

## SM150 Soil Moisture Sensor



COST-EFFECTIVE  
SOLUTIONS FOR  
HORTICULTURALISTS  
AND GROWERS

### ***SM150 soil moisture sensor***

The SM150 from Delta-T Devices is vital when you need rapid accurate measurements of substrate moisture content

The SM150 enables growers to monitor the moisture status of 1000s of plants daily. It is particularly easy to insert without damaging roots or disturbing the growing medium, and partnered with the HH150 provides a simple low-cost solution to checking the uniformity of growing conditions.



*Readings are displayed on the HH150 Moisture Meter*



# Rapid soil moisture monitoring

## Applications

The Delta-T SM150 is an essential tool for monitoring soil moisture content within the following markets...

### Horticultural production

Plants grown in competitive areas of horticulture and agriculture are typically grown under "uniform" conditions, but how uniform are they and what water content level does the irrigation system really achieve? The SM150 is tough enough to be used all day every day in busy growing environments, but minimises disturbance to the growing media or damage to roots with its sleek stainless steel sensing rods.

### Plant nurseries

Growing plants under Regulated Deficit Irrigation (RDI) regimes reduces water use and results in compact plants that need less pruning or weeding. However RDI requires greater precision in the control and monitoring of irrigation. The SM150 is ideal for sampling the water content of pot-grown plants in order to detect dry spots and ensure that the benefits of RDI are delivered while minimising the risks.

### Landscape

Irrigation is indispensable in many landscape locations but the cost and drawbacks of over-watering are becoming more severe. The SM150 can be integrated into smart irrigation control systems when used with the Delta-T GP1, or used for testing how well existing irrigation systems are performing...

### Substrate calibrations

The SM150 Sensor includes substrate calibrations for perlite, coir, peat, and mineral wool, as well as soils. This gives growers a simple out-of-the-box solution to help them improve growing conditions in a wide range of growing media.

## Advantages

The SM150 combines a number of features to make it indispensable in irrigation, horticulture and soil science...

### Saves time and money

The SM150 kit takes a reading in seconds – so you can monitor the growing conditions of thousands of plants in a day. It takes the guesswork out of estimating soil moisture and ensures crops are grown under optimal conditions.

### Absolute accuracy

Water content  $\pm$  3.0%

### Research grade sensor

The SM150 is stable across wide ranges of temperature and salinity. Its construction uses an industrial grade connector and high specification materials throughout to produce a sensor of outstanding quality.

### Simple operation

Insert the SM150 into the substrate and press the [on-read] button:

Water content 31.6%

### Minimises disturbance

The SM150 can be inserted with very little force into most soils and substrates and preserves the soil structure around the measurement rods for accurate representative readings.

### Monitoring and control

The SM150 is designed for long term burial as well as hand-held use, and can be used with the GP1 Data Logger for smart irrigation control. The built-in connector makes it quick and simple to switch between uses.

Ordering information	
<b>SM150-KIT</b>	Portable soil moisture kit including SM150 sensor, HH150 meter, 90cm fitted cable, manuals and carrying case.
Also available separately	
<b>SM150</b>	Soil moisture sensor fitted with M12 connector. NB cable must be ordered separately.
Cable options for using the SM150 with a data logger	
<b>EXT/5W-05</b>	5m extension cable, M12 connector to M12 connector.
<b>EXT/5W-10</b>	10m extension cable.
<b>EXT/5W-25</b>	25m extension cable.
<b>SMSC/sw-05</b>	5m cable terminating in bare wires for connection to GP1 or DL6 data logger. May be used with any mix of extension cables up to 100m max.
<b>SMSC/lw-05</b>	5m cable terminating in bare wires for connection to DL2e.
SM150 accessories for burial at depth	
<b>ML/EX50</b>	0.5m extension tube
<b>ML/EX100</b>	1.0m extension tube
<b>SM-AUG-100</b>	45mm spiral auger



SM150 Kit