

Nortek Aquadopp™

Open water Current Meter (3D)



The Aquadopp

The Aquadopp is designed both for real time data collection and self-contained deployments. The instrument uses Doppler technology to achieve accurate and non-intrusive measurements and it comes standard with compass, tilt, pressure, and temperature sensors.

Leading oceanographers and engineers all over the world use the Aquadopp. Typical applications are:

- ✓ Self-contained deployments on mooring lines, bottom frames or fixed structures
- ✓ Permanent monitoring stations in coastal areas or rivers.
- ✓ Real time data collection on buoys, ROVs, offshore platforms, etc.

The Aquadopp is usually configured and controlled from a PC but it can be operated from any third-party controller using the RS-232 or RS-422 interface.

Wave directional spectra

The Aquadopp can be configured to collect wave directional data at the same time as it measures the mean current. At this time Nortek does not provide software for wave directional analyses but the procedure is documented in the Technical note: "Aquadopp and Vector wave measurement near Scripps Pier".

Features

The Aquadopp has several significant advantages when compared to other open water current meters:

- ✓ All plastic and titanium parts stop corrosion
- ✓ Small and light weight (less than 3kg!)
- ✓ No moving parts that can be blocked or sensitive parts that are easily damaged
- ✓ Biological fouling does not affect accuracy
- ✓ Low power consumption for long deployments
- ✓ A variety of sensor heads and the ability to move the sampling volume away from the mounting structure assure undisturbed measurements in all situations

Software

The Aquadopp comes standard with Windows software both for real time data collection and for controlling autonomous deployments. Different views and menus guide you through the process from configuration to data conversion. The software has an on-line help section and requires no special skills. New firmware versions from Nortek can be loaded into the Aquadopp using the standard software, removing the need for opening the canister and replacing components.

In the final analyses, the Aquadopp offers great value through the combined use of advanced Doppler technology and a flexible system design. The warranty is two years on material defects and workmanship.

Diagnostic mode

The diagnostic mode is unique for the Aquadopp. It allows the user to intersperse the average data with periods of rapid sampling (1Hz). Diagnostic data are typically used to analyze the mooring motion or to gather information about surface waves or internal waves.

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