

CMCP7500MMS Machinery Monitoring System



Features:

- 7" Color Touch Screen
- 800 x 480 Resolution
- Easy Setup in Field
- CE and Class 1 Division 2 Approvals
- Built in Web Server (Remote Viewing)
- Four Alarms per Channel (2 High, 2 Low)
- Meter and Bar Graph Displays
- Alarm and Event List
- 16 Pin Trending
- Email and SMS Text Alerts
- 10 Base T/100 Base Ethernet

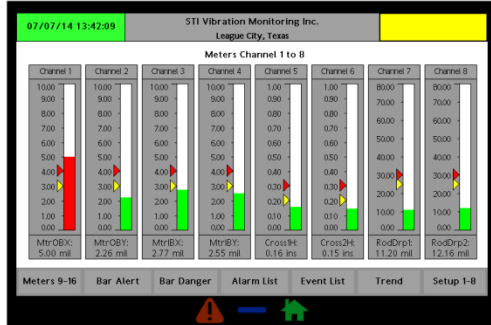
STI's **CMCP7500MMS Machinery Monitoring System** is a HMI (Human Machine Interface) based Machinery Protection System. The CMCP7500MMS is available in 8, 16, 24 and 32 Channels as Standard Options. The CMCP7500MMS continuously monitors input from Channel Input Modules (Transmitters). The CMCP7500MMS is easily configured in the field to accept any Velocity, Acceleration, Enveloping, Displacement, Thrust or Temperature input by selecting the required Channel Input Module and entering the appropriate values in the HMI. Channels can be individually turned Off or On to reflect actual channels used.

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. The CMCP7500MMS HMI is available mounted in a Painted Steel or Stainless Steel Enclosure, 19" EIA Panel Mount and with just Display and Back Plate for remote mounting of the Display.

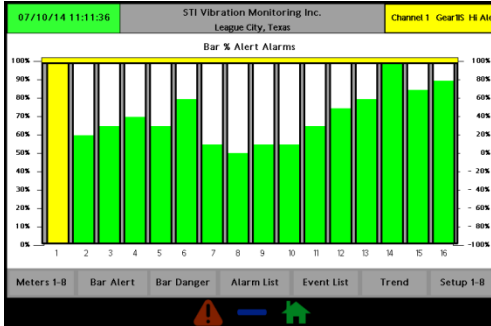
The CMCP7500MMS's 10/100 Base Ethernet Connections allow it to be easily by connected by Modbus TCP/IP to the plants PLC/DCS or Historian for additional display or trending. Other protocols are available optionally.

HMI Screens:

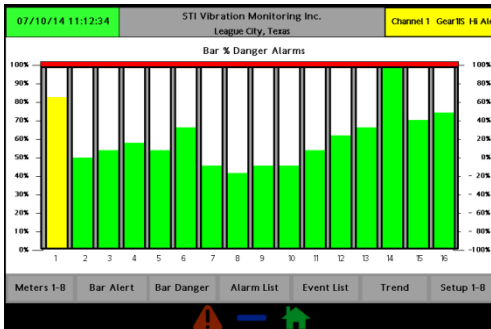
Standard System HMI Screens include Meter Display, Alert Bar Graph, Danger Bar Graph, Alarm List, Event List and Setup. Custom machine mimics are optional.



1. Meter Display: Unlike older monitoring systems the meters are fully configurable. Green, Yellow and Red Current Value Bars represent alarm status. Setpoints are displayed on screen in color. 8 Meters are shown per screen.



2. Alert Bar Graph: The Alert Bar Graph is a graphical representation of each channels % of its Alert Set Point. The Alert Set Point is at the top of the Bar Graph. The Current Value Bar is the percentage of that set point.



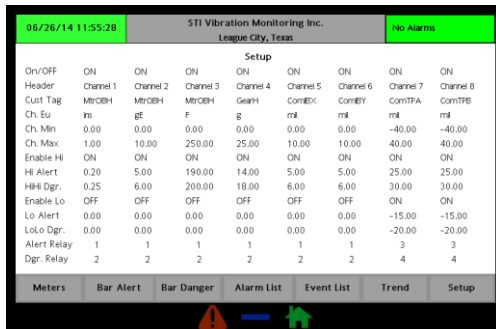
3. Danger Bar Graph: The Alert Bar Graph is a graphical representation of each channels % of its Danger Set Point. The Danger Set Point is at the top of the Bar Graph. The Current Value Bar is the percentage of that set point. The Current Value Bar will be Yellow if it has exceeded the Alert Set Point.



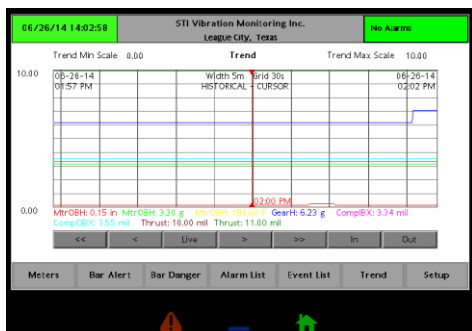
4. Alarm List: The System will list all active alarms on the Alarm List along with Tag Name, Date and Time, Type of Alarm. Only Active Alarms are shown.



5. Event List: The Event List is a historical persistent list of previous alarms. Length is determined by onboard memory.

