

W.E.T. Sensor Kit

Soil / substrate moisture sensor



What can the W.E.T. sensor measure?

Measurement of the **water content, electric conductivity (EC) and temperature of the soil and other growing substrates, fertigation liquid and run off liquid**. In hydroponic systems the conductivity can be used as a proxy for fertigation status of the growing media.

How do you use the W.E.T. sensor?

Adjust the probe **calibration setting according to the substrate** you measure. Insert the probe in the substrate, the measurement is taken in **seconds**. Result is displayed on screen and saved on the reader, which enables USB data transfer. Measure about **20 scattered containers/growbags per glasshouse/polytunnel every day or every couple of days**. Take 1 measurement per container up to 10 L and at least 2 measurements per container larger than 10 L, coco coir grow-bags, or rockwool slab. Measure at the same time, preferably in the morning. If possible, measure in the middle of root zone.

Scientific background & Interpretation results

- ➔ **Water content** in coconut coir media should normally be around 50% but will vary depending on the crop and substrate used e.g. values below 40% and 50% present water stress for coir grown strawberry and raspberry, respectively.
- ➔ **Electric conductivity (EC)** will also depend on the substrate and fertigation type used. In coir grown strawberry and raspberry the optimal EC values range from 1.5 – 2 S/m.

Pros & Cons

- + portable, cheap, fast, non-destructive, easy to use software, user friendly.
- optimal values of moisture and EC need to be assessed for each crop-growing system combination prior to effective use

Price range: € 3000

Company: Delta T

More information? <https://delta-t.co.uk/product/wet-2-horticulture/>