

Aquadopp Profiler 2 MHz

500 m, Generation 2

Small and compact, short-range current profiling; option for PUV wave measurements



The Aquadopp Profiler is a highly versatile Acoustic Doppler Current Profiler (ADCP) available in three profiling range options, from < 1 m to > 85 m. The 2 MHz version has a current profiling range of up to 10 m. Designed for simple yet powerful operation, this current profiler is packed with features used by engineers and researchers to enable accurate and effective hydrodynamic data collection in a variety of environmental conditions.

The upgraded Aquadopp Profiler design offers improved noise immunity as well as 6% broadband measurements and "hibernation mode" between measurements, enabling precise data collection with lower power consumption. Increased internal battery storage extends potential deployment time.

See the details of the Generation 2 Aquadopp updates in the release notes here.

Highlights

- ✓ Up to 10 m current profiling range
- Optional right-angle head for measurements close to boundaries or in shallow water
- Pressure-based (PUV) directional wave measurements
- LED blinks when pinging for peace of mind during deployment

Applications

- Near-bed current profiles with fine vertical resolution
- Mean flow measurements with a focus on ease of use and simplicity
- Measurements in areas with strong variations in flow speeds
- Projects with needs for both high-resolution and normal-range current measurements with optional HR
- Measurements of waves and currents from a single instrument
- ✓ Studies of tidal currents

Technical specifications

Water velocity measurements	
Nominal profiling range*	10 m
Cell size	0.1-2 m
Maximum number of cells	200

Water velocity measurements	
Minimum blanking	0.2 m
Velocity range (along beam)	User-selectable 1.0 to 5.0 m/s
Accuracy	$\pm 1\%$ of measured value ± 0.5 cm/s
Horizontal velocity precision (consult instrument SW)	Typ. 1 cm/s
Maximum sampling rate (output)	1 Hz
Wave measurements	PUV (optional)
*Dependent on measurement conditions	

*Dependent on	measurement	conditions
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Echo intensity	
Sampling	Same as velocity
Resolution	0.5 dB
Dynamic range	90 dB
Transducer acoustic frequency	2 MHz
Number of beams	3 (see GA drawings for angles)
Beam width	0.85° (1.7° total)

HR option	
Maximum profiling range	4.0 m
Cell size	0.01-0.13 m
Minimum blanking	0.1 m
Maximum number of cells	256
Velocity range	3 cm/s - 0.65 m/s
Range velocity limitations	Product of profiling range and velocity should not exceed 0.12 m2/s
Accuracy	$\pm 1\%$ of measured value ± 0.5 cm/s
Max. sampling rate	8 Hz

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	0.5% FS / 0.005% of full scale

