SKF

Condition Monitoring Custom Products

"Vibration Monitoring and Machine Protection Systems"

2911 S. Shore Blvd., Ste. 170, League City, TX 77573 Phone: 281.334.0766 Fax: 281.334.4255

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www.cmcpweb.com

CMCP500
Low Cost Monitor System

Features

- *Low Cost*
- *1-12 Channels*
- *Digital Display Option*
- *Optional Enclosures*
- *4-20mA Outputs*
- *Alert & Danger Alarms*
- *Trip Multiply*
- *Transducer Fault Detection*
- *API 670 Compliant*

CMCP500 Monitoring Vibration, Thrust, & Speed

Description

The CMCP500 is a low cost condition monitoring system. Various options allow the user to configure the system with features and the exact number of channels required for a specific application. The system is based on the CMCP500 series Monitor and Transmitter Modules (specified separately) installed inside an specified enclosure.

API 670 Specification

The CMCP500 series monitor is designed as a low channel count system to meet all the major provisions of API 670 "Third Edition" including: (2) adjustable levels of alarm, fault and alarm LED indication, trip multiply, optional filters, BNC front panel access, 4-20mA output, and adjustable time delay. The optional LED display and DPDT slave relays should be ordered to fully comply with "the" API 670 "specification".

Enclosures

Available enclosures include Fiberglass NEMA4X, Painted Steel NEMA12, Stainless Steel NEMA4X, and cast aluminum for explosion proof requirements. Each can be specified to hold up to 12 Monitor Modules or 24 Transmitter Modules.

Monitor Modules

Monitor Modules are available for monitoring vibration in terms of acceleration, velocity or displacement. Position, Temperature, and Process Input Modules are also available. Each Monitor Module is user specified by model number. Features include RMS, Peak, or Peak to Peak Detection, Buffered Transducer Outputs, Filters, Fault Detection, and Analog Outputs.

Alarms

Alarms are provided with Monitor Modules. Transmitter Modules do not have alarms and are usually interfaced directly to a PLC or DCS for trending and alarming. Monitor Modules provide stand alone monitoring capability including Alert and Danger Alarms and SPDT (Single Pole Double Throw) output relay contacts. Alarm Levels and time delays may be independently adjusted. For additional information on alarms, refer to the specific Monitor Module data sheet.

Display Options

The system may be ordered without a display, with a common digital display, or with individual digital displays. A channel selector switch is provided for use with a common display. Common displays are setup to read a specific engineering unit or if multiple parameters are in use, 0-100% of full scale. Individual displays may be set up for specific engineering units or 0-100% of full scale.

Power Options

The CMCP500 system may be powered by a user supplied +24 Vdc, protected source, or from an external Vac/Vdc power supply. The CMCP515 is the recommended power supply and may be housed externally or packaged within the CMCP500 system. It is a linear regulated AC/DC supply that includes over voltage protection, barrier type connection terminals, and a user replaceable fuse. Please refer to the CMCP515 data sheet for additional information.

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Ordering Information:

CMCP500	-XX	-XX	-XX	Description
	-01 thru -04			1-4 Channels
	-05 thru -08			5-8 Channels
	-09 thru -12			9-12 Channels
		-F		Fiberglass, NEMA4X, Hinged Door, Quick Release Latches
		-S		Painted Steel, NEMA12, Hinged Door, Lock
		-SS		Stainless Steel, NEMA4X, Hinged Door, Lock
		-EX		Cast Aluminum, Explosion-Proof
			-01	No Display
			-02	Common Display, Internally Mounted Behind Window
			-03	Individual Displays, Internally Mounted Behind Window
			-04	Common Display, Externally Mounted Through Solid Door
			-05	Individual Displays, Externally Mounted Through Solid Door

Note: 1. External Displays are not available with explosion-proof enclosure.
2. Remember that +24 Vdc power must be supplied by customer or appropriate sized CMCP515 must be ordered separately.

Ordering Example: To order a 4-Channel system in a Fiberglass, NEMA4X enclosure with individual displays behind the door window specify part number **CMCP500-04-F-03**

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