

# WT136 Series

Low Frequency Accelerometer, 500 mV/g, Side Connector



## Product Features

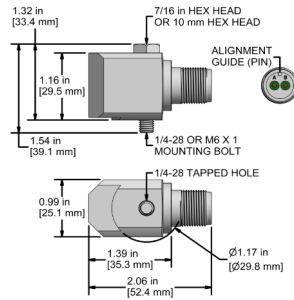
Designed for Low Speed Rotors, Wind Turbine Main Bearings and Gear Box Inputs

- ▶ 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

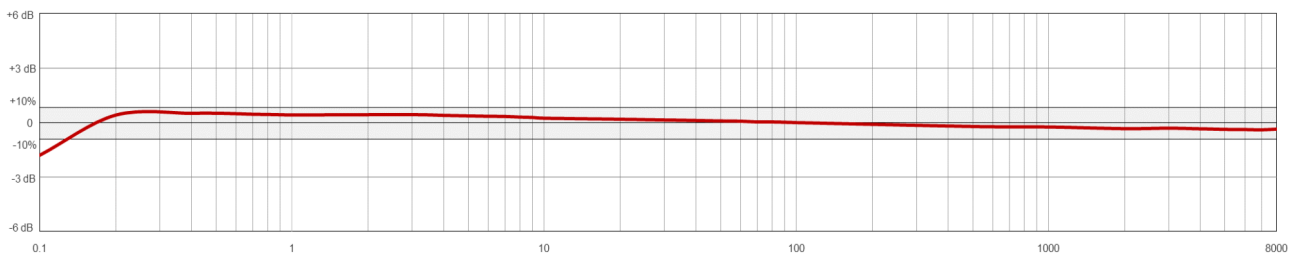
| Connector Pin | Polarity         |
|---------------|------------------|
| A             | (+) Signal/Power |
| B             | (-) Common       |



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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