

Data Sheet CMCP-HMI (Human Machine Interface)

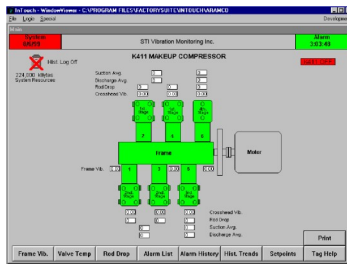


Making use of the world's most popular HMI software (Human Machine Interface), Wonderware Intouch, STI's CMCP-HMI System provides a complete Monitoring System when communicating via digital link to STI's distributed Field IO and Transmitter Based Sensors. It can be used on a single machine or dozens of machines. Each CMCP-HMI is provided with the following basic screens: Machine Mimic, Channel Setup, Alarm List, Historical Alarm List, Real Time Trends and Historical Trend.

The basic structure of each screen is the same and includes Communication Alarm, Global Alarm, Navigation Buttons and Acknowledgment/Reset of Alarms. Navigation is intuitive and easy to learn. The HMI system is highly customizable at customer request and is based on proven field installed systems.

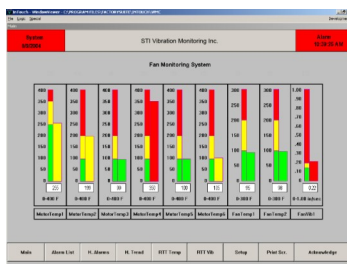
Individual channels can be Enabled/Disabled and programmed to signal relays located anywhere on the network. STI's Speed Transmitters can be used to provide "Machine Speed" to the system allowing for "Trip Multiply" functions during startup.

1. Machine(s) Mimic:



STI's Main Mimic Screen is designed to provide users with all important machinery information at a glance. If the screen is all green there are no alarms. Alarms per standard industry protocols flash Yellow or Red when they first appear, and pressing the "Acknowledge" button on the screen changes the alarm to steady state. Once the parameter values decrease below the set point level they can be reset or will clear themselves if "Non-latching Alarms" is selected.

2. Bar Graph/Meter (Optional):



Bar Graphs or Meter Simulations can be provided for those users wishing to simulate older style displays. STI's Meter Simulations are highly graphic and use colors to denote Alert and Danger alarm set points and the current value in engineering units. All Bar Graph Displays include Tag Name and a decimal display in engineering units.

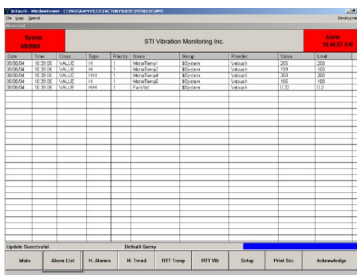
3. Channel Setup Screen(s):



Tag Name	Unit	Scale	Offset	Full Scale	Low Alarm	High Alarm	Low Alarm	High Alarm
Eq100A	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100B	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100C	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100D	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100E	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100F	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100G	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100H	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100I	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100J	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100K	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100L	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100M	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100N	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100O	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100P	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100Q	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100R	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100S	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100T	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100U	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100V	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100W	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100X	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100Y	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50
Eq100Z	g	1.00	0.00	1.00	0.50	1.50	0.50	1.50

Password protected Setup pages are provided for all monitored parameters and include Tag Name, Status, Full Scale Range, Enable/Disable, Current Value and 4 Alarm Set Point Values (2 Low, 2 High). Global Alarms at the top of the Screen alert the user to any alarms during setup changes. Multiple pages may be used for high channel count systems.

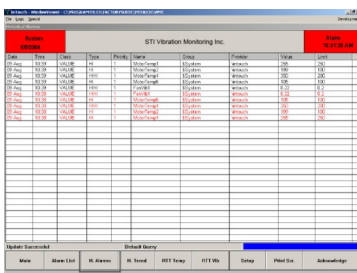
4. Current Alarm List:



Tag Name	Date	Time	Alarm Type	Priority	Current Value	Low Alarm	High Alarm
Eq100A	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100B	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100C	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100D	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100E	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100F	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100G	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100H	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100I	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100J	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100K	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100L	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100M	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100N	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100O	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100P	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100Q	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100R	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100S	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100T	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100U	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100V	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100W	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100X	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100Y	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100Z	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50

The "Alarm List" screen lists all current alarms. If there are no current alarms the list will be empty. Information displayed includes, Date, Time Stamp, Alarm Type and Tag Name. Any communication alarms will also be shown such as loss of connection to a I/O Module.

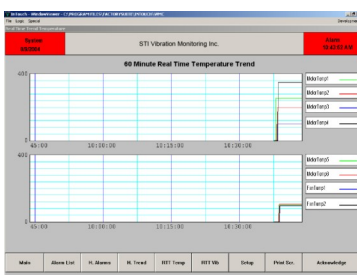
5. Historical Alarm List:



Tag Name	Date	Time	Alarm Type	Priority	Current Value	Low Alarm	High Alarm
Eq100A	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100B	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100C	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100D	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100E	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100F	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100G	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100H	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100I	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100J	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100K	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100L	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100M	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100N	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100O	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100P	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100Q	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100R	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100S	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100T	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100U	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100V	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100W	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100X	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100Y	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50
Eq100Z	10/20/10	10:00:00	High Alarm	1	1.50	0.50	1.50

The "Historical Alarm List" screen displays all historical alarms up to 999 deep (standard setup). Providing the same information as the Alarm List, it also displays and records the time alarms were acknowledged or reset. The Historical Alarm List size is only limited by computer memory.

6. Real Time Trends:



Real Time Trends of machine parameters are provided. They scroll from right to left much like a paper chart recorder. They are useful to Operators during startup and other upset events. Up to 4 channels may be displayed per Real Time Trend and multiple (2-8) trends may be shown on a single screen.

7. Historical Trend:



The Historical Trend Screen allows the user to view historical data for up to 8 parameters at a time (16 parameter optional). Parameters and time frame are easily selected. A "Zoom" function is included. Any parameter mix may be trended even with different scaling. As an example, parameters from different machines may be trended on the same screen.

Ordering Information

CMCP-WW-APP-XXX