



Measure photosynthetically active radiation

The model QSO-S PAR Photon Flux sensor measures the Photosynthetic Photon Flux (PPF) in µmol m⁻² 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 waterproof and submersible.

Accuracy

Accurate measurement depends on cleanliness of the lens and installation at horizontal (180°). The sensor head has a domed diffusion disk to reduce the need for frequent cleaning. A leveling plate is included for accurate installation.



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Specifications

Spectral range	400 – 700 nm
Accuracy	± 5%
Resolution	2 μmol m ⁻² s ⁻¹

Field of view	Hemispherical, 180°
Measurement range	Linear range: 0-1000 mV (0-5000 µmol m ⁻² s ⁻¹) Full sunlight: 400 mV (2000 µmol m ⁻² s ⁻¹)
Calibrations and conversions	Sensors are calibrated for outside use 5.0 µmol m ⁻² 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)	METER Em50/50G, EM60 series, ZL6 series, ZSC, ProCheck
Warranty	One year, parts and labor