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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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RM2000 SERIES

Remote Monitor



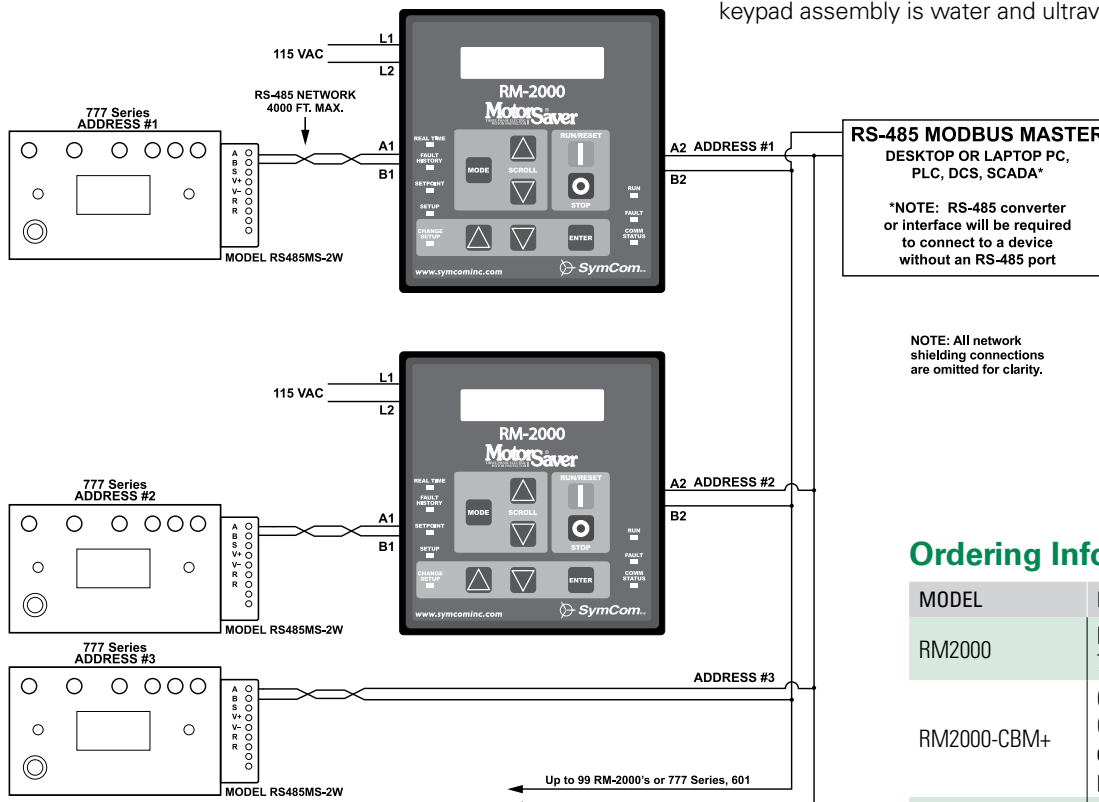
Description

The RM2000 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 Model 601 voltage monitors, via Modbus protocol with a communications module. The RM2000/777 motor management system combines unsurpassed electronic motor protection and critical, user-friendly, motor monitoring.

The RM2000 has membrane keypad controls which allow both monitoring and control of a 777 MotorSaver® through an RS-485 network using Modbus RTU protocol. A second communication port allows monitoring and control of up to 99 RM2000 devices from a PLC, DCS, or SCADA system or a PC with Solutions software installed. The RM2000 will act as a repeater for its motor protector when accessed from the host computer or PLC. In addition to the monitoring functions, the RM2000 can be used to reset a tripped MotorSaver® or PumpSaver®.

The RM2000 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 RM2000 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.

Wiring Diagram



Ordering Information

MODEL	DESCRIPTION
RM2000	Remote display monitor for 777 family relays
RM2000-CBM+	Coal Bed Methane Special. Optimizes gas production from coal bed methane wells while protecting submersible pump
RM2000-RTDW	Includes additional input for ground-fault module

RM2000 SERIES

Features

Displays:

- Average current, individual line currents and current unbalance
- Current to ground
- Average voltage, line-line voltages and voltage unbalance
- Instantaneous power
- Power factor
- Last four faults
- All parameters programmed into 777 MotorSaver®
- Remaining restart delay times

Controls:

- Start and stop buttons
- Key lock input to prevent setpoint changes
- Change 777 setpoints from keypad

The RM2000 is also equipped with a real-time clock, which allows access to the following motor management information (most readings can be reset):

- Total motor run-time
- Time and date of last four faults, along with voltage and current at time of trip
- Time and date of last 10 motor starts
- Total number of motor restarts
- Minimum time between any two starts with time and date
- Run-time since last start
- kWh consumed
- kVARs consumed

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.



Solutions Software: Solutions-M

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

Specifications

Input Characteristics

Control Voltage 115VAC ±10%; 50/60Hz

Transient Protection (Internal)

2500V for 10ms

Functional Characteristics

Communication

Baud Rate

Setup

Port #1 for 777 **Port #2 for PC, PLC, etc.**

1200-28800

1200-28800

Even Parity

None, Odd, or Even Parity

1 Stop Bit

1 or 2 Stop Bits

Modbus RTU

Modbus RTU

RS-485

RS-485

01

A01-A99

Protocol

Serial Interface

Available Addresses

Real-time Clock

Battery Back-up Life

Last fault memory

10 years @ 25°C without external power
Stores up to 4 faults with time and date stamp, includes voltages and currents at time of trip
Two independent electro-mechanical Form C (SPDT)
Silver/Tin Oxide

Configuration

Contact Material

Output Characteristics (RM2000-RTDW version only)

Pilot Duty Rating

240VA @ 120VAC

General Purpose Rating

5A @ 120VAC

General Characteristics

Ambient Temperature Range

Operating

-20° to 70°C (-4° to 158°F)

Storage

-30° to 70°C (-22° to 158°F)

Maximum Input Power

3 W

Class of Protection

NEMA 3R and/or UL Type 12

Relative Humidity

Up to 85%, non-condensing

Safety Marks

UL

UL508 (File #E68520)

CSA

C22.2 No. 14 (File #46510)

CE

IEC 60947-6-2

Enclosure

Material

Black polycarbonate

Display

Liquid crystal with extended temp. range

Size

2 rows x 20 characters

Lighting

LED Backlight

Keypad

Eight 0.5" stainless steel dome buttons for tactile feedback

Mechanical Life

100,000 actuations

Overlay Material

Polyester

UV Exposure

w/o degradation

2000 hrs.

Terminal Torque

(depluggable terminal block)

3 in.-lbs.

Dimensions

H 162.56 mm (6.4"); **W** 154.94 mm (6.1");

D 27.94mm (1.1")

Weight

1.2 lbs. (19.2 oz., 544.31 g)

Mounting Method

Surface mountable on backplane using 4 screws