## CMCP-TKPRO
## Vibration Test Kit

The CMCP-TKPro is used to provide a calibrated mechanical vibration using a variable speed 414 Steel Wobble Plate. A Precision Dial Indicator is used to position the Swing Arm to the desired amplitude. The Dial Indicator is then replaced with a Proximity Probe. Both the Proximity Probe System and Monitoring System can be verified by this method.

**Features:**

- AC or Battery Powered
- Li-Ion 1.4 Ah Battery
- 82 mA Draw @ 3600 RPM
- Smart Charger
- 0-15 mils Dynamic Range
- Precision Dial Micrometer
- Variable Speed to 7000 RPM
- Tachometer Display
- English and Metric Versions
- Weatherproof Travel Case

## CMCPTKPRO-SR
## Shaft Rider Accessory

The CMCP-TKPro-SR Shaft Rider is a Teflon Tipped Spring Loaded Shaft Rider that transforms the motion of the TKPro's rotating wobble plate into linear mechanical motion for an Accelerometer or Accelerometer based Velocity Sensor. The Shaft Rider is not designed for precision calibration, however it does provide an easy and convenient way to verify sensor and monitoring system end to end operation.

**Features:**

- Simple to Use
- Glass Filled Teflon Tip
- Spares Included
- ¼"-28 UNF Threaded Mount
- Aluminum Collet
- Fits CMCP-TKPro
- Spare Tip/Spring Kits Available

## CMCP-TKSC
## Shaft Calibrator

The CMCP-TKSC Shaft Calibrator is used to determine the actual Proximity Probe System Output in mv/mil or mv/um of a machine shaft or piston rod. Proximity Probe Systems are calibrated by the manufactures to a standard of 200 mv/mil (7.87 mv/um) using 4140 Steel. All other materials will need to be tested.

**Features:**

- Easy to Use
- ¾" Wide (19 mm)
- Measure Shaft/Rod Sensitivity
- Proximity Probes up to 0.400 dia.
- 0.50" or 12.7 mm Range
- Nylon Base
- Mounting Strap Included

## CMCP610
## Benchtop Proximity Probe System
## Static Calibrator

The CMCP610 Eddy Probe Calibrator provides a convenient and precise method of verifying the voltage output vs. physical gap of a Proximity Probe and Driver system. Designed for use in the field or the shop, the CMCP610 will work with any manufacturer's 5mm or 8mm probe systems. Other Target materials available.

**Features:**

- Voltage output vs. physical gap
- Use with 5mm or 8mm Probes
- 1.0" Range 0.001" Increments
- 1.125" (28.6 mm) Diameter
- 4140 Steel Target
- English or Metric Micrometer

**Balancing and Test Equipment Overview**

## STI Vibration Monitoring Inc.

**Demonstration Rotor Kits**

**Balancing Kits**

**Balancing Weights**

**Proximity Probe Calibration**

**Shaft Runout Kits**

STI Vibration Monitoring Inc.

**www.stiweb.com**

## CMCP600
## Bearing Fault Demonstrator

The CMCP600 is designed to demonstrate Vibration measurement techniques that illustrate bearing fault analysis in rolling element bearings. Includes two bearings, a perfect bearing, and one with a flaw, which are easily and quickly exchanged for demonstration of bearing fault signals.

**Features:**

- Excellent for Enveloping
- Quick Bearing Change Out
- Easy, Fast, Repeatable Results
- One "Good" Bearing
- One "Fault Induced" Bearing
- Hard Carrying Case
- 110 or 220 VAC (50/60 Hz)
- ¼"-28 UNF Tapped Hole for Accelerometer

## CMCP810PC
## Runout Measurement Kit

The CMCP810PC Runout Kit documents electrical and mechanical runout present on a shaft. Surface Irregularities, Electrical Runout, Residual Magnetism, and Residual Stress Concentrations can all contribute to shaft runout which will create erroneous readings for proximity or eddy probe systems.

