

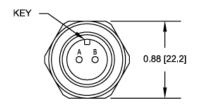
General purpose accelerometer

786A

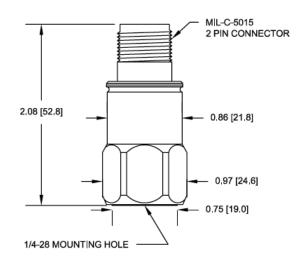


The top-exit Wilcoxon 100 mV/g broadband sensor provides long-lasting reliability with MTBF 25 years. The general purpose accelerometer is ideal for monitoring machine vibration on a wide range of rotating equipment such as motors, pumps, fans, compressors, turbines and generators. The 316L stainless steel casing provides rugged durability for most extreme environments. The sensing element is housed in a case-isolated Faraday shield, providing maximum protection from ground loops and RF interference. Certified versions are available for use in hazardous areas.

786A series models		
Model	Description	
786A-IS	Certified for Class I Div 1 areas	
786A-D2	Certified for Class I Div 2 areas	



Connections			
Function	Connector pin		
power/signal	Α		
common	В		
ground	shell		



Key features

- · Case isolated
- Hermetically sealed
- ESD-protected
- EMI/RFI shielded
- Reverse wiring protection
- Manufactured in an approved ISO 9001 facility
- API 670 compliant

Certifications



Optional certified versions available for use in hazardous areas

- Class I Div 1 (Zone 0/1)
- Class I Div 2 (Zone 2)





Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.

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General purpose accelerometer

786A

SPECIFICATIONS

Sensitivity, ±5%, 25°C		100 mV/g
Acceleration range, VDC > 25 V		80 g peak
Amplitude nonlinearity		1%
Frequency response:	±5% ±10% ±3 dB	3 - 5,000 Hz 1 - 9,000 Hz 0.5 - 14,000 Hz
Resonance frequency		30 kHz
Transverse sensitivity, max		5% of axial
Temperature response:	−55°C +120°C	–20% +10%
Power requirement: Voltage source Current regulating diode		18 - 30 VDC 2 - 10 mA
Electrical noise, equiv. g: Broadband 2.5 Hz Spectral	z to 25 kHz 10 Hz 100 Hz 1,000 Hz	700 μg 10 μg/√Hz 5 μg/√Hz 5 μg/√Hz
Output impedance, max		100 Ω
Bias output voltage		12 VDC
Grounding		case isolated, internally shielded
Temperature range		–55° 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
Sensing element design		PZT, shear
Weight		90 grams
Case material		316L stainless steel
Mounting		1/4-28 UNF tapped hole
Mating connector		MIL-5015 style
Recommended cabling		J10 / J9T2A

Contact

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Accessories supplied:

- Calibration data (level 2)
- SF6 mounting stud

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