Data recording

Capacity 16 GB

Real-time clock

Backup in absence of power Data communications I/O RS-422 (inquire for RS-232) Communication baud rate 9600 Baud - 1.2 Mbaud (default 115200 Baud) User control Nortex Deployment Software or direct ASCII commands, with binary or ASCII data output Software Operating system Cross platform 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 Nortex Deployment Software Sleep current 4.5 A Power donsumption Adjustable Batteries Internal battery capacity 1-3 x 50 Wh (Alkaline); 2-3 x 165 Wh (Lithium), 1-3 x 76 Wh (Li-lon) Battery weight 430g per 50 Wh (Alkaline); 380g per 165 Wh (Lithium); 300g per 76 Wh (Li-lon) Environmental Operating temperature -5 to +40 °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 S2VP: 589 mm: \$25P: 634 mm Weight in air (without batteries) \$2VP: 2500 g: \$25P: 2710 g Weight in in water (without batteries) \$2VP: 2500 g: \$25P: 2750 g	Accuracy	±1 min/year
Communication baud rate	Backup in absence of power	4 weeks
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 Cross platform 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 < 40 uA Transmit power Adjustable Batteries Internal battery capacity 1-3 x 50 Wh (Alkaline); 2-3 x 165 Wh (Lithium), 1-3 x 76 Wh (Li-lon) Battery weight 430g per 50 Wh (Alkaline); 380g per 165 Wh (Lithium); 300g per 76 Wh (Li-lon) Environmental Operating temperature -5 to +40 °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 S2VP: 589 mm; S2SP: 634 mm Weight Weight in air (without batteries) S2VP: 2500 g; S2SP: 2710 g	Data communications	
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Software Operating system Cross platform 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 < 40 uA Transmit power Adjustable Batteries Internal battery capacity 1-3 x 50 Wh (Alkaline); 2-3 x 165 Wh (Lithium); 1-3 x 76 Wh (Li-lon) Entyironmental Operating temperature -5 to +40 °C Storage temperature -5 to +60 °C Shock and vibration Shock: IEC 600068-2-27, 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 S2VP: 589 mm; S2SP: 634 mm Weight Weight in air (without batteries) S2VP: 2500 g; S2SP: 2710 g	Communication baud rate	
Operating system Cross platform 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 < 40 uA Transmit power Adjustable Batteries Internal battery capacity 1-3 x 50 Wh (Alkaline); 2-3 x 165 Wh (Lithium), 1-3 x 76 Wh (Li-lon) Battery weight 430g per 50 Wh (Alkaline); 380g per 165 Wh (Lithium); 300g per 76 Wh (Li-lon) Environmental Operating temperature -5 to +40 °C Storage temperature 2-20 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 S2VP: 2500 g; S2SP: 2710 g	User control	
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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 < 40 uA Transmit power Adjustable Batteries Internal battery capacity 1-3 x 50 Wh (Alkaline); 2-3 x 165 Wh (Lithium), 1-3 x 76 Wh (Li-lon) Battery weight 430g per 50 Wh (Alkaline); 380g per 165 Wh (Lithium); 300g per 76 Wh (Li-lon) 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 52VP: 2500 g; S2SP: 2710 g	Functions	
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Maximum peak current Power consumption Consult Nortek Deployment Software Sleep current Adjustable Batteries Internal battery capacity 1-3 x 50 Wh (Alkaline); 2-3 x 165 Wh (Lithium), 1-3 x 76 Wh (Li-lon) Battery weight 430g per 50 Wh (Alkaline); 380g per 165 Wh (Lithium); 300g per 76 Wh (Li-lon) 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 Connectors Bulkhead (Impulse) MCBH-8-FS Brass Cable MAterials Standard model POM, Naval Brass, Titanium Gr. 5, Epoxy Dimensions (see drawings for details) Maximum housing diameter 75 mm Maximum length S2VP: 589 mm; S2SP: 634 mm Weight Weight Weight in air (without batteries) S2VP: 2500 g; S2SP: 2710 g	DC input	9-24 VDC
Power consumption Sleep current < 4 0 uA Transmit power Adjustable Batteries Internal battery capacity Internal battery capacity Internal battery weight Adjustable Environmental Operating temperature -5 to +40 °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 Depth rating MCBH-8-FS Brass Cable Materials Standard model POM, Naval Brass, Titanium Gr. 5, Epoxy Dimensions (see drawings for details) Maximum housing diameter T5 wu under the substance of the substa	Absolute maximum DC input	26 VDC
Sleep current < 4 0 uA Transmit power Adjustable Batteries Internal battery capacity 1-3 x 50 Wh (Alkaline); 2-3 x 165 Wh (Lithium), 1-3 x 76 Wh (Li-lon) Battery weight 430g per 50 Wh (Alkaline); 380g per 165 Wh (Lithium); 300g per 76 Wh (Li-ion) 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 52VP: 589 mm; 525P: 634 mm Weight Weight Weight in air (without batteries) S2VP: 2500 g; S2SP: 2710 g	Maximum peak current	4.5 A
