



Measure total solar radiation

The PYR total solar radiation sensor (pyranometer) measures the solar radiation flux density (in watts per meter squared) from a field of view of 180 degrees.

Weatherproof for long-term use

The sensor is designed for continuous outdoor use and is completely waterproof and submersible.

Accuracy

Accurate measurement depends on the cleanliness of the lens and installation of the sensor at horizontal (180°). The sensor head has a domed diffusion disk to reduce the need for frequent cleaning. A leveling plate is included for accurate installation.



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Specifications

Spectral range	380 – 1120 nm
Accuracy	± 5%

Resolution	N/A
Field of view	Hemispherical, 180°
Measurement range	0 to 1,750 W m ⁻² (0 – 350 mV)
Calibrations and conversions	Sensors are calibrated for outside use 5.0 W m ⁻² per mV
Operating environment	-40 to +60 °C
Cable length	5 m
Cable connector types	3.5 mm "stereo" plug
Sensor dimensions	2.4 cm x 2.75 cm (0.95 in x 1.1 in)
Data logger compatibility (not exclusive)	METER Em50/50G, EM60 series, ZL6 series, ZSC, ProCheck
Warranty	One year, parts and labor