

# 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
<b>CMCP420V</b>	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



## 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  
 Weight: 8 oz. (without display)

## Your STI Representative:

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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:

Part No.		Description
CMCP420-LED	-XX	CMCP420VT LED Display Retrofit
	-01	0-1 in/sec, RMS
	-02	0-2 in/sec, RMS
	-03	0-25 mm/sec, RMS
	-04	0-50 mm/sec, RMS

CMCP420-BNC		CMCP420VT BNC Adapter Retrofit
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CMCP420-EL		90 Degree 3/4" x 3/4" NPT Elbow
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CMCP420-WF		3/4" NPT Weatherproof Cable Fitting
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CMCP420VT with 90 Degree Elbow and Weatherproof Cable Fitting

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