**SOLAR SURVEY 200R**

**INTRODUCTION**

The 200R can wirelessly connect to the PV150/PV200/PV210 and Solar Utility Pro to give real-time irradiance, ambient temperature and PV module temperature measurement results simultaneously with the electrical tests being conducted, as required by the IEC 62446 international standard. All test results can then be downloaded from the PV150/PV200/PV210 and Solar Utility Pro to the relevant PC software. The Solar Survey 200R model also includes a data logging facility with USB interface for data download to a PC. This allows for irradiance and temperature to be recorded at user-defined intervals over a number of hours or days, the collected data can then be downloaded to a PC for analysis of for inclusion in installation reports.

**KEY FEATURES:**

1. Measure irradiance and display in W/m2 for photovoltaic or BTU/hrft2 for thermal applications.
2. Supplied with suction mount temperature probe for hands-free ambient and surface temperature measurement
3. Built-in compass and inclinometer to measure roof orientation and pitch.
4. 200R can wirelessly connect to the PV150/PV200/PV210 and Solar Utility Pro (available separately).
5. Built-in data logger and USB interface
6. Rugged, robust and handheld.
7. Optional mounting bracket for accurate and easy measurements.

 **Supplied with the instrument:**

1. Solar Survey 200R irradiance meter.
2. Temperature sensor.
3. USB Cable
4. Quick Start Guide.
5. Calibration Certificate.
6. Solar Survey 200R mounting bracket.

**Technical Specification:**

 **Irradiance**

 Display Range 100 – 1500 W/m2 or 30 – 500 BTU/hr-ft2

Measurement Range 100 – 1250 W/m2 or 30 – 400 BTU/hr-ft2

Resolution 1 W/m2 or 1 BTU/hr-ft2

**Temperature**

 Display Range -30°C to +125°C

Measurement Range -30°C to +125°C

Resolution 1°

**Compass Bearing**

Display Range 0° to 360°

Measurement Range 0° to 360°

Resolution 1°

**Inclinometer**

 Display Range 0° to 90°

Measurement Range 0° to 90°

Resolution 1°

**General Specification:**

**Instrument Dimensions and Weight**

 Weight 0.25kg / 0.6lb

Dimensions 14.8 x 8.0 x 3.3cm / 5.8 x 3.2 x 1.3”

Display Custom LCD

Power Source 2 x AA Alkaline Batteries

Battery Life >20,000 Readings

 Auto power down After 2 minutes (unless in transmit mode)

 On-board memory Datasets 5000

 **Connectivity**

Sample Rate - 1 to 60 minutes (user definable)

 Connectivity - USB download to PC (using free Data Logger – available online) Wireless connection to PV150/PV200/PV210/Solar Utility Pro (range c. 30m/100 ft.)

Service 2 year warranty