

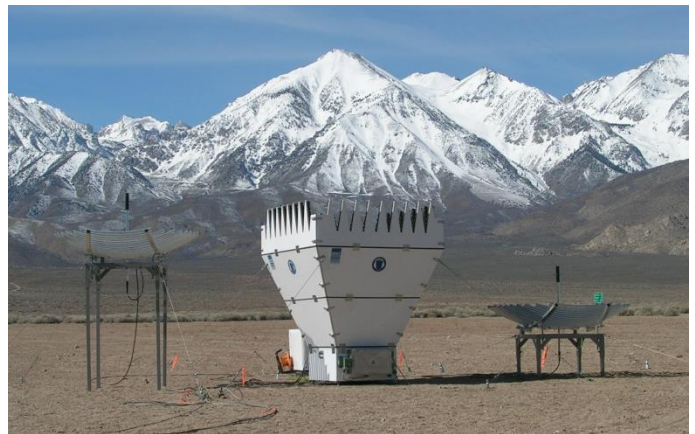
RASS 1290 MHz

Extension for SODAR PCS.2000



SODAR PCS.2000-64 with 1290 MHz
RASS extension (antenna Ø 2.4 m)

SODAR PCS.2000-24 with 915 MHz
Rass extension (antenna Ø 1.8 m)



- Vertical temperature profiling in 24/7 operation
- Perfect extension of Doppler SODAR PCS.2000
- Very high accuracy, typical temperature error ≤ 0.3 K
- Monitoring of thermal stratification and atmospheric stability
- Observation of built-up and decay of inversion layers
- Detection of residual layers
- Easy frequency allocation by low power CW-mode
- Icing protection by optional antenna heating
- Unattended long term automatic operation

RASS 1290 MHz, Extension for SODAR PCS.2000

Typical Applications

- Air quality studies and supervision
- Input parameters for air pollution modelling
- Immission forecasts
- Support of emergency response in case of accidental release
- Sound propagation models at noisy sites

Specifications

Transmitter	
Type	RTX1290
Operating frequency	1290 MHz
Operation Mode	CW
Output Power	20 W (+43 dBm)
Power consumption	130 W
Operating voltage	230 VAC / 50 Hz
Dimensions / weight	520 x 485 x 180 mm / 13 kg
Accuracy	≤ 0.3 K
Measuring height nominal/real	40 ... 1000 m/40 ... 400 m determined by horizontal wind flow
Receiver	
Type	RRX1290
Operating frequency	1290 MHz
Bandwidth (-3 dB)	1.5 MHz
Power consumption	10 W
Operating voltage	230 VAC / 50 Hz
Dimensions / weight	520 x 485 x 180 mm / 12 kg
Grid antennas 1290 MHz Ø 2.4 m	
Type	GKA8-16N
Antenna diameter	2.4 m
3 dB beamwidth E-plane / H-plane	5.3 °
Gain	28.0 dBi
F/B ratio	34 dB
Weight per antenna	approx. 100 kg
Grid antennas 1290 MHz Ø 1.8 m	
Type	MGA6-16N
Antenna diameter	1.8 m
3 dB beamwidth E-plane/H-plane	7.1 °
Gain	25.5
F/B ratio	30 dB
Weight	approx. 60 kg
915 MHz RASS	available

