

Technical specifications

BAT IS Sensor & IS Battery unit

BAT IS Sensor (#1-200)

General

The BAT IS Sensor in combination with the BAT MkIII Filter Tip measures accurately the pore pressure in the soil. Together with the IS Battery Unit the BAT IS Sensor can also collect and store data in a stand-alone mode.

This unique, retrievable sensor/logger is supplied with a 24-bit AD converter, microprocessor, clock, network controller and memory chip. Without difficult conversion factors the BAT IS Sensor displays the measured pore pressure in the chosen engineering unit. The sensor is also equipped with a temperature gauge for measurement of the ambient temperature.

Specifications

Pressure range:	0 - 5 bar (absolute)
Burst pressure:	16 bar
Pressure hysteresis	≤ 0.1%
Linearity error:	≤ 0.15 %
Operating temperature:	-20 °C to + 80 °C
Temperature accuracy:	≤ 0.5 °
Electrostatic discharge:	2500 V
Memory capacity:	≈ 3500 measurements
Power consumption:	≤ 30mA with 15 V (operating)

Dimensions etc.

Protection:	IP 68
Material:	Stainless steel SS 2343
Weight	224 grams
Dimensions:	Ø 24mm, length 150 mm
Weight set:	960 grams
Dimensions of weight set:	Ø 22 mm, length 600 mm
Standard cable length	20 m

* In the picture the sensor is shown with the BAT quick coupling adapter used for leak-proof connection to the BAT MkIII Filter Tip.

IS-Battery unit (#1-203)

General

The IS-battery unit enables you to use an IS-sensor for continuous stand-alone measurements for at least 120 days. The battery unit contains a standard D-cell alkaline or lithium battery. With the IS-Field unit you can easily check the battery status.

Specifications

Operating temperature:	-20 °C to + 45 °C
Output voltage:	6.31 ± 3% V
Output current:	50.0 mA (maximum)
Battery lifespan:	Lithium battery ≈ 240 days Alkaline battery ≈ 120 days
IS Field Unit connection:	DB9-male
Material:	High-strength thermoplastic POM H
Protection:	IP 65



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