



**OBSCAPE**  
WEATHER STATION

## RAIN OR SHINE, WEATHER DATA DELIVERED TO YOUR OFFICE

Obscape's Weather Station supplies you with real-time weather data. This robust and user-friendly device combines Obscape's Power and Telemetry Module with an industry-standard weather sensor. Built-in solar panels and the GSM connection guarantee easy installation in any environment.

The weather is an important boundary condition for many natural processes. By adding the Weather Station to your environmental monitoring setup, you will not overlook the impact of wind, rain and other weather components in your area of interest.



### KEY FEATURES

- Comprehensive weather data
- Completely wireless
- Real-time data
- Solar powered
- Real-time data up to 4G (upgradable to Satellite)
- Multiple mounting options
- Versatile data portal included

### THE VALUE OF WEATHER DATA

Weather data are an indispensable resource for any environmental monitoring program. Wind, temperature, solar radiation and rainfall are the main drivers of environmental dynamics. Whether you are studying dune development, catchment management, stormwater runoff or ocean waves, everything starts with a thorough understanding of the local weather. Therefore, Obscape's Weather Station should be a standard asset of your environmental monitoring setup. It provides a wide range of weather parameters, including air temperature and pressure, wind speed and direction, rainfall, solar radiation, relative humidity and lightning.

### COMPLETELY WIRELESS

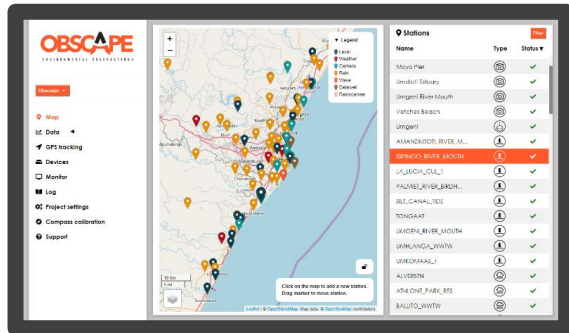
The Weather Station is completely wireless. Power is supplied through built-in solar panels, while data are transmitted in real-time using a 4G GSM connection. Therefore, the Weather Station is easy to install at any desired location within GSM coverage. There is no need to worry about access to mains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

[WWW.OBSCAPE.COM](http://WWW.OBSCAPE.COM)

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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 Weather Station comes with a license for the Obscape Data Portal. The data collected by your Weather Station, 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 weather data, including the generation of PDF reports. It is your ultimate tool to unify the office and the field.



## TECHNICAL SPECIFICATIONS

DATA SPECIFICATIONS	
<b>WEATHER PARAMETERS</b>	Air temperature, solar irradiance, rainfall intensity, lightning strike count, lightning distance, wind speed, wind direction, gust wind speed, vapor pressure, atmospheric pressure, relative humidity
<b>ADDITIONAL PARAMETERS</b>	Sensor inclination, battery voltage, GSM signal strength, internal temperature
<b>SAMPLING INTERVAL</b>	5 – 60 minutes (user selectable)
<b>STORAGE</b>	On-board micro SD card

PHYSICAL CHARACTERISTICS	
<b>COMPONENTS</b>	Power and Telemetry Module (PTM) and Weather Sensor
<b>WEATHER SENSOR</b>	ClimaVUE50
<b>PTM WIDTH</b>	87 mm
<b>PTM DEPTH</b>	87 mm
<b>PTM HEIGHT</b>	200 mm
<b>PTM WEIGHT</b>	1 kg
<b>WEATHER SENSOR DIAMETER</b>	100 mm
<b>WEATHER SENSOR HEIGHT</b>	340 mm
<b>WEATHER SENSOR WEIGHT</b>	1 kg
<b>MOUNTING POLE DIAMETER</b>	50 mm (pole not included)

ELECTRICAL CHARACTERISTICS	
<b>SOLAR PANEL CAPACITY</b>	3W
<b>BATTERY</b>	1 single 18650 lithium battery
<b>NOMINAL VOLTAGE</b>	4.2 V

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

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

PRICING	
<b>WEATHER STATION</b>	€3,895 including web-portal license and mounting bracket
<b>GSM COMMUNICATION</b>	Micro SIM card and sufficient data credit to be arranged by user. Weather Station can also be run in offline mode (data saved to SD card).

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