# Intrinsically safe low-frequency accelerometer

# 786-500-IS

## SPECIFICATIONS

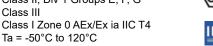
Sensitivity, ±5%, 25°C	500 mV/g
Acceleration range, VDC > 22 V	10 g peak
Amplitude nonlinearity	1%
±10	
±30	
Resonance frequency	30 kHz
Transverse sensitivity, max	5% of axial
Temperature response: -20	)° <b>C</b> −10%
+120	P° <b>C</b> +10%
Power requirement:	
Voltage source	18 - 30 VDC
Current regulating diode	2 - 10 mA
Electrical noise, equiv. g:	
Broadband 2.5 Hz to 25 k	
Spectral 10	
100 1,000	
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,	
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	J9T2B
-	

**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



Must be installed per document 12879. For application in explosive atmospheres caused by cases, 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.B4 03/25

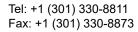
8435 Progress Drive Frederick, MD 21701 USA

II 1 G

**IECEx** 

Ex ia IIC T4 Ga

Ta = -50°C to 120°C



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### **Key features**

Danetech srl 📖 🛞

Via Italo Calvino 7 Lotto 1 - Edificio A13-14

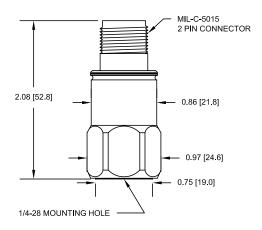
20017 Rho (MI)

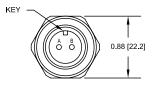
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info@danetech.it

www.danetech.it

- 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

info@wilcoxon.com www.wilcoxon.com

