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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.

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Additional Information

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

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