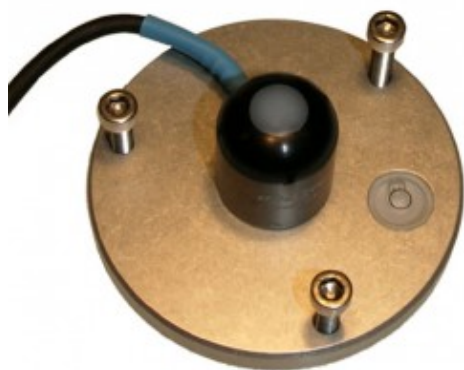


QSO-S PAR Sensor

The model 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. The diffusion disk is composed of characterized pigments for good spectral response.

The sensor is designed for continuous outdoor use, and is completely water proof and submersible. The QSO-S is supported by the [LSM1 Light Sensor Meter for PAR Sensors](#) or Decagon's data loggers [Em50](#) or [Em50G](#).

soft cloth at frequent intervals. Small changes in the level of the sensor can also cause errors. Make sure that the top of the domed sensor body is kept horizontal. Use the included leveling plate to ensure the sensor level.



Installation:

The sensor should be mounted with the cable pointing toward the nearest magnetic pole. For example: in the Northern Hemisphere, point the cable toward the North Pole. In the Southern Hemisphere, point the cable toward the South Pole.

Common Errors:

The biggest error is often caused by dirt on the lens of the sensor. The domed top is self-cleaning, but measurement accuracy will be improved if the lens is wiped with a clean,



QSO-S PAR Sensor



Specifications

QSO-S PAR Photon Flux Sensor

spectral range	400 – 700 nm
Accuracy	± 5%
Resolution	2 $\mu\text{mol m}^{-2} \text{s}^{-1}$
Field of View	Hemispherical, 180°
Measurement Range	Linear Range: 0-1000 mV (0-5000 $\mu\text{mol m}^{-2} \text{s}^{-1}$) Full Sunlight: 400 mV (2000 $\mu\text{mol m}^{-2} \text{s}^{-1}$)
Calibrations and Conversions	Sensors are calibrated for outside use. 5.0 $\mu\text{mol m}^{-2} \text{s}^{-1}$ per mV
Operating Temperature	-40 to +60°C
Power	None, self powered
Cable Length	5 m
Cable connector Types	3.5 mm "stereo" plug
Sensor Dimensions	2.4 cm x 2.75 cm (0.95 in x 1.1 in)
Data Logger Compatibility (not exclusive)	Decagon Em50 series, ProCheck, Campbell Scientific
Warranty	One year, parts and labor



QSO-S PAR Sensor

Accessories



AWS Automatic Weather Station

Automatic Weather Station Package. Includes:



DataTrac 3 Software

DataTrac 3 Software for organising and analysing data



DWS Decagon Weather Station

DWS Decagon Weather Station



EM50 Data Logger



EM50G Data Logger



QSO-S PAR Sensor

Accessories



LSM Light Sensor Meter for PAR Sensors

Light Sensor Meter - Configured for PAR sensors. 10 sensor capacity; IP65 rated enclosure; stand-alone logging capability to 4GB MicroSD Card; Windows software; breakout board; user manual.



ProCheck Handheld Reader

