Data Management

Data Portal

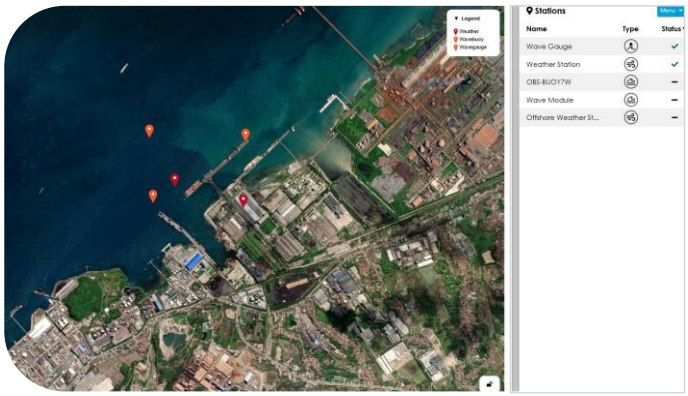
WHERE FIELD MEETS OFFICE

Effective environmental monitoring relies on more than just collecting data. It's about managing, analyzing, and acting on that data in real-time. That's where the **Obscape Data Portal** comes in. Designed as an essential tool for connecting the office with your field equipment, the portal empowers you to seamlessly integrate data visualization, device management, and operational insights into your workflow.

The portal includes robust tools for data analysis and management, such as data downloads, flagging invalid data points, comparing measurements across stations, and viewing historical statistics. Automated PDF data reports can be delivered directly to your inbox, ensuring effortless access to the latest information. The **Obscape Data Portal** offers tools to monitor the status of your devices, send automated email alerts, track GPS-enabled devices, and record field operations.

While the **Obscape Data Portal** is designed as your ultimate data management solution, we recognize the need to integrate real-time observations into your own systems. To facilitate this, the portal offers two methods of data forwarding:

1) API (Application Programming Interface): Delivers data in the widely-supported JSON format.
2) HTTP Posting Service: Sends data to a user-defined URL.



KEY FEATURES

01 **Data Access:** Seamlessly access your real-time data through the secure data portal

02 **White Labeling:** Upload your company logo and color scheme to the data portal to align with your brand identity.

03 **Report Generation:** Effortlessly generate or automate reports on your data

04 **Data Forwarding:** If the data portal doesn't meet your data management needs, simply forward the data to your own site via an easy-to-use API

05 **Maintenance Log:** Record all device maintenance in the data portal for long-term tracking

Kluyverweg 1, 2629HS Delft, The Netherlands | info@obscape.com

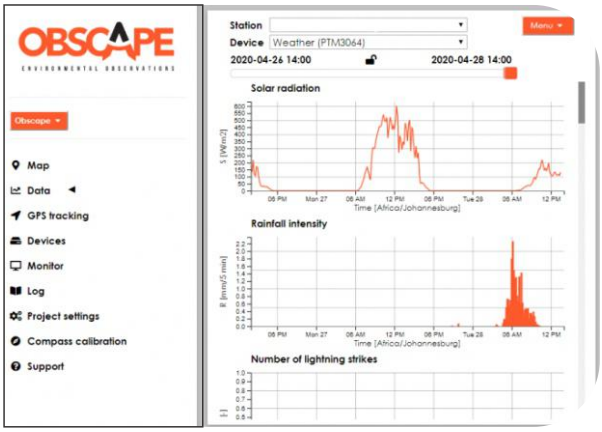
OBSCAPE DATA PORTAL TECHNICAL SPECIFICATIONS

ACCESS	
URL	http://www.obscape.com/portal
ACCOUNT CREATION	Upon invitation by Obscape or a registered colleague
ACCOUNT TYPES	Active users (Can make modifications), passive users (Can only view and download data)
BROWSERS SUPPORTED	Any
DIAGNOSTIC PARAMETERS	Battery voltage, internal temperature, atmospheric pressure and signal strength

OPERATIONAL ALERTS	
DELIVERY MODE	Email - List of recipients is user-controlled
OFFLINE ALERTS	Alert issued if no real-time data have been received from your device over a period of 24 hours
BATTERY ALERTS	Alert issued if the battery level of your device becomes critically low
GPS ALERTS	Alert issued if GPS-tracked device leaves the GPS fence (User-defined radius)
THRESHOLD ALERTS	Alert issued if a real-time observed quantity exceeds a user-defined threshold (e.g. if the measured wave height exceeds 2.0 metres)
SATCOM ALERTS	Alert issued if satellite line rental is about to expire for your device(s)

