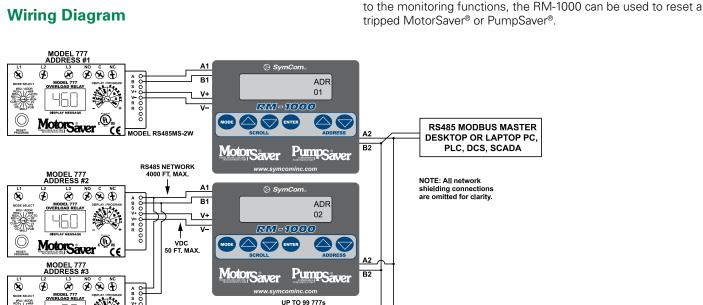


# RM1000 SERIES

#### Remote Monitor







FX: 262-252-1616

**Description** 

friendly, motor monitoring.

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

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

RM-1000/777 motor management system combines unsurpassed electronic motor protection and critical, user-

# **Ordering Information**

Motorsaver

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.

PH: 262-252-1600

# Protection Relays

Remote Indication and Monitoring



## RM1000 SERIES

#### **Features**

#### Displays:

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



PH: 262-252-1600

#### **Solutions Software: Solutions-M**

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

### **Specifications**

#### **Input Characteristics**

#### Control Power

FX: 262-252-1616

**Functional Characteristics** 

Communication Baud Rate Setup

Protocol Serial Interface Available Addresses

Mechanical Life 100,000 a Overlay Material Polyester UV Exposure w/o degradation 2000 hrs

Terminal Torque (depluggable terminal block)

Panel Thickness

General Characteristics

**Ambient Temperature Range** 

Operating Storage Maximum Input Power

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

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

Port #1 for 777(s) Port #2 for PC, PLC, etc.

 1200-28800
 1200-28800

 None, Odd, or
 None, Odd, or

 Even Parity
 Even Parity

 1 or 2 Stop Bits
 1 or 2 Stop Bits

 Modbus RTU
 Modbus RTU

 RS-485
 RS-485

1-99 addresses Responds to all port #1 (max 16 per

RM-1000) 100,000 actuations Polyester 2000 hrs

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

-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 g)

Surface mountable on backplane using

4 screws

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