

CMCP5300K Series General Machinery Monitoring System Kits



CMCP5304K-E-FG-I Shown Above

System Features:

- API 670 Compliant for Machine Protection Systems
- Includes Sensors and Cables
- Packaged Solution for Any Application
- Adjustable Alert and Danger Relays
- Adjustable Time Delays
- Trip Multiply
- 4-20mA Outputs
- Buffered Transducer Output
- Reset Button
- Bright LED Digital Readout

System Description:

The CMCP5300K Series Monitoring Systems Kits 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.

Bundled as a complete solution, the CMCP5300K Series Kits come complete with STI's CMCP786A 100mV/g Accelerometers and our CMCP602L 32' (10m) Sensor Extension Cables. An optional sensor installation kit is available to provide the user with the necessary tools to properly install the accelerometers. The kits are available in 1, 2, 4 and 6 channel systems allowing for single or multiple bearings to be monitored for around-the-clock protection.

System Function:

The CMCP5300K Series Monitoring Systems conditions the input signals to velocity and provides a digital display and alarm status indication. Each vibration monitor provides an adjustable Alert and Danger Relay Output which may be interfaced to a machine control and shutdown interface or notification system. Each vibration monitor also provides a 4-20mA output for connecting a PLC, DCS or HMI system for displaying, trending, and alarming on the facility's local operating system. When an "alert" or "danger" status appears, a Buffered Output BNC Connector is provided on the front of each vibration monitor to allow for further fault 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. Systems are available in either English or metric units but can be adjusted on site to your specific vibration range. The CMCP5300 Series Monitoring Systems come standard with STI's CMCP530A-100A-R-ISO but are also available with any other CMCP500 Series Monitors, please contact STI to specify the exact model number. Enclosures are available in NEMA 4X Fiberglass, NEMA 4 Painted Steel and NEMA 4X Stainless Steel.

Specifications:

Vibration Monitoring System: See CMCP500 Series Datasheet for details.

Sensor: See CMCP786A Datasheet for details.

Cable: See CMCP602L Series Datasheet for details.

CMCP5300K Series General Machinery Monitoring System Kits

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 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 customize 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 provide custom built systems around your requirements.

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 and CMCP5306

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



*CMCP5302K-E-FG-I Example with
Sensors and Cables*

Ordering Information:

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



*6 Channel System Solution Kit example shown –
CMCP5306K-E-FG-C with Common Switchable LED
Display and Sensors and Cables*