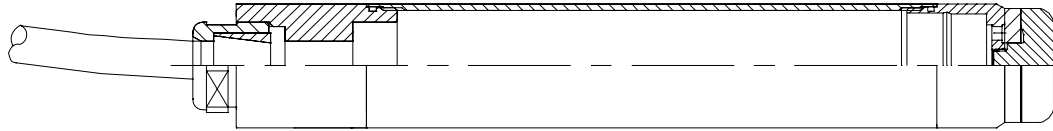


Profound IS – Geotechnical Monitoring System

IS-absolute pressure sensor



IS-pressure sensor

This IS-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 difficult conversion factors, this Intelligent Sensor immediately displays the measured values in the correct unit.

If so desired, further data processing (like minimum, maximum and average value), can also take place in the sensor as well.

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

In combination with the battery holder the sensor can be used either stand-alone or inter-connected with other sensors in a fully digital network.

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

Technical specifications

Pressure range	0...23 psia or 0...58 psia
Burst pressure	145 psia or 232 psia
Pressure hysteresis (0 → Pmax → 0)	0.1%
Linearity error	typical 0.15 %, ≤ 0.35 %
Operating temperature	-4 °F to 140 °F
Temperature accuracy	± 0.9 °F
Electrostatic discharge	2500 V
Memory	≈ 3500 measurements
Current consumption	≤ 30 mA with 15 V (operating)
Protection	IP 68
Material	Stainless steel 304
Weight sensor	0.55 lbs
Dimensions sensor	Ø 0.9 in, length 5.9 in
Standard cable length	33 ft

Accessories

Adapter	
Battery holder	1 X D-size Lithium (operating time ≈ 8 months) 1 X D-size Alkaline (operating time ≈ 4 months)



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