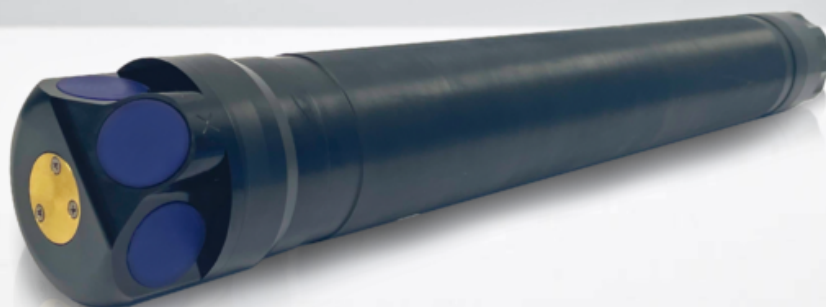


## Aquadopp 2 - 500 m



**NEW!**



### **Courantomètre ponctuel polyvalent avec en option mesure de la houle PUV**

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The Aquadopp 300 m is a compact, accurate and affordable single-point current meter for applications where a current profile is not needed. Designed for use in a number of deployment scenarios from mooring lines to bottom-mounted structures, it comes with PUV-based directional wave measurement capability as standard, making it the best value in the industry.

Raw magnetometer data can be stored for post calibration of compass when used without the inductive modem option.

## Highlights

- ✓ Single-point current meter
- ✓ Perfect for mooring lines
- ✓ PUV-based directional wave measurements

## Applications

- ✓ Attached to mooring lines
- ✓ In conjunction with riser monitoring systems
- ✓ Measurements of unaffected currents from physical structures
- ✓ Shallow-water wave and current measurements
- ✓ Alternative to mechanical current meters with errors due to fouling
- ✓ Near-surface current measurements from surface buoys
- ✓ Studies of tidal currents
- ✓ Suitable for wave buoys

## Technical specifications

### → Water velocity measurements

Cell size	0.75 m
Maximum number of cells	1
Distance to measurement	1.0-6.0 m (user-selectable)
Velocity range	±1 m/s, ±2.5 m/s, ±5 m/s
Accuracy	±1% of measured value ±0.5 cm/s
Horizontal velocity precision (consult instrument SW)	Typ. 1 cm/s
Maximum sampling rate (output)	2 Hz
Internal sampling rate	4 Hz
Wave measurements	PUV (optional)

### → Echo intensity

Sampling	Same as velocity
Resolution	0.5 dB
Dynamic range	90 dB
Transducer acoustic frequency	2 MHz
Number of beams	3
Beam width	1.7°

### → Sensors

Temperature:

Temp. range	-4 to +40 °C
Temp. accuracy/resolution	0.1 °C/0.01 °C
Temp. time response	<1 min

Compass: Solid State Magnetometer

Accuracy/resolution <2° for tilt <30°/0.01°

Tilt: Solid State Accelerometer

Accuracy/resolution 0.2° for tilt <30°/0.01°

Maximum tilt Full 3D

Up or Down Automatic detect

Pressure: Piezoresistive

Range 30 m/100 m/500 m

Accuracy/precision 0.25% FS / 0.005% of full scale

### → Digital inputs

No. of channels	1
Digital input format	MicroCat CTD

### → Data recording

Capacity	16 GB
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### → Real-time clock

Accuracy  $\pm 1$  min/year

Backup in absence of power 4 weeks

### → Data communications

I/O RS-422

Communication baud rate 9600 Baud-1.2 Mbaud (default 115200 Baud)

User control Nortek Deployment Software or direct ASCII commands, with binary or ASCII data output

### → Software

Operating system Agnostic

Functions Deployment planning, instrument configuration, data retrieval and conversion. Online data display

### → Power

DC input 9-24 VDC

Absolute maximum DC input 26 VDC

Maximum peak current 4.5 A

Power consumption Consult Nortek Deployment Software

Sleep current  $< 10$   $\mu$ A

Transmit power 0.45-45 W, adjustable over 20 dB

### → Batteries

Internal battery capacity 1-3 x 50 Wh (Alkaline), 1-3 x 165 Wh (Lithium), 1-3 x 76 Wh (Li-Ion)

Battery weight 430g per 50 Wh (Alkaline), 380g per 165 Wh (Lithium), 300g per 76 Wh (Li-Ion)

New battery voltage 13.5 VDC

### → Environmental

Operating temperature -5 to +40 °C

Storage temperature -20 to +60 °C

Shock and vibration Shock: IEC 60068-2-27, Vibration: IEC 60068-2-64

EMC EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019

Depth rating 500 m

### → Connectors

Bulkhead (Impulse) MCBH-8-FS Brass

Cable PMCIL-8-MP on 5 m (default) polyurethane cable

### → Materials

Standard model POM, Naval Brass, Titanium Gr.5, Epoxy

### → Dimensions (see drawings for details)

Maximum housing diameter 75 mm

Maximum length S2VC: 593 mm, S2SC: 634 mm

## → Weight

Weight in air (without batteries) S2VC: 2480g, S2SC: 2710g

Weight in water (without batteries) S2VC: -150g, S2SC: -50g

## → Arrangements

S2VC Shallow water, 2MHz, Vertical orientation, Current meter

S2SC Shallow water, 2MHz, Side-looking orientation, Current meter