

Water Content
Electrical Conductivity
Temperature



AT

**COST-EFFECTIVE
SOLUTIONS FOR
HORTICULTURALISTS
AND GROWERS**

Delta-T Devices introduce the new WET Sensor

When accurate measurement in soil and substrates is critical, the new WET Sensor from Delta-T Devices is vital.

The Delta-T WET Sensor has crucial applications in precision horticulture and soil science research and is usable in both soils and growing substrates. It is unique 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 handled by the HH2 Moisture Meter



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The Delta-T WET Sensor

DELTA-T DEVICES
UNIQUE APPLICATIONS
IN PRECISION
HORTICULTURE
AND SOIL SCIENCE

The Applications

The Delta-T WET Sensor is essential for testing for the following...

Fertigation

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 Delta-T 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 Delta-T WET Sensor can be used to measure the EC within the growing media and so take much of the guesswork out of this process.

The Advantages

The Delta-T WET Sensor combines a number of factors to make it indispensable in horticulture...

Saves time

The WET Sensor takes a complete reading in ~5 seconds – so you can monitor the growing conditions of hundreds of plants in a day.

Saves money

Replaces expensive lab analysis and ensures your crops are grown under optimal conditions.

Absolute accuracy

Water content $\pm 3\%$
Pore water EC $\pm 0.1\text{mS.cm}^{-1}$
(varies with water content)
Temperature $\pm 1.0^\circ\text{C}$
Specialist calibrations are available for a range of common growing media.

Inexpensive, high specification equipment

The WET Sensor has been used in research for over 10 years. Innovative ASIC-based design and 3-parameter measurement make it also 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.

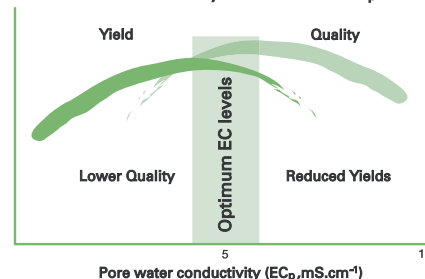
The Company

Delta-T Devices specialise in the design and manufacture of scientific instruments. Our products are in use in over 60 countries worldwide.

The company is based in Burwell, close to Cambridge, recognised internationally as a centre for scientific research and innovation. Started in 1971, the company has developed to become a workers' co-operative with 25 members, creating an environment where all can participate in the challenge of the business, and benefit from its success. Our policy statement reinforces the principles on which the company was founded.

"We aim to manufacture and sell instruments for use in work beneficial to the environment and directly related to human and animal welfare. As a matter of conscience, we reserve the right not to sell our instruments to people or institutions involved in military work, tobacco research, environmentally destructive practices and factory farming."

Yield and Quality of Tomatoes v EC_p



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