



Soil temperature sensors

METOS®

BY PESSL INSTRUMENTS

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PESSL INSTRUMENTS SOIL
TEMPERATURE



ABOUT

TECHNICAL SPECIFICATIONS



FEATURE	VALUE
Sensor SMT172	Operating temperature range: -30 °C to +75 °C Accuracy: ±0.5 °C (-30 °C to +75 °C)
Sensor PT1000	Operating temperature range: -30 °C to +75 °C Accuracy: ±0.1 °C (-30 °C to +75 °C)
Supply voltage	4.57-7 V
Supply current	max. 200 µA
Short circuit protection	infinite (within supply voltage range)
Short circuit supply current	max. 40 mA
Calibration error	max. 0.25°C (23°C)
Nonlinearity error	max. 0.2°C



FEATURE	VALUE
Supply voltage sensitivity	max. 0.1°C/V
Repeatability	max. 0.2°C
Long term drift	max. 0.1°C
Output frequency	1 to 4 kHz
Evaluation	Duty cycle
Cable length	5 m

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PESSL INSTRUMENTS MULTIPLE SOIL TEMPERATURE

ABOUT

TECHNICAL SPECIFICATIONS



Order number: 60079/900058 (Sensor chain with box, holder and 3 sensors) / 900227

(Sensor chain with box, holder and 1 sensor) / 900226 (Additional sensor)

SAR19/SAR19M provide soil temperature measurement from several centimeters to 15-meter deep by using the Pessl Instruments sensor BUS. The distance between the sensors can be chosen according the application, but only up to 10 sensors can be attached to one sensor chain.