



Wireless module for measuring solar energy

The Wireless Value DLXm-Pyrano can be used under all weather conditions. The sensor measures the solar energy received by the entire hemisphere. It is ideal for measuring the energy available for use in solar energy applications, plant growth, thermal convection and evapotranspiration.

Features

- Accurate wireless detection
- Compatible with all Wireless Value base stations
- Range 1,000 metres (unobstructed line of sight)

Applications

- Agriculture
- Solar energy

Specifications

- Memory to store 10,000 measurements
- Adjustable measurement interval
- Attractive IP65 ABS enclosure
- Existing system can be easily expanded with additional sensors
- Unique network ID to avoid interference with other wireless systems

The connected base station sends the sensor values to:

- Wirelessvalue.online (LAN or mobile provider)
- Wirelessvalue.online (on location)
- Wirelessvalue.online (IP or serial)
- SensorGraph

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Technical specifications

Model	wireless module
Type	including Pyrano sensor
Sensor type	external
Measurement range	
Spectral range	400 to 1100 nm
Sensitivity	60 to 100 $\mu\text{V}/\text{W}/\text{m}^2$
Response time (95%)	< 500 ns
Directionality (up to 80° with 1000 W/m^2 beam)	< 10 W/m^2
Temperature response Pyrano sensor	< -0.15% / °C
Maximum solar irradiation	2000 W/m^2
Field of vision	180°
Measurement accuracy	
Accuracy	$\pm 0.1\%$ of range ± 1 resolution step
Measurement interval (M)	adjustable between 1 second and 255 minutes, standard 2 minutes
Operating limits	-20°C to +80°C
Power supply	battery
Memory	10,000 measurements
Order code South America (Peru)	WSW-DLXm-Pyrano
Frequency plan	US902-928
Frequency	916,500 MHz
Legislation	RED, CE
Range	1,000 m with unobstructed line of sight
Enclosure	IP65
Colour	black
Dimensions	70 (w) x 105 (h) x 32 (d) mm, excl. wall bracket
Weight	358 g
Configuration	SensorGraph or wirelessvalue.online