



CMCP-HR4VT 4-Channel High Read Monitoring System For Four 4-20 mA Sensors with Alarm & Display



Features

- For Four 4-20 mA Sensors (Selectable)
- Alarm and Display Module (Two Levels of Alarm: Alert and Danger)
- +24 VDC Power Supply
- Fiberglass or Stainless-Steel Enclosure
- High Read Output (1-5VDC)
- Auxiliary Terminals for Second Loop Device
- Power On Green LED
- Din Rail Mounted
- Optional Modbus TPC Connection

Typical Applications

Designed as a low-cost full-time monitoring system for up to four 4-20 mA Vibration Sensors. Monitor and view the highest Vibration reading with the CMCP730D Alarm and Display Module.

Description

The CMCP-HR4VT takes four 4-20 mA Inputs and converts the Inputs to 1.0 to 5.0 VDC Outputs with the highest available on the High Read Output. Any of the 4 Channels can be selected to output on the Alarm Display or if selector is left in the HR position the highest of the 4 will be outputted. The CMCP730D Alarm and Display Module shows the actual engineering units at a glance.

The low-cost on-line monitoring system accommodates up to four 4-20 mA Velocity Sensors, a single CMCP-HR4, a CCP515-0625 Power Supply and a CMCP730D Alarm and Display Module. A second CMCP-HR4 and CMCP730D can be added for 4-20 mA Dual Parameter Sensor Temperature Outputs (CMCP420VT or CMCP422VTT).

Technical Performance

Supply Voltage: 100-240 VAC Wide Range Input

CMCP-HR4 4-Channel High Read Module

24 Terminals: 2 Terminals, +24 VDC In and Common
16 Terminals, 2x for each Loop, 2x Auxiliary Outputs for PLC/DCS (x 4 Channels)
4 Terminals for +24 VDC Power Out
2 Terminals to CMCP730D (Signal and Common)

Switch HR-Position: Combined Outputs for High Read
Switch 1-4 Position: Output of Respective Individual Loop
Green LED: 'On' Indication

CMCP730D Alarm and Display Module

Input Range Set to Voltage: 1-5.0 VDC
Accuracy: 1% of Full Scale
Relays: 2 Form C, SPDT, 5 Amps @ 30VDC/250VAC
Relay Function: Latching or Non-Latching Alarm Indication: Two LED Indicators (Alert and Danger)
Display: 4 Digit Display

CMCP500-04 Enclosure with DIN-Rail and Window

Enclosure Material: Powder Coated Steel (-PS), Stainless Steel (-SS), or Fiberglass (-FG)
 Mounting: Powder Coated Steel (PS) and Stainless Steel (SS) enclosures provide welded on mounting feet. Fiberglass (FG) versions are shipped with field installable mounting feet (qty. 4) inside of each enclosure.
 Size: 7.0" Wide x 8.0" High x 4.3" Deep (52.5mm x 98,8mm x 79.2mm)
 Terminals: Screw Type Terminals with Pressure Plate
 Wire Size: 22-14 AWG (Smaller Wire uses Ferrules)
 Weight: 1.5 Lbs. (0.227kg)
 Input: Up to four 4-20 mA Output Sensors
 Output: High Read Signal or switch selected 4-20 mA loop.

Ordering Information

CMCP-HR4VT -XX -XX Low-Cost Four Channel On-line Monitoring System
 -FG NEMA 4X Fiberglass Enclosure
 -PS NEMA 4 Painted Steel Enclosure
 -SS NEMA 4X Stainless Steel Enclosure
 -NE No Cable Entries
 -CG Cord Grips Installed

Each CMCP-HR4VT consists of one CMCP-HR4 High Read Module, one CMCP515-0625 Power Supply and one CMCP730D Alarm and Display Module din-rail mounted in a CMCP500-04 Enclosure.

4-20 mA Sensor Selection

Select four Sensors with the same Full-Scale Values and Detection Type

CMCP420VT -XX Loop Powered, Solid State Vibration Transmitter, CSA/UL Approved
 -01 0-1 in/sec (0-25.4 mm/sec) RMS Detection
 -02 0-2 in/sec (0-50.8 mm/sec) RMS Detection

CCP422VTS -XX -X -X -X Loop Powered Vibration Velocity Transmitter, Side Exit
CMCP422VT -XX -X -X Loop Powered Vibration Velocity Transmitter, Top Exit
 -01 1.00 in/s (25mm/s) Full Scale Range
 -02 2.00 in/s (50mm/s) Full Scale Range
 -R RMS Detection
 -P Peak Detection
 -C 2 Pin MS 5015 Connector
 -M12 4 Pin M12 Eurofast Connector
 -I Integral Braided Armor Cable (IP65)
 -IP Integral PUR Cable (IP68)
 -M8 M8x1.25 Mounting Thread - Side Exit Only
 Top Entry Sensors Provided with Both 1/4-28 and M8x1.25 Mounting Studs.

Please see complete list on [stiweb.com](https://www.stiweb.com) under Product -> Accelerometers -> 4-20 mA Ouput https://www.stiweb.com/2_Wire_Loop_Powered_Vibration_Transmitters_CMCP420VT_s/45.htm



CMCP422VTS Series
4-20 mA Sensors, Side Exit



CMCP422VT Series
4-20 mA Sensors, Top Exit



CMCP420VT Series
4-20 mA Sensors with Terminal