**Features:**

- PC Based 2 Ch. USB Oscilloscope
- Software Included
- 16 Bit Resolution
- Eliminates Bucking Amplifier
- Optical Phase Reference Kit
- Proximity Probe System
- -24 VDC Power Supply
- Two Magnetic Mounts
- Modified Vice Grips
- Hard Carrying Case
- Optional Gauss Meter

## CMCP601-01
## Short Base Rotor Kit

The CMCP601 Rotor Kits were developed as a small working example of a real machine where vibration signals may be simulated under realistic circumstances. Both Proximity Probes and Accelerometers may be installed to provide vibration signals used to train for troubleshooting actual vibration transducer systems and machinery problems.

**Measurements that may be obtained and studied using the Short Base Rotor Kit:**

- 0-10,000 RPM
- One (1) Critical Speed
- Frequency Based Signals
- Time Based Signals
- Orbital Analysis
- Single Plane Balancing
- Shaft Runout
- Identify Rotor Critical Speeds
- Shaft Relative Signals
- Resonance Amplitude Factor
- Rotor Dynamic Studies
- Phase Signals
- Optional Rolling Element Bearing

## CMCP601-02
## Long Base Rotor Kit

The Long Base Rotor Kit with two (2) Masses allows for dual plane balancing and speeds above second critical, along with all the features noted in the short base kit above. Shaft Bow may also be studied.

**Measurements that may be obtained and studied using the Long Base Rotor Kit:**

- 0-10,000 RPM
- Two (2) Critical Speeds
- Frequency Based Signals
- Time Based Signals
- Orbital Analysis
- Dual Plane Balancing
- Shaft Runout
- Shaft Bow
- Identify Rotor Critical Speeds
- Shaft Relative Signals
- Resonance Amplitude Factor
- Rotor Dynamic Studies
- Phase Signals

## CMCP800
## Universal Field Balancing Kit

The CMCP800U Universal Field Balancing Accessory Kit contains all the accessories necessary to perform in-place field balancing of rotating machinery. This is a complete kit that provides the necessary transducers, magnetic bases, cables, trial weight kit, precision electronic balance scale, and more packaged in a rugged watertight carrying case. Add an analyzer and you are ready to balance pumps, fans, motors, couplings, small turbines and more.

**Features:**

- Two accelerometers with magnetic bases
- Optical or Laser Phase Reference Kit
- Three (3) 25 Foot BNC Cables
- Two (2) BNC to 5015 Adapters
- Three (3) Banana to BNC Adapters
- Precision Scale
- Large Trial Weight Kit
- Custom Vice Grips
- Goose Necks w/Magnets
- Rugged Watertight Hard Carrying Case

## CMCP811
## Balance Weight Kit

The CMCP811 provides an assortment of balancing weights and is conveniently packaged as a starter kit. It may be purchased stand-alone and is also available as a component in the CMCP800U Balancing Accessories Kit above.

**Kit Contains:**

- 225 assorted squirrel cage type weights ranging from 0.2 0z (0.6g) to 0.46 oz. (13.0g)
- 26 Steel C-Clamp style weights ranging in size from 5/16" throat and .10 oz. (2.83g) to 3/4" throat and 8.0 oz. (226.8g)
- 24 compartment container
- Compartment Size Guide
- Replacement Weights Available

# Accelerometers

STI's most popular Industrial Accelerometers are manufactured to high quality standards for the Industrial Rotating Machinery Market. All sensors are supplied with a ¼"-28 UNF mounting stud, thread adapters are available. Visit us online at www.stiweb.com for many more options including 250 and 500 mv/g output.

**CMCP1100 Series**
**Low Cost Accelerometer**

- Low Cost Alternative
- 5, 10 or 20 Meter Integral Cable
- 100 mV/g 10% (0.32Hz to 10kHz)
- Top and Side (S) Cable Exit
- -54 to 85C (-65 to 185$^0$F)
- Optional High Temperature Cable
- Optional Braided Armor Cable

**CMCP786A**
**General Purpose Top Exit Accelerometer**

- 100 mV/g 5% (2Hz to 10kHz)
- 2 Pin MS Top Exit Connector
- -55 to 140$^0$C (-67 to 284$^0$F)
- Optional Integral Cable or M12 Connector
- Multiple Sensitivities Available