DATA FORWARDING	
SUPPORTED MODES	RESTful API and HTTP posting
API URL	https://www.obscape.com/portal/api/v3/api
API RESPONSE FORMAT	JavaScript Object Notation (JSON)
API SECURITY	User-specific access key (Generation of a new key is user-controlled)
HTTP POSTING	Observation data are HTTP-posted to a user-defined URL. Failed posts are queued and resent at a later time
CUSTOM REFERENCE	Specify your own custom reference ID for each measurement station for compliance with your internal data management

WHITE LABELLING	
LOGO	Upload your logo in JPG or PNG format
COLOUR SCHEME	Specify your colour for buttons, highlighting etc.
APPLICATION	Custom styling appears on the **Obscape Data Portal** and in PDF reports



SEAMLESS DATA & DEVICE MANAGEMENT

01 **Device Control:** Activate, manage, & configure Stations

02 **Data Viewing:** Real-time iteractive graphs, cross-station data comparison

03 **Data Downloads:** Device-specific reports & files – graphs (PDF, PNG), ASCII data (CSV), snapshots, image bursts, and time-lapse videos (for compatible cameras)

04 **Real-Time Tracking:** Live monitoring of GPS-enabled devices & user locations

05 **Maintenance Log:** Create and view log entries with Attachments (supports all common file formats, including images)

06 **SatCom Management:** Extend line rental, view current and past usage

07 **Support:** FAQ, manuals, post-processing scripts, instruction videos and more

CONTACT US

E-mail: info@obscape.com
Website: www.obscape.com

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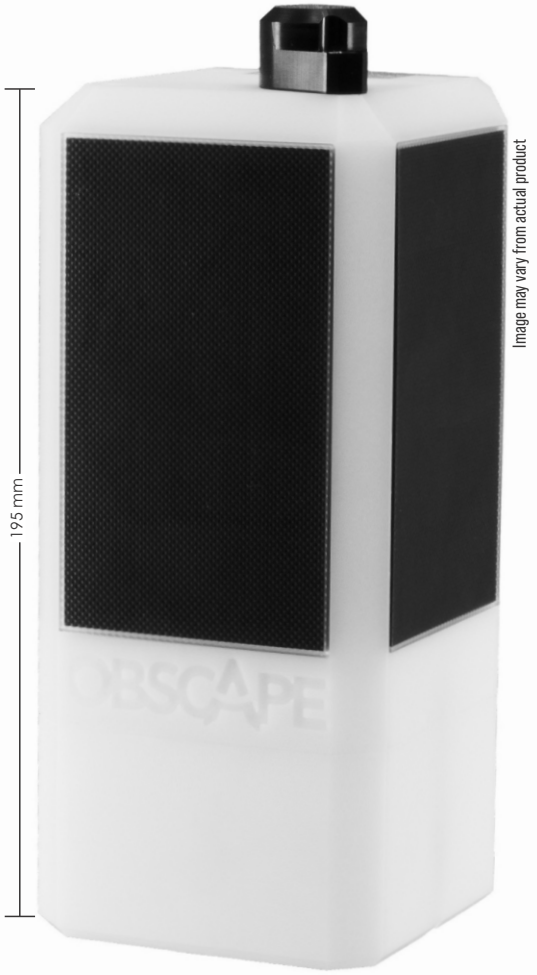
// DATA SHEET

Wave Monitoring

Radar Wave Gauge

WAVE MONITORING ANYWHERE

The **Radar Wave Gauge** offers an innovative and precise solution for real-time wave measurements. Equipped with a millimetre-accurate, industry-leading radar sensor, it measures water surface elevation directly, bypassing the limitations of pressure-based methods. Its impressive 40-meter range ensures reliable performance, even under extreme water level variations. With no submerged components, the **Radar Wave Gauge** eliminates the need for costly and labor-intensive underwater installations. Designed for versatility, it can be easily mounted on fixed structures such as platforms, piers, jetties, poles, or bridge decks, making it a practical and efficient choice for wave monitoring across various applications.



