Intrinsically safe dual output sensor 786T-IS

SPECIFICATIONS	
Sensitivity, ±5%, 25°C	100 mV/g
Acceleration range	60 g peak
Amplitude nonlinearity	1%
Frequency response: ±5 ±10 ±3 c	% 1 - 7,000 Hz
Resonance frequency	30 kHz
Transverse sensitivity, max	5% of axial
Temperature response: -50° +120°	
Temperature sensor: Output sensitivi Measurement rang	
Power requirement: Voltage sourc Current regulating diod	
Electrical noise, equiv. g: Broadband 2.5 Hz to 25 kH Spectral 10 H 100 H 1,000 H	Hz 10 μg/√Hz 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, i	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
Recommended cabling	J9T3A

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.

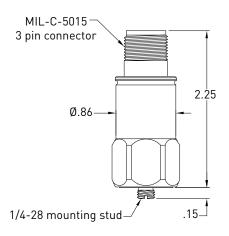
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Key features

- Accelerometer with internal temperature sensor
- · Intrinsically safe certified
- Manufactured in ISO 9001 facility



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

Connections	
Function	Connector pin / color
accelerometer power/signal	A / red
accelerometer and temp sensor common	B / black
temp sensor signal	C / white
ground/case	shell

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