# Intrinsically safe low-frequency accelerometer

## 786-500-IS

#### **SPECIFICATIONS**

	500 mV/g
	10 g peak
	1%
±5% ±10% ±3 dB	0.7 - 5,000 Hz 0.5 - 9,000 Hz 0.2 - 14,000 Hz
	30 kHz
	5% of axial
–20°C +120°C	-10% +10%
	18 - 30 VDC 2 - 10 mA
25 kHz 10 Hz 100 Hz 1,000 Hz	250 μg 2.5 μg/√Hz 1.5 μg/√Hz 1.5 μg/√Hz
	100 Ω
	12 VDC
	case isolated, internally shielded
	–50° to +120°C
	500 g peak
	5,000 g peak
iv. g, max	70 μg/gauss
	hermetic
	0.0002 g/µstrain
	PZT, shear
	90 grams
	316L stainless steel
	1/4-28 captive hex head screw, 0.046" diameter safety wire hole
	2 pin, MIL-5015 style
	R6 type
	±10% ±3 dB -20°C +120°C 25 kHz 10 Hz 100 Hz 100 Hz

**Notes:** <sup>1</sup> Frequency response limits, spectral and noise values are typical. **Accessories supplied:** 1/4-28 captive hex head screw; calibration data (level 2)

#### 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

IC T4



II 1 G

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  $-40^{\circ}$ C to  $+80^{\circ}$ 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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CE

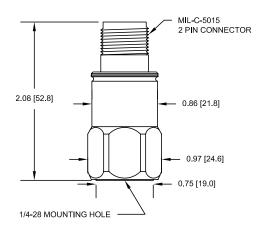
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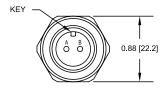




#### Key features

- Class I, Div 1/Zone 0/1 certified intrinsically safe
- High sensitivity
- Extended low frequency response
- Manufactured in ISO 9001 facility





Connections	
Function	Connector pin
power/signal	A
common	В
ground	shell

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