

# WT136 Series

Low Frequency Accelerometer, 500 mV/g, Side Connector



VIBRATION ANALYSIS HARDWARE



## Product Features

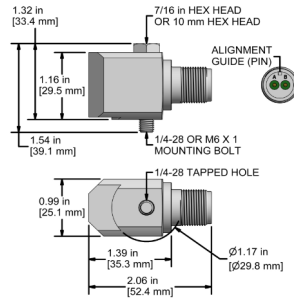
Designed for Low Speed Rotors, Wind Turbine Main Bearings and Gear Box Inputs

- ▶ 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

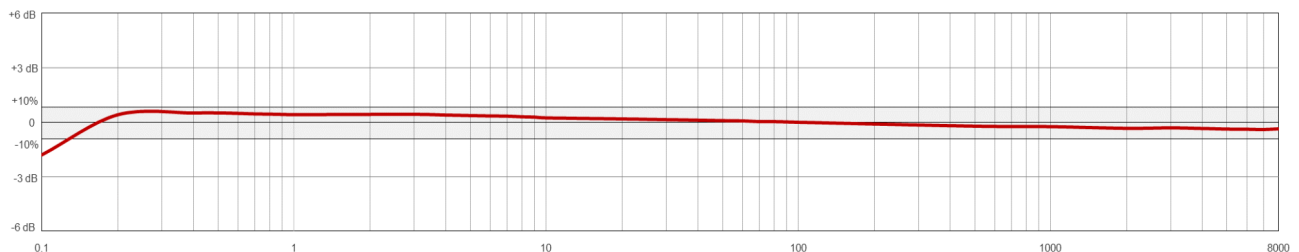
| Connector Pin | Polarity         |
|---------------|------------------|
| A             | (+) Signal/Power |
| B             | (-) Common       |



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 $\mu$ g/ $\sqrt$ Hz  | Case Material               |                     | 316L Stainless Steel |
| Spectral Noise @ 100 Hz         |                | 0.2 $\mu$ g/ $\sqrt$ Hz  | Mounting                    |                     | 1/4-28               |
| Spectral Noise @ 1000 Hz        |                | 0.12 $\mu$ g/ $\sqrt$ Hz | Connector (Non-Integral)    |                     | 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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