



Soil Moisture Meter Kit. Portable Battery Powered Meter Supplied In Carrying Case

Code: **514-180**

Product Group: **N/A**

- $\pm 1\%$ soil moisture accuracy
- Complete kit with readout unit and case

The kit is a portable tool for highly accurate measurement of moisture levels in soils and substrates.

The Soil Moisture Meter Kit is easy to use. Simply switch the connected moisture meter on, insert the probe pins fully into the soil, and press the moisture meters "read" button to display the moisture measurement. Readings can then be stored with a single button press (if required) - and download to PC later.

The kit comprises a probe soil moisture sensor, a moisture meter, replacement sensor rods and a carry case.

Specification

Measurement
Accuracy

Volumetric water content and soil temperature

$\pm 0.01 \text{ m}^3\text{.m}^{-3}$ (1%) with spoil specific calibration
 $\pm 0.5^\circ\text{C}$ (0 to 40°C for temp sensor)
 $\pm 0.75^\circ\text{C}$ (-20 to $+60^\circ\text{C}$ for temp sensor)

Soil moisture measurement
range

Full accuracy over: 0 to $0.5 \text{ m}^3\text{.m}^{-3}$
Full range : 0 to $1.0 \text{ m}^3\text{.m}^{-3}$

Salinity range

50 to 500 mS.m^{-1}
Salinity errors $< 0.035 \text{ m}^3\text{.m}^{-3}$ from 0.05 to $0.4 \text{ m}^3\text{.m}^{-3}$. Can be calibrated up to 2000

Temperature range
Output

Full accuracy over: 0 to 40°C

0 to 1.0 V differential
Corresponding to 0 to $\sim 0.6 \text{ m}^3\text{.m}^{-3}$
Resistance 5.8Ω to 28Ω for temp sensor

Power requirement

5-14 V, $\sim 18 \text{ mA}$ for 1s
Minimum 5.5 V with 100 m cable

Product Sheet

www.ele.com
+44 (0) 01525 249 200



Environmental
Sample volume

IP68 (-40 to +70°C)

~60 x 30 mm diameter

Sample volume is weighted towards soil immediately surrounding the rods

Dimensions and weight

Overall: 158 x 40 mm diameter Rods: 60 mm x 3.2 mm diameter (Rods are replaceable)
0.1 kg (exc. cable)

Sensor calibrations

Individual sensors are interchangeable Recalibration advised every 3 years (depending on use)

Soil calibrations

Generalised Mineral and Organic soil calibrations are supplied