

# /S-absolute pressure sensor



## Profound /S-pressure sensor

This /S-sensor is not just a pressure sensor: it is equipped with a 24-bit AD converter, micro-processor, clock, network controller and memory chip. Without having to apply conversion factors, this Intelligent Sensor immediately displays the measured values in the engineering units.

The sensor has also been equipped with a temperature gauge that measures the temperature at the top of the sensor.

In combination with the /S-battery holder, the /S-pressure sensor can be used either stand-alone. The sensor can also be inter-connected with other sensors and the /S- module in a fully digital network.

With a special pressure adapter the sensor can be pushed into the ground for pore pressure measurements in the soil. In that case sensor cannot be easily retrieved.

Technical specifications /S-pressure sensor	
Pressure range	0...5 bar (absolute)
Burst pressure	16 bar
Pressure hysteresis (0 → P <sub>max</sub> → 0)	0.1%
Linearity error	Typical 0.15 %, ≤ 0.35 %
Temperature range (operating)	-20°C to + 60°C
Temperature accuracy	± 0.5°C
Electrostatic discharge	2500 V
Memory	≈ 3500 measurements
Current consumption	≤ 30 mA with 15V (operating)
Protection rating	IP 68 according to DIN 40 050/IEC 529
Housing	Stainless steel 304
Sensor weight	244 gram
Sensor size	Ø 22.8 mm, length 148.8 mm
Standard cable length	10 m, 20 m

Accessories	
ISB.00360 /S-battery holder	1x D-size Lithium (operating time ≈ 8 months) 1X D-size Alkaline (operating time ≈ 4 months)
ISB.00357 /S-module	Internet Solar Module