



Water Quality Monitoring

# Water Quality Station

## ADVANCED WATER QUALITY DATA

The Obscape **Multiparameter Water Quality Station** combines real-time data logging, telemetry, and solar power, seamlessly integrating with industry-leading water quality instruments for high-accuracy environmental monitoring. Designed for 24/7 deployment, it features a wet-mateable connector for secure sensor interfacing and hassle-free installation. With preinstalled sensor-specific software, deployment is simple, and access to real-time data is seamless. Monitor key parameters such as turbidity, salinity, pH, temperature, pressure and oxygen content, ensuring reliable insights from project inception to post-monitoring phases. Select your preferred multiparameter sensor, from the list of supported sensors, to meet specific field measurement requirements.

### 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



### KEY FEATURES

- 01 **Comprehensive Data:** Accurate water quality data in real-time
- 02 **Reliable Connectivity:** Data transfer via cellular networks ensures seamless access
- 03 **Compact & Robust Design:** Durable, weatherproof housing built for tough conditions
- 04 **Easy Deployment:** Software is pre-loaded - simply turn on device, install and start logging
- 05 **Sensor Integration Capability:** Able to integrate with a wide range of water quality sensors
- 06 **Integrated Data Portal:** User-friendly portal for efficient data management and analysis



# WATER QUALITY STATION TECHNICAL SPECIFICATIONS

SPECS	
HOUSING SIZE	195 mm height x 87 mm width x 87 mm depth
HOUSING WEIGHT	2 kg
PRIMARY POWER SOURCE	Solar-powered, 3 Watt
CONNECTIVITY	Cellular (4G with 2G fallback) and Optional upgrade to Satellite (Iridium)
REAL-TIME DATA INTERVAL	5 minutes - 24 hours (User selectable)
BATTERY TYPE	1 x 18650 Lithium-ion battery, nominal voltage 3.7V
OUTPUT POWER	12V
PROTOCOLS	RS485, Rs232, SDI-12, analog

PARAMETERS	
SAMPLE INTERVAL	5 - 60 minutes (User selectable)
TELEMETRY DATA QUEUE	In the event of temporary connection outages, a data queue ensures data is sent
DIAGNOSTIC PARAMETERS	Sensor inclination, battery voltage, signal strength, internal temperature

SENSOR	
SENSOR ALTERNATIVES	In-Situ Aqua TROLL, YSI EXCO3, NKE WiMo, Aqualabo CTZN, <b>ANB Sensors</b> , Observator Analite NEP5000
MAXIMUM SENSOR DEPTH	Up to 250 m

DATA OUTPUT	
PARAMETERS*	Data output is dependant on selected sensor type and required parameters

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

**\*Sensor options:** Rugged Dissolved Oxygen, Optical Dissolved Oxygen, Actual and specific conductivity, pH/ORP, Salinity, Turbidity, Temperature, pressure, Chlorophyll a, Phycoerythrin (BGA-PE), Phycocyanin (BGA-PC), Rhodamine WT, Fluorescein WT Ammonium (ISE), Total dissolved solids (TDS), Chloride (ISE), Nitrate (ISE), Ion Selective Electrodes, Fluorometer, Crude Oil, Fluorescent Dissolved Oxygen

## 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 quality data
- 02 Download:** CSV file, graphs, PDF report
- 03 Forwarding:** JSON API or HTTP post
- 04 Notifications:** Online/offline, battery level, parameter threshold exceedance

## CONTACT US

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**Integration Partners**



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