

# WT136 Series

Low Frequency Accelerometer, 500 mV/g, Side Connector



CONNECTION TECHNOLOGY CENTER, INC.  
VIBRATION ANALYSIS HARDWARE



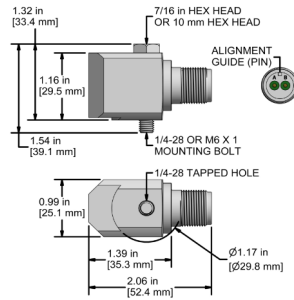
## Product Features

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
- ▶ 8,000 Hz for High Frequency Detection

### WT136-1D 2 Pin Connector

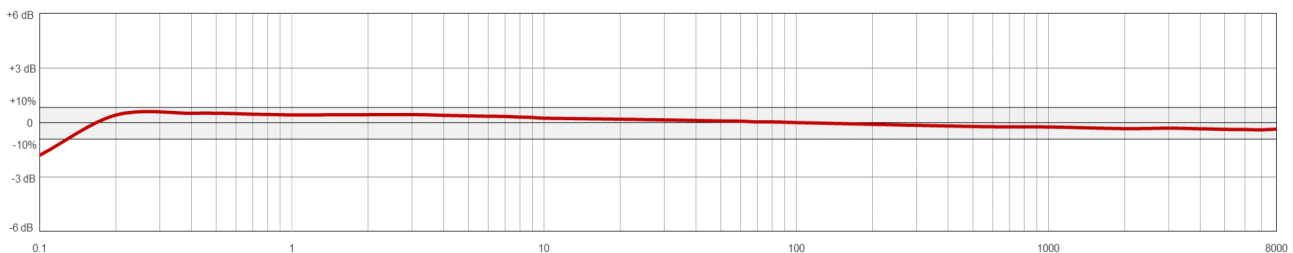
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	WT136	M/WT136	<b>Environmental</b>		
Sensitivity ( $\pm 10\%$ )		500 mV/g	Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response ( $\pm 3dB$ )	6-480,000 CPM	0.1-8000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response ( $\pm 10\%$ )	36-180,000 CPM	0.6-3000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range		$\pm 16$ g, peak	Sealing	IP68	
<b>Electrical</b>			<b>Physical</b>		
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	5.7 oz	160 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	18000 Hz
Bias Output Voltage	10-14 VDC		Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Case Isolation	>10 <sup>9</sup> ohm		Mounting Hardware	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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