

REMTECH GENERAL PRICE LIST

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All REMTECH systems come with a powerful PC with “Red Hat” Linux operating system. A simplified real-time version of our color presentation package (see item 10) is part of the basic configuration.

For a formal quote please consult REMTECH or one of its authorized representatives.

Each item is quoted in both US Dollars and in Euros, as REMTECH accepts payment in either one of these currencies.

BASIC CONFIGURATIONS:

Items 1, 2, 3 Acoustic wind profilers (Doppler Sodars)

All our Sodars come complete with basic software and are capable of measuring three-dimensional wind speed with up to 300 vertical layers. The average ranges are given herein for the following conditions: 40 dBA ambient noise, 15° C air temperature and 70 % humidity.

All minimum measurement heights are given for use in an open field.

REMTECH Sodar systems are composed of a Phased Array (PA) antenna and of an electronic case. The electronic case is low power (25 W for PA0 and 190 W for PA5) and can be used either outdoors (with an optional outdoor kit, item 7.3) or indoors. It can be powered on battery or on AC power. It includes a dedicated notebook computer.

The standard configuration of our Sodars includes a 50 meters mu-metal shielded antenna cable, linking the antenna to the electronic case (100 meters is optional).

Our Sodars are designed for up to 15 frequencies coding on each of the two symmetrical tilted beams during one « beep ».

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Item 1: PA0 SL (PA0 Surface Layer)

This is a standard PA0 from the hardware point of view while the range limitation is done by software. At any later date the range can be increased by purchasing the corresponding software license.

The PA0-SL 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. See items 15, 16 and 22.

This package is perfectly suited for wind energy and/or airport applications.

The antenna is made of 64 piezo-electric transducers, operating at 3.85 KHz (central frequency). Active antenna size is 40 cm x 40 cm.

The minimum measurement height is 15 meters.

The range is limited to 200 meter which is reached over 95% of the time.

USD 35,040.00

EUROS 25,690.00

Item 2: PA0

The antenna is made of 64 piezo-electric transducers, operating at 3.85 KHz (central frequency). Active antenna size is 40 cm x 40 cm.

The minimum measurement height is 15 meters.

The average range is 700 meters.

USD 49,950.00

EUROS 36,630.00

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Item 3: PA5

This is a high power PA0. Unlike the PA0, the transducers are compression drivers (in place of piezo-electric transducers) operated at 1.0 KHz and the antenna dimensions are increased accordingly. Active antenna size is 170 cm x 170 cm.

The minimum measurement height is 100 meters.

The average range is 3,500 meters.

USD 147,190.00

EUROS 107,940.00

Item 4: Radio-Acoustic Sounding Systems (RASS)

For use with a PA5 for air temperature measurement.

It consists of two six foot diameter parabolic dishes and dedicated outdoor HF transceivers.

USD 89,730.00

EUROS 65,800.00

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Item 5

ADCP : Acoustic Doppler Current Profiler (Doppler Sonar)

It is a vessel-mounted system.

It is made of a single 52-element emission/reception transducer with electronic beam steering to allow for measurement along 5 axes, and a cable to the signal-processing electronics. The computer performs calculations similar to those performed by our Doppler Sodars, which use acoustic waves for remote measurement of wind.

USD 94,380.00

EUROS 69,210.00

The corresponding data from external sensors (such as heading, pitch and roll sensors or from positioning systems such as Loran C or GPS) can be input into REMTECH RS232 PC port using ASCII code. The interfacing software will be provided for free. If sensors do not have this capability or if the customer wants them to be provided, please consult REMTECH.

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ITEM 7: MISCELLANEOUS HARDWARE OPTIONS

Item 7.1:

7.1.1 One set of two wireless modems

Please consult us (availability and price are site dependent)

7.1.2 Satellite receiver / transmitter – INMARSAT worldwide network

USD 6,690.00

EUROS 4,920.00

Item 7.2: Trailers for PA5 Sodars and PA5/RASS combination

Item 7.2.1: For PA5

USD 4,310.00

EUROS 3,160.00

Item 7.2.2 For PA5/RASS

USD 15,270.00

EUROS 11,200.00

Item 7.3: Outdoor kit for Sodar electronic case (this kit is needed if the application requires that the electronic case remains outdoors).

USD 3,140.00

EUROS 2,300.00

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Item 7.4: Additional acoustic enclosure for PA0 (especially useful for high surface winds applications)

USD 4,440.00

EUROS 3,250.00

Item 7.5: Solar power system for PA0

USD 4,850.00

EUROS 3,550.00

Item 7.6

7.6.1 Antenna heating for PA0 and PA0 SL

USD 5,850.00

EUROS 4,290.00

7.6.2 Antenna heating for PA5

USD 7,610.00

EUROS 5,580.00

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In what follows, options marked "SOD" are applicable to Sodars, while options marked "SON" are applicable to Sonars.
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Item 9 : "POWMOD": power modulation option.
For a chosen altitude range the Sodar automatically minimizes its output power(SOD)

USD	4,720.00
EUROS	3,470.00

ITEM 10 : COLOR DISPLAY SOFTWARES (SOD and SON) :

Item 10.1: Vectorial presentation of vertical profile of horizontal wind

USD	2,300.00
EUROS	1,700.00

Item 10.2: Facsimile presentation of all data

USD	2,300.00
EUROS	1,700.00

Item 10.3: Multi-level time series presentation of all data

USD	2,300.00
EUROS	1,700.00

Item 10.4: Vertical profile presentation

USD	2,300.00
EUROS	1,700.00

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Item 10.5: Wind roses calculation

