MAKE IT RAIN

Obscape's Rain Gauge delivers real-time rainfall measurements. Its industry-standard rain collector is connected to Obscape's Power and Telemetry Module to create a completely wireless real-time rain gauge.

The instrument's robust design and wireless nature make it conveniently applicable at any location, both in urban and remote environments. A network of Rain Gauges will yield valuable insights into the dynamics of your water system.

KEY FEATURES

- Accurate rainfall intensity measurements
- Industry-standard rain collector
- 0.2 mm resolution
- Robust design
- Completely wireless
- Real-time data
- Solar powered
- Real-time data up to 4G (upgradable to Satellite)
- Multiple mounting options
- Versatile data portal included

CONVENIENT PRECIPITATION MONITORING

Rainfall is a key process in catchment management. It is an important source of water in natural water systems, but can also trigger flooding disasters. Rainfall intensity can vary strongly over time and at different locations in the water system. In order to determine the input of water into the system and to stay informed in disaster situations, a network of rain gauges is a basic necessity for any catchment monitoring programme. Obscape's Rain Gauge is the perfect instrument to provide you with the latest rainfall data at any location in the catchment area.

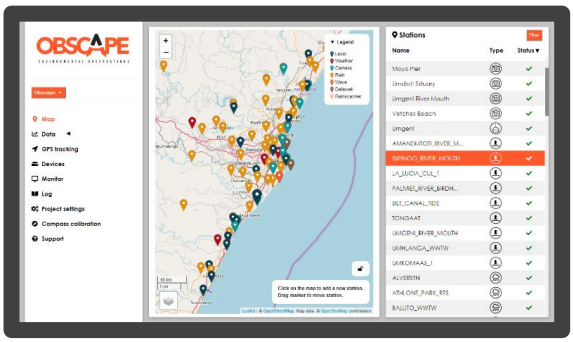
COMPLETELY WIRELESS

The Rain 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 Rain 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 Rain Gauge very suitable for monitoring of remote areas.

Obscape B.V. | Reg.: 74971409 | VAT: NL860092550B01
Kluyverweg 1, 2629HS Delft, The Netherlands | info@obscape.com

VERSATILE DATA PORTAL

The value of real-time observations strongly depends on the ability to view and analyse them in real-time. Therefore, the Rain Gauge comes with a license for the Obscape Data Portal. The data collected by your Rain 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 rainfall data, including the generation of PDF reports. It is your ultimate tool to unify the office and the field.



TECHNICAL SPECIFICATIONS

DATA SPECIFICATIONS	
RAINFALL PARAMETERS	5-minute rainfall intensity, individual bucket tip times
ADDITIONAL PARAMETERS	Battery voltage, Solar panel voltage, GSM signal strength, internal temperature
RESOLUTION	0.2 mm (equal to 1 bucket tip)
SAMPLING INTERVAL	5 minutes
STORAGE	On-board micro SD card

WEB-PORTAL SPECIFICATIONS	
REAL-TIME GRAPHS	Rainfall intensity 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, rainfall intensity threshold exceedance

PHYSICAL CHARACTERISTICS	
COMPONENTS	Power and Telemetry Module (PTM) and Rain Collector
WEATHER SENSOR	Davis 6465M
PTM WIDTH	87 mm
PTM DEPTH	87 mm
PTM HEIGHT	200 mm
PTM WEIGHT	1 kg
RAIN COLLECTOR DIAMETER	222 mm
RAIN COLLECTOR HEIGHT	240 mm
RAIN COLLECTOR WEIGHT	1 kg

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	5-minute rainfall intensity, individual bucket tip times and additional (status) parameters
GSM DATA LOAD	Approx. 8 kB per message

PRICING	
RAIN GAUGE	€1,300, Web-portal license and mounting bracket
GSM COMMUNICATION	Micro SIM card and sufficient data credit to be arranged by user. Rain Gauge can also be run in offline mode (data saved to SD card).

Version: July 2021

Obscape B.V. | Reg.: 74971409 | VAT: NL860092550B01
Kluyverweg 1, 2629HS Delft, The Netherlands | info@obscape.com