SOIL AND TEMPERATURE SENSOR

PCE-FST-100-2006-SMS



- **Measurement of soil moisture and temperature**
- **Protection class: IP68**
- **Output: RS-485 Modbus RTU**
- **Robust housing**

The Soil and Temperature Sensor is ideal for monitoring agricultural areas, gardens, green spaces or greenhouses. With the Soil and Temperature Sensor, soil moisture and soil temperature can be precisely recorded in order to optimize irrigation of plants or carry out scientific measurements.

The sensor measures the soil moisture from 0 ... 100% with a resolution of 0.1%. The accuracy is 3% for a moisture range of 0 ... 50% and 5% at 50 ... 100%. The floor temperature is recorded from -30 ... 85°C / -22 ... 185°F with a resolution of 0.1°C / 0.18°F and an accuracy of ±0.5°C / ±0.9°F. The Soil and Temperature Sensor is robust, waterproof, corrosion-resistant, suitable for permanent installation in the ground and has IP68 protection. The output is via RS-485 so that the measured values can be further processed digitally.

The Soil and Temperature Sensor provides precise data for field measurements and automated irrigation and is used by farmers, gardeners and environmental researchers who want to reliably monitor soil conditions.

Specification

Humidity	
Material	Soil
Measuring range	0 ... 50 %
Resolution	0,1 %
Accuracy	3%

Humidity	
Material	Soil
Measuring range	50 ... 100 %
Resolution	0,1 %
Accuracy	5%

Temperature	
Measuring range	-30 ... +85 °C
Resolution	0,1 °C
Accuracy	±0.5°C (@25°C)

General technical data	
Outputs	RS485
Cable length	1 m
Protection class (device)	IP68
Power supply	12 ... 24 V DC
Operating conditions	-40 ... 80 °C , 0 ... 100 % RH
Storage conditions	-40 ... 80 °C , 0 ... 95 % RH
Dimensions (L x W x H)	135 x 45 x 13 mm
Weight	120 g

PCE Instruments UK Ltd.
Chester Rd, Old Trafford Suite 1N-B, Trafford House, M32 0RS Manchester
Great Britain

Phone: +44 (0) 161 464902 0
info@pce-instruments.co.uk