

ZX300M

Accurate and robust offshore wind measurements from vertical profiling Lidar

Integrated on all major commercial Floating Lidar Devices (FLDs) and designed for any offshore platform. Unmatched track-record in the harshest of offshore floating environments. All with the longest service and warranty period, as standard, of any Lidar. Full IEC Classification, the single largest body of evidence of met mast / Lidar validations at the UK Remote Sensing Test Site and gold-standard 'highest height' validations at 213m and 244m.

ZX 300M at a glance:

- 10 to 300 metre wind measurements from deck.
- Specifically designed for the offshore environment with enhanced marinisation.
- Extensive 3 year service period ensuring the lowest cost of ownership of any offshore Lidar available.
- Installed and proven for use on all market-ready floating Lidar platforms.
- Validated across multiple pre-commercial floating deployments and as mast replacements on fixed platforms.
- Collaborative agreements with leading Floating Lidar Device manufacturers for effective Turbulence measurements.



Responsible for more than 90% of all new offshore wind measurements globally

Use the industry standard offshore Lidar for the most certain outcome.

Significantly reduce the cost of your measurement campaign offshore.

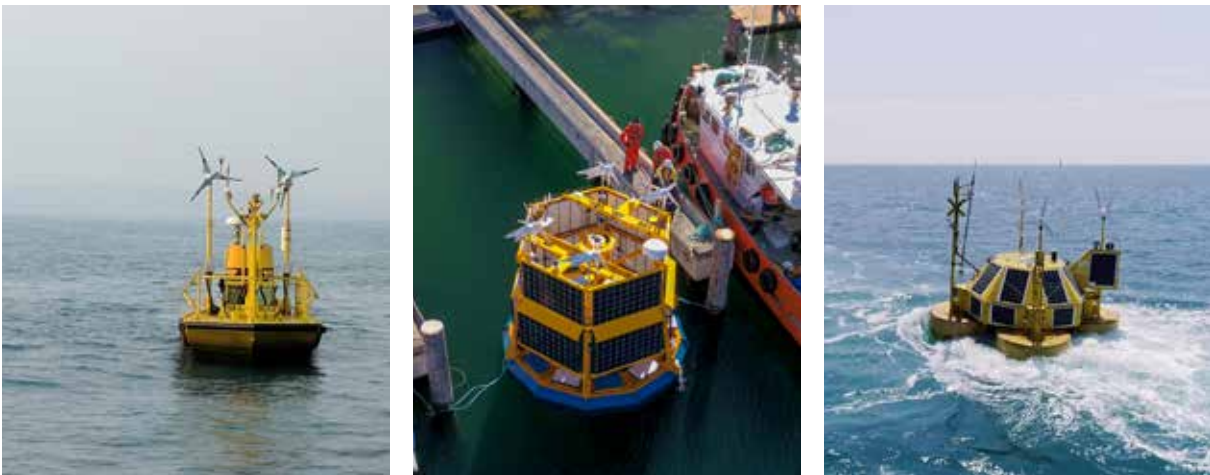
Reduce your measurement uncertainty by measuring higher than a met mast.

Reduce your measurement uncertainty further by mobilising measurements across a whole site by utilising Floating Lidar Devices.

Better manage health & safety requirements on site with no need to work at height.

ZX 300M was newly updated in 2021 and features include:

- Our Continuous Wave laser measures the Line of Sight wind speed every 20 milliseconds to ‘freeze’ any motion encountered.
- Multi-layered, highly insulated, plastic moulded Lidar housing, with additives to provide high UV stability and improved marine growth resistance.
- Highest grade of marine connectors available for all peripheral items, 2000+hrs salt spray tested.
- Custom stainless steel frame to allow for ease of handling and efficient securing to any platform surface.
- Marine met station with improved yaw determination, for floating offshore platforms.
- Stainless steel window wiper system with silicone wiper blade.
- All External components tested to IEC60068-2-11.



300M Specification

Measurements

Range	10 - 300 metres (Lidar measurement) 0 - 10 metres (onboard met weather station)
Probe length	± 0.07 metres @ 10 metres ± 7.70 metres @ 100 metres
Heights measured	10 User configurable 1 Additional met weather station measurement
Sampling rate	50Hz (up to 50 measurement points every second)
Averaging rate	True 1-second averaging 10-minute averaging
Accuracy wind speed	0.1 m/s*
Direction variation	< 0.5°
Range	< 1 m/s to 80 m/s

Product

Service interval	36 months from new
Size	805 x 845 x 966mm
Weight	53.4kg
IP Rating	IP 68
Power consumption	55W
Power input	12V
Temperature range	-40 + 50°C
Warranty	3 years
Maintenance	No annual maintenance or calibration in this period
Laser	Class 1, Eye Safety (IEC 60825-1)

* as measured against calibrated moving target

The reliable way to measure wind.

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