

## Remtech introduces the miniature PA-XS acoustic wind profiler



- **400 meters** average range.
- **10 meters** minimum altitude.
- **Multi-frequency** coding.
- **Intel® Atom CPU** and linux operating system.
- **18 watts** total power consumption.
- **7 kg** total weight
- **GPS**, digital compass, 2D inclinometer, pressure, temperature and humidity sensors.
- **WiFi** for local control (up to 100 m distance).
- **GPRS modem** and/or satellite terminal for remote control.



## Technical description and characteristics:

The sodar PA-XS includes the latest hardware design. The electronics has been downsized by an extensive use of the SMC technology and the computer part is a small PCI04 CPU board (with Intel® "ATOM" processor) with 16 bits A/D capability. All the hardware matches military specifications (-40 to +85°C with up to 100% relative humidity) and is fixed underneath the antenna. Wireless modem or satellite connections are available.

This new design includes GPS, digital compass and 2D inclinometer, Wi-Fi, as well as pressure, temperature and humidity measurements.

### The main characteristics for the PA-XS Sodar are:

Antenna weight	1.850 Kg
Antenna dimensions	24 cm(L) x 24 cm(W) x 4 cm(H)
Electronic case weight	3.1 Kg
Electronic case dimensions	20 cm(L) x 20 cm(W) x 15 cm(H)
PA-XS total weight	7,3 kg (antenna, electronic case and support)
Central frequency	6,70 KHz
Operating frequencies	Up to 9 emitted frequencies on each of two coplanar beams
Acoustic power	5 W
Operating conditions	-40°C to +85°C with up to 100% relative humidity
CPU and RAM memory	Atom®, 1 Gbytes
Power consumption	0.75 A @ 24 VDC (18 W)
Operating system	Linux
Average altitude range	400 m (40dBa, 15°C air temperature, 70 % Relative Humidity)
Minimum altitude	10 m

For local remote control a powerful netbook is supplied. It interconnects with the Sodar through Wi-Fi at a distance of up to one hundred meters.

## Data measurements and applications

The PA-XS is delivered with the following package: sigma u, sigma v, sigma w (wind speed sigmas along the 3 axis) and turbulent mechanical dissipation rate coefficient calculation.

This package is perfectly suited for wind energy in and offshore measurements and airport applications.



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