

# Model 784A

## Economy, 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

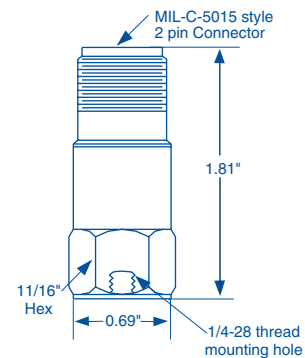
### ENVIRONMENTAL

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, but not R6SL
Recommended Cabling .....	J10 / J9T2A

CONNECTOR PIN	FUNCTION
SHELL	ground
A	power/signal
B	common



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

