CMCP420VT
Vibration Transmitter

Features
- Solid State Reliability
- Integral Sensor
- 4-20 mA Output
- Dynamic Signal Output
- UL and CSA Approved Class 1, Div 2, Group B-D
- CE Approved
- RoHS Compliant

Description
The CMCP420VT is a solid state, loop powered vibration transmitter. It provides a 4-20 mA output that is proportional to overall vibration in terms of velocity. The CMCP420VT continuously monitors machinery health and transmits directly into a PLC or DCS for trending, alarm and machine shutdown. In addition, the CMCP420VT provides access to the dynamic transducer output. The buffered output is available for temporary connection of portable analyzers for detailed machine fault analysis.

Simple Installation
Simply mount the CMCP420VT into a tapped hole in the bearing housing or machine case, connect two wires into a 4-20 mA loop, and you are ready to interface with a PLC or DCS. Electrical conduit may be connected directly to the top 3/4” NPT fitting. The CMCP420VT has a 1/4”-28 UNF tapped hole and has a variety of adaptors available.

If the LED display is ordered, it is shipped loose, and is a simple installation.

Specifications:
Dynamic
Output: 4-20 mA proportional to full scale Velocity
Frequency Response: 2-2,000 Hz
Buffered Output: Acceleration, 100 mV/g
Accuracy: ±5%

Electrical
Power (Two wire loop power):  + 22 to + 36 Vdc
Recommended Load: (Vs - 14 - Vd) / .02
RL= Load Resistance
Vs= Dc Supply Voltage
Vd= Display Voltage: 5.0 Vdc for LED. 2.0 Vdc for LCD. 0.0 for no display

Grounding: Case Isolated

Environmental
Operating Temperature: -20°C to +80°C
Sealed: Epoxy Encapsulated

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CMCP420VT
Vibration Transmitter Accessories

CMCP420-LED - LED Display Retrofit
Displays actual vibration levels in velocity on an easy to read LED display. Includes a BNC connector that provides access to the raw acceleration signal. This is useful for connection to portable data collectors

CMCP420-BNC - BNC Adapter Retrofit
90 Degree 3/4” NPT conduit elbow with a BNC connector to access the raw acceleration signal. This is useful for connection to portable data collectors

CMCP420-EL - 90 Degree 3/4” by 3/4” NPT Elbow
Useful for connecting CMCP420VT to hard or flexible conduit. When used with the CMCP420-WF, provides a simple weatherproof exit for the instrument wire.

CMCP420-WF - 3/4” NPT Weatherproof Cable Fitting
When used with the CMCP420-EL, provides a simple weatherproof exit for the instrument wire.

Ordering Information:

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<th>Description</th>
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<td>CMCP420VT</td>
<td>01</td>
<td>0-1 in/sec (0-25.4 mm/sec) RMS</td>
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<td>02</td>
<td>0-2 in/sec (0-50.8 mm/sec) RMS</td>
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<td>CMCP420VT LED Display Retrofit</td>
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CMCP420-BNC - CMCP420VT BNC Adapter Retrofit

CMCP420-EL - 90 Degree 3/4” x 3/4” NPT Elbow

CMCP420-WF - 3/4” NPT Weatherproof Cable Fitting

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