

AC204 Series

Low Frequency Accelerometer, Side Exit 2 Pin Connector, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



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.

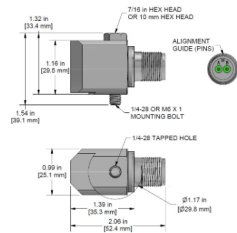
- ▶ 100 mV/g Sensitivity, ±10%
- ▶ 0.1 Hz to 8 kHz Frequency Response (± 3dB)
- ▶ Standard 2 Pin MIL Connection or Integral Cable

Note: Integral Cable Options are only for Permanent Monitoring Applications

AC204-1D

2 Pin Connector

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

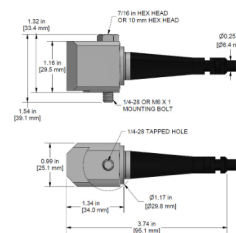


Stock Product

AC204-2D

CB103 Integral Cable

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

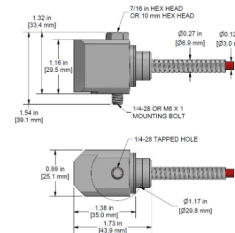


Built To Order

AC204-3D

CB206 Armored Integral Cable

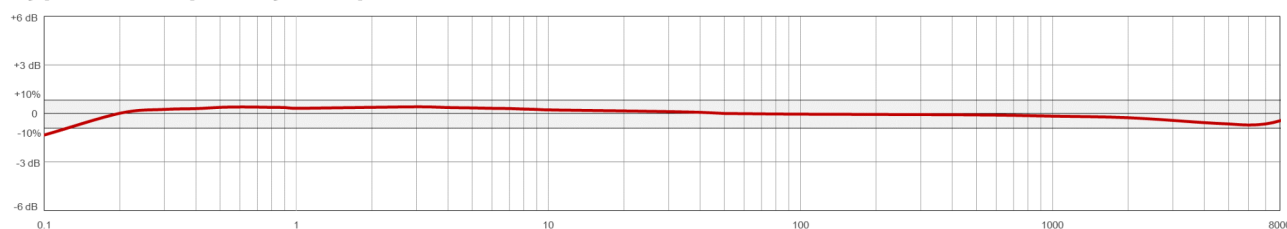
| Conductor | Polarity |
|-----------|------------------|
| Red | (+) Signal/Power |
| Black | (-) Common |
| Shield | Cable Drain Wire |



Built To Order

| Specifications | Standard | Metric | Specifications | Standard | Metric |
|-----------------------------|-----------------------|-------------|-----------------------------|----------------------|-------------------|
| Part Number | AC204 | M/AC204 | Environmental | | |
| Sensitivity (±10%) | 100 mV/g | | Temperature Range | -58 to 250°F | -50 to 121°C |
| Frequency Response (±3dB) | 6-480,000 CPM | 0.1-8000 Hz | Maximum Shock Protection | 5000 g, peak | |
| Frequency Response (±10%) | 36-180,000 CPM | 0.6-3000 Hz | Electromagnetic Sensitivity | CE | |
| Dynamic Range | ± 80 g, peak | | Sealing | Welded, Hermetic | |
| Electrical | | | SIL Rating | SIL 2 | |
| 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 | 1.3 µg/√Hz | | Weight | 5.7 ounces | 162 grams |
| Spectral Noise @ 100 Hz | 0.2 µg/√Hz | | Case Material | 316L Stainless Steel | |
| Spectral Noise @ 1000 Hz | 0.1 µg/√Hz | | Mounting | Captive Bolt | |
| Output Impedance | < 100 ohm | | Connector (Non-Integral) | 2 Pin MIL-C-5015 | |
| Bias Output Voltage | 10-14 VDC | | Resonant Frequency | 1,020,000 CPM | 17000 Hz |
| Case Isolation | > 10 ⁸ ohm | | Mounting Torque | 2 to 5 ft. lbs. | 2.7 to 6.8 Nm |
| | | | 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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