CMCP422AT-IP Series
Loop Powered 4-20mA Acceleration Sensor
Top Exit Submersible IP68 Integral Cable

Features:
- Loop Powered 4-20mA Output
- Acceleration RMS or Peak
- PUR Jacketed Submersible Integral Cable
- Interfaces Directly to PLC/DCS System
- Class I Division II Approved Standalone
- Class I Division I Approved with Barrier or Isolator
- 10Hz to 5kHz (600 CPM to 300k CPM)
- -13 to 194°F (-25 to 90°C) Temperature Range
- Sealed to IP65

Typical Applications

Technical Performance
Mounted Base Resonance: 10 kHz Min.
Ranges: See Ordering Information Below
Frequency Response: 10 Hz to 5 kHz ± 5%
600 CPM to 300k CPM
ISO 10816
Isolation: Base Isolated with Faraday Cage
Transverse Sensitivity: Less than 5%

Electrical
Output Current: 4-20mA DC Proportional to RMS or Peak Acceleration (g)
Supply Voltage: 15 to 30 VDC
Settling Time: 2 Seconds
Output Impedance: Loop Resistance 600 Ohms Max @ 24VDC
Case Isolation: >10^8 Ohms at 500 Volts

Environmental
Operating Temperature Range: -13 to 194°F (25 to 90°C)
Sealing: IP65
Maximum Shock: 5000 g

Mechanical
Case Material: Stainless Steel
Sensing Element: PZT/Compression Type
Mounting Torque: 5.9 ft. lbs (8Nm)
Weight: 5.2 Oz (150g)
Mounting: 1/4”-28 UNF Quick Fit (Supplied with Sensor)
Adapters Available, See CMCP237 (Metric) and CMCP238 (Imperial) Series
Mating Connector: PUR Jacketed Cable
**Electrical Ratings:**
\[ U_i = 28V; \ I_i = 115mA; \ P_i = 0.65W \]

**Hazardous Location Ratings:**
Class I, II, III, Division 1, 2, Groups A-G, T6, -40°C to +60°C, IP65
Class 1, Zone 0, AE, ia, IIC, T6, Ga, -40°C to +60°C
Zone 20, AE, ia IIIC, T80°C, IP65, Da, -40°C to +60°C

**Dimensions**

**Typical Frequency Response**

![Typical Frequency Response Graph]

**Ordering Information:**

<table>
<thead>
<tr>
<th>CMCP422AT-XX-X-XXX</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-01</td>
<td>1 g Full Scale</td>
</tr>
<tr>
<td>-02</td>
<td>2 g's Full Scale</td>
</tr>
<tr>
<td>-05</td>
<td>5 g's Full Scale</td>
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<tr>
<td>-10</td>
<td>10 g's Full Scale</td>
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<tr>
<td>-R</td>
<td>RMS Detection</td>
</tr>
<tr>
<td>-P</td>
<td>Peak Detection</td>
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<tr>
<td>-C</td>
<td>2 Pin MS 5015 Connector</td>
</tr>
<tr>
<td>-M12</td>
<td>M12 Eurofast Connector</td>
</tr>
<tr>
<td>-IP</td>
<td>Integral PUR Submersible Cable</td>
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</tbody>
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Specify Cable Length After -IP (Ex. -IP20 for 20 Meters)

**Similar Products:**

- **CMCP422AT-XX-X-M12**
  M12 Eurofast Connector

- **CMCP422AT-XX-X-C**
  2 Pin MS 5015 Connector