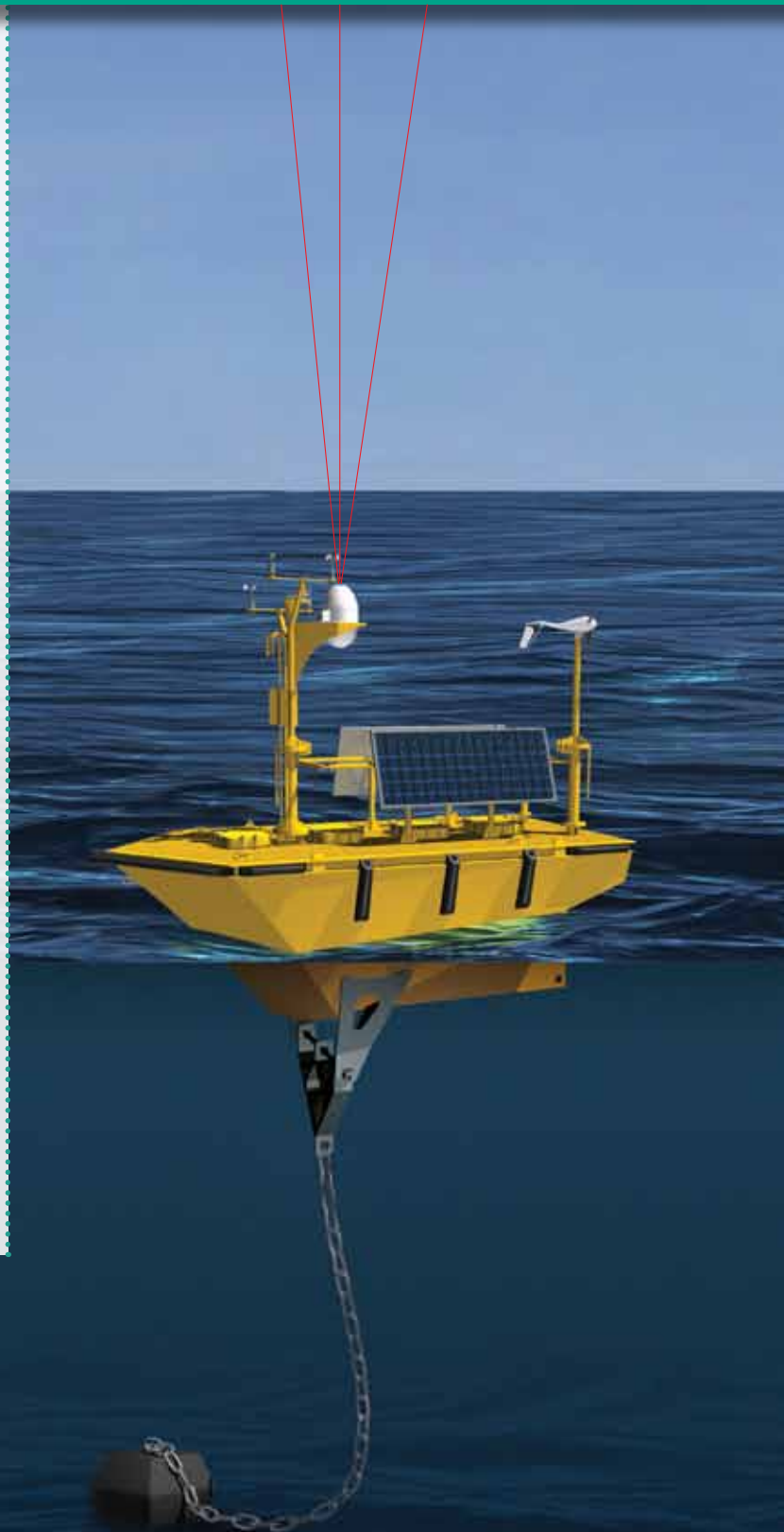


WindSentinel™

Offshore Wind Resource Assessment Buoy

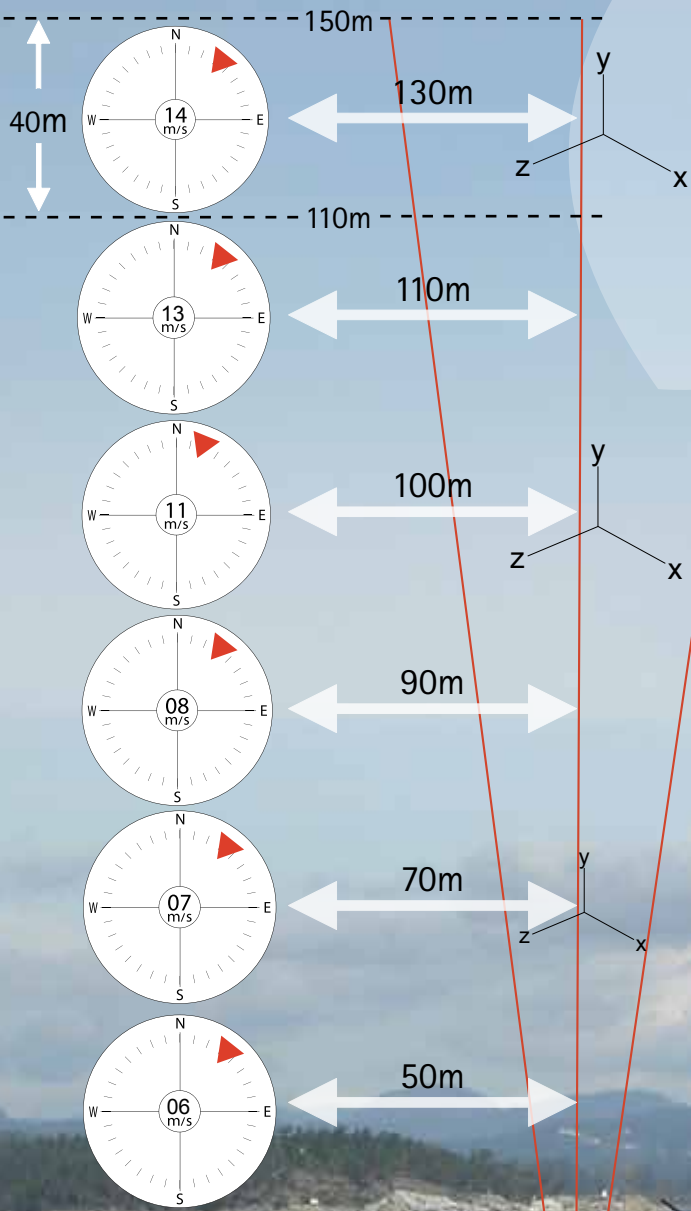
FEATURES & BENEFITS:

- Perform turbine-height, offshore wind resource assessments from a buoy
- Lower the cost of offshore wind resource assessments
- Reduce time to market
- Portable and reusable
- Eliminate permit, environmental assessment and licensing requirements of Met Tower construction
- Can also be used to augment a Met Tower campaign to lower data uncertainties

