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## Soil moisture set SM150T with HH150

### 14.23



The soil moisture kit is an affordable instrument for obtaining reliable moisture measurements. The HH150 Meter displays volumetric water content (% volume) and is suitable for Horticulture research.

- Minimal soil disturbance
- Excellent temperature stability
- Portable, easy and quick to use
- Scientific accurate:  $\pm 3\%$
- Can be used in saline soils

## Description

The SM150 Soil Moisture Kit provides an affordable and easy-to-use tool for obtaining reliable moisture measurements with minimal soil or substrate disturbance. The volumetric water content is displayed on the HH150. This high-quality kit is covered by a five-year warranty.

### Simple operation

The HH150 hand moisture meter is lightweight and is very easy to use, being a readout-only device (no data recording or PC complications). Operation is simple – just insert the SM150T into the soil or substrate and press the Read button to make a reading.

### Horticulture applications

The SM150 Kit comes with substrate calibrations for perlite, coir, peat, and mineral wool, as well as soils – providing a rapid, rugged solution for checking the uniformity of growing conditions for many types of growing media. The SM150T is easy to insert and install – its sharp pins minimize soil disturbance and preserve the original soil structure around the measurement rods.

### Applications

- Horticulture research

### Set contains

- SM150T\* Soil Moisture Sensor
- Dedicated HH150 Moisture Meter
- Cable (3.3 feet, 1 meter) and connector (watertight)
- Batteries
- Carry case

Please note that although the SM150T Sensor has a built-in temperature sensor, the HH150 Moisture Meter does not measure or display temperature.

## Specifications

### Soil moisture set SM150T with HH150

Accuracy (HH150 Meter)	0.5% of full scale over 41°F-104°F (5-40 °C) (±7.5mV – negligible effect on SM150 accuracy)
Resolution (HH150 Meter)	0.1% of voltage reading
Battery life/standby life (HH150 Meter)	2x GP alkaline AAA/ 10000 readings/1 year
Compliance (HH150 Meter)	CE, FCC & ROHS
Measurement	Volumetric water content and soil temperature
Accuracy	± 0.03 m <sup>3</sup> .m <sup>-3</sup> (3%)
With soil-specific calibration	± 32.9°F (32-104°F for temp sensor) and ± 33°F (-4 - +140°F for temp sensor) / ± 0.5°C (0 to 40°C for temp sensor) and ± 0.75°C (-20 to +60°C for temp sensor)
Soil moisture measurement range	Full accuracy over: 0 to 0.7 m <sup>3</sup> .m <sup>-3</sup> and full range : 0 to 1.0 m <sup>3</sup> .m <sup>-3</sup>
Environmental	IP68 (-40 to 158°F) / IP68 (-40 to +70°C)
Sample volume	~2.2 x 2.8 in (~55 x 70 mm) diameter, sample volume is weighted towards soil immediately surrounding the rods

### Soil moisture set SM150T with HH2 meter

14.24



The Soil moisture set SM150T with HH2 meter is a complete set. The set is affordable and easy-to-use with minimal disturbance to the soil or substrate. The set has a measuring range of 0-70% with an accuracy of +/- 3%.

- Minimal soil disturbance
- Excellent temperature stability
- Portable, easy and quick to use
- Scientific accurate:  $\pm 3\%$
- Can be used in saline soils

## Description

This set has a class leading  $\pm 1\%$  soil moisture accuracy, it is a complete kit with readout unit and case. The ML3 Thetaprobe standard set provides researchers with a portable tool for highly accurate, near instantaneous measurement of moisture levels in soils and substrates. ThetaKits are an excellent choice for turf grass applications.

### Easy to use

Simply switch the connected HH2 Moisture Meter on, insert the probe pins fully into the soil, and press the HH2's "read" button to display the moisture measurement. Readings can then be stored with a single button press (if required) – and downloaded to PC later.

The included HH2 readout unit offers impressive functionality in a compact, hand-held unit, designed for field use. Readings are displayed on the LCD and can be stored to memory for later download to a PC. The unit can be operated with one hand, for convenience in the field. Each time-stamped reading includes a unique sample number, a plot identification number (A to Z), and a sensor location number (1 to 255).

The "HH2Read" Windows PC software provides a data import wizard for direct download into Excel or other PC spreadsheet packages, or into irrigation scheduling programs. Alternatively, data can be downloaded in comma-separated ASCII data file (.CSV) format. Data is transferred to a PC using the RS-232 cable provided with each unit. Please note that most PCs no longer have an RS232 port; for USB connection a USB to RS232 adapter cable is required (see Accessories).

### Applications

- Soil moisture measurement

### Set contains

- ML3 ThetaProbe Soil Moisture Sensor
- HH2 Moisture Meter (readout unit)
- Replacement sensor rods
- Cable and connector (watertight)
- Carry case

Please note that the HH2 only reads SDI-12 digital data from the PR2 SDI-12 Probe – it is not a general-purpose SDI-12 meter.

