

CMCP5300 Series General Machinery Monitoring Systems



CMCP5304-E-FG-I Shown Above (Independent Displays)

System Description:

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 accept inputs from any industry standard 100 mV/g accelerometer, condition's the input signals to velocity and provides a digital display and alarm status indication.

Analog outputs (4-20 mA) are provided for each channel for interface to a PLC or DCS for trending, alarm and operator interface.

The alarm contacts for the OK circuit, and Alert and Danger may be interfaced to machine control and shutdown systems for a complete vibration protection solution. A BNC Buffered Output Connector is available on each monitor to provide a connection for further faulty analysis with a vibration data collector. Such as SKF's Microlog.

The system is a pre-wired turn-key package with power supply, and bright LED displays. The power supply accepts 110 or 220 VAC, 50 or 60 Hz. They are available in either an English or Metric configuration.

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.

For wiring diagrams or mounting instructions please see the CMCP500 series manual and quick start guide. The CMCP5300 Series Monitors provide a standard pre-packaged system for STI's CMCP500 Series Transmitter and Monitors.

Features:

- 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

Electrical Specifications:

Power: Accepts 110 VAC or 220 VAC, 60 or 50 Hz
 Frequency Response: (-3 dB) 2 Hz to 20 kHz.
 Buffered Output: BNC Connector 0-20 kHz.
 Accuracy: 5.0 % of Full Scale Range.
 Output: 4-20 mA proportional to the full scale range.
 Maximum Load: 600 Ohms Resistive per channel
 Case: Isolated.

See CMCP530A Vibration Monitor Datasheet for more information.

Environmental Specifications:

Operating Temp.: -20°C to +80°C (-4°F to +176°F).
 Storage Temp.: -55°C to +125°C (-67°F to +257°F).
 Relative Humidity: 0 - 95% Non-Condensing.
 Approvals: NEMA 4X, NEMA 4, IP66

Dimensions:

CMCP5301 and CMCP5302

Fiberglass (FG): 9.2"H x 11.20"W x 6.1" D
 Painted Steel (PS): 9.85"H x 11.8"W x 5.9"D
 Stainless Steel: (SS) 9.85"H x 11.8"W x 5.9"D

CMCP5304

Fiberglass (FG): 11.2"H x 13.21"W x 6.5"D
 Painted Steel (PS): 9.85"H x 11.8"W x 5.9"D
 Stainless Steel (SS): 9.85"H x 11.8"W x 5.9"D



CMCP5302-E-FG-C Shown
(Common Display)

CMCP5300 Series General Machinery Monitoring Systems

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 monitors, significantly lowering the cost compared to "rack" based systems that come with a minimum channel amount per card. The CMCP5300 Series Monitoring Systems are designed to be used with any CMCP500 Series Monitors, whether your applications calls for proximity probes, accelerometers, RTD's, Thermocouples or any other industry standard sensor STI can retrofit the CMCP5300 to accommodate your needs. Other enclosure types are available for systems that require more than 6 channels. STI's Custom Products Division can also provide custom built systems around your requirements.

For more information please contact your STI Sales Representative or contact STI directly at 281.334.0766.



CMCP5302-E-FG-I Shown with Door Open
(Independent Displays)



CMCP5302-E-FG-C Shown with Door Closed
(Common Display / Switchable)

Ordering Information:

CMCP530X-X-XX-X

- N: No Displays
- C: Common Switchable LED Display
- I: Independent LED Displays
- FG: Fiberglass NEMA 4X Enclosure
- PS: Painted Steel NEMA 4 Enclosure
- SS: Stainless Steel NEMA 4X Enclosure
- E: English Units (Factory Set for 0-1.00 In/Sec RMS)
- M: Metric Units (Factory Set for 0-25.4 mm/Sec RMS)
- 5301: 1 Channel Monitoring System
- 5302: 2 Channel Monitoring System
- 5304: 4 Channel Monitoring System
- 5306: 6 Channel Monitoring System

Sample Part Number:

CMCP5302-E-FG-I
2 Channel Monitoring System
English Units
Fiberglass NEMA 4X Enclosure
Independent Displays