

MeteoLaser LiDAR

Pulsed Doppler LiDAR Version 2: compact dimensions, IP67 Super low power consumption: < 35 W without heating or cooling



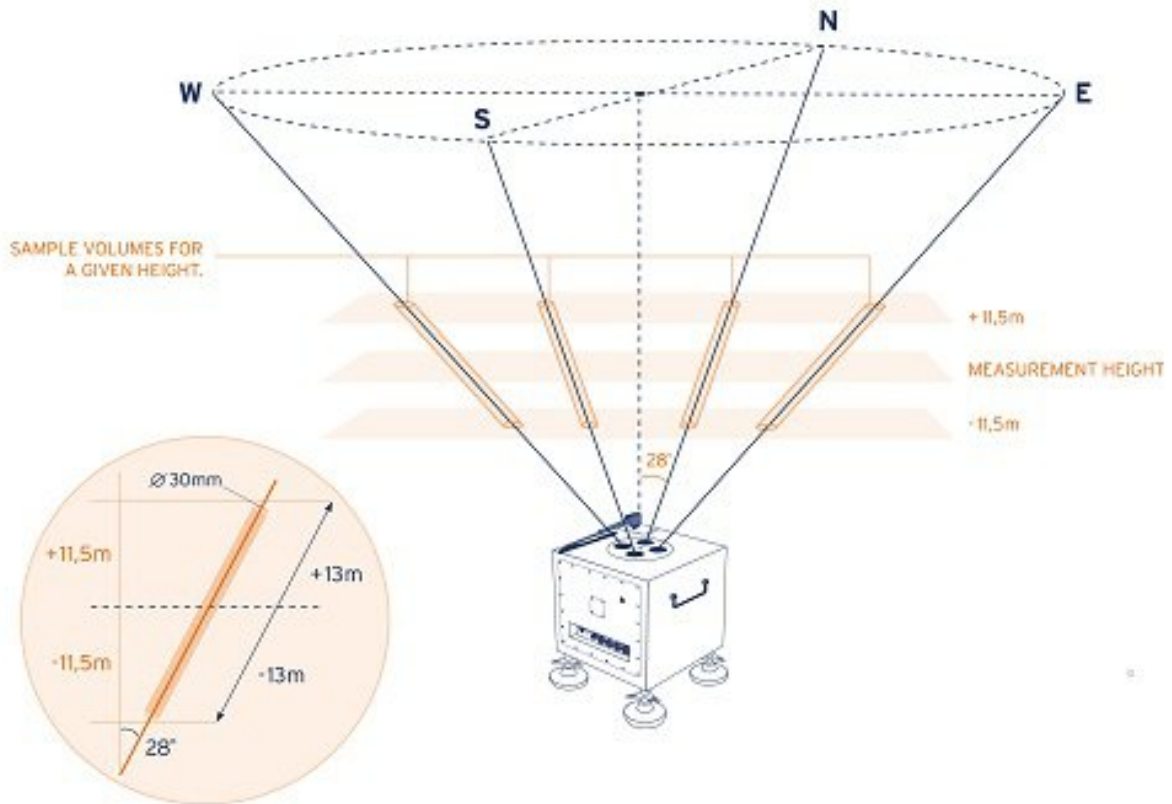
Description

Mobile measurement for a wide range of applications

The MeteoLaser LiDAR accurately measures horizontal and vertical wind speeds and directions up to 300 meters. It measures pressure, temperature and humidity through the PTH sensor module.

The MeteoLaser LiDAR can be used

- in wind resource assessment,
- in micro-siting of wind farms,
- power performance of wind turbine,
- wind park monitoring,
- offshore wind measurement systems and other places where mobile wind measurements are required.



Specifications

Size	Length x width x height
without packaging	390 x 390 x 340 mm
with packaging	600 x 600 x 600 mm
Weight	
without packaging	32 kg
with packaging	60 kg

Type of LiDAR	Pulsed Doppler LiDAR
Number of laser beams	4 laser beams (N, E, S, W)
Angle of laser beam	28° to vertical
Measurement range	40 to 300 m
Measurement heights	12 heights

Measurement cycle duration	~0,8 s per beam, ~3,2 s for 4 beams
Accuracy horizontal wind speed	0.1 m/s *
Wind speed range	0 to 80 m/s
Accuracy wind direction	1° *
Power supply requirements	18 to 32 V DC / 93 to 263 V AC (50-60 Hz)
Power consumption	LiDAR alone: 30 W With cooling: 35 W With heating: 50-70 W
Operating temperature range	-40° C to 60° C
Humidity range	-0 % to 100 % RH (non-sourced)
Protection level	IP 67
Eye safety standard	Class 1M IEC/EN 60825-1
Hardware interface	4G-Router, Ethernet, Laptop connection, USB for GPS-tracking
Data format (compressed)	10 minutes files CSV files 1 second data CSV files
Size of memory	100 GB available for CSV files
User interface for remote access	Web application over AmmonitConnect (SSH reverse Tunnel)
Data transfer protocols	Emails, FTP and SCP, SFTP from AmmonitOR
Data cloud	AmmonitOR Data Cloud
Factory report against golden LiDAR	Included for free
IEC 61400-12-1 verification	Available for purchase
IEC 61400-12-1 classification MeteoLaser Version 1	Available

*depending on environmental conditions, see classification report

Dimensional drawing

