Solar Radiation Sensor Model PYR

Specifications
Cable Length: 3 m
Range: 0 to 1,750 W m^{-2} (0 - 350 mV)
Dimensions: 2.4 cm diameter, 2.75 cm high
Warranty: 1 year parts and labor
Logger Requirements: Em50 firmware 1.12 or newer

Conversion Equation:
Use the following equation to convert the raw data recorded by the Em50 logger to get solar radiation (Watts per square meter):

$$W\ m^{-2} = RAW * (1500/4096) * 5.0$$

Installation and maintenance information on the back.

2365 NE Hopkins Court
Pullman, WA 99163
Phone: 509-332-5600
support@decagon.com
DECAGON.COM

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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 is level.

Decagon and Apogee recommend calibrating your PYR Solar Radiation Sensor every 1 to 2 years.

Please contact Apogee Instruments for information on their calibration services:

Apogee Instruments
721 W 1800 N
Logan, UT 84321
Phone: 435-792-4700
apogeeinstruments.com

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