

# High temperature accelerometer

## HT786A

### SPECIFICATIONS

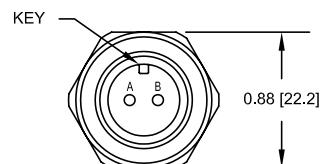
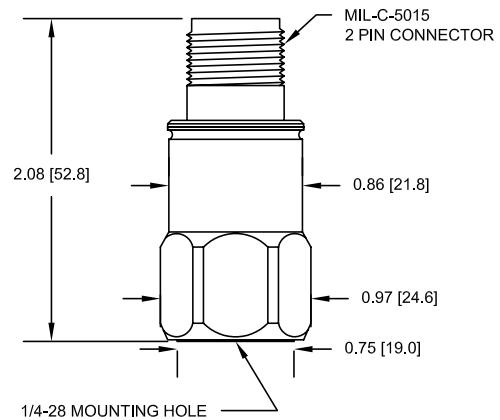
Sensitivity, $\pm 5\%$ , 25°C	100 mV/g
Acceleration range, VDC > 25 V	80 g peak
Amplitude nonlinearity	1%
Frequency response:	$\pm 5\%$ 3 - 5,000 Hz $\pm 10\%$ 1 - 9,000 Hz $\pm 3$ dB 0.5 - 14,000 Hz
Resonance frequency, nominal	30 kHz
Transverse sensitivity, max	5% of axial
Temperature response:	$-25^\circ\text{C}$ $-10\%$ $+150^\circ\text{C}$ $+15\%$
Power requirement:	
Voltage source	18 - 30 VDC
Current regulating diode	2 - 10 mA
Electrical noise, equiv. g:	$25^\circ\text{C}$ $150^\circ\text{C}$ Broadband 2.5 Hz to 25 kHz 700 $\mu\text{g}$ 1,100 $\mu\text{g}$ Spectral 10 Hz 10 $\mu\text{g}/\sqrt{\text{Hz}}$ 14 $\mu\text{g}/\sqrt{\text{Hz}}$ 100 Hz 5 $\mu\text{g}/\sqrt{\text{Hz}}$ 7 $\mu\text{g}/\sqrt{\text{Hz}}$ 1,000 Hz 5 $\mu\text{g}/\sqrt{\text{Hz}}$ 7 $\mu\text{g}/\sqrt{\text{Hz}}$
Output impedance, max	100 $\Omega$
Bias output voltage:	$+25^\circ\text{C}$ 13 VDC $+150^\circ\text{C}$ 12 VDC
Grounding	case isolated, internally shielded
Temperature range	-50° to +150°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/ $\mu\text{strain}$
Sensing element design	PZT, shear
Weight	90 grams
Case material	316L stainless steel
Mounting	1/4-28 UNF tapped hole
Output connector	2 pin, MIL-C-5015 style

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



### Key features

- 150°C operation
- Built with extended range components for long-lasting operation
- Manufactured in ISO 9001 facility



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.

Wilcoxon Sensing Technologies  
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