USD 2,300.00

EUROS 1,700.00

Item 10.6: Range statistics calculation

USD 2,300.00

EUROS 1,700.00

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SODAR MEASURING CAPABILITY SOFTWARE ENHANCEMENTS:

Item 11: 6 dB improvement of signal processing.
This is equivalent to 4-fold the power output. It comes as standard with the PA5.
(SOD and SON)

USD	7,410.00
EUROS	5,450.00

Item 12: Extended frequency coding.
It gives a signal processing improvement of up to 10 dB (equivalent to 10-fold the output power). It is standard with the PA5.
Requires item 11.
(SOD and SON)

USD	12,340.00
EUROS	9,080.00

Item 13: Further extended frequency coding. It gives a signal-improvement of up to 9 dB (equivalent to 8-fold the output power).
Requires items 11 and 12.
(SOD and SON)

USD	11,520.00
EUROS	8,480.00

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DATA PROCESSING (REAL AND DELAYED TIME) SOFTWARE OPTIONS :

Item 15: Sigma w computation
(SOD and SON)

USD 3,510.00

EUROS 2,580.00

Item 16: Sigma u and Sigma v computation
(SOD and SON)

USD 3,510.00

EUROS 2,580.00

Item 16 gives a USD 2,000.00 / EUROS 1,470.00 credit on item 17.

Item 17: Sigma theta computation (requires item 15)
(SOD and SON).

USD 4,430.00

EUROS 3,260.00

Item 18: Automatic temperature inversion/thermocline detection (requires
items 15 and 17)
(SOD and SON).

USD 4,590.00.00

EUROS 3,370.00

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Item 19: Automatic mixing height/depth calculation (requires items 15, 17)
(SOD and SON).

USD 4,490.00

EUROS 3,300.00

Item 20: Automatic stability classification (requires items 15, 17 and 18)
(SOD).

USD 5,290.00

EUROS 3,900.00

Item 21: Reynolds stress calculation (requires items 15, 16, 17 and 18)
(SOD and SON).

USD 8,010.00

EUROS 5,900.00

Item 22: Turbulent mechanical dissipation rate coefficient calculation
(SOD and SON). This parameter is very useful in order to
characterize the fatigue effects on the wind turbine blades and to
forecast the vortex billows degradation on airports.

USD 4,980.00

EUROS 3,660.00

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Item 23: Vertical turbulent eddy coefficient calculation (requires items 15, 21 and 22)
(SOD and SON).

USD 8,150.00

EUROS 6,000.00

Item 24: Lapse rate estimation (requires items 15, 17 and 18). This option is available only with REMTECH Doppler Sodars. It is extremely useful for complex terrain modeling.

It gives results, which are less accurate than using a R.A.S.S. and over a shorter range (especially on noisy sites).

Nevertheless, it can be considered as a cost efficient solution considering the difference in price between item 24 and R.A.S.S. (SOD)

USD 16,210.00

EUROS 11,930.00

Item 25: Software for Wind Shear Calculation according to ICAO Circular 186-AN/122.

The wind shear is calculated as the wind vector change in Knots per 100 feet. It is reported in four classes (light, moderate, strong, severe) for each altitude layer.

USD 5,760.00

EUROS 4,230.00

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INSTALLATION/TRAINING:

The Phased Array systems (whether Sodars or Sonars) are so easy to install and use that the user can perform the installation without the assistance of a REMTECH engineer on site. As an alternative, we suggest that the end-users come to REMTECH for a maximum of one or two days to acquire training in the use of the system before it is shipped. This training is free of charge and again, this service is not really needed in most cases.

However, installation and training can take place on a customer's site, if required, at a rate of USD 200.00/ EUROS 140.00 per hour, plus travel and accommodation expenses, which would be invoiced at real cost plus 10 %.

DISCOUNT POLICY:

If you purchase 2 to 4 systems, a 5 % discount will be applied to the total configuration price of each system. If the total cost of optional software purchased is over USD 14,300.00 / EUROS 10,520.00, an additional 10 % discount on software alone will apply, with a 20 % discount available on software purchases of over USD 28,600.00/ EUROS 21,040.00 and 30 % if over USD 57,200.00 / EUROS 42,090.00.

In addition special prices are available for OEM, consultants and Universities. Please consult REMTECH.

LEASE/PURCHASE CONDITIONS:

Leasing is available at 10 % of the total configuration price per month, payable at the beginning of each month (this excludes packing, transport, installation, etc. expenses). If the system is purchased at the end of the lease, and then 90 % of the amount already paid will be credited to the total purchase price.

Leasing is restricted to only certain countries. Please consult REMTECH.

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DELIVERY TIME:

- 1 to 2 months from the date of receipt of the order for PA0,
- 2 to 3 months from the date of receipt of the order for PA5 and RASS.
- 3 to 4 months from the date of receipt of the order for Sonar.

PACKING:

Packing (using high quality wooden cases) is quoted as follows (for standard configurations excluding items 7.1 to 7.5):

PA0	USD 860.00	€ 630,00
PA5	USD 2,090.00	€ 1530,00
RASS	USD 2,250.00	€ 1650,00
SONAR	USD 600.00	€ 440,00

LIMIT OF VALIDITY OF PRICES:

This price list is effective on March 19, 2010. REMTECH may change prices after this date without notice to all list holders.

This price list expires upon issuance of a new price list.