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

## Product Images

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## Short Description

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

## Description

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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/m<sup>2</sup> over a spectral range of 300 to 1100 nm. A measurement averaging mode is available.

### Key Features

- Measurement range of 0 to 1280 W/m<sup>2</sup> 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.

## Additional Information

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