KEY FEATURES

01 **Accurate Wave 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 network ensures seamless access

04 **Compact & Robust Design:** Durable, weatherproof housing built for tough conditions

05 **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

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RADAR WAVE GAUGE TECHNICAL SPECIFICATIONS

SPECS	
HOUSING SIZE	195 mm height x 87 mm width x 87 mm depth
WEIGHT	2 kg
PRIMARY POWER SOURCE	External power source required: 6 V
CONNECTIVITY	Cellular (4G with 2G fallback)
CELLULAR DATA LOAD	~8 kB per message
REAL-TIME DATA INTERVAL	30 minutes – 24 hours (User selectable)
BATTERY TYPE	1 x Lithium-ion battery
NOMINAL VOLTAGE	3.7 V

PARAMETERS	
VERTICAL REFERENCE	Specified by user
MAXIMUM RANGE	40 m
SAMPLING INTERVAL	30 minutes
BURST LENGTH	24 minutes (7168 samples at 5 Hz)
TELEMETRY DATA QUEUE	In the event of temporary connection outages, a data queue ensures data is sent once connection is restored
INTERNAL SAMPLING FREQUENCY	5 Hz
FILTERED FREQUENCY RANGE	0.05 - 1 Hz (1 - 20 seconds)
DIAGNOSTIC PARAMETERS	Battery voltage, internal temperature and atmospheric pressure, signal strength

SENSOR	
RADAR SENSOR	InnoSenT iSYS-6030
SENSOR ACCURACY	0.1% of measured range

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 OUTPUTS

	CELL	*SATCOM	SD CARD
Water level	✓	✓	✓
Significant Wave Height (Hm0 [m])	✓	✓	✓
Maximum Wave Height (Hmax [m])	✓	✓	✓
Peak Wave Period (Tp [s])	✓	✓	✓
Mean Wave Period Tm0,1[s]	✓	✓	✓
Mean Wave Period Tm0,2[s]	✓	✗	✓
Mean Wave Period Tm-1,0[s]	✓	✗	✓
Mean Wave Period (Tavg[s])	✓	✗	✓
Maximum Wave Period (Tmax [s])	✓	✗	✓
Swell Wave Height (Hsw [m])	✓	✓	✓
Swell Wave Period (Tsw [s])	✓	✓	✓
Variance Density Spectrum (Puu [m2/Hz])	Only in real-time spectrum mode		✓
GPS Coordinates (Lat, Lon)	✓	✓	✓

*Optional Upgrade

Direcitonal coefficients are not included

Satellite subscription services and credits available on request

DATA ACCESS

SEAMLESSLY CONNECT FIELD DATA & OFFICE OPERATIONS

01 **Real-time data:** Wave and water level data
02 **Download:** CSV file, graphs, PDF report
03 **Forwarding:** JSON API or HTTP post
04 **Notifications:** Offline, low battery, parameter threshold exceedance

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


Image may vary from actual product

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Wave Monitoring

Wave Module

WAVE PRECISION

The **Obscape Wave Module** is a real-time wave measurement system that delivers precise data on the full wave spectrum, including wave height, period, and direction. Designed for durability, it features a rugged, solar-powered housing built to withstand extreme maritime conditions. Data are accessible via the secure **Obscape Data Portal** with cellular connectivity, and optional satellite communication upgrade for global coverage. With GPS tracking, automated alerts for drift or system issues, and easy deployment on various floating structures, the **Wave Module** provides a reliable and user-friendly solution for accurate wave monitoring and operational planning.

KEY FEATURES

01 **Accurate Data:** Peak and mean wave period data; peak wave direction and spreading

02 **Solar-Powered:** Self-sustaining power source ensures uninterrupted operation

03 **Reliable Connectivity:** Data transfer via cellular networks ensures seamless access

04 **Compact & Robust Design:** Durable, weatherproof housing built for tough conditions

05 **GPS Watch Circle:** so you can monitor where your floating assets area at all times

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

WWW.OBSCAPE.COM
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WAVE MODULE 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 (Bulk parameters) / ~14 kB per message (Bulk parameters and spectra)
REAL-TIME DATA INTERVAL	30 minutes - 24 hours (User selectable)
BATTERY TYPE	1 x 18650 Lithium-ion battery
NOMINAL VOLTAGE	3.7 V

PARAMETERS	
SAMPLE FREQUENCY	6.25 Hz
FILTERED FREQUENCY RANGE	0.05 Hz – 1.00 Hz (20 sec – 1 sec)
BURST DURATION	30 minutes
TELEMETRY DATA QUEUE	In the event of temporary connection outages, a data queue ensures data are sent
DIAGNOSTIC PARAMETERS	Latitude & longitude, battery voltage, solar panel voltage, signal strength

