Morningstar’s Remote Meter (RM-1) is a universal, four digit display with custom icons that is compatible with several Morningstar controllers and inverters. This meter provides comprehensive system information for easy monitoring including voltage, current and temperature.

**Key Features and Benefits:**

- **Provides Important Information**
  The digital meter displays voltage, current, temperature, logged data, settings, alarms and error reporting for easy troubleshooting. Present, cumulative and maximums/minimums are indicated. The LED’s display battery level and operating state.

- **Easy to Install**
  Simply plugs into other Morningstar products via RJ-11 connector. May be mounted in the wall or on the wall using the included frame. Also includes 10 meters of wiring with RJ-11 connectors and mounting screws.

- **Simple to Use**
  Three soft buttons allow for simple navigation of the meter menus. Custom icons and back lighting make the meter easy to read and understand.

- **Low Self-Consumption**
  The Remote Meter was designed for low self-consumption to avoid draining the system batteries on even small solar systems. Self-consumption is 6 mA with backlight off and 15 mA with backlight on.

- **Adjustability**
  The temperature may be displayed in either °C or °F, the backlight timer may be adjusted for desired running time and the amp-hours and minimum/maximum values may be reset.

**Mounting Options**

- In Wall Mount
- Frame Mount
- Back View
## Technical Specifications

### Electrical
- **Self-consumption:**
  - Backlight off: 6 mA
  - Backlight on: 15 mA
- **Minimum Operating Voltage:** 8 V

### Mechanical
- **Connector type:** RJ-11 (6 pin)
- **Faceplate dimensions:** 9.5 x 9.5 cm / 3.8 x 3.8 in.
- **Faceplate material:** Powder coated steel
- **Meter back dimensions:** 7.4 cm / 2.9 in. diameter
  - Fits 7.6 cm / 3 in. round hole
- **Frame dimensions:**
  - 11.4 x 11.4 x 3.5 cm
  - 4.5 x 4.5 x 1.4 in.
- **Frame material:** PBT plastic
- **Meter cable:**
  - 10 m / 33 ft (6 conductor)
  - May be extended to 30 m / 100 ft
- **Meter cable temp. rating:** 60 °C / 140 °F
- **Meter weight:** 135 g / 0.3 lbs

### Environmental
- **Ambient Temperature:**
  - -20 °C to +60 °C
  - -4 °F to +140 °F
- **Storage Temperature:**
  - -30 °C to +80 °C
  - -22 °F to +176 °F
- **Humidity:**
  - 100% N.C.
  - Printed circuit board is conformal coated

### Certifications
- CE Compliant
- RoHS Compliant
- Manufactured in a certified ISO 9001 facility

### Compatibility
- SunSaver Duo controller
- SunSaver MPPT controller
- SureSine inverter

The Remote Meter is available in a package with certain Morningstar products and is also sold separately.

## Warranty
Five year warranty period. Contact Morningstar or your authorized distributor for complete terms.