



CurrentMark 3000 - Fixed Panel Mount AC Current Indicator

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www.crmagnetics.com



- SELF-POWERED DIGITAL LCD DISPLAY WITH OPTIONAL ALARM FEATURE
- EQUIPPED WITH EITHER INTERNAL OR REMOTE POWER SUPPLY
- FACTORY CALIBRATED TO 0- 50AAC INPUT RANGE
- MONITOR STATUS OF HEATER ELEMENTS
- MONITOR MOTOR FUNCTION
- OBSERVE REMOTE LOADS
- INDICATE PHASE LOSS
- 300 AAC In-Rush, 100 AAC Max. Continuous
- 600 VAC Max. Rating
- 50/60 Hz Bandwidth



GENERAL DESCRIPTION:

The CurrentMark Display is a fixed, self-powered, low-voltage display offering the plant floor and production areas a means of monitoring current status to a variety of equipment types such as motors, heater elements, and various other equipment types.

SAFETY SUMMARY:

All safety regulations, local codes and instructions that appear in this and corresponding literature, or on equipment, must be obeyed to ensure personal safety and to prevent damage to either the instrument or equipment connected to it. If equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

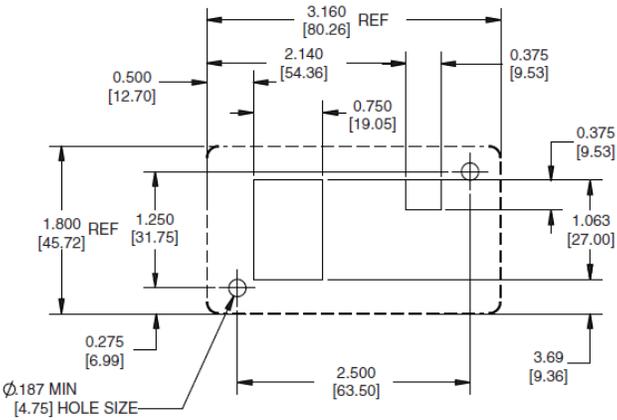
SPECIFICATIONS:

1. Display: Digital LCD display
2. Application Environment: Indoor Fixed Commercial and Industrial Applications Only
3. Power Requirements: Fully Insulated Supply Wiring – UL Rated 600V 105°C minimum
4. Safety Certifications and Compliances:
 - LISTED by Underwriters Laboratories to U.S. and Canadian Safety Standards
 - UL Listed Component, Control # 4ST7, UL61010-1, 2nd Edition, CSA C22.2 No. 61010-1, 2nd Edition
 - (Measurement, Testing and Signal Generation Equipment)
 - Product Category CCN: PICQ, PICQ7
 - Measurement Category III (600V) - Internal Models
 - Measurement Category II (600V) - External Models
 - IEC 61010-1, (Safety of measuring, control and laboratory equipment)
 - IEC 60529 Enclosure Rating: IP X0
 - Pollution Degree: 2
 - Equipment Class: II
5. Environmental Conditions:
 - Altitude: Up to 2000 meters
 - Operating Temperature Range: -30°C to 55°C
 - Storage Temperature Range: -40°C to 60°C
 - Operating and Storage Humidity: Maximum relative humidity 80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity at 40°C.
6. Mounting Requirements: Max. panel thickness - 0.125" (3.18 mm)
Min. panel thickness - 0.060" (1.57 mm)
7. Cleaning: Clean with soft, dry, rag. Do not use detergents, alcohol, solvents or water.

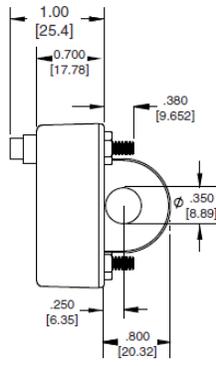
8. Installation:

- A. **WARNING: Disable all power sources before installation.**
- B. Prepare cutouts and holes in customer supplied mounting panel per hole pattern shown below.
- C. Mount device with locknuts provided and tighten with hand-held nut driver until snug. Do not over-tighten.
- D. If installing a device with remote current transformer, attach current transformer lead wires to the Green 2-position terminal block on back of device and tighten screws securely. Current transformer to be located in customer supplied industrial control panel or similar type enclosure suitable for application and applicable to all electrical codes and requirements – (ALL MODELS).
- E. Route equipment power supply wire through current transformer and connect per the equipment manufacturer’s recommendations
- F. Turn on equipment and check device for proper operation.

