



HOBO S-LIB-M003 Solar Radiation (Silicon Pyranometer) Smart Sensor with 3m Cable

Product Images



Short Description

Measures light levels; rapid deployment, with no complicated programming or setup required; compatible with H21, H22, U30 and RX family loggers.

Description

A silicon pyranometer sensor that effectively measures light levels. Rapid deployment, with no complicated programming or setup required. This sensor offers a measurement range of 0 to 1280 W/m² over a spectral range of 300 to 1100 nm. A measurement averaging mode is available.

Key Features

- Measurement range of 0 to 1280 W/m² over a spectral range of 300 to 1100 nm
- Plug-n-play smart sensor
- Compatible with H21, H22, U30 and RX family loggers

Country of Origin: United States

Also available in a [wireless model](#) for use with the HOBOnet Field Monitoring System.

Explanation	<p>Measurement range: 0 to 1280 W/m²</p> <p>Operating temperature range: -40° to 75°C (-40° to 167°F)</p> <p>Accuracy: ±10 W/m² or ±5%, whichever is greater in sunlight. Additional temperature induced error ±0.38 W/m² /°C from 25°C (0.21 W/m² /°F from 77°F)</p> <p>Resolution: 1.25 W/m²</p> <p>Drift: <±2% per year</p> <p>Spectral range: 300 to 1100 nm</p> <p>Cosine response error: ±5%, 0° to 70°; ±10%, 70° to 80° from vertical</p> <p>Azimuth error: ±2% error at 45° from vertical, 360° rotation</p> <p>Calibration: Factory recalibration available</p> <p>Housing: anodized aluminum housing with acrylic diffuser and o-ring seal</p> <p>Dimensions: 4.1 cm high x 3.2 cm diameter (1 5/8 in. x 1 1/4 in.)</p> <p>Approximate weight: 120 g (4 oz)</p> <p>Cable length: 3 m (9.8 ft)</p> <p>Length of Smart Sensor Network Cable: 3 m</p> <p>Measurement parameters: average over logging interval, user-defined sampling interval from 1 second</p> <p><small>Note: Light sensor bracket (M-LBA) and light sensor level (M-LLA) recommended</small></p> <p>Compatible Items</p> <p>USB Data Loggers - requires external sensor(s)</p> <p>HOBO H22 Energy Data Logger H22-001</p> <p>HOBO U30 USB Weather Station U30-NRC</p> <p>HOBO USB Micro Station Data Logger H21-USB</p> <p>Web-based Monitoring Systems - via remote communication</p> <p>RX3000 Remote Monitoring Station RX3000</p> <p>MicroRX Station RX2100</p> <p>MicroRX Water Level Station RX2100-WL</p> <p>USB Data Loggers - w/external sensor(s)</p> <p>HOBO U30 USB Weather Station Starter Kit U30-NRC-SYS-C</p>
Brand	Onset HOBO
Typical applications	Environmental (Outdoor), Field Research, Weather Monitoring
Measurements	Evapotranspiration, Light Intensity, Solar Radiation