PAR Photon Flux Sensor

Model QSO–S

Specifications:

Cable Length: 3 m

Range: 0 to 5000 $\mu molm^{-2}s^{-1}$ (0 – 1000 mV)

Dimensions: 2.4 cm diameter, 2.75 cm high

Warranty: 1 year parts and labor

Logger Requirements: Em50 firmware 1.14 or newer

Conversion Equation:

Use the following equation to convert the raw data recorded by the Em50 logger to get photosynthetic photon flux. (µmol per square meter second):

$$\mu molm^{-2}s^{-1} = RAW(1500/4096)5.0$$

Installation and maintenance information on the back.

2365 NE Hopkins Ct
Pullman, WA 99163
Phone: 1-509-332-2756
Fax: 1-509-332-5158

soils@decagon.com
www.decagon.com

DECAGON DEVICES

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, 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.

Decagon and Apogee recommend calibrating your PAR Photon Flux Sensor every 1 to 2 years. Please contact Apogee Instruments for information on their calibration services:

Apogee Instruments
708 W 1800 N
Logan, UT 84321
Phone: 435–792–4700
www.apogeeinstruments.com

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