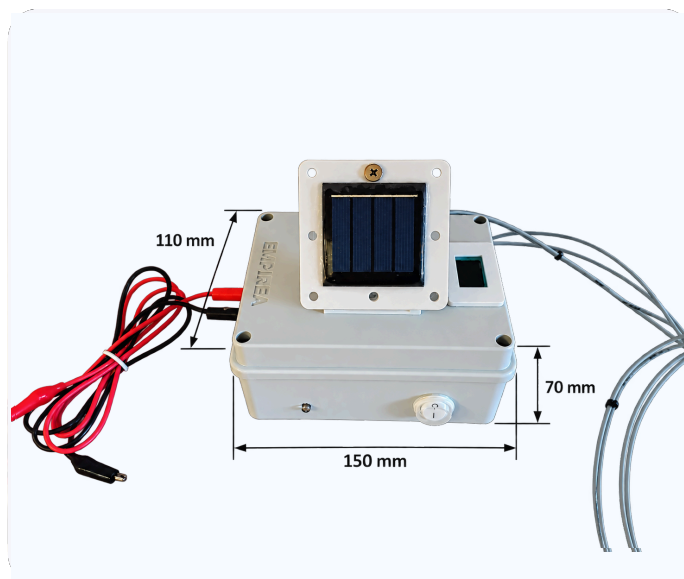


SOLAR IRRADIANCE · SOLAR ENERGY · DATA LOGGING

Solar irradiance data logger

Measurement and recording of radiant power incident on a surface at a given inclination, with a sensor in the 350 - 1100 nm spectral range.



POWER

0 - 1500 W/m²

resolution 0.1 W/m²

SPECTRAL RANGE

350 - 1100 nm

sensor sensitivity

ACCURACY

±5%

repeatability ±0.2 W/m²

DESIGNED FOR STANDALONE OPERATION

Suitable for monitoring irradiance on inclined surfaces, photovoltaic systems and experimental installations. The system can record autonomously for long periods without a permanent connection to a computer.

ESSENTIAL TECHNICAL DATA

Key specifications and functions

Radiant power - range	0 - 1500 W/m ²	Clock error	±3 s/day
Radiant power - resolution	0.1 W/m ²	Operating temperature	-20 / +60 °C
Radiant power - accuracy	±5%	Sampling	1 / 2 / 5 / 10 / 30 / 60 s
Repeatability	±0.2 W/m ²	Memory	microSD
Spectral sensitivity	350 - 1100 nm	Installation	outdoor use, rain resistant

FUNCTIONS

- Radiant-power data logger in W/m² with timestamp.
- Sampling selectable on the instrument, with support for intervals longer than 60 s.
- Daily text files on microSD, with standalone recording capacity for years.
- Date and time programmable directly on the instrument.
- Programmable slope and offset calibration.
- ON/OFF filter with configurable threshold and exponential moving average with programmable alpha parameter.
- Configurable display and acquisition LED; battery-voltage and calibration-change log.

POWER SUPPLY AND MEMORY

Rechargeable 3.7 V - 12,000 mAh lithium battery. Charging via 12 V photovoltaic panel, max 2.5 A. Average consumption: 45 mA at 1 s sampling with display off.

The measurement includes radiation from surfaces facing the sensor, such as the ground or walls. The installation image is for illustrative purposes.