**CMCP785A**
**General Purpose Side Exit Accelerometer**

- 100 mv/g 5% (2Hz to 10kHz)
- 2 Pin MS Side Exit Connector
- -55 to 140$^0$C (-67 to 284$^0$C)
- Optional Integral Cable or M12 Connector
- Multiple Sensitivities Available

**CMCP770A**
**Compact Top Exit Accelerometer**

- 2 Second Settling Time
- 1" Tall x 0.68" Wide (33 x 17.5mm)
- 100 mv/g 10% (1.5Hz to 10kHz)
- 2 Pin MS Top Exit Connector
- -55 to 140$^0$C (-67 to 284$^0$C)

**CMCP780A**
**Compact Side Exit Accelerometer**

- 2 Second Settling Time
- 1" Tall x 1.2" Wide (25.4 x 30mm)
- 100 mv/g 10% (1.5Hz to 10kHz)
- 2 Pin MS Side Exit Connector
- -55 to 140$^0$C (-67 to 284$^0$C)

# More Accelerometers

**CMCP1300A**
**Triaxial Accelerometer**

- 100 mv/g 10% (0.32Hz to 10kHz)
- Three (3) Axis X, Y and Z
- 4 Pin MS Bayonet Connector
- -54 to 85C (-65 to 185$^0$F)

**CMCP786T**
**Dual Output Top Exit Accelerometer**

- 100 mV/g 5% (2Hz to 10kHz)
- 10mV°C (0-100°C / 32 -212°F)
- 3 Pin MS Top Exit Connector
- -55 to 140$^0$C (-67 to 284$^0$C) Operating
- Optional Integral Cable or M12 Connector

**CMCP785T**
**Dual Output Side Exit Accelerometer**

- 100 mv/g 5% (2Hz to 10kHz)
- 10mV°C (0-100°C / 32 -212°F)
- 3 Pin MS Side Exit Connector
- -55 to 140$^0$C (-67 to 284$^0$C) Operating
- Optional Integral Cable or M12 Connector

**CMCP786A-HS**
**Low Speed Top Exit Accelerometer**

- 30mV/g 5%
- 2Hz to 13kHz ±5%
- 0.8 to 18kHz ±3dB
- 2 Pin MS Top Exit Connector
- -55 to 140$^0$C (-67 to 284$^0$C)
- Optional 10 and 30mV/g Outputs

**CMCP786A-LS**
**Low Speed Top Exit Accelerometer**

- 500mV/g 5%
- 1.5Hz to 10kHz ±5%
- 0.2 to 15kHz ±3dB
- 2 Pin MS Top Exit Connector
- -55 to 140$^0$C (-67 to 284$^0$C)
- Optional 250mV/g Output

**CMCP793V**
**Velocity Sensor**

- 100mV/in/sec (4mV/mm/sec)
- 2Hz to 6kHz
- 2 Pin MS Top Exit Connector
- -55 to 140$^0$C (-67 to 284$^0$C)
- Optional 500mV/in/sec Output
- Optional Side Exit Version Available

**Sensors and PdM Products Overview**

## STI Vibration Monitoring Inc.

**Accelerometers**

**Accelerometer Cables**

**BNC Junction Boxes**

**Mounting Accessories**

STI Vibration Monitoring Inc.

**www.stiweb.com**

# BNC Junction Boxes

BNC and Switch Boxes are typically installed within a close proximity of the machine being monitored and provide a safe and convenient location for data collection which can improve accuracy and lower overall collection time. Rigid or flex conduit can be used to make entry into the box or our CMCP261 Liquid Tight Strain Reliefs Connectors can be used for individual cables that do not require conduit.

**CMCP300 Series**
**Individual BNC Junction Box**

- 1, 2, 4 or 6 Individual BNC Outputs
- Fiberglass or Stainless Steel NEMA 4X
- Painted Steel NEMA 4
- Quick Release Covers
- For Indoor or Outdoor Use

**CMCP310 Series**
**Switchable BNC Junction Box**

- Switchable Output
- 6, 12, 24, 36 or 48 Channel
- Fiberglass and Stainless Steel NEMA 4X
- Painted Steel NEMA 4
- Quick Release Covers
- For Indoor or Outdoor Use

