



Model No. TM-207

Product Description

- 3½ digits LCD display with maximum reading of 2000.
- External sensor.
- Measuring the Solar radiation emitted by the sun.
- Display units: W/m² (Watts per square meter) or BTU.
- Data Hold/ MAX/MIN functions

- Specification

Display	3½ digits, 2000 readings
Range	2000 W/m ² , 634BTU / (ft ² xh)
Resolution	0.1 W/m ² , 0.1 BTU/ (ft ² xh)
Accuracy	Accuracy: Typically within +/- 10W/m ² [+/-3 BTU/ (ft ² xh)] or +/- 5% whichever is greater in sunlight. Temperature included error +/- 0.38
Angular	Cosine corrected

APPLICATION

TM-207 Solar Power meter is ideal for the measurement of the solar radiation that is emitted by the sun from a nuclear fusion reaction that creates electromagnetic energy.

The spectrum of solar radiation is close to that of a black body with a temperature of about 5800 K. About half of the radiation is in the visible short-wave part of the electromagnetic spectrum. The other half is mostly in the near-infrared part, with some in the ultraviolet part of the spectrum.

The units of measure are Watts per square meter or BTU, the typical test and measuring applications are:

- Meteorology applications
- Agriculture applications
- Physics and optical laboratories
- Solar radiation measurement.
- Solar transmission measurement
- Solar power research
- Identify high performance windows
- Helpful to set up Solar PV Panels at optimum angles of incidence
- Light Intensity Measurement for the car windows