

High temperature general purpose accelerometer HT786A



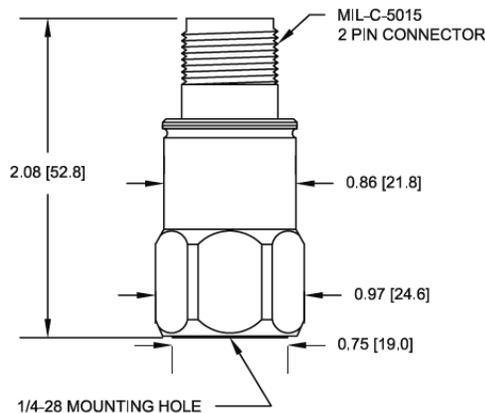
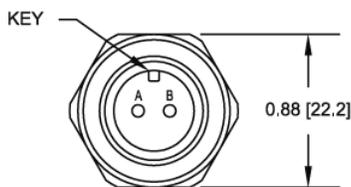
Key features

- Hermetically sealed
- ESD-protected
- Reverse wiring protection
- Manufactured in an approved ISO 9001 facility

For applications in which extremely high temperature operation is needed, Wilcoxon offers the HT series of accelerometers. Dryer sections of a paper machine regularly create conditions up to 150° C. Vibration monitoring sensors must be capable of operating continuously in hot environments without degradation. HT series sensors are built with extended range components that are manufactured to withstand high temperatures for long periods of time without failing.

The top-exit HT786A 100 mV/g broadband sensor operates at high temperatures for monitoring machine vibration on a wide range of rotating equipment such as motors, pumps, fans, compressors, turbines and generators. The 316L stainless steel case 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.

Certifications



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.

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Wilcoxon Sensing Technologies
An Amphenol Company

High temperature general purpose accelerometer

HT786A

SPECIFICATIONS

Sensitivity, $\pm 5\%$, 25° C		100 mV/g	
Acceleration range, VDC > 25V		80 g peak	
Amplitude nonlinearity		1%	
Frequency response	$\pm 5\%$	3 - 5,000 Hz	
	$\pm 10\%$	1 - 9,000 Hz	
	± 3 dB	0.5 - 14,000 Hz	
Resonance frequency, nominal		30 kHz	
Transverse sensitivity, max		5% of axial	
Temperature response	-25° C	-10%	
	+150° C	+15%	
Voltage source		18 - 30 VDC	
Current regulating diode		2 - 10 mA	
Electrical noise, equiv. g	Broadband	25° C	150° C
	2.5 Hz to 25 kHz	700 μ g	1100 μ g
	Spectral	10 μ g/ \sqrt Hz	14 μ g/ \sqrt Hz
	10 Hz	5 μ g/ \sqrt Hz	7 μ g/ \sqrt Hz
	100 Hz	5 μ g/ \sqrt Hz	7 μ g/ \sqrt Hz
	1,000 Hz	5 μ g/ \sqrt Hz	7 μ g/ \sqrt Hz
Output impedance, max		100 Ω	
Bias output voltage	+25° C	13 VDC	
	+150° 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 μ g/gauss	
Sealing		hermetic	
Base strain sensitivity, max		0.0002 g/ μ strain	
Sensing element design		PZT, shear	
Weight		90 grams	
Case material		316L stainless steel	
Mounting		1/4-28 UNF tapped hole	
Mating connector		2-pin, MIL-5015 style	

Contact

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Accessories supplied:

- Calibration data (level 2)
- SF6 mounting stud (metric mounting available)

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