## Class I Div 2 certified low-frequency accelerometer

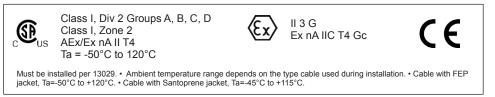
# 786-500-D2

### **SPECIFICATIONS**

Sensitivity, ±5%, 25°C	500 mV/g
Acceleration range, VDC > 22 V	10 g peak
Amplitude nonlinearity	1%
Frequency response <sup>1</sup> : ±5%	% 0.7 - 5,000 Hz
±10	
±3 d	
Resonance frequency	30 kHz
Transverse sensitivity, max	5% of axial
Temperature response: -50°	
+120°	<b>C</b> +10%
Power requirement:	
Voltage source Current regulating diode	18 - 30 VDC 2 - 10 mA
Electrical noise, equiv. g:	2 - 10 11A
Broadband 2.5 Hz to 25 kH	lz 250 μg
Spectral 10 H	
100 H	<b>Iz</b> 1.5 μg/√Hz
1,000 H	<b>Iz</b> 1.5 μg/√Hz
Output impedance, max	100 Ω
Bias output voltage	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, n	nax 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	2 pin, MIL-C-5015 style
Recommended cabling	J10 / J9T2A

**Notes:** <sup>1</sup> Frequency response limits, spectral and noise values are typical. **Accessories supplied:** SF6 mounting stud; calibration data (level 2)

#### Certifications



ConnectionsFunctionConnector pinpower/signalAcommonBgroundshell

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

- Class I, Div 2/Zone 2 certified non-incendive
- High sensitivity
- Extended low frequency response
- Manufactured in ISO 9001 facility

