MOVELASER

Offshore Wind Lidar Molas B300M

Molas B300M is a wind lidar specially designed for offshore wind energy measurement. It inherits the main advantages of the ground-based wind lidar Molas B300. It can meet the harsh use environment at sea, and is equipped with high-precision inertial measurement unit and attitude compensation algorithm, so that it can be placed on non-fixed carriers such as buoys and ships for high-precision real-time wind speed measurement.

Port seaside

Offshore Platforms & Buoys

Product Advantages

- **Low cost:** Whether it is used with monopile platforms or buoys, the price is much lower than the construction cost of offshore wind towers
- **Large range:** 40~300m, 12 custom height levels
- **High precision:** full life cycle, accuracy up to 0.1m/s and 1°
- **Time-saving and efficient:** the project construction period is short, saving valuable time and cost
- **Flexible configuration:** flexible wireless connection, enabling remote configuration delivery and data transmission
- **Data security:** data encryption has no risk of leakage
- **Non-contact measurement:** convenient and fast, leading the industry

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Performance Parameters

Basic Parameters

Measuring Distance	30-300m
Measurement Layer	12
Sampling Rate	1Hz
Wind Speed Accuracy	0.1m/s
Wind Direction Accuracy	1°
Wind Speed Range	0~75m/s
Wind Direction Range	0~360°
Measurement Principle	Pulsed Laser Coherent Doppler

Data Parameter

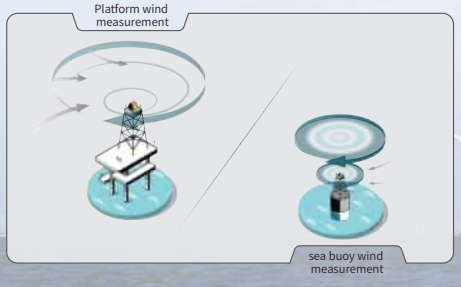
Data Output	Horizontal wind speed, vertical wind speed, Wind direction Timestamp, GPS, temperature, Humidity and pressure, statistics
Data Format	ASCII
Communication	RJ45 Cable, Cellular (2G/3G/4G) Wi-Fi, Beidou short message(optional) , Satellite communication (optional)

General Parameters

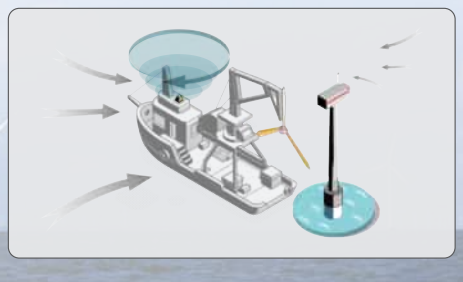
Powered By	24V DC，100~240V DC
Power	60W
Size	500*500*602mm³(without handle) 603*500*602mm³(with handle)
Weight	⩽50kg
Temperature Range	-40°C~50°C (With over temperature protection)
Humidity Range	0% to 100%
Protection Class	IP67(whole machine)
Corrosion Class	C5M，IEC60068-2-52-2017
Eye Safety	Class 1M(EN60825-1)

Application Scenarios

■ Early wind resource detection



■ Offshore construction and operation and maintenance wind power monitoring



■ Prediction of wind power in offshore wind farms