



Wireless module for measuring PAR light

The Wireless Value DLXm-PAR measures light in the PAR (Photosynthetically Active Radiation) spectrum and sends this data to the base station. PAR light is generally measured in relation to crop growth in covered and uncovered crops. The DLXm-PAR is also suitable for measuring with LED lighting, making it ideal for vertical farming.

Features

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

Applications

- Agriculture

Specifications

- Memory to store 10,000 measurements
- Adjustable measurement interval
- Attractive 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 PAR sensor
Sensor type	external
Measurement range	
Spectral range (50%)	400 to 700 nm \pm 4 nm
PAR sensitivity	4 to 10 μ V/ μ mol/m ² ·s
Impedance	240 Ω
PAR sensor response time (95%)	< 1 μ s
Non-stability (drift per year)	< 2%
Non-linearity (0 to 10,000 μ V/ μ mol/m ² ·s)	< 1%
Directional sensitivity (up to 80° with 1000 μ mol/m ² ·s beam)	< 30 μ mol/m ² ·s
Temperature response	< -0.12
Angle of measurement	180°
Measurement accuracy	
Accuracy	\pm 0.1% of range \pm 1 resolution step
Measurement interval (M)	adjustable between 1 second and 255 minutes, standard 2 minutes
Operating limits	-20°C to +80°Cmm
Power supply	battery
Memory	10,000 measurements
Order code South America (Peru)	WSW-DLXm-PAR
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