

## SPECIFICATIONS

### Output:

*Output Responsivity*

0.200 mV per  $\mu\text{mol m}^{-2} \text{s}^{-1}$

*In full sunlight*

400 mV (2000  $\mu\text{mol m}^{-2} \text{s}^{-1}$ )

*Linear range*

1000 mV (5000  $\mu\text{mol m}^{-2} \text{s}^{-1}$ )

### Sensitivity Calibrated:

5.00  $\mu\text{mol m}^{-2} \text{s}^{-1}$  per mV

### Input power:

None, self-powered

### Operating environment:

-40 to 55 °C

0 to 100% relative humidity

### Sensor Dimensions:

2.4 x 2.75 cm

### Sensor Weight:

170 g

### Shipping Weight:

300 g

### Cable Length:

3 m



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# QSO-S Par Photon Flux Sensor

The QSO-S PAR Photon Flux sensor measures the Photosynthetic Photon Flux (PPF) in  $\mu\text{mol m}^{-2} \text{s}^{-1}$  from a field of view of 180 degrees. It is completely water proof, submersible, and designed for continuous outdoor use.

The cosine-corrected head has a domed diffusion disk for improved self-cleaning. The diffusion disk is composed of characterized pigments for improved spectral response. Accurate measurement depends on cleanliness of the lens, and installation at horizontal (180°). A leveling plate is included for accurate installation.

For use with the Em50 Data logger.

## Conversion:

Sensors are calibrated for outside use.

## Materials

Anodized aluminum with acrylic lens.



## Wiring Instructions

Attach the sensor to a meter or datalogger that can display or record a mV output.

The sensor is self-powered.

DO NOT attach the sensor to any power source

**Red:** positive (signal from sensor)

**Black:** negative (signal from sensor)

**Clear:** shield/ground

