

Soil Moisture Sensor SMT50



Compact, functional and robust: The glass fibre reinforced PCB is the basis for the economic design and thanks to its blade shape installation is made simple. Naturally, both the casing and the cable are water sealed.

The SMT50 soil moisture sensor offers a wide measurement range. It is maintenance free and frost resistant. Both its short response time and low interference by salinity make it the perfect choice for long-term surveys.

Soil moisture and temperature are provided as voltage signals.

Features

- **Accurate volumetric soil moisture measurement**
- **Integrated temperature measurement**
- **Suitable for any soil type**
- **Robust and reliable**
- **Easy installation**
- **Low cost**

Specifications:

Volumetric Water Content (VWC)

Range: 0...50% volumetric water content

Accuracy:

Using factory calibration up to $\pm 3\%$ (VWC) in mineral soils with moderate salinity from 0...50% VWC

Resolution: 0.2% volumetric water content

Temperature

Range: $-20...+85^{\circ}\text{C}$

Accuracy:

Typical $\pm 0.8^{\circ}\text{C}$ or $\pm 0.3^{\circ}\text{C}$ when calibrated for a single logger channel

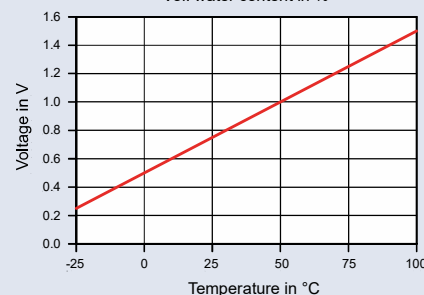
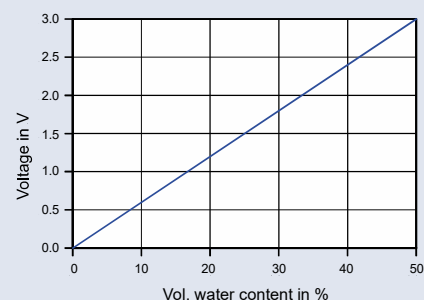
Resolution: better than 0.1°C

Power: 3.3...30VDC, 2.7mA

Cable length: 10m

Sensor dimensions: ca. 13.5cm x 2.15cm

Characteristic curves:



Subject to technical changes without notice. SMT50V1.1 07.26