Remtech PA-5 SODAR acoustic wind profiler

- 3,000 meters average range
- 100 meters minimum altitude.
- Multi-frequency coding.
- ARM Quad Core CPU and Linux operating system.
- 150 watts total power consumption.
- 180 kg total weight
- GPS, 2D inclinometer, pressure, temperature and humidity sensors.
- WiFi for local control (up to 100 m distance).
- Wireless modem and/or satellite terminal for remote control.
The PA-5 Sodar provides:
- echo strength
- wind speed
- wind direction
- vertical speed
- various turbulence parameters (optional)

This PA-5 system is perfectly suited for regional wind studies for pollutant dispersion analysis, meteorological studies and military applications.

### Technical description and characteristics:

The PA-5 Sodar includes the latest hardware design. The electronics has been down sized by an extensive use of the SMC technology. The computer part uses an ARM Quad Core CPU which is plugged on a 16 bits A/D converter board. All the hardware matches military specifications (-40 to +60 °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, 2D inclinometer, Wi-Fi, as well as pressure, temperature and humidity measurements.

### The main characteristics for the PA-5 Sodar are:

- **antenna weight**: 120 Kg
- **antenna dimensions**: 170 cm(L) x 170 cm(W) x 40 cm(H)
- **electronic case weight**: 3.1 Kg
- **electronic case dimensions**: 20 cm(L) x 20 cm(W) x 20 cm(H)
- **PAS total weight**: 180 kg (antenna, electronic case and support)
- **central frequency**: 1 KHz
- **operating frequencies**: Up to 9 emitted frequencies on each of two coplanar beams
- **acoustic power**: 60 W
- **operating conditions**: -40°C to +60°C with up to 100% relative humidity
- **CPU and RAM memory**: ARM Quad Core, 1 Gbytes
- **power consumption**: 6.25A @ 24 VDC (150 W)
- **operating system**: Linux
- **average altitude range**: 3,000m (40dBA, 15°C air temperature, 70 % Relative Humidity)
- **minimum altitude**: 100 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-5 Doppler Sodar provides:
- echo strength
- wind speed
- wind direction
- vertical speed
- various turbulence parameters (optional)

This PA-5 system is perfectly suited for regional wind studies for pollutant dispersion analysis, meteorological studies and military applications.

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**REMTECH S.A**  
2 et 4 avenue de l’Europe - 78140 Vélizy (France)  
Tél. : (33) 1 39 46 59 58 - Fax : (33) 1 39 46 63 10  
sales@remtechinc.com

**REMTECH INC.**  
2008 Peaceful Place - The Villages - FL 32162 - USA  
Tél. : (303) 772-6825  
sales@remtechinc.com