

Wireless module for measuring solar radiation (DLXm-Pyr)

DLXm-PYR-ewinb



- Measurement spectrum between 400 and 1,100 nm
- 180° field of view
- Accurate wireless detection
- Battery life of over 5 years
- Compatible with all Wireless Value Base Stations
- Transmission range 1,600 metres (clear line of sight)

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Description

DLXm-Pyr

The Wireless Value DLXm-Pyr measures the intensity of total solar radiation in watts per square metre (W/m^2). In greenhouse horticulture, this instrument is indispensable for automatically controlling the greenhouse climate, determining water requirements and optimising the energy balance.

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

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Specifications

General

Battery type	AA
Casing	IP65
Colour	Black
Battery life	Over 5 years
Model	Kipp & Zn. SP Lite2

Measurement range

Pyrano	400 to 1100nm
Operating limits	-20 °C to +80 °C
Maximum solar irradiation	2000 W/m ²
Spectral range	400 to 1100 nm
Signal range	1,600 metres in clear line of sight

Measurement accuracy

Drift	< 2%
Sensitivity	60 to 100 μ V/W/m ²
Pyrano	$\pm$ 3 % (0 - 100 W/m ²)
Response time (95%)	< 500 ns
Directional sensitivity (up to 80° with 1,000 W/m ² beam)	< 10 W/m ²
Temperature response of Pyrano sensor	< -0.15% / °C

Measurement resolution

Pyrano	0.1
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Legislation and standards

RED (Radio Equipment Directive)	Yes
CE	Yes
EN 300 220	Yes

Technical specifications

Battery voltage	3.6V
IP rating	IP65

Memory	10,000 measurements
Dimensions	
Weight	358 g (excluding battery)
Measurement area	180°