

SODAR AQ510 & TRAILER PRODUCT DATASHEET



The Sodar AQ510 & Trailer is an integrated solution, providing high quality Sodar wind measurements with an autonomous power supply.

AQ510 Sodar from AQ Systems

High quality remote sensing solution. Met mast calibrated, IEC classified, independently verified, low power consumption, TI data, GPS & Tilt sensor and AQOnline web data interface.

Standalone Power Supply

The Sodar Trailer functions as a standalone power supply unit, eliminating the need for external power sources and enabling seamless deployment in off-grid locations.

Remote Monitoring

Remote monitoring capabilities allow real-time tracking of power system health, with alerts sent via email or other communication channels to ensure proactive maintenance and troubleshooting.

Additional Features

- Jack up legs on all four corners for stability and easy leveling.
- Folding solar array designed for rapid deployment.
- Quick and easy setup with minimal calibration required.
- Durable and weather-resistant construction to withstand harsh environmental conditions.

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Feature	Description
Sodar and Power Trailer Specifications (typical)	
Sodar measurement range	40 – 200m (optional 300m)
Sodar height resolution	5m (33 measurement heights)
Sodar wind speed accuracy	+/- 2% horizontal
Sodar operating temp range	-40 to 60°C
Sodar operating hum range	0 to 100% RH
Sodar data availability	>98%@100m, >92%@150m, >85%@200m
System voltage	12V DC
Battery capacity	615 Ah Gel batteries
Battery autonomy	4 days
Battery design life	16 years at 25°C
Installed power array	2 x 580W mono-facial solar modules
PV array angle	Adjustable 15-40 degrees
Solar regulator	Victron MPPT 150/70 with cloud monitoring
Remote monitoring	4G – Satellite optional (BGAN or Starlink)
Weight	Tare circa 950kg (ATM 1500kg)
Trailer dimensions	8x5 heavy duty box trailer
Trailer breaks	Mechanical
Other features included	Spare tyre, fire extinguisher, star picket driver, earth stake

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