Ammonit
MeteoLaser

MeteoLaser LiDAR S97210

Ammonit's Pulsed Doppler LiDAR
Compact dimensions, IP67

Ammonit IT communication tools
AmmonitConnect remote access for configuration
AmmonitOR Data Cloud for campaign monitoring

IEC classification
Good results as expected from a pulsed LiDAR

IEC verification
Good results as expected from a pulsed LiDAR

Performs bankable measurement
For wind resource assessment

Super low power consumption
< 35 W without heating or cooling

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

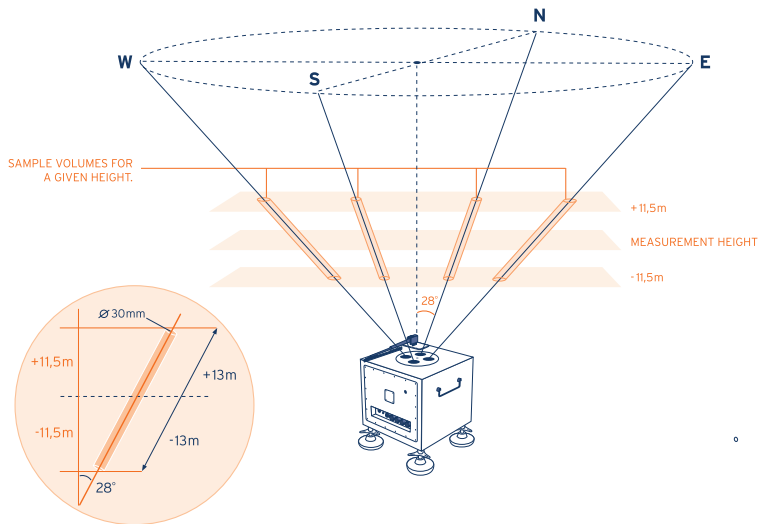
Last Modification: 08 May 2024


Measurement for wide range of applications

The MeteoLaser pulsed doppler 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.



MeteoLaser Specs

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

*depending on environmental conditions, see classification report

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	SCADA TCP from LiDAR Emails, FTP, SCP, SFTP and API from AmmonitOR
Data cloud	AmmonitOR Data Cloud
Factory report against golden LiDAR (not IEC conform)	Included for free
IEC 61400-50-2:2022 IEC 61400-12-1 verification	Available for purchase with 140 to 200 m height
IEC 61400-50-2:2022 IEC 61400-12-1 classification	Available on our webpage

Contact us:
T +49/30 600 31 88-0
E sales@ammonit.com

Ammonit Measurement GmbH
Wrangelstrasse 100 | D-10997 Berlin
www.ammonit.com

Ammonit