



# Model 784A General purpose accelerometer



### Features

- Corrosion resistant
- Hermetic seal
- Ground isolated
- ESD protection
- Reverse wiring protection
- High performance to cost ratio

### Dynamic

Sensitivity, ±20%, 25°C.....	100 mV/g
Acceleration range .....	50 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
±10% .....	4 - 7,000 Hz
±3 dB .....	2 - 10,000 Hz
Resonance frequency .....	25 kHz
Transverse sensitivity, max.....	3% of axial
Temperature response:	
-50°C.....	-7%
+120°C.....	+7%

### 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.....		230 µg
Spectral 10 Hz.....		16 µg/√Hz
100 Hz.....		4 µg/√Hz
1000 Hz.....		1.3 µg/√Hz
Output impedance, max. ....		100 Ω
Bias output voltage.....		12 VDC
Grounding.....		case isolated, internally shielded

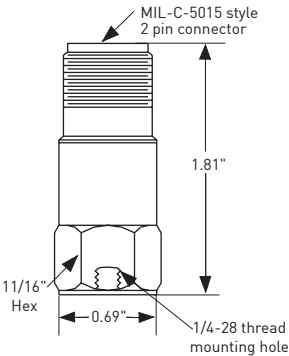
### Environmental

Temperature range .....	-50 to 120°C
Vibration limit.....	500 g
Shock limit, min. ....	5,000 g
Electromagnetic sensitivity, equiv. g, max . ....	50 µg/gauss
Sealing .....	hermetic
Base strain sensitivity, max .....	0.0004 g/µstrain

### Physical

Sensing element design.....	PZT ceramic / flexure
Weight .....	45 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	Cable conductor color
Shell	ground	shield
A	power/signal	white
B	common	black



Accessories supplied:SF6 mounting stud (International customers specify mounting requirements); calibration data (level 2)

Wilcoxon Research Inc  
21 Firstfield Rd  
Gaithersburg, MD 20878  
USA

Tel: 301 330 8811  
Fax: 301 330 8873  
Email: sensors@wilcoxon.com

www.meggitt.com