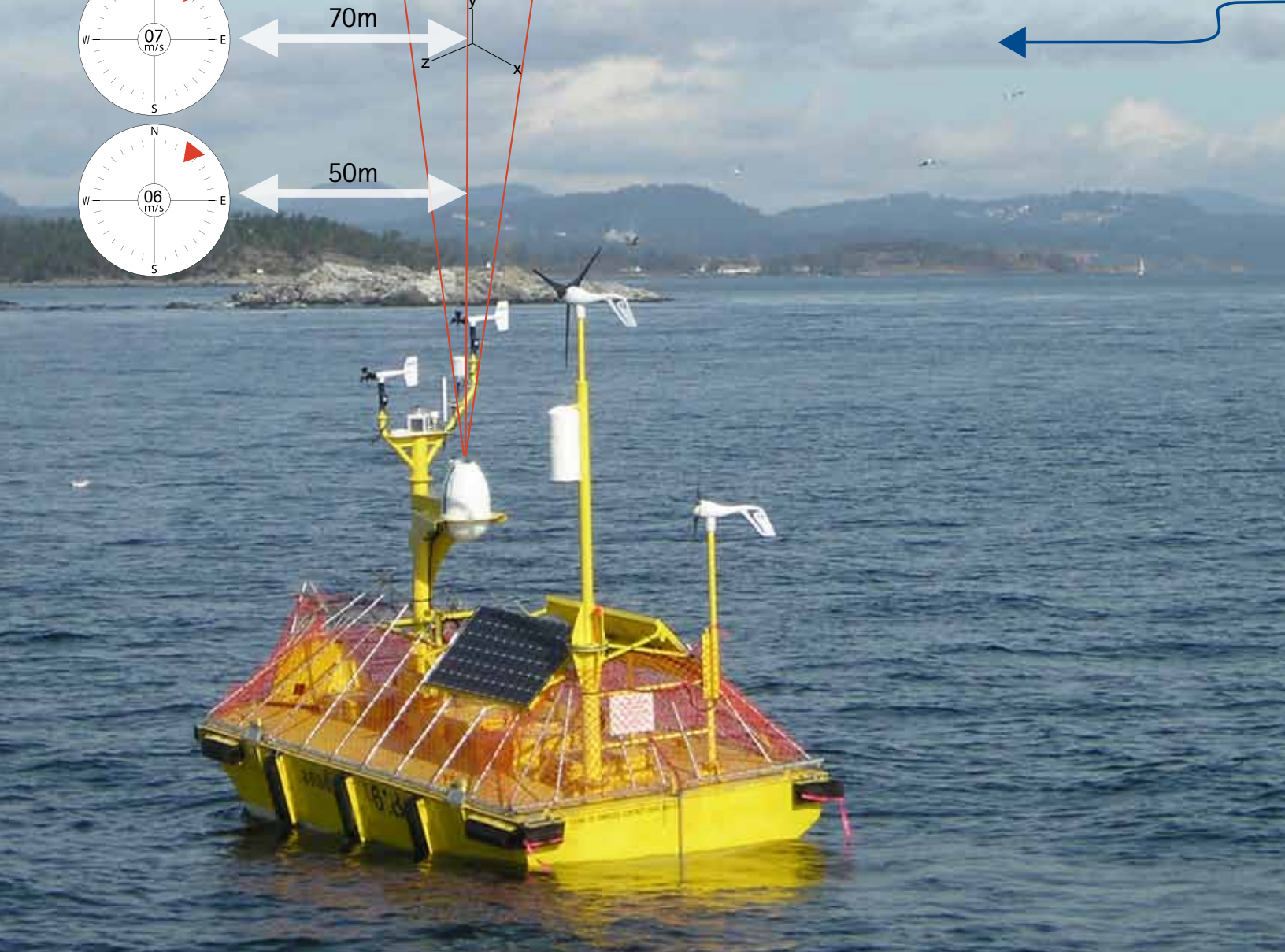


WindSentinel™ is the first Offshore Wind Resource Assessment Buoy capable of accurately gathering wind data at turbine hub-height and across the blade span

HOW IT WORKS



±20 meter range gate probe depth allows for real-world measurements from 30m to 150m.



How will YOU
compete for
YOUR share
of the Wind

The WindSentinel™ delivers
real competitive advantage.

WHAT THE WINDSENTINEL™ CAN DO FOR YOU

The WindSentinel™ is the world's first wind resource assessment buoy capable of measuring wind data at heights of conventional offshore wind turbines.

At the heart of the WindSentinel™ is the WatchMan500™ controller paired with the Vindicator® Laser Wind Sensor, a next generation solid state laser designed to accurately measure wind from moving platforms. Using three fixed beams this laser wind sensor can take single focused or multi-point measurements up to a maximum range of 150 meters.* The resulting wind data is acquired, processed and transmitted via a selection of telemetry options through the AXYS WatchMan500™. These components have been engineered into the AXYS NOMAD buoy: a well-proven proprietary platform designed to perform in extreme marine environments.

The WindSentinel™ is the faster and more accurate way to gather offshore wind data across multiple locations, for less money. Deploy a WindSentinel™ to perform wind resource assessments without the high costs and bureaucratic hurdles associated with fixed marine met tower construction. Or, augment a traditional met-mast measurement campaign with a WindSentinel™ to lower the uncertainties applied to your wind resource assessment data.

*Special orders available for units to measure up to 250m.

Deploy a WindSentinel™ to:

