Intrinsically safe certified accelerometer 786A-IS

SPECIFICATIONS

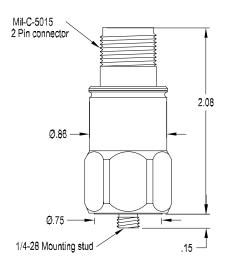
Sensitivity, ±5%, 25°C	100 mV/g	
Acceleration range	80 g peak	
Amplitude nonlinearity	1%	
Frequency response: ±5% ±10% ±3 dB	3 - 5,000 Hz 1 - 9,000 Hz 0.5 - 14,000 Hz	
Resonance frequency	30 kHz	
Transverse sensitivity, max	5% of axial	
Temperature response: -55°C +120°C	–20% +10%	
Power requirement: Voltage source Current regulating diode	18 - 28 VDC 2 - 10 mA	
Electrical noise, equiv. g: Broadband 2.5 Hz to 25 kHz Spectral 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 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	
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WILCOXDI THESE ARC MUNICIPACITY MODEL 786A-15 SN:66906

SENSING TECHNOLOGIES

Key features

- Hazardous area certified intrinsically safe
- MTBF 25 years
- API 670 compliant
- Manufactured in ISO 9001 facility



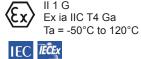
Connections		
Function	Connector pin	Cable conductor color
power/signal	A	white
common	В	black
ground	shell	shield

Accessories supplied: SF6 mounting stud; calibration data (level 2) Optional accessories available: ISBS-STD-08: MTL 7728 + safety barrier

Certifications



Class I, Div 1 Groups A, B, C, D Class II, Div 1 Groups E, F, G Class III Class I Zone 0 AEx/Ex ia IIC T4 Ta = -50°C to 120°C



Must be installed per document 12879. For application in explosive atmospheres caused by gases, vapours or mists and where the use of apparatus of category 1G is required, electrostatic charges on the cable and non-metallic parts of the enclosure shall be avoided. The ambient temperature range for these applications is -40°C to +80°C.

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

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