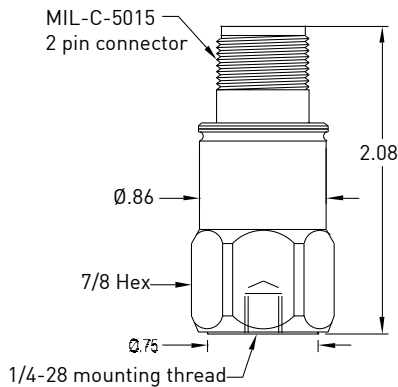


Wilcoxon Research model 786A-D2 Class I Division 2 certified accelerometer



Features

- Hazardous area certified-non incensive
- Corrosion resistant
- Hermetic seal
- Case isolated
- ESD protection
- Reverse wiring protection
- CSA certified for Class I, Division 2 hazardous areas
- KEMA certified for Class I, Zone 2 hazardous areas



Dynamic

Sensitivity, $\pm 5\%$, 25° C.....	100 mV/g
Acceleration range	80 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
$\pm 5\%$	3 - 5,000 Hz
$\pm 10\%$	1 - 9,000 Hz
± 3 dB	0.5 - 14,000 Hz
Resonance frequency.....	30 kHz
Transverse sensitivity, max.....	5% of axial
Temperature response:	
-50° C.....	-5%
+120° C.....	+5%

Electrical

Power requirement:	
Voltage source	18 - 28 VDC
Current regulating diode	2 - 10 mA
Electrical noise, equiv. g:	
Broadband 2.5 Hz to 25 kHz	700 μ g
Spectral	
10 Hz	10 μ g/√Hz
100 Hz	5 μ g/√Hz
1000 Hz	5 μ g/√Hz
Output impedance, max	100 Ω
Bias output voltage	12 VDC
Grounding.....	case isolated, internally shielded

Environmental

Temperature range	-50 to 120° C
Vibration limit.....	500 g peak
Shock limit	5,000 g peak
Electromagnetic sensitivity, equiv. g, max.....	70 μ g/gauss
Sealing	hermetic
Base strain sensitivity, max	0.0002 g/ μ strain

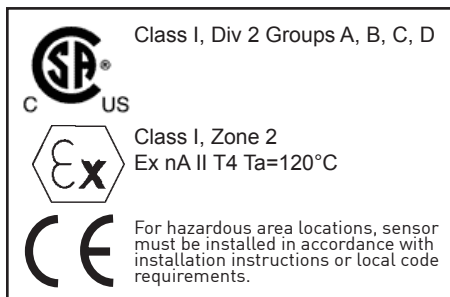
Physical

Sensing element design.....	PZT / shear
Weight.....	90 g
Case material.....	316L stainless steel
Mounting	1/4-28 UNF tapped hole
Output connector	2 pin, MIL-C-5015 style
Mating connector	R6D2
Recommended cabling	J10 or J9T2A, no more than 100 ft

Connections

Function	Connector pin
ground	shell
power/ signal	A
common	B

Accessories supplied: SF6 mounting stud (International customers specify mounting requirements); calibration data (level 2).



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98981 Rev.B.1 02/12