# Intrinsically safe low-frequency accelerometer

## 786-500-IS

### SPECIFICATIONS

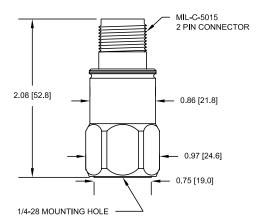
Sensitivity, ±5%, 25°C	500 mV/g
Acceleration range, VDC > 22 V	10 g peak
Amplitude nonlinearity	1%
Frequency response <sup>1</sup> : ±5% ±10%	0.5 - 9,000 Hz
±3 dE	3 0.2 - 14,000 Hz 30 kHz
Resonance frequency	5% of axial
Transverse sensitivity, max	-
Temperature response: -20°C +120°C	
Power requirement: 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	z 2.5 µg/√Hz z 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, m	ax 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-5015 style
Mating connector	R6 type
Recommended cabling	J10 / J9T2A, <100 ft.

RE WILCOXON Bernstrow, MD Usa KODEL 786-500 SN: 10292

SENSING TECHNOLOGIES

#### Key features

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



KEY 0.88 [22.2]

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

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



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.

Wilcoxon Sensing Technologies An Amphenol Company 99166 Rev.B3 06/23 8435 Progress Drive Frederick, MD 21701 USA Tel: +1 (301) 330-8811 Fax: +1 (301) 330-8873

CE

info@wilcoxon.com www.wilcoxon.com