# AC208 Series
High Temperature Accelerometer, Side Exit Connector/Cable, 100 mV/g

## PRODUCT FEATURES

**High Temperature (325°F) Side Exit Sensor**
Proven Side Exit Sensor for Standard High Temperature Applications
6D Version Features Armor and Heavy Duty Teflon® Jacketed Cable with Braided Shield for Demanding Applications

## AC208-1D
2 Pin Connector

### Connector Pin
**A**  (+) Signal / Power
**B**  (-) Common

## AC208-5D
Armed Integral Cable

### Connector Pin
**A**  (+) Signal / Power
**B**  (-) Common

## AC208-6D
Heavy Duty Armed Integral Cable

### Connector Pin
**A**  (+) Signal / Power
**B**  (-) Common

## Specifications

### Standard Metric

**Part Number**
AC208  M/AC208

**Environmental**

<table>
<thead>
<tr>
<th>Temperature Range</th>
<th>-8°F to 325°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Shock Protection</td>
<td>5 kg, peak</td>
</tr>
<tr>
<td>Electromagnetic Sensitivity</td>
<td>CE</td>
</tr>
<tr>
<td>Sealing</td>
<td>Welded, Hermetic (IP68)</td>
</tr>
</tbody>
</table>

**Physical**

| Sensing Element | PZT Ceramic |
| Sensing Structure | Shear Mode |
| Weight | 5.1 ounces |
| Case Material | 316L Stainless Steel |
| Mounting | Captive Bolt |

**Electrical**

| Setting Time | < 2.5 seconds |
| Voltage Source (IEPE) | 18 Vdc to 30 Vdc |
| Constant Current Excitation | 2 mA to 10 mA |
| Spectral Noise (± 10 Hz) | 8 µg/√Hz |
| Spectral Noise (± 3 dB) | 0.22 µg/√Hz |
| Resonant Frequency | 1200 kCPM |
| Mounting Torque | 2 ft·lb to 5 ft·lb |
| Mounting Hardware | 1/4-28 Captive Bolt |

**Vibration**

| Sensitivity (± 10 %) | 100 mV/g |
| Frequency Response (± 3 dB) | 30 CPM to 660 kCPM |
| Frequency Response (± 10 %) | 120 CPM to 180 kCPM |
| Dynamic Range | ± 30 g, peak |

**Typical Frequency Response**

![Graph of Frequency Response](image)

**Calibration Certificate**
CA10

## REGULATORY APPROVALS

<table>
<thead>
<tr>
<th>Conductor</th>
<th>Polarity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red  (+) Signal / Power</td>
<td></td>
</tr>
<tr>
<td>Black  (-) Common</td>
<td></td>
</tr>
<tr>
<td>Shield  Cable Drain Wire</td>
<td></td>
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</tbody>
</table>

## STOCK PRODUCT

**STOCK PRODUCT BUILD TO ORDER**

**BUILD TO ORDER**

**AC208-6D**
Heavy Duty Armored Integral Cable

**AC208-5D**
Armed Integral Cable

**AC208-1D**
2 Pin Connector

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**Specifications Standard Metric**

### Environmental

- **Temperature Range**: -8°F to 325°F
- **Maximum Shock Protection**: 5 kg, peak
- **Electromagnetic Sensitivity**: CE
- **Sealing**: Welded, Hermetic (IP68)

### Physical

- **Sensing Element**: PZT Ceramic
- **Sensing Structure**: Shear Mode
- **Weight**: 5.1 ounces
- **Case Material**: 316L Stainless Steel
- **Mounting**: Captive Bolt

### Electrical

- **Setting Time**: < 2.5 seconds
- **Voltage Source (IEPE)**: 18 Vdc to 30 Vdc
- **Constant Current Excitation**: 2 mA to 10 mA
- **Spectral Noise (± 10 Hz)**: 8 µg/√Hz
- **Spectral Noise (± 3 dB)**: 0.22 µg/√Hz
- **Resonant Frequency**: 1200 kCPM
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- **Mounting Hardware**: 1/4-28 Captive Bolt

### Vibration

- **Sensitivity (± 10 %)**: 100 mV/g
- **Frequency Response (± 3 dB)**: 30 CPM to 660 kCPM
- **Frequency Response (± 10 %)**: 120 CPM to 180 kCPM
- **Dynamic Range**: ± 30 g, peak

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**Calibration Certificate**: CA10