

PP12X

Online pore water
pressure metering system
from Redroc



redroc

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PP12X

DIGITAL PORE WATER PRESSURE SENSOR SYSTEM FOR ONLINE MONITORING

Complete pressure sensor system for driving down in the soil.

Integrated narrowband modem and true plug and play.

For measuring and remote monitoring online in real time utilizing modern data streaming technologies, readable on phone, tablet or desktop (or talk to us about integrating to your system of choice).

Narrowband technology gives the device superior range capabilities and will transmit data where other devices using 3G or 4G fail.

Long battery life, even with high frequency measurements. 2+ years in the field.

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Mechanical specifications PPI2X

Spec.	
Enclosure measurements	93 x 93 x 62 mm
Weight, including battery	2 440 g (incl 10 m cable and battery)
Enclosure material	Plastic

Sensor unit	
Measurement technology	Vented pressure cell
Cable length	10 m standard (variable length on request up to 25 m)
Sensor housing material	Corrosion resistant stainless steel (PTFE)
Sensor housing measurements	∅ 23 mm x 76,5 mm
Level accuracy	± 0.5% FS
Water temperature range	-10 to +70°C (at ≥100 kPa)
Measuring interval	Hourly (standard)

Electrical specifications

Item	
Battery	3,7 V Lithium Thionyl Chloride, single cell
Battery life	2 years +

Data application

Messaging	
Messages	Web-app
Connectivity	NB-IoT, CAT-M1
Sim Card	On-board chip

Presentation	
Technology	Web based
Data viewing	Mobile and desktop accessible webb-app and CSV reports
Hosting	Cloud based

Ambient conditions

Item	
Temperature range	-20 to +50°C (every single component rated for at least -40 to +50°C)
Ingress protection rating (enclosure)	IP66

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