

AC153 Series

Low Cost, Low Frequency Accelerometer, Top Exit 2 Pin Connector, 500 mV/g, ±20%



VIBRATION ANALYSIS HARDWARE



Product Features

Designed for low speed Rotors, Main Bearings, and Gear Box Inputs, but may also be used for High Frequency Detection

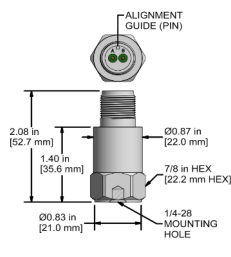
Low Cost Accelerometer

- ▶ 500 mV/g Sensitivity
- ▶ 0.1 Hz for Low Frequency Measurements
- ▶ 10 kHz for High Frequency Detection

AC153-1D

2 Pin Connector

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

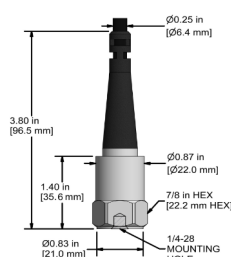


Stock Product

AC153-2D

CB103 Integral Cable

| Conductor | Polarity |
|-----------|------------------|
| Red | (+) Signal/Power |
| Black | (-) Common |
| Shield | Cable Drain Wire |

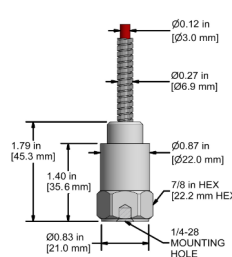


Built To Order

AC153-3D

CB206 Armored Integral Cable

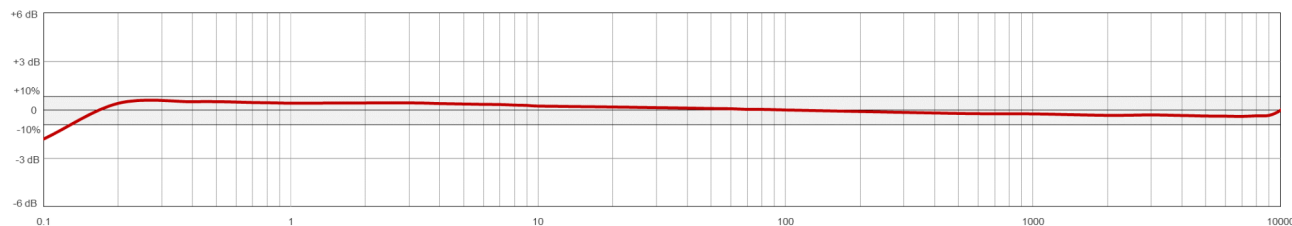
| Conductor | Polarity |
|-----------|------------------|
| Red | (+) Signal/Power |
| Black | (-) Common |
| Shield | Cable Drain Wire |



Built To Order

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-----------------------------|----------------------|--------------|-----------------------------|----------------------|-------------------|
| Part Number | AC153 | M/AC153 | Environmental | | |
| Sensitivity (±20%) | 500 mV/g | | Temperature Range | -58 to 250°F | -50 to 121°C |
| Frequency Response (±3dB) | 6-600,000 CPM | 0.1-10000 Hz | Maximum Shock Protection | 5,000 g, peak | |
| Frequency Response (±10%) | 36-180,000 CPM | 0.6-3000 Hz | Electromagnetic Sensitivity | CE | |
| Dynamic Range | ± 16g, peak | | Sealing | Welded, Hermetic | |
| Electrical | | | Submersible Depth | 200 ft. | 60 m |
| Settling Time | <2 Seconds | | Physical | | |
| Voltage Source (IEPE) | 18-30 VDC | | Sensing Element | PZT Ceramic | |
| Constant Current Excitation | 2-10 mA | | Sensing Structure | Shear Mode | |
| Spectral Noise @ 10 Hz | 1.7 µg/√Hz | | Weight | 3.2 oz | 92 grams |
| Spectral Noise @ 100 Hz | 0.2 µg/√Hz | | Case Material | 316L Stainless Steel | |
| Spectral Noise @ 1000 Hz | 0.12 µg/√Hz | | Mounting | 1/4-28 | |
| Output Impedance | <100 ohm | | Connector (Non-Integral) | 2 Pin MIL-C-5015 | |
| Bias Output Voltage | 10-14 VDC | | Resonant Frequency | 1,080,000 CPM | 18000 Hz |
| Case Isolation | >10 ⁸ ohm | | Mounting Torque | 2 to 5 ft. lbs. | 2.7 to 6.8 Nm |
| | | | 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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