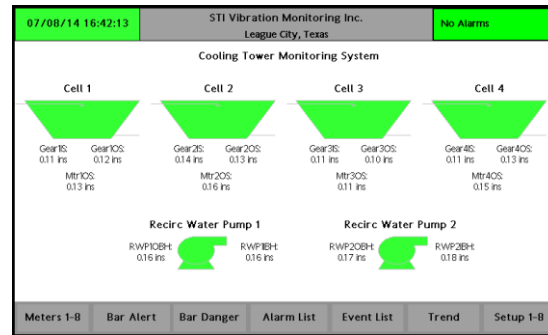
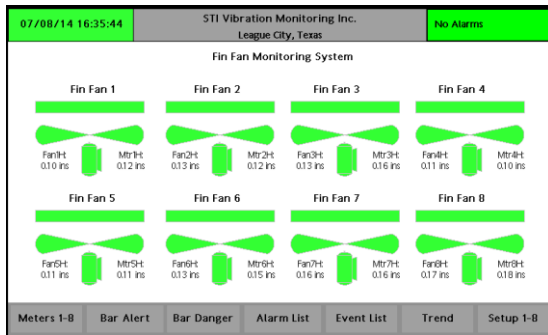
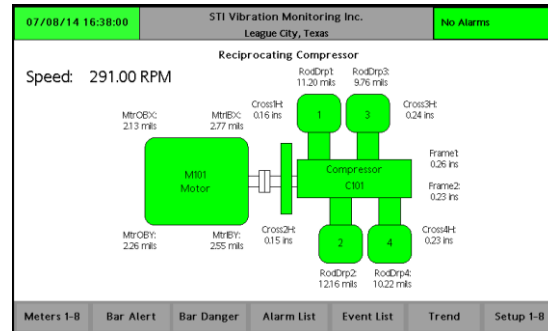
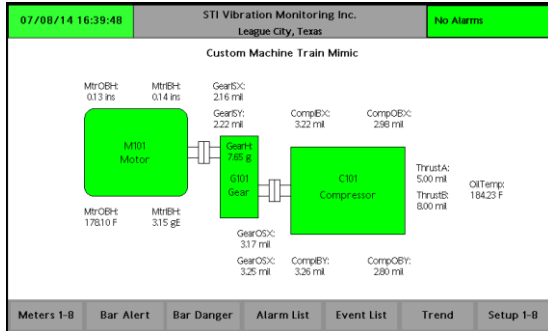


6. Setup: The Setup screen is used to turn channels off and on, enter tag identification, enter meter scales and activate and enter alarm set points. Relays assignments are also completed on this screen. By pressing "Setup" again the Company Information Screen is reached to change Header Name and Location along with date and time.



7. Trends: Up to 16 Trend Lines can be shown on a single screen. Trending does not need to be enabled if you are using a plant Historian. Standard setup is 1 minute intervals for a period of 2 weeks. The system will store a total of 10 two week files for a total of 20 weeks of data. Trend data is also available in .csv file format via connecting to internal web server or ftp. Optionally Trend intervals and length may be adjusted to suit your needs.

8. Mimics: Many Standard and Custom Machine Mimics are optionally available. Standard Mimics are available for Reciprocating Compressors, Fin Fans, Cooling Towers, Motor and Turbine Driven Compressors. Please contact us for more information and details of your specific application.



Available Channel Input Cards:

CMCP700S Slim Line (12.5 mm wide):

- CMCP736S Case Vibration
- CMCP740S Radial Vibration (Proximity)
- CMCP745S Thrust Position (Proximity)

CMCP500 Series w/BNC (25.4 mm wide):

- CMCP525 Acceleration (Accelerometer Input)
- CMCP530 Velocity (Accelerometer Input)
- CMCP535 Displacement (Velocity Input)
- CMCP540 Displacement (Proximity System Input)
- CMCP545 Thrust Position (Proximity System Input)
- CMCP560 RTD Temperature (2 or 3 wire RTD)
- CMCP565 TC Temperature (Thermocouple Input)
- CMCP570 Solid State Temperature (T Type Accelerometer)
- CMCP547 Differential Expansion (Proximity System Input)
- CMCP548 Case Expansion (LVDT Input)
- CMCP549 Valve Position (Rotary Pot or LVDT)
- CMCP585 Eccentricity (Proximity System Input)
- CMCP590 Enveloping gE (Accelerometer Input)

Specifications:

Screen	7" WVGA 800 x 480 Color Touch Screen (9" Optional)
Memory	256 Mbyte Internal + 2 Gbyte Memory Card
Inputs	Up to 32 Channel Input Cards
Alarms	4 Alarms per Channel 2-Lower and 2-Upper
Alarm Setpoints	0-100% of Full Scale
Alarm Delay	Programmable, 3 Second Standard
Power	100-240 VAC, 50-60 Hz 85-375 VDC 24 VDC Direct Power
Channel Scaling	-999.00 to +999.00
Web Server	Built In
Communication	10 Base T/100, Modbus TCP/IP 2 each RS-232 and 1 each RS-422/485 Port 250 Drivers for PLC, PC's, SCADA and Historian 10 Protocols Simultaneously Email and Text Messaging
Relays	6 Assignable Relays 3 Amp 30 VDC or 125 VAC
Environmental	HMI Display: Operating Temperature -20 to 60C (-4 to 140F) Storage: -20 to 70C (-4 to 158F) 0-85% Humidity Non=Condensing Back Plate: Operating Temperature: -10 to 70C (14 to 158F) Storage: -25 to 85C (-13 to 185F) 0-95% Humidity Non-Condensing
19" EIA Rack Mount	10.5" High x 19" Wide x 8" Deep (267 x 483 x 203 mm)□
Approvals	CE, CSA/UL Class 1 Division 2

Ordering Information:

CMCP7500MMS	-XX	-XX	
	-08		8 Channel
	-16		16 Channel
	-24		24 Channel
	-32		32 Channel
		-NA	No Enclosure (HMI and Back Plate)
		-EIA	19" EIA Panel Mount
		-PS	Painted Steel Enclosure
		-SS	Stainless Steel Enclosure