

WT235 Series

Low & High Frequency Wind Turbine Accelerometer, Top Exit Connector, 500 mV/g



Actual
Product
Size
Shown



Product Features

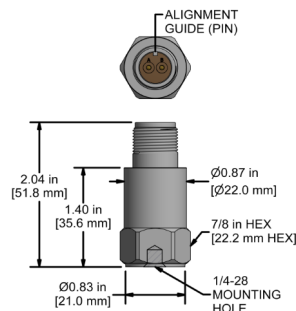
Designed for low speed Rotors, Wind Turbine Main Bearings, and Gear Box Inputs

- ▶ 500 mV/g Sensitivity $\pm 10\%$
- ▶ 0.1 Hz for Low Frequency Measurements
- ▶ 10,000 Hz for High Frequency Detection

WT235-1D

2 Pin Connector

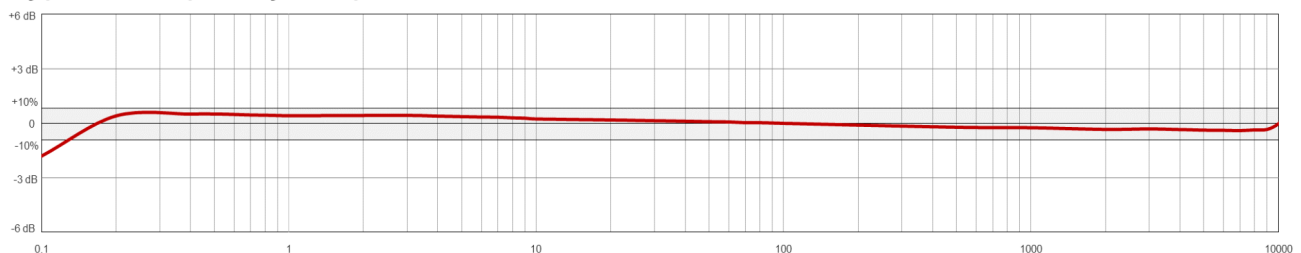
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	WT235-1D	M/WT235-1D	Environmental		
Sensitivity ($\pm 10\%$)	500 mV/g		Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response ($\pm 3\text{dB}$)	6-600,000 CPM	0.1 Hz-10 kHz	Maximum Shock Protection	5,000 g, peak	
Frequency Response ($\pm 10\%$)	36-180,000 CPM	0.6 Hz-3 kHz	Electromagnetic Sensitivity	CE Pending	
Dynamic Range	$\pm 10\text{g}$, peak		Sealing	Welded	
Electrical			Physical		
Settling Time	<2 Seconds		Sensing Element	PZT Ceramic	
Voltage Source (IEPE)	18-30 VDC		Sensing Structure	Shear Mode	
Constant Current Excitation	2-10 mA		Weight	3.25 oz	92 grams
Spectral Noise @ 10 Hz	1.7 $\mu\text{g}/\sqrt{\text{Hz}}$		Case Material	316L Stainless Steel	
Spectral Noise @ 100 Hz	0.2 $\mu\text{g}/\sqrt{\text{Hz}}$		Mounting	1/4-28	
Spectral Noise @ 1000 Hz	0.12 $\mu\text{g}/\sqrt{\text{Hz}}$		Connector	2 Pin MIL-C-5015	
Output Impedance	<100 ohm		Resonant Frequency	1,080,000 CPM	18 kHz
Bias Output Voltage	10-14 VDC		Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Dielectric Breakdown Voltage	5 kVAC		Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate	CA10	

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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