

Profound IS – Geotechnical Monitoring System

IS-field unit

the compact IS-field computer



IS-field unit

The robust IS-field unit is exceptionally convenient for handling data of any IS-sensor in the field. You no longer 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 RS232 cable to your PC. With the IS-process software for Windows you can then further process the data.

Technical specifications

Operating temperature	-4 °F to + 104 °F
Measurement channels	Internal batteries
	Battery of an IS-battery holder
	Temperature Atmospheric pressure
Flash memory	32 full IS-data loggers (512 kB)
Run time in download mode	10 hours (downloading only)
RS232 speed	38 400 bps
External IS power	90 mA, short circuit protected ≈ 2 IS-sensors
Battery	2x AA-size 1.5 Volt Alkaline batteries, 2x spare batteries inside unit
Standard cable length	1 D9-cable with a length of 2 m. To be used for connecting the IS-field unit to RS232 port of PC or for connecting an IS-sensor to the IS-field unit.
PC software program	Windows '95 (or higher)
Protection	IP 62
Material	ABS
Weight field unit	1 lbs
Dimensions field unit	7 ¾ x 4 ¼ x 1 ¾ inches
Internal atmospheric pressure sensor	
Pressure range	11.6.....17.4 psia
Pressure hysteresis (0 → Pmax → 0)	≤ 0.1%
Linearity error	Typical 0.15%, max. ≤ 0.35%
Memory	≈ 3500 measurements
Run time in logger mode only	1 year (interval time: 3 hours)
Accessories	
IS-data logger software	
IS-processing software	



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