Weather Monitoring
All-In-One Weather Station

MONITOR, ANALYZE ADAPT

Obscape's **Onshore Weather Station** delivers real-time reliable weather data by integrating with the ATMOS 41 sensor (industry-standard). With built-in solar panels and cellular connectivity, installation and access to your weather data has never been this easy. Incorporating the **Onshore Weather Station** into your monitoring setup ensures you capture the impact of wind, rain, and other atmospheric conditions. Weather data are essential for a wide range of applications - whether you're monitoring dune formation, catchment management, stormwater runoff, or ocean waves, understanding local weather is fundamental. The **Onshore Weather Station** provides essential information, making it an useful for any environmental monitoring program.

Image may vary from actual product

195 mm

KEY FEATURES

01 **Comprehensive Data:** Accurate, real-time weather data for informed decision making

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:** Lightweight and multiple mounting options for flexible setup

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

ONSHORE WEATHER 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 Lithium-ion battery
NOMINAL VOLTAGE	3.7 V

PARAMETERS	
SAMPLE INTERVAL	5 - 60 minutes
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 TYPE	ATMOS 41

DEPLOYMENT	
ENVIRONMENT	Deployment on land based unsheltered platforms only. Enough exposure to sunlight, rainfall and wind is required

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	
✔ **Air temperature**	✔ **Wind speed & direction**
✔ **Solar irradiance**	✔ **Gust wind speed**
✔ **Rainfall intensity**	✔ **Vapour pressure**
✔ **Lighting strike count**	✔ **Atmospheric pressure**
✔ **Lightning distance**	✔ **Relative humidity**

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:** Weather parameters

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

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