



ALL ABOUT WATER LEVEL MONITORING

Obscape's Level Gauge delivers real-time water level measurements. It records the water level using a highly accurate radar sensor. Since the instrument is mounted above the water surface, deploying it in the field is easy.

The Level Gauge is suitable for application in natural as well as man-made water systems. Whether you are interested in tidal water level variations, stormwater runoff or storage basin volumes, the Obscape Level Gauge will suit your needs.



KEY FEATURES

- Accurate water level data
- Radar technology
- No underwater components
- Completely wireless
- Real-time data
- Solar powered
- Real-time data up to 4G (upgradable to Satellite)
- Multiple mounting options
- Versatile data portal included

CONVENIENT WATER LEVEL MONITORING

Water level monitoring plays an important role in monitoring natural or man-made water systems. The Level Gauge is suitable for application in ports, rivers, estuaries, canals, manholes and storage basins. The instrument measures the distance to the water surface using an industry-standard radar sensor. It is mounted above the water surface, which avoids costly and labour-intensive underwater operations. The 40 metre range of the Level Gauge will cover even the most extreme water level variations.

COMPLETELY WIRELESS

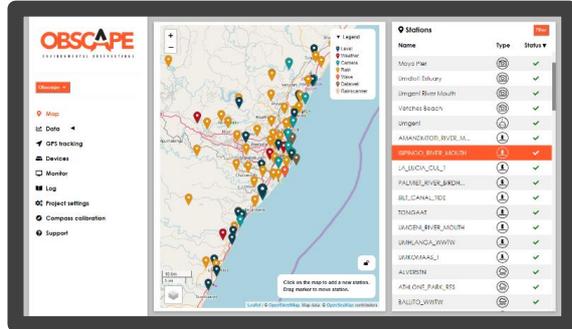
The Level Gauge is completely wireless. Power is supplied through built-in solar panels, while data are transmitted in real-time using a 4G GSM connection. Therefore, the Level Gauge is easy to install at any desired location within GSM coverage. There is no need to worry about access to mains power or router internet access. Its wireless nature makes the Level Gauge very suitable for monitoring of remote areas.

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VERSATILE DATA PORTAL

The value of real-time observations strongly depends on the ability to view and analyse them in real-time. Therefore, the Level Gauge comes with a license for the Obscape Data Portal. The data collected by your Level Gauge, as well as the data from any other Obscape device you own, are collected into the Data Portal. The Data Portal offers various options for viewing, managing and downloading your water level data, including the generation of PDF reports. It is your ultimate tool to unify the office and the field.



TECHNICAL SPECIFICATIONS

DATA SPECIFICATIONS	
PARAMETERS	Water level, battery voltage, GSM signal strength, internal temperature
VERTICAL REFERENCE	Specified by the user in the Data Portal
MAXIMUM RANGE	40 m
SENSOR ACCURACY	2 mm
SAMPLING INTERVAL	5 – 60 minutes (user selectable)
STORAGE	On-board micro SD card

WEB-PORTAL SPECIFICATIONS	
REAL-TIME GRAPHS	Water level and additional (status) parameters
DOWNLOADS	Raw data (CSV format), Graphs (PNG), Reports (PDF)
FORWARDERS	JSON API or HTTP post
STATUS NOTIFICATION EMAILS	Online/offline, battery level, water level threshold exceedance

PHYSICAL CHARACTERISTICS	
HOUSING WIDTH	87 mm
HOUSING DEPTH	87 mm
HOUSING HEIGHT	280 mm
HOUSING WEIGHT	2 kg
RADAR SENSOR	InnoSent iSYS-6003

ELECTRICAL CHARACTERISTICS	
SOLAR PANEL CAPACITY	3W
BATTERY	1 single 18650 lithium battery
NOMINAL VOLTAGE	3.7 V

TELEMETRY SPECIFICATIONS	
COMMUNICATION MODE	GSM (4G with 2G fallback-region determine prior to order), upgradable Satellite (Iridium).
REAL-TIME DATA INTERVAL	5 minutes – 24 hours (user selectable)
REAL-TIME DATA	Water level and additional (status) parameters
GSM DATA LOAD	Approx. 8 kB per message

PRICING	
LEVEL GAUGE	€2,550 including web-portal license and mounting bracket
GSM COMMUNICATION	Micro SIM card and sufficient data credit to be arranged by user. Level Gauge can also be run in offline mode (data saved to SD card).

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