Wireless soil moisture sensor

The Wireless Value DLXm-Teros10 easily measures soil moisture using a robust sensor. Measurement results are transmitted wirelessly to the base station where the data can be used for monitoring and analysis.

Features

· Simple soil moisture measurement
· 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)

wirelessvalue

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Model	Wireless Value module incl. Teros10 sensor
Type	advanced soil moisture sensor
Sensor type	SDI12

Measurement range

VWC	±0.03 m3/m3 typical in mineral soils that have a solution EC <8 dS/m ±0.05 m3/m3 typical in media that has a solution EC <8 dS/m
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
Radio standard	EN 300 220
Frequency	868 - 870 MHz (915 MHz where applicable)
Range	1,000 m with unobstructed line of sight
Enclosure	IP65
Colour	matte black
Dimensions	105 (l) x 70 (w) x 32 (h) mm industrial: 190 (l) x 100 (w) x 43 (h) mm
Weight	67 grams, industrial: 270 grams
Configuration	SensorGraph
Legislation	R&TTE, CE

Ordering options

Enclosure options	Wireless Value, Fibox or Hammond
External antenna	optional
Overpressure protection	optional
External power supply	optional