**CMCP305 Series**
**Quick Access BNC Junction Box**

- Low Cost
- 2 or 4 Individual External BNC Outputs
- Includes BNC Dust Covers
- Polycarbonate Enclosure
- For indoor or Outdoor Use

**CMCP312 Series**
**Compact DIN Rail Mount Switch Box**

- 12 Channel Switchable Output
- 35mm DIN Rail Mountable
- Compact Size
- Indoor or Cabinet Use Only

**CMCP303 Series**
**Triax Junction Box**

- For 2, 4 or 6 Triaxial Accelerometers
- 4-Pin Quick Connect Connectors
- Quick Release Cover
- Fiberglass and Stainless Steel NEMA 4X
- Painted Steel NEMA 4

# Accelerometer Extension Cables

Our sensor extension cables are designed to work with all industrial 2 or 3 pin MS 5015 sensors. All cables are provided with an overall shield for noise immunity and a drain wire for easy connection. All versions are kept in stock and are also available with stainless steel hose or braided armor to protect and extend the life of the cable when conduit is not used.

**CMCP602L and CMCP603L Series**
**General Purpose Locking Collar Cables**

- 2 or 3 Pin MS 5015 Screw On Connector
- Black TPE 20 AWG Shielded Cable
- 16, 32 and 64’ (5, 10 and 20 meter) Stocked
- Epoxy Sealed Aluminum Back Shell
- Rated to 125°C (257°F)

**CMCP602LST and CMCP603LST Series**
**General Purpose Seal Tight Cables**

- 2 or 3 Pin MS 5015 Push On Connector
- Black TPE 20 AWG Shielded Cable
- 16, 32 and 64’ (5, 10 and 20 meter) Stocked
- Epoxy Sealed Aluminum Back Shell
- Rated to 125°C (257°F)

**CMCP602H and CMCP603H Series**
**High Temperature Locking Collar Cables**

- 2 or 3 Pin MS 5015 Screw On Connector
- Red FPE 20 AWG Shielded Cable
- 16, 32 and 64’ (5, 10 and 20 meter)
- Epoxy Potted Back Shell
- Rated to 200°C (392°F).

**CMCP602HST and CMCP603HST**
**High Temperature Seal Tight Cables**

- 2 or 3 Pin IP68 Push On Connector
- Black FEP 20 AWG Shielded Cable
- 16, 32 and 64’ (5, 10 and 20 meter)
- Epoxy Potted Back Shell
- Rated to 200°C (392°F).

**Armored Cable Option**

All our Extension Cables are optionally available with overall hose or braided Stainless Steel armor to provide increased protection to extend the life of the cable and provide additional shielding when conduit is not used. All cables are stock in 16’, 32’ and 64’ (5, 10, 20 meter) lengths. Custom lengths available.

# Accelerometer Mounting

STI offers a complete line of Accelerometer Mounting Hardware. All Mounting Hardware is in stock and ready for immediate delivery. See our website for a complete list.

**CMCP200 Series**
**Accelerometer Mounting Pads**

- 1” (2.54 mm) Diameter
- 1/4” and 3/8” Thick Stainless Steel
- Magnetic and Non-Magnetic Versions
- With or Without ¼”-28 UNF Tapped Hole

**CMCP205 Series**
**Motor Fin Mounts**

- Available in Four (4) Sizes
- 416 Stainless Steel (Magnetic)
- Obtain Meaningful Data on Motors

**CMCP203 Series**
**Pipe Thread Adapters**

- 4 Sizes Available
- ¼”, 3/8”, ½” and ¾” NPT
- 316 Stainless Steel
- 1/4"-28 UNF Threaded Hole

**CMCP250**
**Accelerometer Mounting Kit**

- 25 Mounting Pads
- 8 Motor Fin Mounts
- 1 Piloted Spot Reamer
- ¼”-28 UNF Mounting Studs
- Adhesive and Silicone Dielectric

**CMCP270**
**Sensor Installation Tool Kit**

- Recommended for Accelerometer Mounting
- Creates a Smooth Mounting Surface
- Disposable and Low Cost
- Drill and 1/4"-28 UNF Tap Included

**CMCP271**
**Indexable Counter Bore**

- Heavy Duty Long Lasting Design
- Replaceable Cutting Blades
- 1/2" (12.7 mm) Shank
- Drill and 1/4"-28 UNF Tap Included

# CMCP500 Series
# Transmitters and Monitors

CMCP500 Series are available in both Transmitter only and Monitor with alarms and relays versions.

