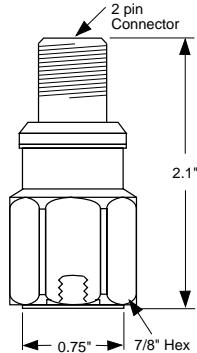


**FEATURES:**

- Rugged design
- Corrosion resistant
- Hermetic seal
- Case isolated
- ESD protection
- Reverse wiring protection

**Model 786A****General Purpose Accelerometer****DYNAMIC**

Sensitivity, $\pm 5\%$ , $25^\circ\text{C}$ .....	100 mV/g
Acceleration Range .....	80 g peak
Amplitude Nonlinearity .....	1%
Frequency Response:	
$\pm 5\%$ .....	3 - 5,000 Hz
$\pm 10\%$ .....	1 - 9,000 Hz
$\pm 3 \text{ dB}$ .....	0.5 - 14,000 Hz
Resonance Frequency .....	30 kHz
Transverse Sensitivity, max .....	5% of axial
Temperature Response .....	$-50^\circ\text{C}$ $-5\%$ $+120^\circ\text{C}$ $+5\%$

**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 $\mu\text{g}$
Spectral     10 Hz .....	10 $\mu\text{g}/\sqrt{\text{Hz}}$
100 Hz .....	5 $\mu\text{g}/\sqrt{\text{Hz}}$
1000 Hz .....	5 $\mu\text{g}/\sqrt{\text{Hz}}$
Output Impedance, max .....	100 $\Omega$
Bias Output Voltage .....	12 VDC
Grounding .....	case isolated, internally shielded

**ENVIRONMENTAL**

Temperature Range .....	-50 to $120^\circ\text{C}$
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/ $\mu\text{strain}$

**PHYSICAL**

Sensing Element Design .....	PZT ceramic / shear
Weight .....	90 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 SHELL	FUNCTION
A	ground
B	power/ signal common

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



Due to continued research and development, Wilcoxon Research reserves the right to amend this specification without notice.

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