

# General purpose accelerometer

## 786A

### SPECIFICATIONS

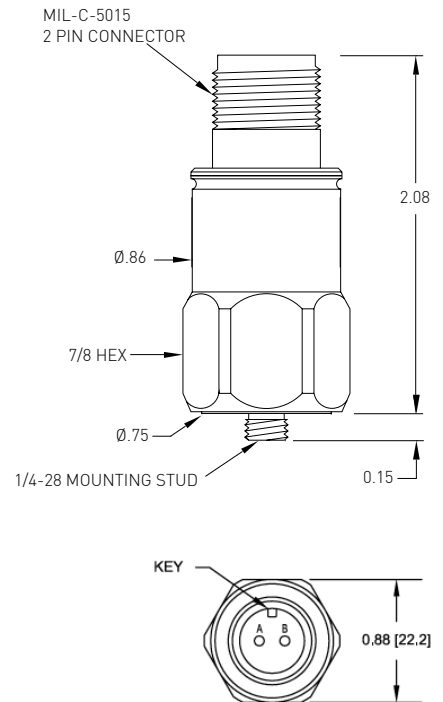
<b>Sensitivity, ±5%, 25°C</b>		100 mV/g
<b>Acceleration range, VDC &gt; 25 V</b>		80 g peak
<b>Amplitude nonlinearity</b>		1%
<b>Frequency response:</b>	<b>±5%</b>	3 - 5,000 Hz
	<b>±10%</b>	1 - 9,000 Hz
	<b>±3 dB</b>	0.5 - 14,000 Hz
<b>Resonance frequency</b>		30 kHz
<b>Transverse sensitivity, max</b>		5% of axial
<b>Temperature response:</b>	<b>-55°C</b>	-20%
	<b>+120°C</b>	+10%
<b>Power requirement:</b>		
Voltage source		18 - 30 VDC
Current regulating diode		2 - 10 mA
<b>Electrical noise, equiv. g:</b>		
Broadband	2.5 Hz to 25 kHz	700 µg
	10 Hz	10 µg/√Hz
	100 Hz	5 µg/√Hz
	1,000 Hz	5 µg/√Hz
<b>Output impedance, max</b>		100 Ω
<b>Bias output voltage</b>		12 VDC
<b>Grounding</b>		case isolated, internally shielded
<b>Temperature range</b>		-55° to +120°C
<b>Vibration limit</b>		500 g peak
<b>Shock limit</b>		5,000 g peak
<b>Electromagnetic sensitivity, equiv. g, max</b>		70 µg/gauss
<b>Sealing</b>		hermetic
<b>Base strain sensitivity, max</b>		0.0002 g/µstrain
<b>Sensing element design</b>		PZT, shear
<b>Weight</b>		90 grams
<b>Case material</b>		316L stainless steel
<b>Mounting</b>		1/4-28 UNF tapped hole
<b>Mating connector</b>		MIL-5015 style
<b>Recommended cabling</b>		J10 / J9T2A

Accessories supplied: SF6 mounting stud; calibration data (level 2)



### Key features

- MTBF 25 years
- Certified versions available for use in hazardous areas
- API 670 compliant
- Manufactured in ISO 9001 facility



Optional certified versions available for use in hazardous areas:  
 - Class I Div 1 (Zone 0/1)  
 - Class I Div 2 (Zone 2)



Connections	
Function	Connector pin
power/signal	A
common	B
ground	shell

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