- Lower the uncertainties applied to your data
- Lower the operating and capital costs associated with wind resource assessment
- Gather data at multiple sites via redeployment
- Reduce permitting, licensing and red tape
- Increase the speed with which your project gets funding
- Lower your time to market



WindSentinel™

An Offshore Wind Resource Assessment Buoy
You Can Bank On



SPECIFICATIONS

NOMAD BUOY SPECIFICATIONS

HULL CONSTRUCTION	Welded Aluminum. Four water tight compartments for electronics, power and sensors. Aluminum superstructure and stainless steel substructure.
FINISH	Marine grade epoxy (yellow paint, or as specified by client)
WEIGHT	6500 kg (not including ballast or mooring)
DIMENSIONS	6m (L) x 3.1m (W) x 9m (H) with masts installed
MOORING	Inverse catenary, chain, semi-taught, or false bottom. 5 ton anchor.
NAVIGATION LIGHT	IALA standard lamp and automatic multiple bulb changer
POWER	Primary batteries, solar & turbine supplemented with onboard generator.
POSITION	GPS package indicates whether buoy is on-station

AVAILABLE TELEMETRY

Globalstar	Cellular (CDMA, GPRS, 3G, etc.)
Iridium	Inmarsat
VHF/UHF	GOES
ARGOS	

LASER ANEMOMETER SPECIFICATIONS

GENERAL SPECIFICATIONS

OPERATING TEMPERATURE	-40°C to 55°C
OPERATION	Unattended, 24/7
REMOTE SUPPORT	Remote Access for Maintenance and Configuration

FUNCTIONAL SPECIFICATIONS

WIND SPEED RANGE	0-90 m/s
SENSING RANGE	30 to 150 meters vertically, or up to 250m with special order
NUMBER OF RANGE GATES	6
DATA AVAILABILITY	1 Hz motion corrected wind speed & direction
RANGE GATE DEPTH	± 20 meters
WIND SPEED ACCURACY	0.1 m/s @ 1 Hz data rate
VECTOR ORIENTATION	0-360°
RELATIVE ANGULAR ACCURACY	±0.5° @ 8 m/s speed, 1 Hz
EYE-SAFETY	Class 1 Eye-Safe



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