

Profound IS – Geotechnical Monitoring System



IS-field unit

ISB.00351 - IS-field unit

The robust IS-field unit is exceptionally convenient for handling data of an IS-sensor in the field. You do not need a laptop or PC, as the IS-field unit is equipped with a display and keyboard.

The unit enables you to program an IS-sensor. You can also download, view, delete data from one or more IS-sensors and check the battery and free data memory in an IS-sensor.

With the IS-field unit it is also possible to view the measured values of the IS-sensor directly, which is very convenient during installation of a BAT-sensor.

The IS-field unit is equipped with an atmospheric absolute pressure sensor, thus allowing you to directly compensate IS-pore pressure measurements and replacing a separate atmospheric data logger.

At the office you can download the IS-data via an USB cable to your PC. With the IS-field unit software for Windows you can then further process the data.

Technical specifications IS-field unit

Operating temperature	-20 °C to + 40 °C
Measurement channels	Internal batteries
	Battery of an IS-batteryholder
	Temperature Atmospheric pressure
Flash memory	1 GB
Run time in download mode	10 hours (downloading only)
USB speed	12 Mbps
External IS power	90 mA, short circuit protected ≈ 2 IS-sensors
Battery	2x AA-size 1.5 Volt Alkaline batteries, 2x sparebatteries inside unit
Standard cables	1 D9-cable for connecting an IS-sensor to the IS-field unit. 1 USB cable for connecting the IS-field unit with the USB port of the PC.
PC software program	Windows XP or Vista
Protection	IP 62
Material	ABS
Weight field unit	444 grams
Dimensions field unit	195 x 108 x 44 mm
Internal atmospheric pressure sensor	
Pressure range	0.8...1.2 bar (absolute)
Pressure hysteresis (0 → Pmax → 0)	≤ 0.1%
Linearity error	Typical 0.15%, max. ≤ 0.35 %
Memory	≈ 13.000 measurements
Runtime in logger mode only	1 year (interval time: 3 hours)

Accessories

IS-field unit software
IS-processing software



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