

# OPERATION MANUAL



## Data logger LogBox AA



### Quick guide LogBox AA

LogBox is an electronic data logger with two analog input channels. Values measured by these channels (data) are stored in the logger electronic memory (acquisitions) for later download to a PC for visualization and analysis in the form of tables or graphs.

The logger is supplied with LogChart-II software, which enables to set up the logger operation mode. It is also used for data visualization. Other parameters such as signal input type, Logging interval, etc., are easily selected through the LogChart-II software.

The complete installation and operation manual for the electronic data logger is in the CD-ROM packed with the product.

### Technical data

Features	Values
Inputs	Thermocouples J; K; N; R; S; T Pt100 4...20 mA; 0...50 mV; 0...10 V
Input impedance	0...50 mV, Pt100 and thermocouples: >10 M $\Omega$ 0...10 V: > 1 M $\Omega$ 4...20 mA: 100 $\Omega$
Measuring ranges	J -50...760 °C (-58...1400 °F) K -50...760 °C (-58...1400 °F) N -100...400 °C (-148...752 °F) T -90...1300 °C (-130...2372 °F) R 0...1760 °C (32...3200 °F) S 0...1760 °C (32...3200 °F) Pt100 -200...530 °C (-328...986 °F) 0...20 mA Linear program range of -32768 to 32767 0...50 mV Linear program range of -32768 to 32767 0...10 V Linear program range -32768 to 32767
Accuracy	Thermocouples J, K and T: . 25% of the measuring range $\pm$ 1 °C;  Thermocouples N, R, and S: 0,25% of the measuring range $\pm$ 3,7 °C  Pt100: 0,2% of the measuring range;  4...20 mA, 0...50 mV and 0...10 V: 0,2% of the measuring range
Memory capacity	32000 (32k)
Measuring interval	Minimum: 10 seconds, maximum: 18 hours
Power supply	3.6 V Lithium battery (1/ 2 AA)
Estimated autonomy	1 year with one daily download and 5 minutes measuring interval
Operating temperature	-40...70 °C
Housing	Polycarbonate
Ingress protection	IP 67, IP65, depending on model
Dimensions	60 x 70 x 35 mm
CE-conformance	2014/300/EU
According to	EN 61326-1
Logger-PC data transfer	According to the number of logs. 40 seconds for 16000 logs.
PC Interface	Ir/USB or Ir/Serial
LogChart-II Software Umgebung	Set up Software for Windows 95, 98, NT, 2000 and XP. Menus in Portuguese, English or Spanish. Sets up, reads and displays data on the screen.
0568 0034	Data logger LogBox AA IP67. Memory capacity up to 32 000 values, operating temperature: -40...80 °C, Inputs: thermocouples of all sorts, Pt100, 0...50 mV, 4...20 mA, 0...10 V
0568 0033	Data logger LogBox AA IP65. Memory capacity up to 32 000 values. Operating temperature: -40...80 °C, Inputs: thermocouples of all sorts, Pt100, 0...50 mV, 4...20 mA, 0...10 V
0568 0036	IrLink 3 Infrared communication interface with USB-connection and LogChart II Software. Suitable to the loggers TagTemp and LogBox RHT

### Package contents

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## Data logger LogBox AA

Besides this manual, the user must check if the items below accompany the product:

- The electronic logger LogBox-AA or LogBox-DA;
- A CD-ROM with the software, manuals and a USB driver
- A communication interface upon request

Please avoid extreme mechanical and inappropriate exposure. The device/product is not suitable for potential explosive areas and medical-technical applications.

### Identification

The identification label is on the logger body. Check if the features described are in accordance with your order.

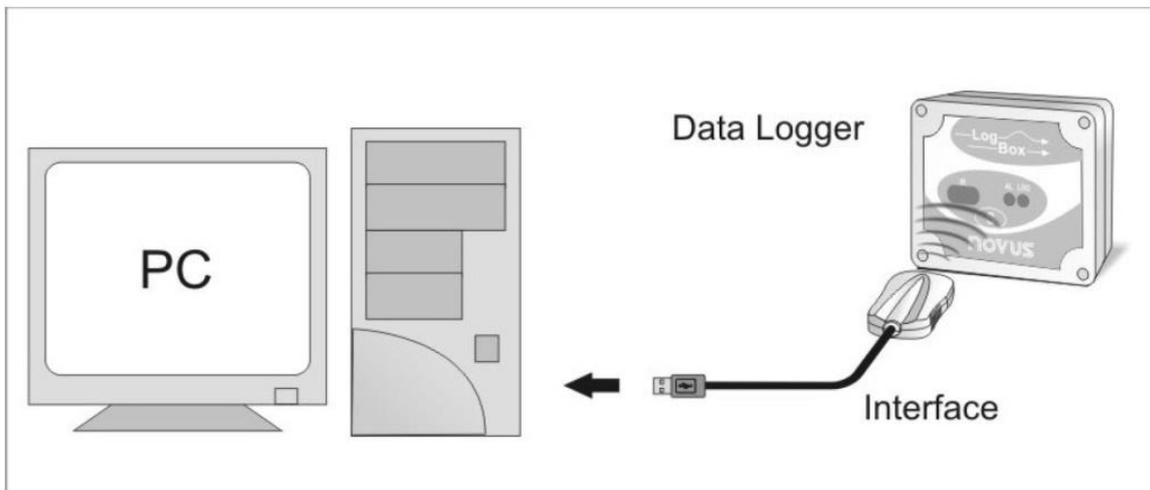
### Installing LogChartII

LogChart-II is the software provided with the logger to allow for configuration and data offload. To install, run the LC\_II\_Setup.exe file provided with the CD-ROM. For additional software usage instructions check the HELP menu.

Note: Be sure your Windows date separator is configured as a slash: dd/mm/yy or dd/mm/yyyy.

### Communication with the logger

Make sure the communication interface is connected to the PC port selected. The interface must be constantly directed towards the front part of the logger (communication window) at a maximum distance of 1 m. (See Fig. 1).



### Attention