Alize buoy

Real-time transmission of currents, waves, and other parameters, with expert data assistance



The Alize buoy is a robust offshore buoy equipped with a customizable sensor suite to deliver high-quality, real-time metocean data. The Alize uses Nortek's Signature ADCP technology to provide high-accuracy current measurements, and offers flexibility in additional parameters including waves, wind and other metocean parameters as needed. Backed by Nortek's team of experts who offer daily data quality control and on-demand support, the Alize is the ideal choice for a wide range of applications and project phases. The Alize is available as a product or as a service for data provision.

Highlights

- 24/7 real-time data transmission
- High reliability and accuracy
- Robust, purpose-built design
- Customizable sensor packages
- Available as a product or service for data provision

Applications

- Wind farm feasibility studies
- Safety of maritime operations during construction
- Assistance for maritime traffic between offshore infrastructure
- Optimization of dredging operations
- Early warning system

Technical specifications

Dimensions*	
Length	5.9 m
Diameter	1.8 m
Weight (fully equipped)	900 kg

*Buoy dimensions are subject to change with various customization options. See drawings for details.

Data transmission	
Real-time transmission options	Cellular network, Iridium

Current profiles**	
Signature 1000 range	30 m
Signature 500 range	70 m
Signature 250 range	200 m
Signature 100 range	300 - 400 m
Signature 55 range	1000 m

Current profiles**

**Current profiling capabilities may not be exactly the same when used on a buoy. Conditions will affect range and other parameters. Get in touch with Nortek to determine which instrument is appropriate for your application.

Additional parameters and sensors***

Directional waves	Internal motion sensor
Meteorological parameters	Gill weather station
Temperature / salinity	CTD
Other parameters	On demand
Top marks	St. Andrew's cross, flash, radar reflector
Power	4 solar panels (85W or more) + battery
Data storage	Internal data logger and server database through real-time transmission

***All buoys are customized for the application. Please get in touch with Nortek for more information on the parameters collected by the Alize buoy and specifications for each.