

Sunmeter PRO WIND

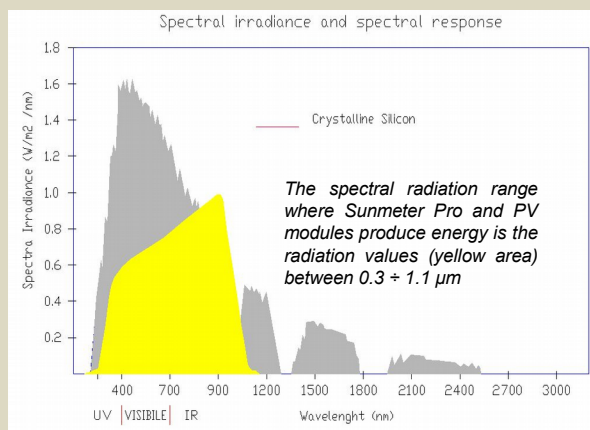
SUNMETER PRO WIND is a digital solarimeter based on the Sunmeter PRO.

Thanks to a monocrystalline cell and its internal technology, this sensor is able to provide irradiance, temperature and wind speed through external probes.

In fact, Sunmeter Wind offers the possibility of connecting a pulse anemometer directly to the sensor, and an external PT100 temperature probe. All measured quantities are conveyed on the RS485 Modbus channel. Thanks to this solution, with a single device, the wiring is reduced and an easily readable and interference-free reading of the values is ensured.

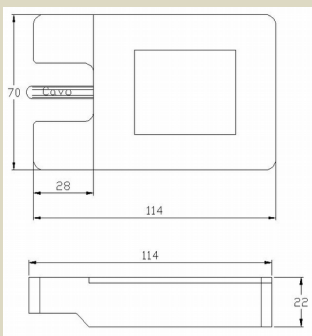
All Sunmeters are calibrated with our Primary Reference cell calibrated periodically by **ISFH Institute**, accredited by **Dakks**.

Spectrum of interest



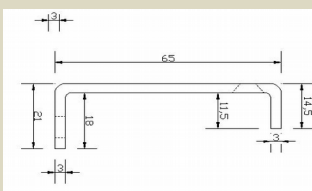
Calibration

Each SM PRO is calibrated is calibrated for comparison with our Silicon Reference Cell referenced by ISFH Institute, accredited by Dakks





Physical features

Silicon sensor laminated in glass, anodized aluminum housing, high durability, practical mounting bracket with screw clamp, UV-resistant cable.



Most common uses

It's used in solar energy conversion to calculate **P/R** (Performance Ratio) of medium-large PV systems.

SUNMETER SENSOR		
Product	Sunmeter PRO WIND	 <p>ATTENTION: the anemometer visible in the picture is supplied separately, on request.</p>
Standard Reference	IEC 60904-2 IEC 60904-4 IEC 60904-10 IEC 61724-1	
Output	Digital	
Input range	Irradiance	$0 \div 1500 \text{ W / m}^2$
	Spectral range	$0,3 \mu\text{m} \div 1,1 \mu\text{m}$
	Temperature	$-30 \div +90 \text{ }^\circ\text{C}$
	Wind	$0-120 \text{ Km/h (max 2 imp. round)}$
Output	Digitale	RS485, standard Modbus RTU
Output precision	Irradiance	$< \pm 2 \%^{(1)}$
	Temperature	$\leq \pm 0.5 \text{ }^\circ\text{C}$
	Wind	Depending on the anemometer
Sensor Type	Photovoltaic Pyranometer	
Supply	Ext. Current loop	$9 \div 30 \text{ Vdc}$ protected against reverse polarity, short circ.
Encapsulant	Glass + E.V.A. + Poliester	
Cable	50cm UV resistant cable with Male connector	
Connectors		3-way connector for the anemometer input
Dimensions	114 x 70 x 22 mm s without fixing bracket	
IP code	IP 65	
(1) Note: recalibration advised after 18-24 months and then after 3 years.		