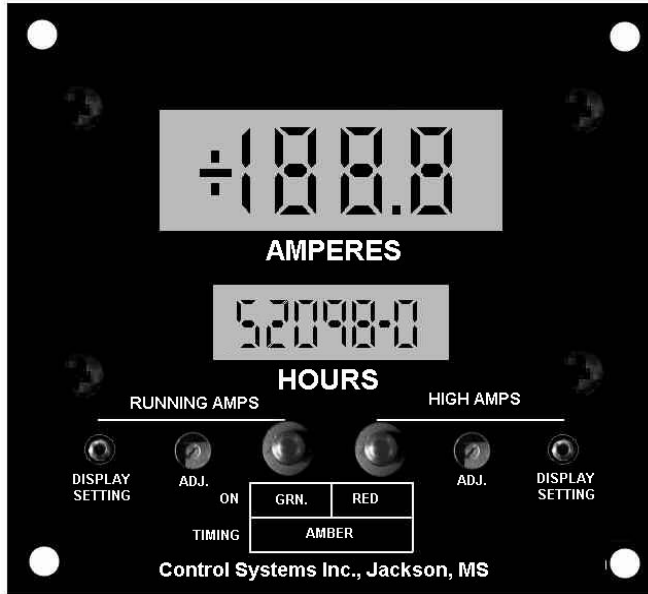




# PRODUCT DATA BULLETIN

BULLETIN  
MM101B  
MOTOR  
MONITOR



## STANDARD FEATURES

- TRUE RMS AMPERAGE READING ON A 3½ DIGIT LCD DISPLAY
- LCD HOUR METER TO 99,999.9 HOURS
- CURRENT TRANSFORMER INPUT
- TRI-COLOR LED STATUS INDICATORS
- RUNNING AND HIGH AMP. SETPOINTS WITH VARIABLE ON / OFF DELAYS
- SETPOINTS VIEWABLE ON DISPLAY
- TWO DRY-CONTACT RELAY OUTPUTS
- 4-20 ma OUTPUT OPTION
- PANEL MOUNTED
- 115/120 VAC OPERATION

## DESCRIPTION

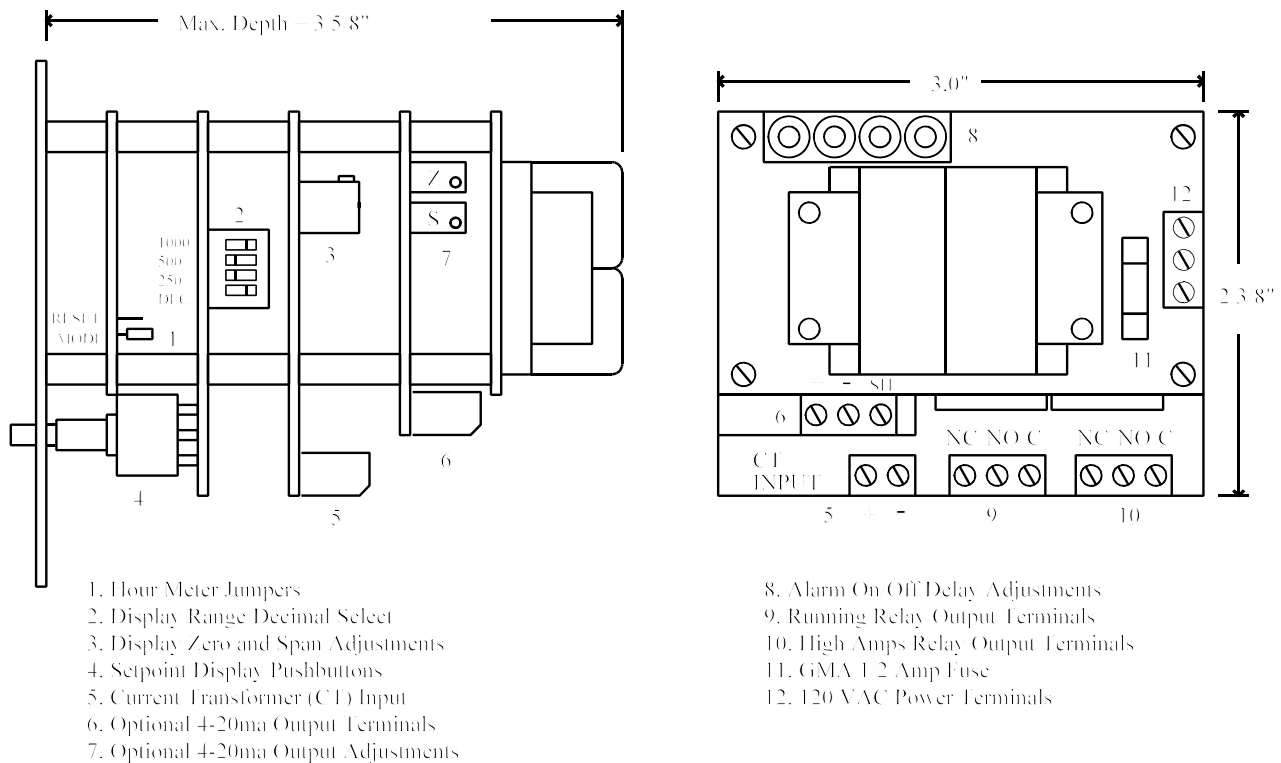
The model MM101B motor monitor board is a 115/120 VAC powered solid-state instrument, combining a 3 ½ digit ampere meter, running-time meter and relay trip points for Running amp.'s and High amp.'s. The LCD display shows true RMS amperes and is also used to display the setpoints for easy adjustments. A separate 6-digit LCD hour meter is provided which is capable of recording up to 99,999.9 hours. The hours total is maintained in non-volatile memory and does not require battery backup. The input to the unit is from a 0-5 ampere current transformer (CT). An integral 4-20 ma output board option is available.