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Internal battery capacity 1-3 x 50 Wh (Alkaline); 2-3 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) 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 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 S2VP: 589 mm; S2SP: 634 mm Weight Weight Weight in air (without batteries) S2VP: 2500 g; S2SP: 2710 g	Sleep current	< 40 uA
Internal battery capacity 1-3 x 50 Wh (Alkaline); 2-3 x 165 Wh (Lithium), 1-3 x 76 Wh (Li-lon) Battery weight 430g per 50 Wh (Alkaline); 380g per 165 Wh (Lithium); 300g per 76 Wh (Li-lon) 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 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 S2VP: 589 mm; S2SP: 634 mm Weight Weight Weight in air (without batteries) S2VP: 2500 g; S2SP: 2710 g	Transmit power	Adjustable
Battery weight 430g per 50 Wh (Alkaline); 380g per 165 Wh (Lithium); 300g per 76 Wh (Li-ion) 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 S2VP: 589 mm; S2SP: 634 mm Weight Weight Weight in air (without batteries) S2VP: 2500 g; S2SP: 2710 g	Batteries	
Wh (Li-ion) 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 S2VP: 589 mm; S2SP: 634 mm Weight Weight Weight in air (without batteries) S2VP: 2500 g; S2SP: 2710 g	Internal battery capacity	1-3 x 50 Wh (Alkaline); 2-3 x 165 Wh (Lithium), 1-3 x 76 Wh (Li-lon)
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 S2VP: 589 mm; S2SP: 634 mm Weight Weight Weight in air (without batteries) S2VP: 2500 g; S2SP: 2710 g	Battery weight	
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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 S2VP: 589 mm; S2SP: 634 mm Weight Weight Weight in air (without batteries) S2VP: 2500 g; S2SP: 2710 g	Storage temperature	-20 to +60 °C
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 S2VP: 589 mm; S2SP: 634 mm Weight Weight Weight in air (without batteries) S2VP: 2500 g; S2SP: 2710 g	Shock and vibration	Shock: IEC 60068-2-27, Vibration: IEC 60068-2-64
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 S2VP: 589 mm; S2SP: 634 mm Weight Weight in air (without batteries) S2VP: 2500 g; S2SP: 2710 g	EMC	EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019
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 S2VP: 589 mm; S2SP: 634 mm Weight Weight in air (without batteries) S2VP: 2500 g; S2SP: 2710 g	Depth rating	500 m
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 S2VP: 589 mm; S2SP: 634 mm Weight Weight in air (without batteries) S2VP: 2500 g; S2SP: 2710 g	Connectors	
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Standard model POM, Naval Brass, Titanium Gr. 5, Epoxy Dimensions (see drawings for details) Maximum housing diameter 75 mm Maximum length S2VP: 589 mm; S2SP: 634 mm Weight Weight in air (without batteries) S2VP: 2500 g; S2SP: 2710 g	Cable	PMCIL-8-MP on 5 m (default) polyurethane cable
Dimensions (see drawings for details) Maximum housing diameter 75 mm Maximum length S2VP: 589 mm; S2SP: 634 mm Weight Weight in air (without batteries) S2VP: 2500 g; S2SP: 2710 g	Materials	
Maximum housing diameter 75 mm Maximum length S2VP: 589 mm; S2SP: 634 mm Weight Weight in air (without batteries) S2VP: 2500 g; S2SP: 2710 g	Standard model	POM, Naval Brass, Titanium Gr. 5, Epoxy
Maximum length S2VP: 589 mm; S2SP: 634 mm Weight Weight in air (without batteries) S2VP: 2500 g; S2SP: 2710 g	Dimensions (see drawings for	details)
Weight Weight in air (without batteries) S2VP: 2500 g; S2SP: 2710 g	Maximum housing diameter	75 mm
Weight in air (without batteries) S2VP: 2500 g; S2SP: 2710 g	Maximum length	S2VP: 589 mm; S2SP: 634 mm
	Weight	
Weight in water (without batteries) S2VP: -120 g; S2SP: -50 g	Weight in air (without batteries)	S2VP: 2500 g; S2SP: 2710 g
	Weight in water (without batteries)	S2VP: -120 g; S2SP: -50 g

Weight	
Weight in air, short housing (without batteries)	S2VP: 1900 g, S2SP: 2100 g
Weight in water, short housing (without batteries)	S2VP: 330 g, S2SP: 400 g
Head configurations	
S2VP	Shallow water, 2MHz, Vertical orientation, Profiler
S2SP	Shallow water, 2MHz, Side-looking orientation, Profiler
Online cable information	
Cable length	A) 0-10m, B) 10-50m, C) 50-500m
Power wire gauge	A) 20AWG, B) 20AWG, C) 18AWG
Hardware	A) Standard, B) Standard, C) Long cable kit
Input voltage	A) 9-24VDC, B) 24VDC +/-0,5, C) 48VDC +2/-5
Absolut maximum DC input	A) 26 VDC, B) 26 VDC, C) 51 VDC
Communication	A) RS232/RS422/115200, B) RS232/RS422/115200, C)

RS422/115200