



S-LIA-M003 Sensor

Photosynthetic Light (PAR) Smart Sensor

The Photosynthetic Light (PAR) Smart Sensor is intended to measure light intensity for the frequencies relevant for photosynthesis. This sensor has a measurement range of 0 to 2500 $\mu\text{mol}/\text{m}^2/\text{sec}$ over wavelengths from 400 to 700 nm. Enclosed in a anodized aluminum housing with acrylic diffuser and o-ring seal, this model has a 3m cable; a light sensor bracket and light sensor level are recommended.



Also available in a wireless model for use with the HOBOnet Field Monitoring System.

Supported Measurements:

Light Intensity and PAR

Key Advantages:

- Measurement range of 0 to 2500 $\mu\text{mol}/\text{m}^2/\text{sec}$ over wavelengths from 400 to 700 nm
- Plug-n-play smart sensor
- Compatible with RX, H21, H22, and U30 family loggers

S-LIA-M003 Sensor Specifications

Measurement parameters: average over logging interval, user-defined sampling interval from 1 second

Measurement range: 0 to 2500 $\mu\text{mol}/\text{m}^2/\text{sec}$, wavelengths of 400 to 700 nm

Operating temperature range: -40° to 75°C (-40° to 167°F)

Accuracy: $\pm 5 \mu\text{mol}/\text{m}^2/\text{sec}$ or $\pm 5\%$, whichever is greater in sunlight; additional temperature-induced error $\pm 0.75 \mu\text{mol}/\text{m}^2/\text{sec}/\text{degree C}$ from 25°C . Cosine corrected 0 - 80 degrees, 360 degree rotation.

Resolution: $2.5 \mu\text{mol}/\text{m}^2/\text{sec}$

Drift: $< \pm 2\%$ per year

Response time:

Housing: anodized aluminum housing with acrylic diffuser and o-ring seal

Dimensions: 4.1 cm height x 3.2.4 cm diameter (1 5/8" height x 1 1/4" diameter)

Approximate weight: 120 g (4 oz)

Cable length: 3 meter (10')

Length of Smart Sensor Network Cable: 3m

Note: Light sensor bracket and light sensor level recommended

CE - The CE Marking identifies this product as complying with all relevant directives in the European Union (EU)