## AC204 Series
### Low & High Frequency Accelerometer, Side Exit Connector, 100 mV/g

### PRODUCT FEATURES
- Designed for Low Speed Rotors, Wind Turbine Main Bearings, Gear Box Inputs, and May Also Be Used for High Frequency Detection.
- May be used with any application that requires low and high frequency measurements.

### SPECIFICATIONS

#### Environmental
- **Temperature Range**: -8°F to 250°F
- **Maximum Shock Protection**: 5 kg, peak
- **Electromagnetic Sensitivity**: CE
- **Sealing**: Welded, Hermetic (IP68)

#### Physical
- **Sensing Element**: PZT Ceramic
- **Sensing Structure**: Shear Mode
- **Weight**: 5.7 ounces, 162 grams
- **Case Material**: 316L Stainless Steel
- **Mounting**: Captive Bolt
- **Connector (non-integral)**: 2 Pin MIL-C-5015
- **Resonant Frequency**: 1020 kCPM
- **Mounting Torque**: 2 ft·lb to 5 ft·lb
- **Mounting Hardware**: 1/4-20 Captive Bolt Metric 1 Captive Bolt
- **Calibration Certificate**: CA10

#### Electrical
- **Settling Time**: < 2 seconds
- **Voltage Source (IEPE)**: 18 Vdc to 30 Vdc
- **Constant Current Excitation**: 2 mA to 10 mA
- **Spectral Noise @ 10 Hz**: 1.3 µV/√Hz
- **Spectral Noise @ 100 Hz**: 0.2 µV/√Hz
- **Spectral Noise @ 1 kHz**: 0.1 µV/√Hz
- **Output Impedance**: < 100 ohm
- **Bias Output Voltage**: 10 Vdc to 14 Vdc
- **Case Isolation**: > 10^9 ohm

#### Dynamic
- **Sensitivity (± 10 %)**: 100 mV/g
- **Frequency Response (± 3 dB)**: 6 CPM to 480 kCPM
- **Frequency Response (± 10 %)**: 36 CPM to 180 kCPM
- **Dynamic Range**: ± 80 g, peak

#### Mechanical
- **Dynamic Range**: ± 80 g, peak
- **Weight**: 5.7 ounces, 162 grams
- **Case Material**: 316L Stainless Steel
- **Mounting**: Captive Bolt
- **Connector (non-integral)**: 2 Pin MIL-C-5015
- **Resonant Frequency**: 1020 kCPM
- **Mounting Torque**: 2 ft·lb to 5 ft·lb
- **Mounting Hardware**: 1/4-20 Captive Bolt Metric 1 Captive Bolt
- **Calibration Certificate**: CA10

### TYPICAL FREQUENCY RESPONSE

![TYPICAL FREQUENCY RESPONSE](image-url)