



Water Level Monitoring

Radar Level Gauge

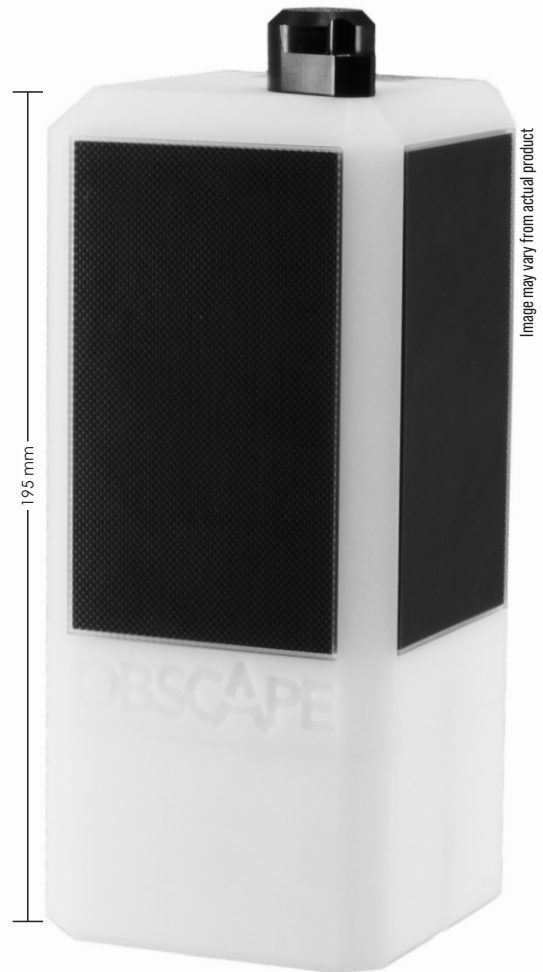
LEVEL MONITORING ANYWHERE

Accurate water level monitoring is crucial for managing both natural and artificial water systems. The **Radar Level Gauge** offers real-time water level measurements with exceptional accuracy, making it an ideal solution for ports, rivers, estuaries, canals, boreholes, storage basins etc. It can be fixed to platforms such as piers, jetties, bridge decks or poles.

Equipped with a high-precision radar sensor, it measures the distance to the water surface from its mounted position above. This eliminates the need for expensive and complex underwater operations. With a range of up to 40 meters, it handles even the most significant water level fluctuations effortlessly, ensuring precise and efficient monitoring.

KEY FEATURES

- 01 Accurate Water Level Data:** Provides precise and reliable measurements for effective monitoring
- 02 No Underwater Components:** Radar technology - minimising wear and tear while enabling deployment in challenging environments
- 03 Reliable Connectivity:** Data transfer via cellular networks ensures seamless access
- 04 Compact & Robust Design:** Durable, weatherproof housing built for tough conditions
- 05 Solar Powered:** Self-sustaining power source ensures uninterrupted operation
- 06 Integrated Data Portal:** User-friendly portal for efficient data management and analysis



PURCHASE INCLUDES

- Free access to the **Obscape Data Portal**
- Mounting brackets
- SD card - can also be run in offline mode

Optional: 1) **Satcom upgrade** for continuous connectivity beyond cellular range
2) **Cellular global SIM** - Includes €100 of data credit

RADAR LEVEL GAUGE TECHNICAL SPECIFICATIONS

SPECS

| | |
|-------------------------|---|
| HOUSING SIZE | 195 mm height x 87 mm width x 87 mm depth |
| WEIGHT | 2 kg |
| PRIMARY POWER SOURCE | Solar-powered, 3 Watt |
| CONNECTIVITY | Cellular (4G with 2G fallback) |
| CELLULAR DATA LOAD | ~8 kB per message |
| REAL-TIME DATA INTERVAL | 5 minutes – 24 hours (User selectable) |
| BATTERY TYPE | 1 x 18650 Lithium-ion battery |
| NOMINAL VOLTAGE | 3.7 V |



PARAMETERS

| | |
|--------------------------|---|
| INTERNAL SAMPLE INTERVAL | 5 Hz |
| AVERAGING DURATION | 2-40 Seconds (User configurable) |
| VERTICAL REFERENCE | Specified by user |
| TELEMETRY DATA QUEUE | In the event of temporary connection outages, a data queue ensures data is sent |
| DATA | Water level, water depth (Dependant on user specifying the distance between the sensor and the sea/river bed) |
| DIAGNOSTIC PARAMETERS | Battery voltage, internal temperature and atmospheric pressure, signal strength |

SENSOR

| | |
|--------------|--------------------|
| RADAR SENSOR | InnoSenT iSYS-6030 |
|--------------|--------------------|

DATA STORAGE

| | |
|--|---|
|  CLOUD STORAGE | Free access to the Obscape Data Portal for real-time and historical data, sensor configuration, alerts |
|  ON-BOARD SD CARD | Data stored to the on-board SD card as a backup - or for cases where data connection is absent |

DATA OUTPUT

- ☒ Water level ☒ Water depth*

*Dependant on user specifying the distance between the sensor and the sea/river bed

OPTIONAL SATCOM UPGRADE



SATCOM SPECS

| | |
|--------------|---------------------------------|
| ANTENNA SIZE | Height 74.2mm / Diameter 66.5mm |
| NETWORK | Iridium |
| DATA LOAD | 1 satellite credit per message |
| MONTHLY COST | Line rental and SATCOM credits |

Satellite subscription services and credits available on request

DATA ACCESS

SEAMLESSLY CONNECT FIELD DATA & OFFICE OPERATIONS

- 01 Real-time data:** Water level, water depth (dependant on input parameters)
- 02 Download:** CSV file, graphs, PDF report
- 03 Forwarding:** JSON API or HTTP post
- 04 Notifications:** Offline, low battery, parameter threshold exceedance

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