



# CMCP420VT Vibration Transmitter

### Features

- **Solid State Reliability**
- **Integral Sensor**
- **4-20 mA Output**
- **Dynamic Signal Output**

### 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.

### Ordering Information: (New)

| Part No.  | -XX | -XX | -XX | Description                      |
|-----------|-----|-----|-----|----------------------------------|
| CMCP420VT | 01  |     |     | 0-1 in/sec, RMS                  |
|           | 02  |     |     | 0-2 in/sec, RMS                  |
|           | 03  |     |     | 0-25 mm/sec, RMS                 |
|           | 04  |     |     | 0-50 mm/sec, RMS                 |
|           |     | 00  |     | 1/4"-28 UNF, Standard Mount      |
|           |     | 01  |     | 1/2" NPT Stud Mounting Adaptor   |
|           |     | 02  |     | 3/4" NPT Stud Mounting Adapter   |
|           |     | 03  |     | 3/8" NPT Stud Mounting Adapter   |
|           |     | 04  |     | 1/4" NPT Stud Mounting Adapter   |
|           |     |     | 00  | No LED Display                   |
|           |     |     | 01  | With LED Display (shipped loose) |
|           |     |     | 02  | With BNC                         |

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3/4 NPT  
Top Fitting

2 5/8"

1/4"-28 Tapped  
Hole with Stud  
In Bottom



### 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  
 Maximum Load: 600 Ohms resistive  
 Grounding: Case Isolated

#### Environmental

Operating Temperature: -20° C to +80° C  
 Sealed: Epoxy Encapsulated  
 Enclosure: SS, NEMA 4, 4X, 12  
 Mounting: Stud Mounted, 1-1/4" Spot Face  
 Weight: 8 oz. (without display)