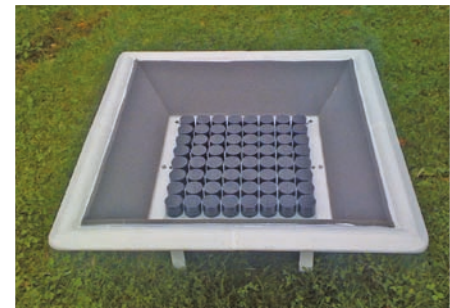


Remtech PA-0 SODAR acoustic wind profiler



- 700 meters average range
- 15 meters minimum altitude.
- Multi-frequency coding.
- ARM Quad Core CPU and linux operating system.
- 10 watts total power consumption.
- 20 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.



Technical description and characteristics:

The PA-0 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-0 Sodar are:

Antenna weight:	12 Kg
Antenna dimensions	42 cm(L) x 42 cm(W) x 7cm(H)
Electronic case weight:	3.1 Kg
Electronic case dimensions:	20 cm(L) x 20 cm(W) x 20 cm(H)
PA0 total weight	20 kg (antenna, electronic case and support)
Central frequency	3,6 Khz
Operating frequencies	Up to 9 emitted frequencies on each of two coplanar beams
Acoustic power	10 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:	0.40 Amp @ 24 VDC (9.6 W)
Operating system:	Linux
Average altitude range:	700m (40dBA, 15°C air temperature, 70 % Relative Humidity)
Minimum altitude:	15 m



PA0 Sodar with its standard extra acoustic enclosure made of 8 easily assembled sections

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