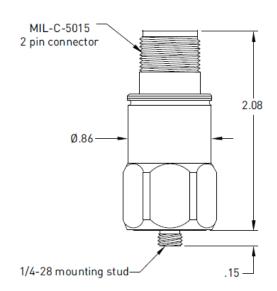
Intrinsically safe certified accelerometer

786A-IS







Connections		
Function	Connector pin	Cable conductor color
power/signal	Α	white
common	В	black
ground	shell	shield

Key features

- Hazardous area certified - intrinsically safe
- · Corrosion resistant
- Hermetically sealed
- Case isolated
- ESD-protected
- Reverse wiring protection
- Manufactured in an approved ISO 9001 facility

Certifications



Class I, Div 1 Groups A, B, C, D Class I, Div 1 Groups E, F, G Class III, Div 1 Class I, Zone 0 Ex ia IIC T4

Class I, Zone 0 AEx ia IIC T4



Ga Ex ia IIC T4





For hazardous area locations, sensor must be installed in accordance with installation instructions or local code requirements. Electrical safety barrier required for hazardous area installations



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

Wilcoxon Sensing Technologies 20511 Seneca Meadows Parkway Germantown, MD 20876 info@wilcoxon.com

Tel: (301) 330 8811 Fax: (301) 330 8873 www.wilcoxon.com Wilcoxon Sensing Technologies
An Amphenol Company

Intrinsically safe certified accelerometer

Wilcoxon SENSING TECHNOLOGIES

786A-IS

SPECIFICATIONS

Sensitivity, ±5%, 25° C		100 mV/g
Acceleration range		80 g peak
Amplitude nonlinearity		1%
_	± 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
	25° C 20° C	–10% +10%
Power requirement: Voltage source Current regulating diode		18 - 28 VDC 2 - 10 mA
10	5 kHz 10 Hz 00 Hz 00 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		–50 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 ceramic / shear
Weight		90 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
Recommended cabling		J10 / J9T2A

Contact

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Accessories supplied:

- Calibration data (level 2)
- SF6 mounting stud (international customers specify mounting requirements)

Optional accessories available:

ISBS-STD-08: MTL 7728 + safety barrier

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