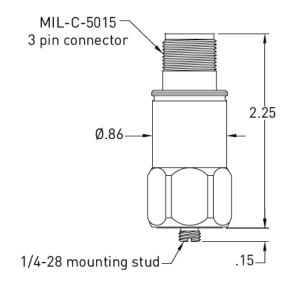
Intrinsically safe certified accelerometer with internal temperature sensor 786T-IS





Connections		
Function	Connector pin	Color
ground / case	shell	
accel power / signal	A	red
accel and sensor common	В	black
sensor signal	С	white

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

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Key features

- Hazardous area certified - intrinsically safe
- Measures both acceleration and temperature
- Rugged design
- Corrosion resistant
- · Hermetically sealed
- Case isolated
- ESD-protected
- Reverse wiring
 protection

Certifications



Class I, Div 1 Groups A, B, C, D Class II, 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



ICO TOP

IEC IECEx

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.

CE

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Intrinsically safe certified accelerometer with internal temperature sensor 786T-IS

SPECIFICATIONS

Sensitivity, ±5%, 25° C	100 mV/g	
Acceleration range	60 g peak	
Amplitude nonlinearity	1%	
Frequency response: ± 5% ± 10% ± 3 dB	3 - 5,000 Hz 1 - 7,000 Hz 0.5 - 12,000 Hz	
Resonance frequency	30 kHz	
Transverse sensitivity, max	5% of axial	
Temperature response: -50° C +120° C Temperature sensor: Output sensitivity	-10% +10% 10 mV/°C	
Measurement range	2 to 120° C (36 to 248° F)	
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, nominal	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	3-pin, MIL-C-5015 style	
Mating connector	R6G	

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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