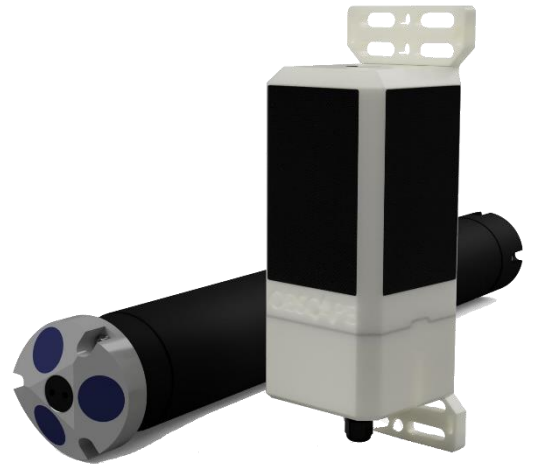




Aquadopp Profiler 400kHz

The Aquadopp Profiler is a highly versatile Acoustic Doppler Current Profiler (ADCP) available in four profiling range options, from < 1 m to > 85 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. Suitable for mounting to surface buoys.



Water velocity measurements

- Maximum profiling range 60-90 m
- Cell size 1-8 m
- Minimum blanking 1 m
- Velocity range ± 10 m/s
- Accuracy $\pm 1\%$ of measured value ± 0.5 cm/s
- Maximum sampling rate (output) 1 Hz
- Internal sampling rate 3 Hz

Echo intensity (along slanted beams)

- Sampling Same as velocity
- Resolution 0.45 dB
- Dynamic range 90 dB
- Transducer acoustic frequency 400 kHz
- Number of beams 3
- Beam width 3.7

Sensors

Temperature: Thermistor embedded in head

- Temp. range -4 to +40 °C
- Temp. accuracy/resolution 0.1 °C/0.01 °C
- *Tilt:* Liquid level
- Accuracy/resolution 0.2°/0.1°

Compass: Magnetometer

- Accuracy/resolution 2°/0.1° for tilt < 20°

Pressure: Piezoresistive

- Range 0-100 m
- Accuracy 0.5% FS / 0.005% of full scale

PMCIL-8-MP Cable

The Nortek PMCIL-8-MP 10m polyurethane cable is specifically designed to withstand the harsh ocean environment, suited for applications requiring robust communication or large bandwidth. The cable is tough, resilient, and easy to handle.

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)

Dimensions: Aquadopp Profiler 400kHz

