

Intelligent Sensor system

BAT[®]-filter tip



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The BAT[®]-filter tip in combination with the BAT[®]-sensor allows you to measure easily and accurately the pore pressure in the ground.

In the filter tip a flexible disc is fitted which allows the sensor to be coupled hundreds of times to the filter tip by a hypodermic needle. The disc is also a leakage and gasproof seal of the filter tip.

The filter tip is attached to an extension pipe supplied by Profound. It is normally installed by pushing it down to the desired depth using ordinary gas pipes.

The standard filter tip is suitable for use in clay, silt and sand. For harder soils a stainless steel filter tip can be used.

Additionally, using an additional set you can measure the permeability of the soil or take liquid and gas samples.

Technical specifications BAT[®]-filter tip MkIII

Pressure range	0...16 bar (absolute) 0...160 m H ₂ O (absolute)
Flow factor	F = 0,23 meter ¹
Penetration resistance	Max. ≈ 25 Mpa
No. of couplings	» 500
Max. load	» 20 kN
Correction height (BAT [®] -sensor)	215 mm
Material filter	Porous HDPE
Material tip	Thermoplastic material (POM)
Weight filter tip	122 gram
Dimensions filter	Ø 31 mm, length 36 mm
Dimensions filter tip	Ø 31 mm, length 209 mm
Weight extension pipe	565 gram
Dimensions extension pipe	Ø 1 inch, length 250 mm

Accessories

BAT [®] -sensor with integrated datalogger	
Gas pipe per meter with couplings	Thread: 1 inch gas BSP (Ø 33.2 mm, 11 per inch) Pipe: 1 inch (33.9 mm exterior, 27.2 interior)
Preparation set	Single-ended needle (yellow) and syringe, centralisation adapter (white)

¹ Hvorslev, M.J. "Time lag and soil permeability in ground water observations". 1951. Bulletin No. 36, Corps of Engineers. Waterways Experiment Station, U.S. Army .

Profound reserves the right to revise this documentation or to make improvements or changes in the product(s) at any time.



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