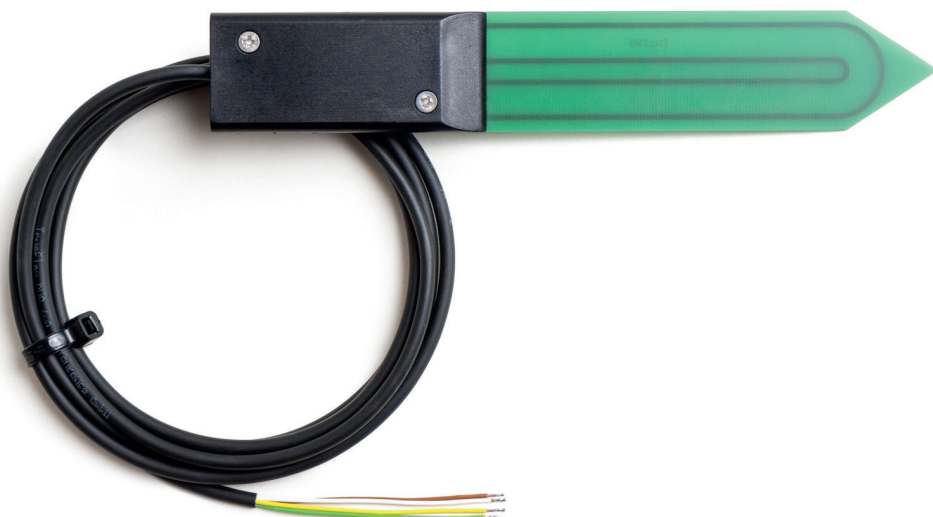


PŮDA

SMT100 - Senzor vlhkosti a teploty půdy

Základní vlastnosti

- Senzor vlhkosti a teploty půdy
- Přesnost měření vlhkosti půdy: $\pm 3\%$ (při specifické kalibraci až $\pm 1\%$)
- Přesnost měření teploty půdy: $\pm 0,2\text{ }^{\circ}\text{C}$
- Varianty komunikace: RS485, SDI-12, Analog 0-10V
- Rozměry: 18,2 x 3 x 1,2 cm



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Technická specifikace

Accuracy:	Soil volumetric water content (VWC) <ul style="list-style-type: none"> » Using factory calibration up to $\pm 3\%$ (VWC) in mineral soils with moderate salinity from 0 to 50% VWC » Using medium specific calibration up to $\pm 1\%$ (VWC) Temperature <ul style="list-style-type: none"> » Typical $\pm 0.2^\circ\text{C}$, max. $\pm 0.4^\circ\text{C}$ over full range » Analog version $\pm 0.8^\circ\text{C}$ Additional output <ul style="list-style-type: none"> » Raw measurement data » Dielectric permittivity
Resolution:	0.1% volumetric water content or better 0.01°C or better (analog version 0.2°C)
Range:	0 to 60% volumetric water content (up to 100% volumetric water content with limited accuracy) Temperature: -40 to +80°C (analog version -40 to +60°C)
Interface options:	RS485 with TBUS RS485 with Modbus RS485 with ASCII SDI-12 Analog: 0 - 10 V (other voltage ranges on request)
Power:	4-24 V DC, up to 40 mA during measurement (analog version 12 - 24 V DC for 0 - 10 V output) Measurement time digital versions: less than 50 ms Measurement time analog versions: less than 500 ms
Cable length:	10 m
Sensor dimensions:	ca. 18,2 cm x 3 cm x 1,2 cm
Data logger compatibility:	Any logger capable of appropriate power excitation and RS-485 (TBUS, Modbus, ASCII), SDI-12 or analog input Free PC logger software available on request