CMCP422VT-IP Series
4-20mA Velocity Sensor, Top Exit with Integral Submersible Cable

Features:
- Loop Powered 4-20mA Output
- IP68 Submersible with Integral Cable
- Velocity RMS or Peak
- Class I Division II Approved Standalone
- Class I Division I Approved with Barrier or Isolator
- Interfaces Directly to PLC/DCS System
- -13 to 194°F (-25 to 90°C) Temperature Range
- 10 to 1,000 Hz ISO Standard Frequency Range
- Optional Dynamic Output (100mV/g)
- Lifetime Warranty

Typical Applications

Technical Performance
Mounted Base Resonance: 5 kHz Min.
Ranges: See Ordering Information Below
Contact Factory for Specific Ranges
Dynamic Output: 100mV/g +/-10%
Frequency Response:
10 Hz to 1 kHz ± 5%
600 CPM to 60k CPM
ISO 10816
Isolation: Base Isolated
Measurement Range: 50g peak
Transverse Sensitivity: Less than 5% with Faraday Cage

Electrical
Output Current: 4-20mA DC Proportional to RMS or Peak Velocity
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: IP68
Maximum Shock: 5000 g

Mechanical
Case Material: 316 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
**Electrical Ratings:**
\[ U_i = 28V; \quad I_i = 115mA; \quad P_i = 0.65W \]

**Hazardous Location Ratings:**
Class I, II, III, Division 1, 2, Groups A-G, T6, -40°C to +60°C, IP65
Class 1, Zone 0, 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/Connection Diagram:**

![Dimensions/Connection Diagram](image)

**Typical Frequency Response**

![Typical Frequency Response](image)

**Ordering Information:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>CMCP422VT-XX</td>
<td>1.00 In/Sec Full Scale (25.4mm/Sec), Without Dynamic Output</td>
</tr>
<tr>
<td>-01</td>
<td></td>
</tr>
<tr>
<td>-02</td>
<td>2.00 In/Sec Full Scale (50.8mm/Sec), Without Dynamic Output</td>
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<tr>
<td>-R</td>
<td>RMS Detection</td>
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<tr>
<td>-P</td>
<td>Peak Detection</td>
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<tr>
<td>-C</td>
<td>2 Pin MS 5015 Connector</td>
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<tr>
<td>-M12</td>
<td>M12 Eurofast Connector</td>
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<tr>
<td>-IP</td>
<td><strong>Integral IP68 Submersible Cable (5 Meters Long)</strong></td>
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<tr>
<td></td>
<td>Specify Cable Length in Meters after IP (ex. IP10 for 10 meters)</td>
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