## Specifications

### Thetaprobe - soil moisture measuring standard set

Input connections (HH2 Meter)

1 water content sensor or 1 WET Sensor

Battery life (dependent on usage) (HH2 Meter)

~ 5000 readings

## Thetaprobe - soil moisture measuring standard set

Enclosure rating (HH2 Meter)	IP54
Size (HH2 Meter)	4.9 x 3.1 x 1.8 in (125 x 80 x 45 mm)
Measurement	Volumetric water content and soil temperature
Accuracy	$\pm 0.03 \text{ m}^3.\text{m}^{-3}$ (3%) $\pm 0.01 \text{ m}^3.\text{m}^{-3}$ (1%)
Soil specific calibrations	$\pm 32.9^\circ\text{F}$ (32-104°F for temp sensor) and $\pm 33^\circ\text{F}$ (-4 - +140°F for temp sensor) / $\pm 0.5^\circ\text{C}$ (0 to 40°C for temp sensor), $\pm 0.75^\circ\text{C}$ (-20 to +60°C for temp sensor)
Soil moisture measurement range	Full accuracy over: 0 to 0.5 $\text{m}^3.\text{m}^{-3}$ and full range : 0 to 1.0 $\text{m}^3.\text{m}^{-3}$
Environmental	IP68 (-40 to 158°F) / IP68 (-40 to +70°C)
Sample volume	~2.4 x 1.2 in (~60 x 30 mm) diameter, sample volume is weighted towards soil immediately surrounding the rods

## *Thetaprobe - soil moisture measuring standard set*

14.26



The Thetaprobe soil moisture measuring set is a very complete standard set for highly accurate, near instantaneous measurement of moisture levels in soils and substrates. The ThetaKit is easy to use.

- High accuracy:  $\pm 1\%$
- Versatile instrument, measures and stores the data
- Own soil data allow direct irrigation advice
- Portable, easy and quick to use
- Push probe, read and store

## *Description*

This set has a class leading  $\pm 1\%$  soil moisture accuracy, it is a complete kit with readout unit and case. The ML3 Thetaprobe standard set provides researchers with a portable tool for highly accurate, near instantaneous measurement of moisture levels in soils and substrates. ThetaKits are an excellent choice for turf grass applications.

**Easy to use**

Simply switch the connected HH2 Moisture Meter on, insert the probe pins fully into the soil, and press the HH2’s “read” button to display the moisture measurement. Readings can then be stored with a single button press (if required) – and downloaded to PC later.

The included HH2 readout unit offers impressive functionality in a compact, hand-held unit, designed for field use. Readings are displayed on the LCD and can be stored to memory for later download to a PC. The unit can be operated with one hand, for convenience in the field. Each time-stamped reading includes a unique sample number, a plot identification number (A to Z), and a sensor location number (1 to 255).

The “HH2Read” Windows PC software provides a data import wizard for direct download into Excel or other PC spreadsheet packages, or into irrigation scheduling programs. Alternatively, data can be downloaded in comma-separated ASCII data file (.CSV) format. Data is transferred to a PC using the RS-232 cable provided with each unit. Please note that most PCs no longer have an RS232 port; for USB connection a USB to RS232 adapter cable is required (see Accessories).

**Applications**

- Soil moisture measurement

**Set contains**

- ML3 ThetaProbe Soil Moisture Sensor
- HH2 Moisture Meter (readout unit)
- Replacement sensor rods
- Cable and connector (watertight)
- Carry case

Please note that the HH2 only reads SDI-12 digital data from the PR2 SDI-12 Probe – it is not a general-purpose SDI-12 meter.

*Specifications*

Thetaprobe - soil moisture measuring standard set	
Input connections (HH2 Meter)	1 water content sensor or 1 WET Sensor
Battery life (dependent on usage) (HH2 Meter)	~ 5000 readings
Enclosure rating (HH2 Meter)	IP54
Size (HH2 Meter)	4.9 x 3.1 x 1.8 in (125 x 80 x 45 mm)
Measurement	Volumetric water content and soil temperature

## Thetaprobe - soil moisture measuring standard set

### Accuracy

± 0.03 m3.m-3 (3%) ± 0.01 m3.m-3 (1%)

### Soil specific calibrations

± 32.9°F (32-104°F for temp sensor) and ± 33°F (-4 - +140°F for temp sensor) / ± 0.5°C (0 to 40°C for temp sensor), ± 0.75°C (-20 to +60°C for temp sensor)

### Soil moisture measurement range

Full accuracy over: 0 to 0.5 m3.m-3 and full range : 0 to 1.0 m3.m-3

### Environmental

IP68 (-40 to 158°F) / IP68 (-40 to +70°C)

### Sample volume

~2.4 x 1.2 in (~60 x 30 mm) diameter, sample volume is weighted towards soil immediately surrounding the rods

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