



Currents

ADCP Buoy

HIGH-PRECISION MONITORING

The Obscape **ADCP Buoy** integrates Obscape wave buoy technology with the industry-leading **Nortek AquaDopp** sensors for autonomous data capture. Designed for deployment in harsh marine environments, these buoys can withstand extreme weather conditions enabling seamless real-time monitoring of the water column data anywhere.

Engineered for versatility, the **ADCP Buoy** supports profiling ranges up to 90m. Data is easily accessible via the **Obscape Data Portal**, offering instant access to reliable, high-precision data.

KEY FEATURES

- 01 Comprehensive Data:** Accurate current data
- 02 Reliable Connectivity:** Data transfer via cellular networks and/or satellite
- 03 Easy Deployment:** Lightweight, easy to handle and transport, quick start up
- 04 Sensor Versatility:** Select the sensor for your needs
- 05 Integrated Data Portal:** User-friendly portal for efficient data management and analysis



PURCHASE INCLUDES

- Free access to the **Obscape Data Portal**
- SD card: can run in offline mode
- SATCOM communication: 3 months free line rental and 5,000 satellite communication credits included

Optional: Mooring

Incl. s/s chain, line, s/s in-line weights & floats
Excl. anchor.

Alternatively: Mooring can be constructed using the *Obscape Mooring Guideline*

ADCP BUOY TECHNICAL SPECIFICATIONS

SPECS

BUOY DIMENSIONS	500 mm diameter x 350 mm height
BUOY WEIGHT	15 kg
PRIMARY POWER SOURCE	Solar-powered, 7 Watt
CONNECTIVITY	Cellular (4G with 2G fallback) and satellite (Iridium)
CELLULAR DATA LOAD	~10 kB per message
SATCOM DATALOAD	1 to 6 credit per message
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 (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 OPTIONS	Nortek AquaDopp
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DATA OUTPUT

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

	AQUADOPP 400 KHz	AQUADOPP 600 KHz	AQUADOPP 1.0 Mhz	AQUADOPP 2.0 MHz
Maximum profiling range	60-90m	30-40m	12-25m	4-10m
Cell Size	1 - 8m	1 - 4m	0.3 - 4m	0.1 - 2m
Beam Width	3.7°	3.0°	3.4°	3.7°
Number of beams	3	3	3	3
Water pressure	✓	✓	✓	✓
Water temperature	✓	✓	✓	✓
Horizontal velocity profile	✓	✓	✓	✓
Vertical velocity profile	✓	✓	✓	✓
Beam amplitude	✓	✓	✓	✓
Depth average velocity	✓	✓	✓	✓
Depth averaged	✓	✓	✓	✓
Flow direction	✓	✓	✓	✓

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

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