Wireless weighing scale including drain meter and EC/pH sensor (WM-Drain-WQ)



- Measures drain EC/pH, drain in ml/m² and substrate weight in g/m²
- Accurate wireless detection
- Battery life of the scale: 1 year; battery life of the drain meter and EC/pH sensor: over 5 years

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- The perfect combination for gaining accurate insight into the irrigation strategy and water quality at substrate mat level
- Compatible with all Wireless Value Base Stations
- Transmission range: 1,600 metres (line of sight)

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Description

WM-Drain-WQ

The WM-Drain-WQ is our wireless weighing scale, which allows us to monitor not only the drain but also the quality of the drain water.

This weighing scale is adjustable between 2 metres and 2.7 metres, so it can be adapted to the size of the substrate mats.

The drain meter measures drain in ml per m², which, in combination with the weight measurement, enables us to provide information on the irrigation strategy.

The WQ sensor measures the EC and pH of the drain water before it flows back into the growing trough.

This enables us, in combination with the weighing scale, to provide information and advice on the efficiency of the irrigation strategy, as well as details on water quality.

In combination with the WM-100 load cells, we are also able to calculate water uptake and the daily net weight gain.

- Memory capacity for storing 10,000 measurements
- Adjustable measurement interval
- Suitable for protected fruit and vegetable cultivation and pot plant cultivation
- Existing system can be easily expanded with additional sensors
- User-replaceable battery
- Unique network ID to prevent interference with other wireless systems

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Specifications

General

Battery type	AA
Battery life	scale 1 year; drain meter and EC/pH sensor over 5 years

Measurement range

Operating limits	-20 °C to +80 °C
EC	50-111,800 µS/cm
pH	0 - 14 pH
Signal range	1,600 metres line of sight

Measurement accuracy

EC	1% = 50-12,880 µS/cm. 10% = 50-111,800 µS/cm
pH	± 0.02 pH

Measurement resolution

EC	0.5 nS/cm at 50-12,880 µS/cm, 50 nS/cm at 50-111,800 µS/cm
pH	0.01

Legislation and standards

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

Technical specifications

Number of batteries	1 battery per product, 3 in total
Battery voltage	3.6V
IP rating	IP65