

Document Title: PYR Solar Radiation Sensor Information Sheet		Part # 13438	
		Release Date: 08/19/08	
Rev.	Description	Revision By	Date
-02	Reformat, font, support phone number	DDH	5/15/12
Date -- Time	Uploaded insert to repository. Available at http://publications.decagon.com . Please ask archivist for previous versions or use Beanstalk application.	NJR	10/28/13
	Changed height from 6 in to 5.5 in	Allison	5/23/2016

Decagon and Vendor Production File Name:

http://manuals.decagon.com/Inserts/13438_Solar Radiation Sensor_Print.pdf

Dimensions: 4 inches wide, 5.5 in tall

Colors: Full Color

Material: 80 lbs/ 216 g/m² Long Grain White (14583)

Finish: Cut to Size

Adhesive: None



Serialization: None

Serial Number Example: NA

Serial Number Text: NA

Special Notes: Pages are duplexed front to back, illustration is Ref Only

**Not to scale

Solar Radiation Sensor Model PYR	Solar Radiation Sensor Model PYR
<p>Specifications: Cable length: 3 m Range: 0 to 1,250 W m⁻² (0 - 350 μW) Dimensions: 2.4 cm diameter, 2.75 cm high Warranty: 1 year parts and labor Logger Requirements: data logger with 1.12 or newer</p> <p>Conversion Equation: Use the following equation to convert the raw data recorded by the logger to get solar radiation (Watts per square meter): $W\ m^{-2} = RAW * (1500/6096) * 5.0$</p> <p>Installation and maintenance information on the back.</p> <p>2851 N Hobbs, Cedar Rapids, IA, 52403 44 1209330-2738 Fax: 1209 330-2387 www.decagon.com us@decagon.com</p> 	<p>Specifications: Cable length: 3 m Range: 0 to 1,250 W m⁻² (0 - 350 μW) Dimensions: 2.4 cm diameter, 2.75 cm high Warranty: 1 year parts and labor Logger Requirements: data logger with 1.12 or newer</p> <p>Conversion Equation: Use the following equation to convert the raw data recorded by the logger to get solar radiation (Watts per square meter): $W\ m^{-2} = RAW * (1500/6096) * 5.0$</p> <p>Installation and maintenance information on the back.</p> <p>2851 N Hobbs, Cedar Rapids, IA, 52403 44 1209330-2738 Fax: 1209 330-2387 www.decagon.com us@decagon.com</p> 

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
708 W 1800 N
Logan, UT 84321
Phone: 435-792-4700
13438-01 www.apogeeinstruments.com

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
708 W 1800 N
Logan, UT 84321
Phone: 435-792-4700
13438-01 www.apogeeinstruments.com