

CMCP420 Series - 2 Wire Loop Powered Vibration Transmitters

STI's CMCP420VT Series Vibration Transmitters are available as either single parameter (velocity) or dual parameter (velocity and temperature). They are loop powered 2-wire transmitters and can be powered by the PLC or DCS system. They are approved for Class 1 Division 2 installations by CSA and UL. They may be installed in a Class 1 Division 1 environment by using the CMCP420XPHD Conduit Head. They are fully potted in a 316 Stainless Steel Case. A 100 mv/g dynamic buffered signal is available on single parameter units for connection to portable analyzers



CMCP420VT Loop Powered Vibration Transmitter

- CSA and UL Approved Class 1, Div 2, B-D
- CE Approved
- Solid State Reliability
- 4-20 mA Output
- Dynamic Signal Output
- 3/4" NPT for Conduit Connections
- Industry Standard 1/4" x 28 NF Mounting
- Optional Display in EU.



CMCP420VT-T Dual Parameter Loop Powered Vibration and Temperature Transmitter

- CSA and UL Approved Class 1, Div 2, B-D
- CE Approved
- Dual Parameter (Vibration and Temperature)
- Solid State Reliability
- 3/4" NPT for Conduit Connections
- Industry Standard 1/4" x 28 NF Mounting
- Optional Display (Vibration or Temperature)



CMCP422VT Series Loop Powered Transmitter

- Loop Powered 4-20mA Velocity Output
- Interfaces Directly to PLC/DCS System
- Two Ranges Available (1.0 and 2.0 In/Sec RMS)
- Standard 2 Pin MS 5015 Connector
- Optional Armored Integral Cable



CMCP422AT Loop Powered Vibration Acceleration Transmitter (4-20mA)

- Loop Powered 4-20mA Acceleration Output.
- Interfaces Directly to PLC/DCS System
- Two Ranges (5 and 10 g's RMS or Peak)
- Standard 2 Pin MS 5015 Connector
- Available with Integral Cable
- Optional Armored Integral Cable

CMCP420VT Series Accessories

The following accessories are for the CMCP420VT and CMCP420VT-T Series only.



CMCP420LED Display

- Bright Red LED or LCD Display
- Loop Powered
- Displays in Actual Eng. Units
- Mounts Directly to CMCP420VT



CMCP420EL 90 Degree NPT Elbow

- Connect CMCP420VT to conduit
- Provides a more convenient angle
- Works with CMCP420WF for Cable



CMCP420BNC BNC Adapter

- BNC Connector for Buffered Output
- 90 Degree 3/4" NPT conduit elbow
- Access raw Acceleration Signal
- Connect to Portable Analyzers



CMCP420WF 3/4" NPT Weatherproof Cable Fitting

- Provides a waterproof exit for cable
- Fits CMCP420EL
- Provides strain relief for cable



CMCP420XPHD Explosion Proof Head

- XP Head for CMCP420VT
- NEMA 4X, IP66
- Increases rating of CMCP420VT
- Class 1 Division 1, Group B-D.



CMCP203 NPT Pipe Thread Accelerometer Mounting Adapter

- 1/4", 3/8", 1/2" and 3/4" NPT
- 1/4"-28 UNF Tapped Hole
- Makes use of existing NPT fittings.



STI Vibration Monitoring Inc.

CMCP420 Series Transmitters

CMCP420 Series Accessories

CMCP500 Series Monitors & Transmitters

Specialty Modules and Transmitters

Power Supplies

Tachometers

Transmitters and Tachometers Overview

3 Wire (Din Rail) Vibration Transmitters and Monitors

STI's CMCP500 Series Din Rail Mounted Transmitters and Monitors are field proven with thousands installed worldwide. They are available as either a single wide Transmitter or double wide Monitor with the attached alarm and relay module. Both English and Metric versions are available.



Features:

- Full API 670 Functionality at a Low Cost
- Single Channel for Easy Distribution
- Din Rail Mountable
- 4-20 mA Output
- Sensor Fault Detection (OK Circuit)
- Buffered Transducer Output for Analytical Systems
- Alert, Danger, OK Alarms and Relays
- Optional Plug In Filters
- Trip Multiply
- Latching or Non-Latching Relays
- Class I Division II, Groups B-D Approved
- CE Approved

Available Models:

CMCP525(A) Acceleration Output

- 100 mV/g, Accelerometer Input
- RMS or Peak Output

CMCP530(A) Velocity Output

- Accelerometer or Velocity Input
- ISO Standard and Low Frequency
- RMS or Peak Output

CMCP535(A) Displacement Output

- 100 mv/in/sec Velocity Input
- Peak/Peak Displacement Output

CMCP536(A) Vibration Output

- 100 mv/in/sec Velocity Input
- Velocity or Displacement Output

CMCP540(A) Radial Vibration Output

- 200 mv/mil Proximity Probe Input
- Peak to Peak Displacement Output

CMCP545(A) Thrust Position Output

- 200 mv/mil Proximity Probe Input
- Thrust Position Output

CMCP546(A) Absolute Vibration

- Proximity Probe and Velocity Input
- Absolute Vibration Output

CMCP547(A) Differential Expansion

- Proximity Probe Input
- Perpendicular Collar or Ramp
- Differential Expansion Output

CMCP548(A) Case Expansion

- DC LVDT Input
- Case Expansion Output

CMCP549(A) Valve Position

- Rotary Potentiometer Inputs
- Valve Position Output

CMCP560(A) RTD Temperature

- RTD Input (2 or 3 wire)
- Temperature Output

CMCP565(A) Thermocouple Temperature

- J or K Type Thermocouple Input
- Temperature Output

CMCP570(A) Solid State Temperature

- Inputs from Sensors with Dual Output
- Temperature Output

CMCP575 Speed

- Keyphasor or TTL Input
- Speed/RPM Output
- Multiple Pulses per Revolution

CMCP585(A) Eccentricity

- Proximity Probe Input
- Eccentricity Output

CMCP590(A) Acceleration Enveloping

- Accelerometer Input
- gE Output

CMCP595 Accessory Module

- Keyphasor Input
- Buffered Outputs

Power Supplies

The CMCP515 Series are Hazardous Area Class 1 Division 2 Approved 24 VDC DC power supplies. They are suitable for use with the CMCP500 and CMCP420VT Series Transmitters and Monitors as well as -24 VDC Proximity Probe Systems.



CMCP515 24 VDC Power Supply, 110/220 VAC 60/80 Hz

- Class 1 Division 2 Approved
- NEC Class 2
- Universal Input
- Short/Overload protection
- Din Rail Mounting
- Four (4) Sizes



CMCP515-RDNT Redundancy Module

Allows user to connect two CMCP515 Series Power Supplies and provide one redundant output rated up to 10 Amps.

Tachometers

STI offers a complete selection of Industrial Tachometers to measure the speed of your rotating machinery. DIN Rail Mounted Speed Transmitters, Panel Mount Tachometers w/Integral Display and Explosion Proof Tachometers are available.



CMCP-TACH3 Tachometer

- Programmable
- 1 to 999,999 RPM Range
- Alarm/Relay Outputs
- Multiple Pulses per Revolution
- Proximity Probe or TTL Input
- Seven Segment Red LED



CMCP-TACH3-XP Explosion Proof Tachometer

- Explosion Proof
- Programmable
- 1 to 999,999 RPM Range
- Multiple Pulses per Revolution
- Alarm Outputs
- Multiple Pulses per Revolution
- Proximity Probe or TTL Input
- Seven Segment Red LED