## SUGGESTED SPECIFICATIONS

Provide an electronic solid state motor monitor powered by 120 VAC, that will accept a 0-5 amp. input signal, condition the signal to perform On/Off or Open/Close discrete dry type setpoint contact conditions based on the input signal value. Provide an LCD readout meter providing field adjustable scales of 0-25.0, 0-50.0, 0-100.0, 0-250, 0-500 and 0-1000 to accurately indicate the motor full load current using the 0-5 amp. CT input signal. The monitor shall be capable of displaying motor total running time up to 99,999.9 hours and be provided with reset capability from the rear of the unit. The running time meter shall be provided with a non-volatile EEPROM memory backup system which does not require the use of batteries. Provide two (2) separate field-adjustable setpoints, each with discrete, isolated sealed SPDT relay output contacts. Each setpoint shall be adjustable throughout the complete signal input range from the front of the monitor and shall be displayed on the LCD display at any time. Each setpoint shall be provided with field adjustable On and Off delay times adjustable from 0 to 15 seconds. LED indicators shall be provided for each setpoint which operate in the following manner: (1) Setpoint #1 -- When the setpoint is timing, the indicator shall be amber. After the timing period is over and the current is above the setpoint, the indicator shall be green. (2) Setpoint #2 -- When the setpoint is timing, the indicator shall be amber. After the timing period is over and the current is above the setpoint, the indicator shall be red.

## SPECIFICATIONS

- SUPPLY VOLTAGE: 115/120 VAC, 50/60 Hz.
- SUPPLY CURRENT: 50 ma
- POWER CONSUMPTION: 6 Watts
- OUTPUT CONTACT RATING: 3 Amps @ 24vdc
- DUTY CYCLE: Continuous
- NAMEPLATE DIMENSIONS: 3 1/2" Wide X 3 1/4" High
- PANEL CUTOUT DIMENSIONS: 3 1/8" Wide X 2 1/2" High



## ORDERING INFORMATION

Motor Monitor: MM101B

## OPTIONAL BOARDS

4-20 ma Board: MM420B

**WARRANTY:** Control Systems, Inc. (CSI) warrants equipment of its own manufacture to be free from defects in material and workmanship, under normal conditions of use and service, and will replace any component found to be defective on its return to CSI, transportation charges prepaid, within one year of its original purchase. CSI will extend the same warranty protection on accessories which is extended to CSI by the original manufacturer. CSI also assumes no liability, express or implied, beyond its obligation to replace any component involved. Such warranty is in lieu of all other warranties express or implied.



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