

# AC198 Series

Multi-Purpose Medium Accelerometer, 100mV/g, M8 Captive Bolt, Side Connector



VIBRATION ANALYSIS HARDWARE



## Product Features

High Performance in an Affordable, Side Exit Compact Sensor

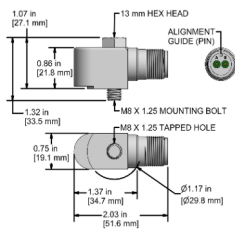
Very Low Noise and Superior RF Immunity

- ▶ 100 mV/g Sensitivity,  $\pm 10\%$
- ▶  $\pm 80g$  Dynamic Range
- ▶ Standard 2 Pin MIL Connection on Non-Integral Option

### AC198-1D

2 Pin Conector

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

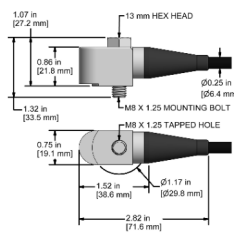


Stock Product

### AC198-2D

CB103 Integral Cable

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

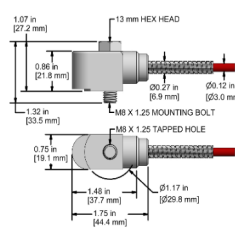


Built To Order

### AC198-3D

CB206 Armored Integral cable

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

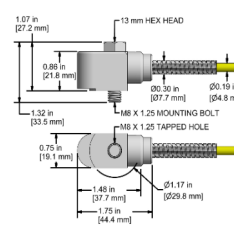


Built To Order

### AC198-6D

CB611 Heavy Duty Armored Integral Cable

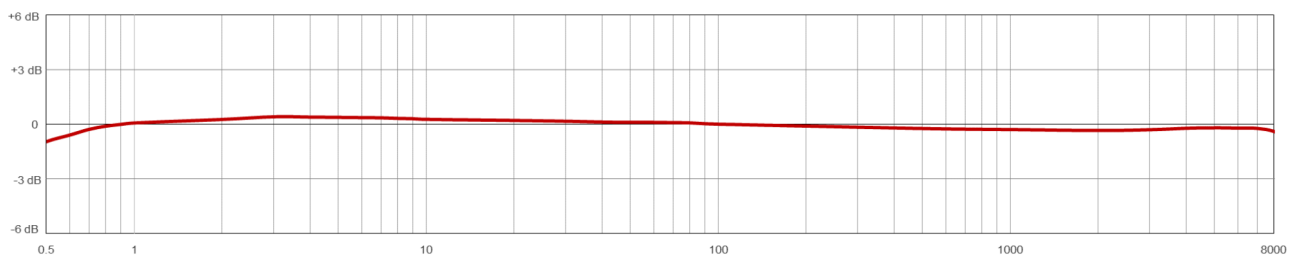
| Conductor | Polarity         |
|-----------|------------------|
| Red       | (+) Signal/Power |
| Black     | (-) Common       |
| Shield    | Cable Drain Wire |



Built To Order

| Specifications                   | Standard       | Metric               | Specifications              | Standard        | Metric               |
|----------------------------------|----------------|----------------------|-----------------------------|-----------------|----------------------|
| Sensitivity ( $\pm 10\%$ )       |                | 100 mV/g             | <b>Environmental</b>        |                 |                      |
| Frequency Response ( $\pm 3dB$ ) | 30-480,000 CPM | 0.5-8000 Hz          | Temperature Range           | -58 to 250°F    | -50 to 121°C         |
| Dynamic Range                    |                | $\pm 80 g$ , peak    | Maximum Shock Protection    |                 | 5,000 g, peak        |
| <b>Electrical</b>                |                |                      | Electromagnetic Sensitivity |                 | CE                   |
| Settling Time                    |                | <2 Seconds           | Sealing                     |                 | Welded, Hermetic     |
| Voltage Source (IEPE)            |                | 18-30 VDC            | Submersible Depth           | 200 ft.         | 60 m                 |
| Constant Current Excitation      |                | 2-10 mA              | <b>Physical</b>             |                 |                      |
| Spectral Noise @ 10 Hz           |                | 8 $\mu g/\sqrt{Hz}$  | Sensing Element             |                 | PZT Ceramic          |
| Spectral Noise @ 100 Hz          |                | 4 $\mu g/\sqrt{Hz}$  | Sensing Structure           |                 | Shear Mode           |
| Spectral Noise @ 1000 Hz         |                | 2 $\mu g/\sqrt{Hz}$  | Weight                      | 3.4 oz          | 96 grams             |
| Output Impedance                 |                | <100 ohm             | Case Material               |                 | 316L Stainless Steel |
| Bias Output Voltage              |                | 10-14 VDC            | Mounting                    |                 | Captive Bolt         |
| Case Isolation                   |                | >10 <sup>8</sup> ohm | Connector (Non-Integral)    |                 | 2 Pin MIL-C-5015     |
|                                  |                |                      | Resonant Frequency          | 1,380,000 CPM   | 23000 Hz             |
|                                  |                |                      | Mounting Torque             | 2 to 5 ft. lbs. | 2,7 to 6,8 Nm        |
|                                  |                |                      | Mounting Hardware           |                 | M8 Captive Bolt      |
|                                  |                |                      | Calibration Certificate     |                 | CA10                 |

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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