

# AQ500 – it works!

- High data availability ✓
- Easy deployment ✓
- No need for building permits ✓

**AQ500 is a remote sensing instrument** based on the SODAR-technique. **AQ500** is based on more than 40 years of research experience and more than 300 instruments have been sold worldwide.

One of the key features of the **AQ500** is the high data availability which assures that the wind data is not biased by conditioning.

The deployment is extremely easy, just connect the **AQ500** to the hitch on your car and drive to the site. There is no need for building permits which makes the start-up phase very short compared to a met-mast.

The **AQ500** is a complete measurement system with data logger, energy supply and equipment protection as default features. The energy supply system can be customized according to the clients' requests. AQSystem provides thoroughly tested energy solutions with power generator and solar panels.

The energy supply system and antenna unit are built in a metal box upon a trailer providing protection against theft and vandalism.

The **AQ500** can handle all ambient conditions, such as fog, rain, low temperatures and snow. Developed in Sweden where winter is harsh, the **AQ500** is especially suitable for cold climates with excessive amounts of snow. The **AQ500** can be equipped with a diesel heater that pre-heats the diesel engine to avoid cold starts and the excess heat is used to melt snow or ice in the antenna compartment.

The **AQ500** antenna unit is designed with three protected speaker elements which sends and receives sound impulses which are reflected by parabolic dishes. Thanks to this unique design neither rain, snow or other objects are an issue for the **AQ500** antenna. There are no moving parts in the antenna unit limiting the need for maintenance. Reducing maintenance and unplanned interruptions are important for the project time plan.

Rafael Zubiaur, CEO of Barlovento Recursos Naturales S.L explains further:

*"We use the AQ500 in a number of projects and are impressed with the high data availability and robustness of the unit. With an average data availability of 97% at 100 meter, it is the remote sensing product with the highest data availability we have ever employed."*



- Complete**
  - Power supply ✓
  - Easy to transport ✓
  - Protection ✓
- Robust**
  - Works in fog ✓
  - Works in rain ✓
  - Works in low temperatures ✓
  - Works in snow ✓

Are you interested in using the wind industry's most effective tool in assessing the wind resource in your project? Use the AQ500!