



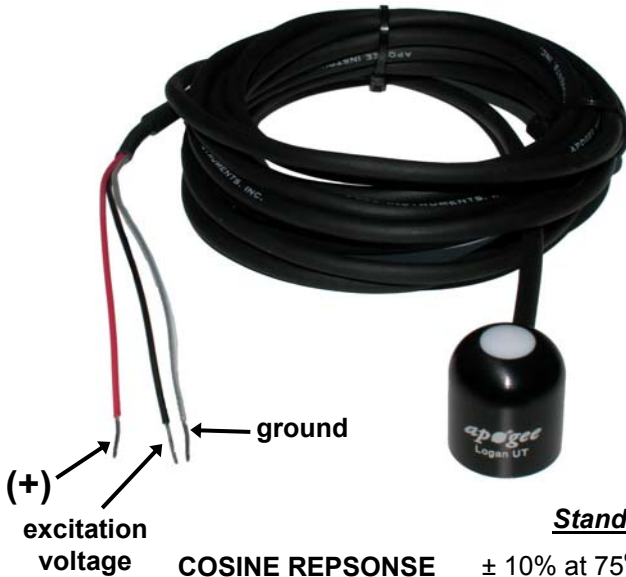
Helping you make better measurements.

High Output Pyranometer

2.5 or 5 V Options

Models **PYR-PA2.5, PYR-PA5, PYR-SA2.5 or PYR-SA5**

US Patent No. D519,860



Our patented design for continuous measurement of shortwave radiation with a voltage amplifier in self-cleaning domed head. Potted solid for long-term stability and use in humid environments.

Precision model (-P) is denoted with yellow heat shrink and has a cosine response comparable to the best quality pyranometers on the market.

SPECIFICATIONS

	<u>Standard (-S)</u>	<u>Precision (-P)</u>
COSINE RESPONSE	± 10% at 75° Zenith Angle ± 4% at 45° Zenith Angle	± 4% at 75° Zenith Angle ± 1% at 45° Zenith Angle
ABSOLUTE ACCURACY	± 8%	± 5%
REPRODUCIBILITY	± 2%	± 1%
SENSITIVITY	PYR-PA5 and PYR-SA5 PYR-PA2.5 and PYR-SA2.5	Calibrated to exactly 0.25 W m ⁻² / mV Calibrated to exactly 0.50 W m ⁻² / mV
OUTPUT	PYR-PA5 and PYR-SA5 PYR-PA2.5 and PYR-SA2.5	0 to 5 V (4.4 V = full sunlight 1,100 W m ⁻²) 0 to 2.5 V (2.2 V = full sunlight 1,100 W m ⁻²) Output linear across voltage range
CURRENT DRAW	285 µA	
INPUT POWER	PYR-PA5 and PYR-SA5 PYR-PA2.5 and PYR-SA2.5	5 to 5.5 VDC 2.5 to 5.5 VDC
OPERATING ENVIRONMENT	-40 to 55 °C; 0 to 100% relative humidity. Designed for continuous outdoor use. Can be submerged underwater.	
MATERIALS	Anodized aluminum with acrylic lens	
CABLE	3 meters of shielded, twisted-pair wire with Santoprene casing, ending in pigtail leads. Sensors can be built with additional cable for \$1.95/meter.	
DIMENSIONS	2.4 cm diameter, 2.75 cm high	
MASS	70 g (with 3 m lead wire)	
WARRANTY	1 year parts and labor	