

Aquadopp 300 m -Legacy



This version of the Aquadopp is no longer available.

Please see the Aquadopp Generation 2.

This version of the Aquadopp remains functional and supported. Please visit our <u>support center</u> if you require assistance.

Highlights

Applications

Technical specifications

Water velocity measurements	
Maximum profiling range	N/A
Cell size	0.75 m
Minimum blanking	0.35 m
Maximum number of cells	1
Measurement cell position	0.35-5.0 m (user-selectable)
Default position (along beam)	0.35-1.85 m
Velocity range	±5 m/s
Accuracy	$\pm 1\%$ of measured value ± 0.5 cm/s
Velocity precision	Consult instrument software
Maximum sampling rate (output)	1 Hz, 4 Hz on request
Internal sampling rate	23 Hz

Echo intensity	
Sampling	Same as velocity
Resolution	0.45 dB
Dynamic range	90 dB
Transducer acoustic frequency	2 MHz
Number of beams	3
Beam width	3.4°

Sensors

Date: 12/24/2025 nortekgroup.com

Temperature:	Thermistor embedded in head
Temp. range	-4 to +40 °C
Temp. accuracy/resolution	0.1 °C/0.01 °C
Temp. time response	10 min
Compass:	Magnetometer
Accuracy/resolution	2°/0.1° for tilt < 20°
Tilt:	Liquid level
Accuracy/resolution	0.2°/0.1°
Maximum tilt	30°
Up or Down	Automatic detect
Pressure:	Piezoresistive
Range	300 m
Accuracy/precision	0.5% FS / 0.005% of full scale
Analog inputs	
No. of channels	2
Supply voltage to analog outputdevices	Three options selectable through firmwarecommands: 1) Battery voltage/500 mA, 2) $+5$ V/250 mA, 3) $+12$ V/100 mA
Voltage input	0-5 V
Resolution	16-bit A/D
Data recording	
Capacity	9 MB, can add 4/16 GB
Data record	40 bytes
Diagnostics record	40 bytes
Wave record	40 bytes
Mode	Stop when full (default) or wrap mode
Real-time clock	
Accuracy	±1 min/year
Backup in absence of power	4 weeks
Data communications	
1/0	RS-232 or RS-422
Communication baud rate	300-115,200 Bd
Recorder download baud rate	600/1200 kBd for both RS-232 and RS-422
User control	Handled via "Aquadopp" software, ActiveX $\$$ function calls, or direct commands withbinary or ASCII data output
Software	
Functions	Deployment planning, instrument configuration,data retrieval and conversion (for Windows®)
Power	
DC input	9-15 V DC
Maximum peak current	3 A
Avg. power consumption	0.01 W
Sleep current	< 100 μΑ

Date: 12/24/2025 nortekgroup.com

Power	
Transmit power	0.3-20 W, 3 adjustable levels
Batteries	
Battery capacity	1) 50 Wh (alkaline or Li-ion), 2) 165 Wh (lithium), 3) Single or dual
New battery voltage	13.5 V DC (alkaline)
Environmental	
Operating temperature	-5 to +40 °C
Storage temperature	-20 to +60 °C
Shock and vibration	IEC 721-3-2
EMC approval	IEC 61000
Depth rating	300 m
Connectors	
Bulkhead	MCBH-8-FS
Cable	PMCIL-8-MP on 10 m polyurethane cable
Materials	
Standard model	POM housing
Dimensions	
Maximum diameter	75 mm
Maximum length	\sim 500 mm (single battery) or +110 mm (double battery) depending on head configuration
Weight	
Weight in air	2.3 kg
Weight in water	Neutral

Date: 12/24/2025 nortekgroup.com