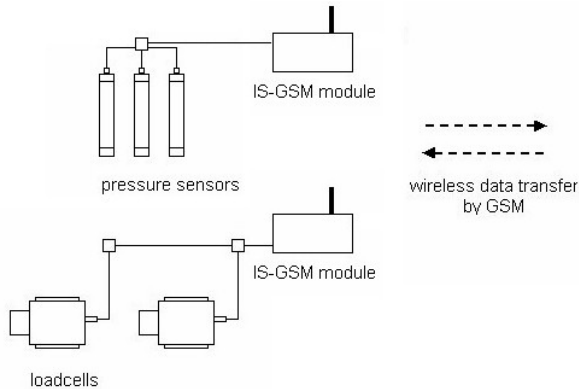


# Profound IS – Geotechnical Monitoring System

## IS-GSM module



IS-GSM module

### IS-GSM module

The Profound IS-GSM module is a fully digital unit offering you the possibility to monitor your project remotely or directly in the field. You can choose to measure with or without using the GSM connection.

#### Field monitoring

With the IS-GSM module in combination with the IS-field unit you can directly display a measurement in the field. You can also set, log and download measurements. The measurement results can then be further processed and presented on your PC.

#### Remote monitoring

Via a wireless, built-in GSM-connection you can choose to receive the measurement results from up to 5 IS-sensors on your PC, usually once a day. Thus you can directly control the project without having to go into the field. The module sends the measurement data at a preset interval to a server PC. Status and data mails are automatically sent to your Windows PC, where you can easily process and present the measurement results.

#### Advantages:

- Up-to-date project monitoring: data are digitally available and can be send world-wide
- Large distances between sensor groups are possible by using several modules
- Easy remote data retrieval
- Remote update of sensor settings: e.g. switching to the measurement frequency
- Cost-effective: fast, simple installation. Minimal time and effort necessary to read out sensors
- Flexible: different IS-sensors can be connected to the same system.

### Technical specifications

Protocol IS-system	CAN (Control Area Network)
4-core cable system	wire 1: > 7 volt (max. 18 volt) not stabilised wire 2: digital wire 3: digital, inverse of wire 2 wire 4: 0 (mass)
Operating temperature	-4 °F to + 104 °F
Measurement channels	5 IS-sensors Internal battery Temperature Atmospheric pressure
Flash memory	2 MB
Run time	> 1 year (daily wireless data transfer; measurement interval of 1 h + 2 sensors)
External IS power	200 mA, short circuit protected ≈ 5 IS-sensors
Termination resistor	470 Ohm
Battery	3x D-size 1.5 Volt Alkaline battery
Protection	IP 62
Weight	2 lbs
<b>GSM</b>	
Full type approval	GSM ETSI Phase 1 and 2 compliant
Sensitivity	GSM: < 104 dBm / DCS: < -100 dBm
<b>Internal atmospheric pressure sensor</b>	
Pressure range	0.8...1.2 bar (absolute)/ 11.6.....17.4 psia
Pressure hysteresis (0 → Pmax → 0)	≤ 0.1%
Linearity error	Typical 0.15%, max. ≤ 0.35%
<b>Accessories</b>	
IS-data logger software	
IS-processing software	
IS-field unit or IS-RS232 converter	



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