

Wireless advanced soil moisture sensor



The Wireless Value DLS-teros12 measures soil moisture, EC and soil temperature. Our sensor gives 5 values: pore EC (the EC at watering), bulk EC (the EC on drying of the medium), soil temperature and soil moisture calculated for substrate and for full soil. Measurement results are transmitted wirelessly to the base station where the data can be used for monitoring and analysis.

Features

- Measures 5 relevant values
- Needle length 5.4 cm
- Battery life +5 years
- Compatible with all Wireless Value base stations
- Transmission range 1,000 metres (unobstructed line of sight)

Applications

- Soil moisture measurement in covered cultivation
- Soil moisture measurement in soft fruit
- Soil moisture measurement in open field (avocado, orange, etc.)

Specifications

- Memory to store 10,000 measurements
- Adjustable measurement interval
- Attractive IP65 ABS enclosure
- Existing system can be easily expanded with additional sensors
- Battery replaceable by user

The connected base station sends the sensor values to:

- Wirelessvalue.online (LAN or mobile provider)
- Wirelessvalue.online (for direct connection to climate computer or irrigation system)

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Technical specifications

Model	Wireless Value module incl. Teros12 sensor
Type	advanced soil moisture sensor
Sensor type	SDI12
Measurement range	
Temperature	Range: -40 to +60°C Resolution: 0.1°C Accuracy: ±0.5°C from -40 to 0°C, ±0.3°C from 0 to +60°C
Bulk EC	Range: 0 to 20 dS/m (bulk) Resolution: 0.001 dS/m Accuracy: ± (5% +0.01 dS/m) from 0 to 10 dS/m ± 8% from 10 to 20 dS/m
VWC	±0.03 m ³ /m ³ (±3.00% VWC) typical in mineral soils that have a solution EC <8 dS/m ±0.01–0.02 m ³ /m ³ (±1–2% VWC) in any porous medium
Measurement interval (M)	adjustable between 1 second and 255 minutes, standard 2 minutes
Operating limits	-20°C to +80°C
Power supply	1 AA 3.6 V lithium battery or 12V DC
Battery life	At least 5 years at 2-minute measurement interval
Memory	10,000 measurements
Order code Thailand	WSAS2-DLS-Teros12
Frequency plan	AS923-925 ("AS2")
Frequency	924 MHz
Legislation	RED, CE

