



Product Specifications

Product #: 1948

<http://www.nrgsystems.com/sitecore/content/Products/1948.aspx>

Date: 12/12/2012



## Li-Cor #LI-200SZ Pyranometer

The Li-Cor #LI-200SZ pyranometer is an excellent general purpose solar radiation sensor...

### SPECIFICATIONS

#### Sensor type

#### Applications

#### Sensor range

#### Instrument compatibility

#### Signal type

#### Transfer function

#### Calibration

#### Output signal range

#### Drift

#### Threshold

#### Mounting

#### Tools required

#### Operating temperature range

#### Operating humidity range

#### Connections

#### Cable length

#### Weight

#### Dimensions

#### Cable

#### Detector

#### Enclosure

#### Description

total solar radiation sensor - cosine corrected

- solar resource assessment
- meteorological studies
- environmental monitoring

0 W/m<sup>2</sup> to 3000 W/m<sup>2</sup>

- NRG Symphonie PLUS w/ Solar SCM
- NRG Symphonie w/ Solar SCM
- Logger measurement range 0 to 1300 W/m<sup>2</sup>, typical

#### Output signal

microamp current proportional to total solar radiation

- included on calibration certificate
- typical is 90  $\mu$ A per 1000 Watts/m<sup>2</sup>
- calibration sheet included with each sensor defines output in microamps per 1000 Watts/square meter
- calibrated against Eppley Precision Spectral Pyranometer under natural daylight conditions.

0  $\mu$ A to 270  $\mu$ A (typical)

+/- 2% change over a 1 year period

#### Response characteristics

0.1 W/m<sup>2</sup>

#### Installation

mounts to tower with custom NRG 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

#### Environmental

-40 °C to 65 °C (-40 °F to 149 °F)

0 to 100%

#### Physical

2 bare wire leads from coaxial cable

3 m (10 feet)

28 g (1.0 ounces)

- 23.8 mm (0.94 inches) diameter
- 25.4 mm (1 inch) length

#### Materials

shielded coaxial

high-stability silicon photovoltaic

weatherproof anodized aluminum case with acrylic diffuser and stainless steel hardware

110 Riggs Road - Hinesburg - VT 05461 USA - TEL (802) 482-2255 - FAX (802) 482-2272 - EMAIL [sales@nrgsystems.com](mailto:sales@nrgsystems.com)