



## 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 an 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:**  $-40^\circ$  to  $75^\circ\text{C}$  ( $-40^\circ$  to  $167^\circ\text{F}$ )

**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  $25^\circ\text{C}$ . 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)

## Contact Us

Sales (8am to 5pm ET, Monday through Friday)

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