CMCP422AT-I Series
Loop Powered 4-20mA Acceleration Sensor, Top Exit Integral Cable

Features:
- Loop Powered 4-20mA Output
- Acceleration RMS or Peak
- 5m (16’) Braided Armor Integral Cable
- Interfaces Directly to PLC/DCS System
- Two Different Ranges Available
- 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: 5 Meter (16’) Braided Armor Cable, 2 Wire with Drain/Shield
**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 I, Zone 0, AEx, ia, IIC, T6, Ga, -40°C to +60°C
Zone 20, AEx, ia IIIC, T80°C, IP65, Da, -40°C to +60°C

**Dimensions**

**Typical Frequency Response**

<table>
<thead>
<tr>
<th>Frequency Hz</th>
<th>Sensitivity Change dB</th>
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<tbody>
<tr>
<td>1</td>
<td>50%</td>
</tr>
<tr>
<td>10</td>
<td>40%</td>
</tr>
<tr>
<td>100</td>
<td>30%</td>
</tr>
<tr>
<td>1,000</td>
<td>20%</td>
</tr>
<tr>
<td>6,000</td>
<td>10%</td>
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**Ordering Information:**

<table>
<thead>
<tr>
<th>CMCP422AT-XX-X-XXX Description</th>
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<tbody>
<tr>
<td>-01 1 g Full Scale</td>
</tr>
<tr>
<td>-02 2 g's Full Scale</td>
</tr>
<tr>
<td>-05 5 g's Full Scale</td>
</tr>
<tr>
<td>-10 10 g's Full Scale</td>
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<tr>
<td>-R RMS Detection</td>
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<tr>
<td>-P Peak Detection</td>
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<tr>
<td>-C 2 Pin MS 5015 Connector</td>
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<tr>
<td>-M12 M12 Eurofast Connector</td>
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<tr>
<td>-I Integral Braided Armor Cable (5 meters)</td>
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</tbody>
</table>

**Similar Products:**

- CMCP422AT-XX-X-M12 M12 Eurofast Connector
- CMCP422AT-XX-X-C 2 Pin MS 5015 Connector