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 OUTPUTS

	CELL	*SATCOM	SD CARD
Significant Wave Height (Hm0 [m])	✓	✓	✓
Maximum Wave Height (Hmax [m])	✓	✓	✓
Peak Wave Period (Tp [s])	✓	✓	✓
Mean Wave Period Tm0,1[s]	✓	✓	✓
Mean Wave Period Tm0,2[s]	✓	✗	✓
Mean Wave Period Tm-1,0[s]	✓	✗	✓
Mean Wave Period (Tavg[s])	✓	✗	✓
Maximum Wave Period (Tmax [s])	✓	✗	✓
Peak Wave Direction (Dirp [deg N])	✓	✗	✓
Mean Wave Direction (Dirm [deg N])	✓	✓	✓
Peak Directional Spreading (Sigp [deg])	✓	✗	✓
Mean Directional Spreading (Sigm [deg])	✓	✓	✓
Swell Wave Height (Hsw [m])	✓	✓	✓
Swell Wave Period (Tsw [s])	✓	✓	✓
Swell Wave Direction (Dirsw [deg N])	✓	✓	✓
Variance Density Specturm (Puu [m2/Hz])	Only in real-time spectrum mode		✓
Directional Coefficients (a1, b1, a2, b2 [-])			✓
GPS Coordinates (Lat, Lon)	✓	✓	✓
Estimated Wind Speed	✓	✓	✓
Estimated Wind Direction	✓	✓	✓

*Optional Upgrade

The accuracy of wave modules, particularly in determining wave direction, is highly influenced by the dynamics of the buoy platform they are mounted on.

DATA ACCESS

SEAMLESSLY CONNECT FIELD DATA & OFFICE OPERATIONS

01 **Real-time data:** Wave data, temperature, diagnostic parameters

02 **Download:** CSV file, graphs, PDF report

03 **Forwarding:** JSON API or HTTP post

04 **Notifications:** GPS watch circle, wave height threshold

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

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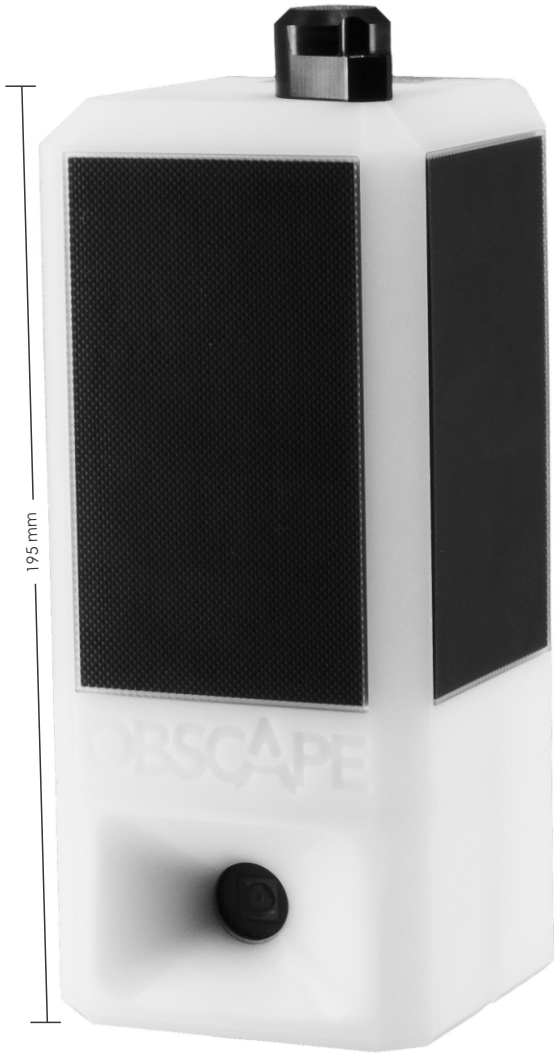
Camera Monitoring

5MP Time-lapse Camera

CAPTURING CHANGE

The **5MP Time-lapse Camera** provides real-time, 24/7 time-lapse images directly to your desktop. Fully wireless and solar-powered, the camera eliminates the need for mains power or dedicated internet access. The **5MP Time-lapse Camera** features a robust, compact housing, making it easy to deploy in even the most remote environments. Whether you are monitoring coastal erosion, progress of construction works, beach attendance or vegetation growth, time-lapse images can help you to collect the required data, offing you a comprehensive perspective of your area of interest.



KEY FEATURES

01 **Real-Time Images:** Set your interval and access data directly from your desktop 24/7

02 **Wireless & Solar-powered:** Cable-free with sustainable solar energy for easy deployment

03 **Reliable Connectivity:** Data transfer via cellular networks ensures seamless access

04 **Robust Design:** Durable, weatherproof housing built for tough conditions

05 **Easy Deployment:** Lightweight and multiple mounting options for flexible setup

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: Cellular global SIM
Includes €100 of data credit

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5MP TIME-LAPSE CAMERA 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	~1MB per message (5MP)
REAL-TIME DATA INTERVAL	5 minutes - 24 hours (Same as time-lapse interval)
BATTERY TYPE	1 x 18650 Lithium-ion battery
NOMINAL VOLTAGE	3.7 V

