

Water Content
Electrical Conductivity
Temperature



ROYAL Eijkelkamp
Meet the difference

COST-EFFECTIVE SOLUTIONS FOR HORTICULTURALISTS AND GROWERS

Moisture and nutrient status in the root zone

The **WET Sensor** is essential equipment when accurate measurement in soil and substrates is vital to your business

The WET Sensor has crucial applications in precision horticulture and soil science research, and is usable in both soils and growing substrates.

It is exceptional in its ability to measure pore water conductivity (EC_p), the EC of the water that is available to the plant.



Readout and data storage are carried out with the HH2



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PROVEN
 APPLICATIONS IN
 PRECISION
 HORTICULTURE
 AND SOIL SCIENCE



The WET Kit

The Applications

The WET Sensor is essential for testing the following...

Fertigation and hydroponics

Where plants are grown in artificial substrates, nutrients are routinely supplied in irrigation water - "fertigation". Nutrient levels are controlled by monitoring the water content and conductivity (EC) and adjusting the injection of liquid fertiliser into the irrigation water. The WET Sensor excels in monitoring this crucial information.

Soil salinity

If the irrigation water is recycled or abstracted from rivers with high levels of dissolved salts, over time there can be a build-up of soil salinity. Soil salinisation will eventually reduce crop yields. The WET Sensor is fast and efficient for sampling soil salinity, ensuring that farmers have the essential information they need to take remedial action as quickly as possible.

Container-grown shrubs and trees

Nutrients are sometimes provided by fertigation but are often provided by Controlled Release Fertilisers. The rate at which these are taken up depends on the weather conditions. The WET Sensor can be used to measure EC within the growing media, removing much of the guesswork from this procedure.

The Advantages

The WET Sensor combines a number of features to make it indispensable in horticulture...

Saves time and money

The WET Sensor takes a complete reading in ~5 seconds - so you can monitor the growing conditions of hundreds of plants in a day. It replaces expensive lab analysis and ensures your crops are grown under optimal conditions.

Excellent accuracy

Water content $\pm 3\%$
 Pore water EC $\pm 0.1 \text{ mS.cm}^{-1}$ (varies with water content)
 Temperature $\pm 1.0^\circ\text{C}$

Research grade sensor

The WET Sensor has been used in research for over 15 years. Innovative ASIC-based design and 3-parameter measurement make it an effective solution to the problem of monitoring growing conditions in competitive areas of horticulture and agriculture.

Simple operation

Insert the WET Sensor, press [Read] and scroll down [▼]:
 Water Content 65%
 Pore water EC 4.1 mS.cm^{-1}
 Temperature 27.2°C
 Detailed reading set-up is available but rarely needed.

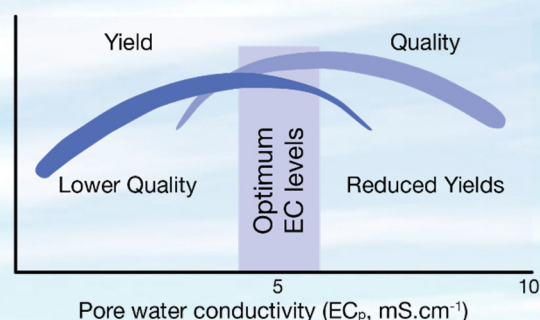
Specialist calibrations

The WET Kit is equipped with a comprehensive set of calibrations (See WET-2-KIT ordering information table on this page for details). When used alongside a GP1 or GP2 logger the WET sensor is equipped with calibrations for generic mineral, organic, sand and clay soils. Additional calibration upgrade packs are available for the GP1 and GP2 (see ordering information table).

Ordering information

WET-2-KIT	Comprises WET-2/d WET Sensor, HH2 Moisture Meter (including alkaline battery and comms cable), spare battery, USB-RS232 adapter cable, user manuals and WCC1 carrying case. Includes sensor calibrations for generic mineral soils, organic soils, sand soils, clay soils, coir (coco fibre), peat based potting mixes, greenhouse 'mineral' soils, and Stonewool artificial mineral wool substrate (vertical and horizontal measurement).
WET-2/d	Sensor with 1m cable and 25- way D-socket for use with HH2 Moisture Meter.
WET-2/w-O5	Sensor with 5 m cable terminating in bare wires for use with GP1 or GP2 data loggers.
Calibration upgrades for GP1 and GP2 loggers	
WET-GH-1G2	GP2 calibrations- for coir (coco fibre), peat based potting mixes, and greenhouse 'mineral' soils.
WET-ST-1G2	GP2 calibrations - for Stonewool artificial mineral wool substrate (vertical and horizontal measurement).
WET-GH-1G	GP1 calibrations- for coir (coco fibre), peat based potting mixes, and greenhouse 'mineral' soils.
WET-ST-1G	GP2 calibrations - for Stonewool artificial mineral wool substrate (vertical and horizontal measurement).

Yield and Quality of Tomatoes v ECp



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