LI-COR LI-200R PYRANOMETER



Recommended for early stage prospecting, the Li-Cor LI-200R pyranometer is an excellent general purpose solar radiation sensor.

Li-Cor LI-200R Pyranometer (#10162)

DESCRIPTION	
Sensor type	Total solar radiation sensor
Applications	Solar resource assessmentMeteorological studiesEnvironmental monitoring
Sensor range	0 W/m² to 3000 W/m²
Instrument compatibility	All RNRG data loggers.
Measurement range	 SymphoniePRO measurement range = 0 W/m² to 2200 W/m², typical Symphonie, SymphoniePLUS and SymphoniePLUS3 measurement range = 0 W/m² to 1600 W/m², typical
Signal conditioning module	 SymphoniePRO with '0 to 160µA SE Input' P-SCM (#9129) Symphonie, SymphoniePLUS and SymphoniePLUS3 loggers with LI-COR Pyranometer SCM (#3154)
OUTPUT SIGNAL	
Signal type	Microamp current proportional to total solar radiation
Sensitivity	Typically 75 μA per 1000 W/m²
Linearity	Maximum deviation of 1 % up to 3000 W/m²
Response time	Less than 1 µs
Transfer function	Included on calibration certificate

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 Calibration sheet included with each sensor defines output in microamps per 1000 Watts/square meter
Calibrated against Eppley Precision Spectral Pyranometer (PSP)
under natural daylight conditions. Absolute uncertainty under
these conditions is +/-3 % typical, +/-5 % maximum
0 μA to 225 μA, typical
Cosine corrected up to 82 ° angle of incidence
$<$ +/- 1 $\%$ error over 360 $^{\circ}$ at 45 $^{\circ}$ elevation
No error induced from orientation
Mounts to tower with custom RNRG side mounting boom and hose clamps
Sheet metal shears or similar for hose clamps
 5/16 inch hex driver or flat blade screwdriver 0.05 inch hex key (included); metric #4 allen wrench for level
adjustment
-40 °C to 65 °C (-40 °F to 149 °F)
+/- 0.15 % per °C maximum
0 % to 95 %, non-condensing
2 have wire leads
3 bare wire leads
5 m (16.4 feet)

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Dimensions	23.6 mm (0.93 inch) diameter36.3 mm (1.43 inch) height
MATERIALS	
Cable	BL-type (3-wire bare leads)
Detector	High-stability silicon photovoltaic
Enclosure	Weatherproof anodized aluminum case with acrylic diffuser and stainless steel hardware

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