PARAMETERS	
TIME-LAPSE INTERVAL	5 – 60 minutes (User selectable)
DIAGNOSTIC PARAMETERS	Battery voltage, internal temperature and atmospheric pressure, signal strength

DATA STORAGE	
CLOUD STORAGE	Free access to the **Obscape Data Portal** for real-time and historical data, sensor configuration, alerts
STORAGE DURATION	Images are stored on the **Obscape Data Portal** for two years from date of capture - if this is not sufficient exception storage duration can be purchased
ON-BOARD SD CARD	Data stored to the on-board SD card as a backup - or for cases where data connection is absent

OPTIONAL DATA OUTPUTS

User can specify one of the following outputs

Large	5MP, 2592x1944
Medium	2MP, 1600x1200
Small	0.3MP, 640x480

DATA ACCESS

SEAMLESSLY CONNECT FIELD DATA & OFFICE OPERATIONS

01 **Image Viewer:** Clickable thumbnails and time range selector

02 **Downloads:** JPEG Zipped, time-lapse videos (AVI or Mp4)

03 **Forwarding:** JSON API or HTTP post

04 **Notifications:** Offline, low battery, parameter threshold exceedance

CONTACT US

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Website: www.obscape.com

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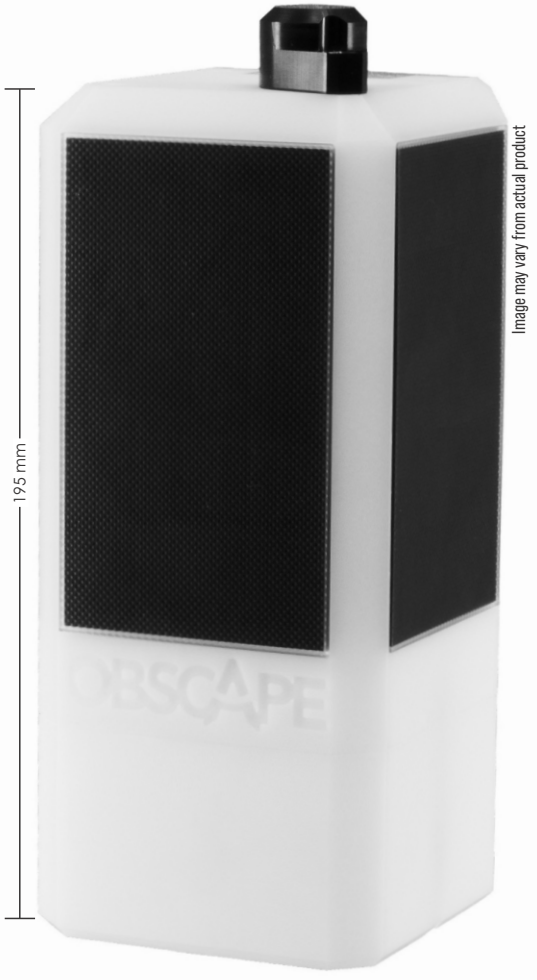
Water Level Monitoring

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

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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

Image may vary from actual product

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

CONTACT US

E-mail: info@obscape.com
Website: www.obscape.com

A RISING TIDE LIFTS ALL BOATS

Obscape's Tidal 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 Tidal Gauge is suitable for deployment in ports, harbours, marinas, static offshore structures estuaries, lagoons, piers, jetties, freshwater dams and most coastline areas.

Whether you are interested in monitoring offshore construction projects, port operations, storm surges extreme swell action, maritime navigation, and many other applications, the Obscape Tide 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 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 Tide 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 Tide Gauge very suitable for monitoring of remote areas.

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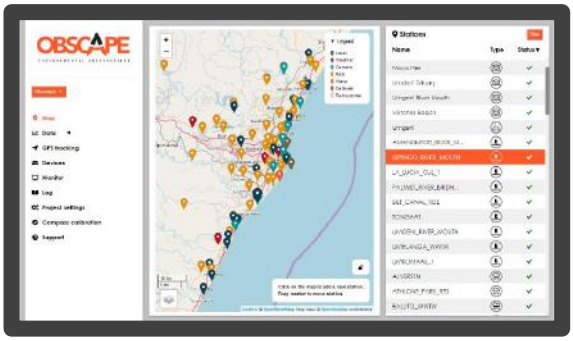
VERSATILE DATA PORTAL

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	
TIDE GAUGE	€2,700 including web-portal license and mounting bracket
CELLULAR COMMUNICATION	Micro SIM card and sufficient data credit to be arranged by user. Level Gauge can also be run in offline mode.

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