

# /S-field unit



## Profound /S-field unit

The robust /S-field unit is a convenient tool for programming an /S-sensor or an /S-module in the field. You do not need a laptop or PC, as the /S-field unit is equipped with a display and keyboard.

### /S-sensor

The /S-field unit enables you to program an /S-sensor. You can also download, view, delete data from one or more /S-sensors and check the battery and free data memory in an /S-sensor. The /S-field unit is equipped with an atmospheric absolute pressure sensor, for direct compensation of absolute pore pressure measurements with for example the BAT-system.

At the office you download the /S-data via a USB cable to your PC. With the /S-field unit PC software you further process the data.

### /S-module

The Profound /S-module is an effective tool for geotechnical project monitoring, offering optimum flexibility in the field for small and medium sized networks with up to 25 Intelligent Sensor (/S) measuring points.

Using a wireless, built-in GPRS-connection the /S-module directly uploads to an FTP server or sends the measurement data at a preset interval via email to a pc for further processing. Thus providing an excellent opportunity to monitor the project remotely.

Technical specifications /S-field unit	
Measurement channels	Internal batteries Battery of an /S-battery holder Temperature Atmospheric pressure
Flash memory	1 GB
Run time in download mode	10 hours (downloading only)
USB speed	12 MBps
External /S power	90 mA, short circuit protected ≈ 2 /S-sensors
Battery	2x AA-size 1.5 Volt Alkaline batteries, 2x spare batteries inside unit
I/O functionality	RS232, mini-USB
Protection rating	IP 62 according to DIN 40 050/IEC 529
Temperature range (operating)	-20°C to + 40°C
Housing	ABS
Dimensions (l x w x h)	195 x 108 x 44 mm
Weight	444 grams
PC software program	WIN10/WIN8/WIN7

Internal atmospheric pressure sensor	
Pressure range	0.8...1.2 bar (absolute)
Pressure hysteresis (0 → P <sub>max</sub> → 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	
/S-field unit PC software	
Standard cables: 1 D9-cable for connecting an /S-sensor to the /S-field unit 1 USB cable for connecting the /S-field unit with the USB port of the PC	