## Features:

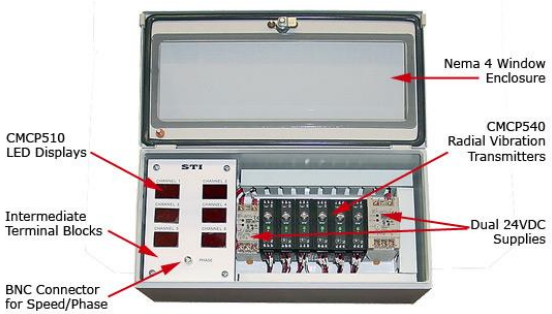
- Full API 670 Functionality at a Low Cost
- Single Channel for Easy Distribution
- Din Rail Mountable
- 4-20 mA Output
- Sensor Fault Detection (OK Circuit)
- Buffered Transducer Output for Analytical Systems
- Alert, Danger & OK Alarms and Relays
- Optional Plug In Filters
- Trip Multiply
- Latching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

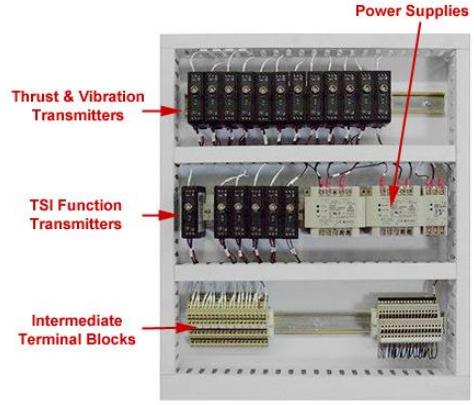
## Available CMCP500 Series Models

CMCP525(A) Acceleration In/Acceleration Out
CMCP530(A) Acceleration In/Velocity Out
CMCP535(A) Velocity In/Displacement Out
CMCP540(A) Proximity In/Radial Vibration Out
CMCP545(A) Proximity In/Thrust Position Out
CMCP546(A) Absolute Vibration (TSI)
CMCP547(A) Differential Expansion (TSI)
CMCP548(A) Case Expansion (TSI)
CMCP549(A) Valve Position (TSI)
CMCP560(A) RTD Temperature
CMCP565(A) TC Temperature
CMCP570(A) Solid State Temperature
CMCP575 Speed/Tachometer
CMCP580(A) Eccentricity (TSI)
CMCP590(A) Acceleration Enveloping
CMCP595 Keyphasor Module/Buffer

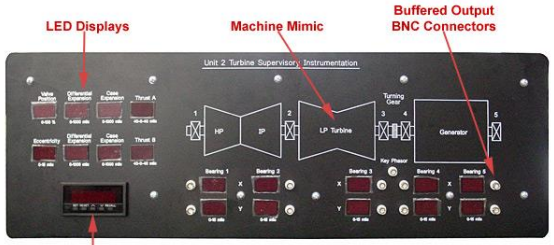
# Custom Integrated Systems

STI will integrate your custom machinery monitoring system per your specifications. Many systems include Intermediate Terminal Blocks, Field IO and Wireless Communication. Complete testing (FAT) is completed on all projects prior to shipping.




Transmitter Panel




Front Mimic Panel

Monitoring Systems Overview

## STI Vibration Monitoring Inc.

**CMCP500 Series Transmitters**

**CMCP7500MMS System**

**CMCP5300 Series System**

**CMCP1000 Vibration Switches**

**CMCP5019 Rack System**

**Custom Integrated Systems**

STI Vibration Monitoring Inc.
**www.stiweb.com**

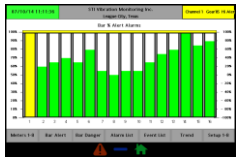
# CMCP7500MMS Machinery Monitoring System

The CMCP7500MMS is an HMI (Human Machine Interface) based Machinery Protection System. The CMCP7500MMS continuously monitors input from Channel Input Modules (Transmitters). The CMCP7500MMS is easily configured in the field to accept any Velocity, Acceleration, Enveloping, and Displacement, Thrust or Temperature input.


