

# CONTACTLESS, ACCURATE, RELIABLE

Obscape's Flow Gauge provides real-time surface flow measurements using Doppler shift radar technology. Mounted above the water surface, it offers easy deployment and minimal maintenance. Designed for both natural and engineered water systems, the **Flow Gauge** is ideal for monitoring river flow, outfall discharge, and channel runoff. Accurate flow velocity measurements are essential for environmental monitoring, discharge calculations, riverbed protection, and sediment transport studies. By utilising pulse wave radar, the Flow Gauge measures surface flow velocity without direct water contact, eliminating biofouling and reducing maintenance. Its non-contact design also prevents damage from sediments, floating debris, or driftwood, ensuring high reliability, especially in flood conditions.

#### **KEY FEATURES**

- **11 Wide Angle:** A 32° opening angle captures a broad range of velocities
- **02 Reliable Connectivity:** Data transfer via cellular networks ensures seamless data access
- **[]3 Easy Deployment:** No underwater components, small and lightweight making it easy to deploy
- **105 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)

### FLOW GAUGE 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
BATTERY TYPE	1 x 18650 Lithium-ion battery
NOMINAL VOLTAGE	3.7 V

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	Flow-tronic phoenix radar sensor or OTT SVR100
SENSOR ACCURACY	+/- 1%
DETECTION RANGE	0.50 m - 35 m
	$\pm 0.10$ to $\pm 15$ m/s (Depending on flow conditions: bi-directional / flow direction detection)

COMMUNICATION	
CONNECTIVITY	Cellular (4G with 2G fallback) and optional upgrade to satellite (Iridium)
CELLULAR DATA LOAD	~8 kB per message
REAL-TIME DATA INTERVAL	5 minutes - 24 hours (User selectable)

DATA OUTPUT	
DATA REPORTED	Surface flow velocity

DATA STORAGE	
CLOUD STORAGE	Free access to the <b>Obscape Data Portal</b> 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

## 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**

## YOUR DEVICE, YOUR DATA: EASILY ACCESSIBLE ON THE INCLUDED DATA PORTAL

- 11 Real-time data: Surface flow velocity data
- **12 Download:** CSV file, graphs, PDF report
- **03** Forwarding: JSON API or HTTP post
- **14 Notifications:** Online/offline, battery level, parameter threshold exceedance

#### **CONTACT US**

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