

SM150T



A highly accurate device that measures the volumetric soil water content. It provides valuable insights, to improve both irrigation planning and strategic decision-making



/ Benefits & Features

- Cost-efficient
- Easy installation without special preparation
- Robust, designed to remain in the soil
- Requires no maintenance
- Suitable for all soil types

/ Technical Specifications

Accuracy	±3% Vol over 0 to 70% Vol and 0 to 60°C (32 to 140°F)
Measurement range	0 to 100% (full accuracy 0 to 70%)
Salinity range	50 to 1000 mS.m ⁻¹ ± 5% Vol over 100 to 1000 mS.m ⁻¹ and 0-60% Vol
Output	0 to 1.0 V differential Corresponding to 0 to ~60% nominal
Power requirement	5-14 VDC, ~18 mA for 1s
Operating range	-20 to 60°C (-4 to 140°F)
Environment	IP68 (-40 to 70 °C/158 °F)
Sample volume	~55x70 mm (2.16 x 2.76") diameter
Dimensions	Overall: 143 x 40 mm (5.63 x 1.57") diameter Rods: 51 x 2.5 mm (2 x 0.1") diameter

→ Wiring Diagram

Terminal	Wire
+	● White
AI	● Blue
-	● Brown

→ Installation

1. Select the optimal location of the probe that represents the average condition of the crop in the plot
2. The sensor should be located around 10-15cm (3.9 -5.9") from the dripper, within the wetted bulb and the active root zone. In growing bags, locate the probe in between drippers
3. It is recommended to place the sensor horizontally, to enable soil moisture measurement at a specific depth
4. Ensure good soil contact with the probe rods
5. Limit exposure to sunlight to the sensor body and the screw connection

→ Care & Maintenance

- No maintenance is required
- Avoid touching the sensor rods if not necessary
- Ensure the connectors are clean and properly aligned before pushing the parts together
- Screw it firmly for a water-tight seal but do not over-tighten
- Do not pull the sensor out of the soil by its cable

→ Kit Contents

- SM150T sensor
- 5m (16.4 ft) cable
- Product sheet

→ Catalog Numbers

Product

Description	Catalog Number
SOIL MOISTURE SENSOR SM150T	74730-000010

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