



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

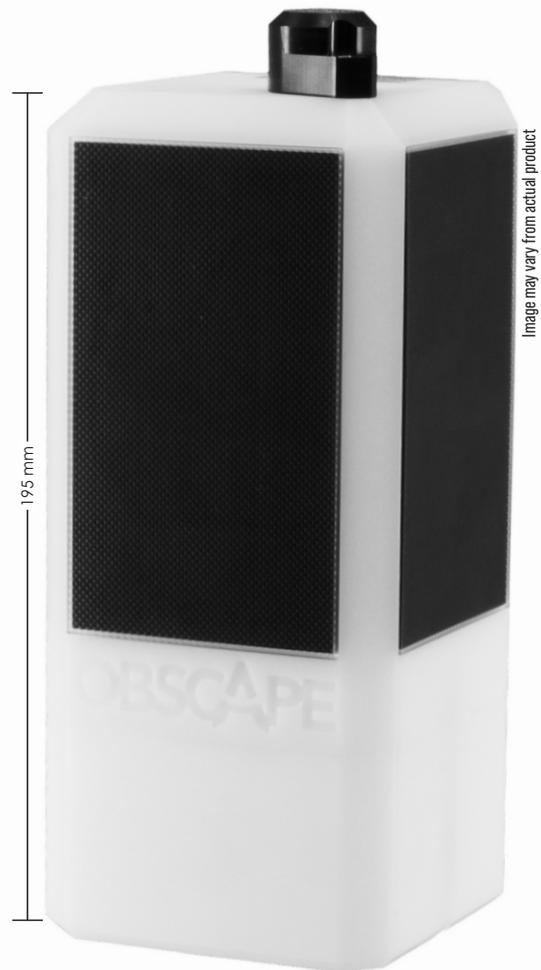


Image may vary from actual product

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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