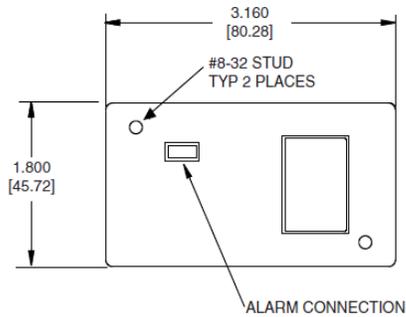
CRM3000 - INTERNAL POWER SUPPLY MODELS:



CRM3000-I
MOUNTING HOLE PATTERN
(VIEWED FROM THE FRONT)

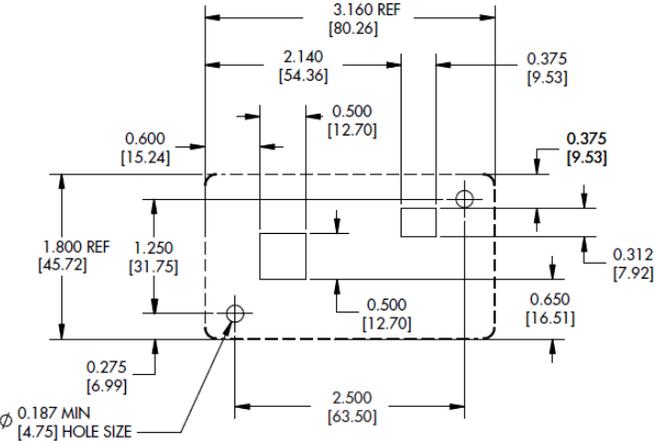


SIDE VIEW

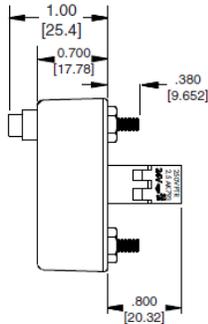


BACK VIEW

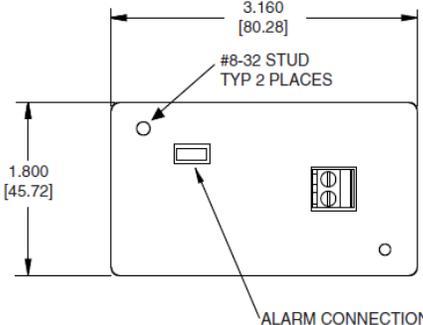
UNIT DIMENSIONS



CRM3000-R MOUNTING HOLE PATTERN
(VIEWED FROM THE FRONT)

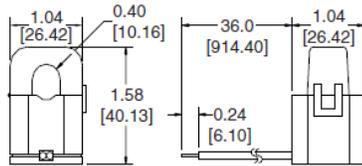


SIDE VIEW



BACK VIEW

UNIT DIMENSIONS



CR3110-1500-36
FOR REMOTE MODELS ONLY



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OPTIONAL ALARM INSTALLATION AND PROGRAMMING INSTRUCTIONS: (CRM3000-CBL-36)

1. Install alarm cable to customer supplied signaling device in accordance to device instructions and application.
2. Plug alarm cable into CRM3000 at 3-pin connector located in back of unit.
3. Provide power to unit.
4. Determine desired current level which alarm will activate.
5. Press and hold alarm button for two seconds and release.
6. LCD display blinks either the last alarm setting or "Aoff". (Unit is factory set in "Aoff" mode)
7. Depress and release alarm button until desired set-point is reached.
8. Press and hold alarm button for two seconds.
9. Set-point is stored in memory and unit returns to normal operation.
10. To deactivate alarm, press and hold alarm button for two seconds in "AoFF" mode.

ALARM CONNECTION DIAGRAM:

