

The Nortek AOS offers online access to Nortek Instruments from virtually any location worldwide. Battery power and satellite communication ensures do-it-yourself and cost effective, real time data transfer - from anywhere on the planet.

AOS
Autonomous Online System

Worldwide data access



Current and Wave data from the instrument is transmitted via serial interface and cable to shore. The AOS Iridium satellite modem communicates data to the AOS-server, and the AOS-server stores and provides data for presentation on the client website. The data volume and cost is kept to a minimum by focusing on vital data subsets. Full current and wave datasets are stored in the instrument memory.

Web-presentation



Data is stored on a server hosted by Nortek and presented on your computer as a WEB page. The server updates frequently, enabling continuous and worldwide access to real time data.

Simple installation

- 1 Deploy the instrument
- 2 Connect the AOS interface unit
- 3 Push the "ON" Button
- 4 Access data on the WEB

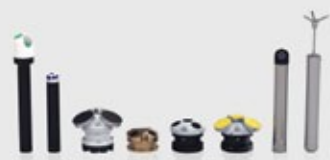


No software installation or programming is required. As soon as the AOS is switched on there will be immediate access to data.

CURRENT AND WAVE MEASUREMENTS IN THE OCEAN, LAKE AND LABORATORY



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Technical Specifications

Size:	270 x 246 x 124 mm
Weight:	4.8 kg (incl. bat.), 2.1 kg (excl. bat)
Std. temperature range	-20 – 40 degC
Transmit Interval:	> 5min. User Configurable
Transmit mode (average) current consumption :	~50 mA
Sleep mode current consumption:	1.3 mA
Battery capacity :	300Wh
Number of current cells transmitted:	User Configurable

Instruments supported:	Aquadop Profiler, AWAC w/Prolog, DO sensors. Inductive modem communication available on demand.
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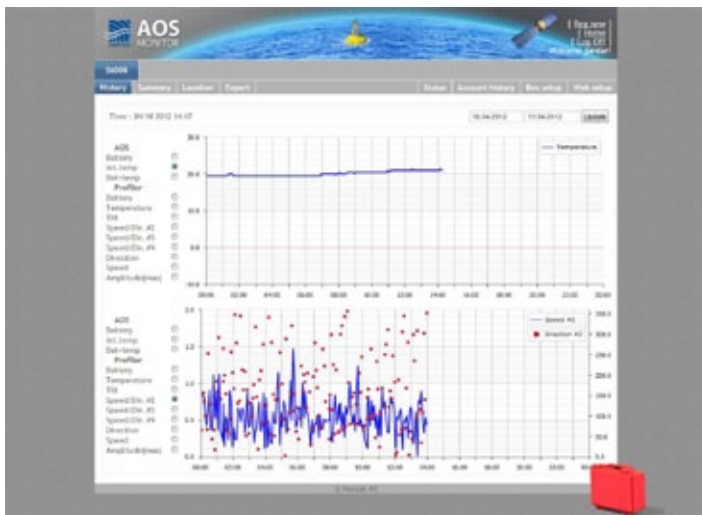
AOS Power Consumption varies with instrument setup, data volume and transmit interval. Estimated power requirement per sequence:

Current data transmission:	1,51 mWh
Wave data transmission :	2,45 mWh
GPS reading / transmission :	2,81 mWh
Sleep mode 10min :	2,59 mWh
Example : Current data transmission every 10min. : 1,51mWh + 2,59mWh = 4,10mWh. (Equals 16 months of continuous operation)	

Using the AOS

Getting started

Each AOS unit comes with a unique ID number. Upon logging on to the AOS webportal and registering the unit ID number you will get immediate access to data from the server.



Data Access

The webpage provides easy and intuitive user interface. Key parameters are presented graphically and historical data are available for download to Excel. Built in GPS and map functionality helps track the unit. The flexible user interface allows you to tailor a presentation according to your specific requirements and preferences.

Number of cells and transmit interval may be reconfigured from the client webpage. The webpage also includes a "cost calculator" showing estimated data cost for the current configuration.

Data Transfer Cost

The cost elements involved in being online with the AOS are:

1. A fixed cost related to basic hosting services and Iridium subscription.
2. A variable cost based on actual data transfer volume.

AOS clients are granted data access by subscribing to Nortek Online services. Account status will be continuously updated and available from your webpage. An email service makes sure you get notification whenever your subscription status requires attention.

Robust and compact design



The Nortek AOS hardware has been designed to operate in harsh environments. It's weather proof and ruggedized enclosure has been tested in cold as well as humid environments.

The illustration shows an AOS transmitting current data from an Aquadop Profiler mounted beneath drifting ice in the Arctic offshore Canada.

Photo courtesy of Grég McCullough, Centre for Earth Observation Science, University of Manitoba.



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