**Features:**

- 7” Color Touch Screen
- 19” EIA Rack Mount 6 DIN
- 800 x 480 Resolution
- Easy Setup in Field
- CE and Class 1 Division 2
- Remote Viewing
- Four Alarms per Channel
- Meter and Bar Graph Displays
- Alarm and Event List
- 16 Pin Trending
- Email and SMS Text Alerts
- 10 Base T/100 Base Ethernet

The CMCP7500MMS uses a 7” color touch screen with 800 x 480 resolution. 9” or larger is available optionally. The CMCP7500MMS’s built in Web Server allows remote viewing (or editing) by any internet connected PC or Smart Phone.



# CMCP5300 Series Machinery Monitoring Systems

The CMCP5300 Series Monitoring Systems are one, two, four and six channel Vibration Monitors that have been designed for use on typical rotating machinery such as motors, pumps fans, turbines, compressors, chillers, etc. The CMCP5300 Series can accept inputs from any industry standard 100 mV/g accelerometer, conditions the input signals to velocity and provides a digital display and alarm status indication.

**Features:**

- 1, 2, 4 or 6 Channels
- Meets API 670
- Two Levels of Alarm with Relays
- True “OK” Circuitry with Relay
- Adjustable Time Delays
- Trip Multiply
- 4-20mA Output
- Buffered Transducer Output
- Reset Button
- Bright LED Digital Readout
- 100mV/g ICP Accelerometer Input
- Class 1 Division 2 Rated Monitors

The CMCP5300 Series are pre-packaged solutions for all types of rotating machinery. STI's CMCP500 Series Single Channel Vibration and Temperature Monitors allow you to create a custom system for your exact application. By using single channel transmitters the exact amount of measurement points can be monitored, significantly lowering the cost compared to "rack" based systems that come with a minimum channel count per card.

The CMCP5300 Series Monitoring Systems come standard with STI’s CMCP530A-100A-02R but are also available with any other CMCP500 Series Monitors, please contact STI to specify the exact model number. The enclosure is available in NEMA 4X Fiberglass, NEMA 4 Painted Steel and NEMA 4X Stainless Steel.

# CMCP1000 Explosion Proof Solid State Vibration Switches

The CMCP1000 is a single channel Vibration Monitor with an accelerometer packaged in an explosion-proof housing that is suitable for NEC Division I hazardous areas. Designed to comply with rigid API670 standards, the CMCP1000 far exceeds the capabilities of competitive vibration switches.

**Features:**

- Solid State Reliability
- Interior Sensor
- Two Levels of Alarm with Relays
- True "OK" Circuitry with Relay
- Adjustable Time Delays
- Trip Multiply
- 4-20 mA Output
- Remote Reset
- Bright LED Digital Readout

In addition, the CMCP1000 offers a buffered transducer output for detailed diagnostics and optional high-pass and low-pass filters to monitor specific frequency bands.

# CMCP5019 19” EIA Rack Mounted 10-Channel Monitor

The CMCP5019 10 Channel Monitor is precisely designed for direct and simple replacement of obsolete rack mounted monitoring systems. The CMCP5019 mounts in any 19" EIA rack, or can be panel mounted in a cutout.

**Features:**

- 19" EIA Rack or Panel Mount
- Individual LED Displays
- OK/Alert/Danger Relays API-670
- Terminals for Customer Wiring
- 110 or 120 VAC Power
- Optional Power for Eddy Probes
- Optional Digital Communication
- CE Approved

# 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**

- ¼", 3/8", ½" and ¾" NPT
- ¼"-28 UNF Tapped Hole
- Makes use of existing NPT fittings.

Transmitters and Tachometers Overview

**STI Vibration Monitoring Inc.**

**CMCP420 Series Transmitters**

**CMCP420 Series Accessories**

**CMCP500 Series Monitors & Transmitters**

**Specialty Modules and Transmitters**

**Power Supplies**

**Tachometers**

STI Vibration Monitoring Inc.

**www.stiweb.com**

# 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