Wireless module for measuring solar radiation (DLXm-Pyr)



- 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)

Wireless module for measuring solar radiation (DLXm-Pyr)

DLXm-PYR-ewinb



Description

DLXm-Pyr

The Wireless Value DLXm-Pyr measures the intensity of total solar radiation in watts per square metre (W/m²). 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

Wireless module for measuring solar radiation (DLXm-Pyr)

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/m²
Spectral range	400 to 1100 nm
Signal range	1,600 metres in clear line of sight

Measurement accuracy

Drift	< 2%
Sensitivity	60 to 100 □V/W/m²
Pyrano	□ 3 % (0 - 100 W/m²)
Response time (95%)	< 500 ns
Directional sensitivity (up to 80° with 1,000 W/m² beam)	< 10 W/m²
Temperature response of Pyrano sensor	< -0.15% / °C

Measurement resolution

Pyrano	0.1

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°