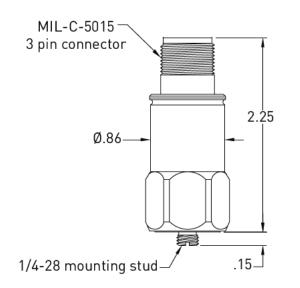
# Class I Div 2 (Zone 2) certified accelerometer with internal temperature sensor

# 786T-D2





Connections	
Function	Connector pin
ground / case	shell
accel power / signal	A
accel and temp sensor common	В
sensor signal	С

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

- Measures both acceleration and temperature
- Certified for use in Class I Div 2/Zone 2 hazardous areas
- Rugged design
- Corrosion resistant
- · Hermetically sealed
- Case isolated
- ESD-protected
- Reverse wiring
  protection

#### Certifications



Class I, Div 2 Groups A, B, C, D



Class I, Zone 2 Ex nA II T4 Ta=120°C

For hazardous area locations, sensor must be installed in accordance with installation instructions or local code requirements.

CE

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98983 Rev. B 08/17

## Class I Div 2 (Zone 2) certified accelerometer with internal temperature sensor



# 786T-D2

### **SPECIFICATIONS**

Sensitivity, ±5%, 25° C	100 mV/g	
Acceleration range, VDC > 25 V	80 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: –25° C +120° C	-10% +10%	
Temperature sensor: Output sensitivity Measurement range	10 mV/°C 2 to 120° C (36 to 248° F)	
Power requirement: Voltage source Current regulating diode	18 - 30 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 / 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	
0		

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#### Contact

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#### Accessories supplied:

• Calibration data (level 2)

• SF6 mounting stud (international customers specify mounting requirements)