

DG10X

Digital water level sensor for
online monitoring from Redroc



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DG10X

DIGITAL WATER LEVEL SENSOR FOR ONLINE MONITORING

Water level metering system with built in temperature sensor.

A complete system for measuring and remote real time monitoring online utilizing modern data streaming technologies. Data is readable on phone, tablet or computer.

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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Highlights

- Online real-time reporting.
- Measures water level and water temperature.
- Breathable pressure sensor (No barometric compensation needed).
- Outstanding connectivity and reach due to Narrowband technology.
- Measurement interval: 20 seconds (hourly transmissions).
- 30 days data buffer
- Simple mounting and installation.
- Battery time approx. 2+ years.
- Simple battery replacements.



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Mechanical specifications DG10X

Spec.	
Enclosure measurements	93 x 93 x 62 mm
Weight, including battery	960 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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