

Solar Radiation: Pyranometer

The pyranometer measures the solar radiation flux density (in watts per metre square) from a field of view of 180 degrees. Decagon's pyranometer is completely water proof, submersible, and designed for continuous outdoor use.

Accurate measurement depends on cleanliness of the lens, and installation at horizontal (180°). The domed top of our pyranometer is self-cleaning and comes with a leveling plate for proper installation.



For use with the Em50 or Em50R Datalogger.

Conversion Equation:

Use the following equation to convert raw data to solar radiation (Watts per m²):
 $W/m^2 = (RAW)(1500/4096)(5.0)$

Specifications

Range:

0 to 1,750 W m⁻²(0 - 350 mV)

Cable Length:

3 m (9.8 ft)

Sensor Dimensions:

2.4 x 2.75 cm (.95 x 1.1 in)

Warranty:

1 year parts and labor

Přístroje pro pedologii, hydrologii, meteorologii, výzkum rostlin a diagnostiku životního prostředí.