



BAT Groundwater Monitoring System

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

Operating temperature:	-20°C to + 80°C
Pressure range:	0 - 6 bar (absolute)
Burst pressure:	16 bar
Pressure hysteresis:	0.1%
Linearity error:	0.15 %
Temperature accuracy:	0.5 °
Electrostatic discharge:	2500 V
Memory capacity:	6500 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

IS-Battery unit (#1-203)

General

The IS-battery unit enables you to use an IS-sensor for continuous standalone 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 (by battery rating)
Output voltage:	6.31 ± 3% V
Output current:	50.0 mA (maximum)
Battery lifespan:	Lithium battery: 240 days Alkaline battery: 90 days
IS Field Unit connection:	DB9-male
Material:	High-strength thermoplastic POM H
Protection:	IP 65



BAT Geosystems AB
P.O. Box 1060
186 26 Vallentuna
Sweden
Phone: +46851170600

www.bat-gms.com
info@bat-gms.com

BAT Geosystems AB
Hällebergsvägen 5
443 60 Stenkullen
Sweden
Phone: +46317890600