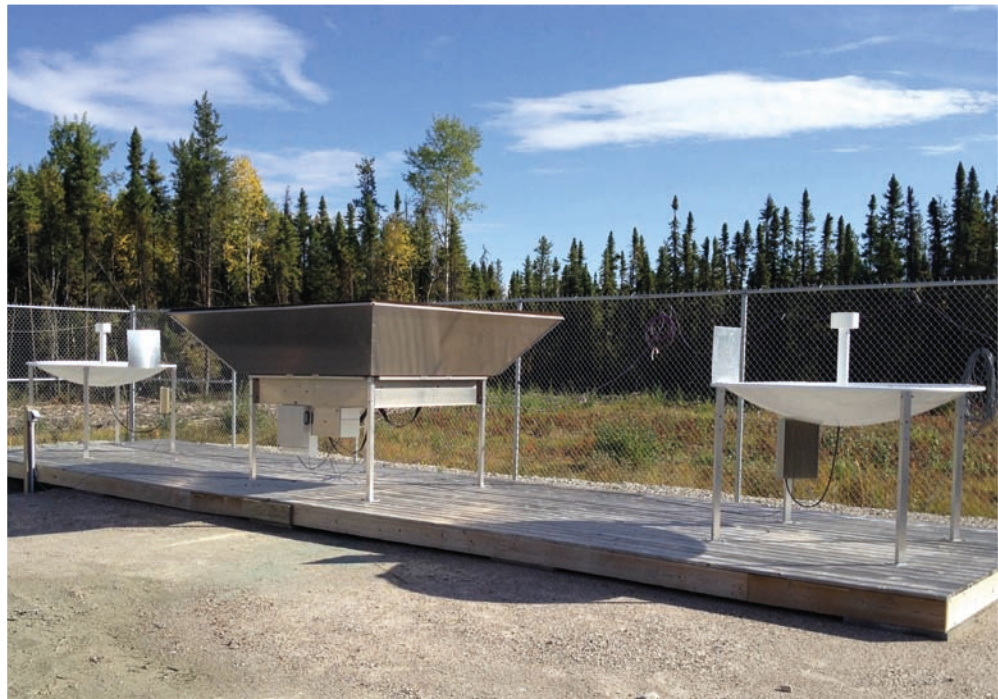


## Remtech Radio Acoustic Sounding System (RASS) for remote sensing of temperature



- 1,500 meters average range.
- 100 meters minimum altitude.
- 200 watts total power consumption.
- 120 kg total weight.
- 0.2°C accuracy.

# Technical description and characteristics:

The RASS includes the latest hardware design. It is a CW Radar which can be added to a PA-0 or a PA-5 Sodar system. Our RASS remotely measures temperature profiles in the atmosphere up to 1,500 m.

## The main characteristics for the RASS are:

RADAR ANTENNA (2 at 5 meters separation)	Diameter :	2000 mm
	Focal length :	658 mm
	Source type :	circular polarization
SOURCE OSCILLATOR		
	Frequency :	915 MHz or 1290 MHz
POWER AMPLIFIER		
	Type :	solid state
	Protection :	any load and phase
	Power :	20 W (60W optional)
FILTER		
	Type :	band pass filter
	Bandwidth (at - 3 dB) :	3 MHz
	Rejection :	better than 60 dB
PREAMPLIFIERS		
	Total gain :	39 dB
	Noise figure :	2 dB
MIXER		
	Isolation LO/RF :	20 dB min.
	Conversion loss :	8.5 dB max.

## Data measurements and applications

The RASS system accurately measures:

- temperature profile
- temperature standard deviation
- RASS echo strength

The RASS system can be used in environmental studies and study of telecommunication network disturbances due to atmospheric conditions



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