RM1000 SERIES

Remote Monitor



₩CE®

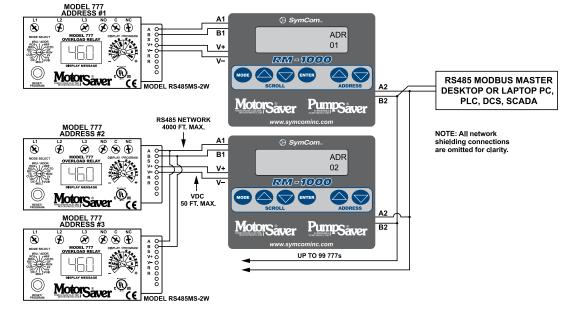


Wiring Diagram

Description

The RM-1000 Series is a motor-monitoring device to be used in conjunction with the 777 family of products (excluding the P1 Series), 77C family of products and the 601 voltage monitors, via Modbus protocol with a communications module. The RM-1000/777 motor management system combines unsurpassed electronic motor protection and critical, user-friendly, motor monitoring.

The RM1000 Series can monitor up to 16 MotorSaver® and/or PumpSaver® units through an RS-485 network using Modbus RTU protocol. A second communication port allows monitoring and control of up to 99 MotorSaver® and/or PumpSaver® units from a computer, PLC, DCS or SCADA system and can be accessed from the host computer or PLC with the RM1000 acting as a repeater for any of its motor protectors. In addition to the monitoring functions, the RM-1000 can be used to reset a tripped MotorSaver® or PumpSaver®.



Ordering Information

MODEL	DESCRIPTION
RM1000	NEMA 3R and/or UL Type 12
RM1000-3R	NEMA 3R
RM1000 NEMA 4	NEMA 4X

The RM1000 Series is easily mounted remotely and improves safety for service and operations personnel by allowing them to control and monitor the device without opening the electrical cabinet. Using the RM1000 is a simple, cost-effective method for aiding compliance with arc flash safety regulations. The enclosure and keypad assembly is water and ultraviolet light resistant. The enclosure is NEMA 3R or NEMA 4X (optional) rated. The RM1000 and RM1000 NEMA 4 also carry a UL Type 12 rating, whereas the RM-1000-3R does not carry the UL Type 12 rating due to added weep holes. The added weep holes in the RM1000-3R make it suitable for applications subjected to condensing moisture/humidity.



Features

Displays:

- Individual line currents and average current
- Current and voltage unbalance

RM1000 SERIES

- Individual phase voltages and average voltage
- Displays last four faults, trip reason, and restart timer status
- MotorSaver[®] and/or PumpSaver[®] setpoints
- Run-hours on each motor
- Warning of pending (imminent) faults Controls:
- Reset run-hour meter
- Reset MotorSaver[®] or PumpSaver[®]
- Change setpoints from the RM1000

Convenience:

- Power from RS485MS-2W communications module
- Monitor up to 16 777s with one display
- NEMA 3R outdoor rated
- Secondary steel enclosure available

Accessories

RS485-RS232 Converter with cable & plug

Allows RS485 devices to be connected to a PC via the RS232 (serial) port. Provides convenient terminal blocks for making signal and DC power supply connections. Pre-wired.



RS485-USB

Converter with cable & plug/RS232:USB Allows RS485 devices to be connected to a PC via the USB port. Provides convenient terminal blocks for making signal and DC power supply connections. Pre-wired.



RM1000 ENCL

Steel enclosure for protecting the RM-1000 remote communications monitor from adverse affects of weather and vandalism, while allowing normal communications connections to the RM-1000 unit.



Solutions Software: Solutions-M

Software features include data logging, real-time data monitoring and fault and event monitoring.

Specifications

Input Characteristics Control Power Functional Characteristics Communication **Baud Rate** Setup

Protocol **Serial Interface** Available Addresses

Mechanical Life Overlay Material UV Exposure w/o degradation 2000 hrs Terminal Torque (depluggable terminal block)

Panel Thickness

General Characteristics Ambient Temperature Range Operating Storage **Maximum Input Power Class of Protection**

RM1000, RM1000 NEMA 4

RM1000-3R **Relative Humidity** Safety Marks UL CSA CE **Enclosure Material** Display Size Keypad

Dimensions

Weiaht Mounting Method 12-24VDC (Supplied by RS485MS-2W)

Port #1 for 777(s) 1200-28800 None, Odd, or Even Parity 1 or 2 Stop Bits Modbus RTU RS-485 1-99 addresses (max 16 per RM-1000)

None, Odd, or RS-485

Even Parity 1 or 2 Stop Bits Modbus RTU Responds to all port #1

Port #2 for PC, PLC, etc.

1200-28800

3 in.-lbs. 0.03" min, 0.12" max

100,000 actuations

Polyester

-40° to 70°C (-40° to 158°F) -40° to 80°C (-40° to 176°F) 100mA

NEMA 3R and/or UL Type12, NEMA 4X (optional) NEMA 3R only Up to 85%, non-condensing

UL508 (File #E68520) 22.2 No. 14 (File #46510) IEC 60947-6-2 Black polycarbonate Liquid Crystal with extended temp. range 2 rows x 16 characters Six 0.5" stainless steel dome buttons for tactile feedback **H** 91.92 mm (3.62"); **W** 115.42 mm (4.54"); **D** 22.86 mm (0.9") 1.5 lbs. (24 oz., 680.39 a) Surface mountable on backplane using 4 screws

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