

INTRODUCTION

LogBox-AA is a dual channel universal input data logger which directly accepts several analog industrial signals and sensors as voltage, current, thermocouples and RTDs.

This self-operated logger is extremely flexible and can be easily programmed and set via a handy infrared **IrLink3** interface connected to a USB port under Windows® software or with a Palm compatible PDA IrDA interface under PalmOS.

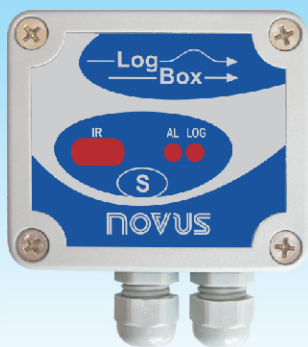
LogChart II software allows for logger configuration, recorded data retrieval, plotting and historical analysis and exports data to spread sheets.

Its sturdy water proof enclosure provides full performance in the most demanding applications.



CONFIGURATION

- **LogChart II** software allows for logger configuration, recorded data retrieval, plotting and historical analysis and exports data to spread sheets. Infrared communication to a PC is achieved by using the **IrLink 3** interface connected to a USB port (RS232 is optional).
- Configuration, data retrieval and analysis can be also done by using a convenient Palm OS compatible PDA through its IrDA interface. This reduces cost and dramatically increases portability. Data downloaded from multiple **LogBox** units to a Palm can be later transferred and synchronized to a PC by means of the native Palm sync tool. Once the data are transferred to a PC they can then be better visualized and exported by the **LogChart II** software.



SPECIFICATIONS

- Dual universal multi-sensor inputs, individually programmable for Pt100, Thermocouples (types J, K, T, E, N, R, S or B), voltage (0 to 50 mV or 0 to 10V), or current (0 to 20 mA or 4 to 20 mA)
- Accuracy: 0.2% of full scale for Pt100, current and voltage; 0.25% of full scale $\pm 3^{\circ}\text{C}$ for t/cs type R,S and B; 0.25% of full scale $\pm 1^{\circ}\text{C}$ for all other thermocouples
- Input resolution: 14 bits
- Launch options: immediate, programmed time and date, or via Palm
- Stop options: when full, at a certain time, after a number of readings, or wrap around (overwrites first readings)
- Internal button and external signal input for stop/go
- Data acquisitions can be repeated daily
- Memory for 32,000 recordings in one channel or 16,000 recordings for each channel
- Infrared communication up to 1 meter away
- Recording interval: programmable from 1 s to 18 hours
- Built in real time clock
- Internal replaceable lithium cell (3.6V $\frac{1}{2}$ AA)
- Estimated battery life: 200 days with one weekly download and 5 minutes measuring interval. Battery life depends heavily on data retrieval frequency.
- Switching circuit for powering remote transducers (only in IP65 version)
- Configuration and data retrieval software for Windows® XP, Vista, 7 and PalmOS
- Operating temperature: -40°C to 70°C
- IP65 housing. Optional: IP67
- Dimensions: 70 x 60 x 35 mm

SENSOR TYPES AND RANGES

TYPE	CHARACTERISTICS
Thermocouple K	-90 to 1370°C
Thermocouple J	-50 to 760°C
Thermocouple R	0 to 1760°C
Thermocouple S	0 to 1760°C
Thermocouple T	-100 to 400°C
Thermocouple N	-90 to 1300°C
Thermocouple E	-40 to 720°C
Thermocouple B	150 to 1820°C
Pt100	-200.0 to 650.0°C
0-10 V	Programmable Indic. -32768 to 32767
0-50 mV	Programmable Indic. -32768 to 32767
4-20 mA	Programmable Indic. -32768 to 32767

DATA ANALYSIS

CONFIGURATION

Parameters Configuration

Title: LogBox

General Information

Model: LogBox-AA Firmware Version: 1.09
 Serial Number: 5038302 Memory Capacity: 16382 loggings
 LogBox Date/Hour: 1/1/2000 00:08:13 Number of acquisitions: 0 loggings
 Actual Date/Hour: 2/3/2006 10:36:30

Acquisitions Channels

Channel 1

Tag: Input: Unit: Scale: [Bar] Alarm: [Bar]
 Boiler 4-20mA Bar 4mA 0.0 ☐ Low ☐
 Offset: Mode: 20mA 10.0 ☐ High ☐
 0 Instantaneous

Channel 2

Tag: Input: Unit: Scale: [°C] Alarm: [°C]
 Temp Pt100 °C 0.0 ☐ Low ☐
 Offset: Value: Average

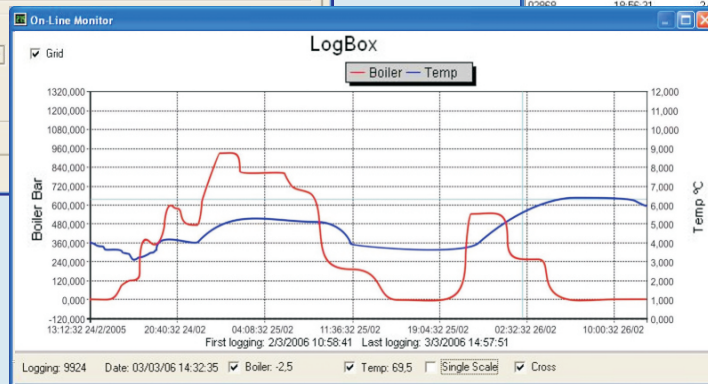
TABLE

LogBox - Readings

Loggings Table

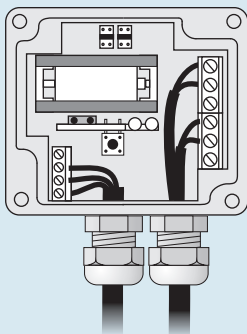
Record Nr.	Time	Date	Boiler [Bar]	Temp [°C]
02852	18:53:51	2/3/2006	10.6	69.3
02853	18:54:01	2/3/2006	10.6	69.2
02854	18:54:11	2/3/2006	10.6	69.2
02855	18:54:21	2/3/2006	10.6	69.2
02856	18:54:31	2/3/2006	10.6	69.2
02857	18:54:41	2/3/2006	10.6	69.2
02858	18:54:51	2/3/2006	10.6	69.2
02859	18:55:01	2/3/2006	10.6	69.2
02860	18:55:11	2/3/2006	10.6	69.2
02861	18:55:21	2/3/2006	10.6	69.2
02862	18:55:31	2/3/2006	10.6	69.2
02863	18:55:41	2/3/2006	10.6	69.2
02864	18:55:51	2/3/2006	10.6	69.2
02865	18:56:01	2/3/2006	10.6	69.2
02866	18:56:11	2/3/2006	10.6	69.2
02867	18:56:21	2/3/2006	10.6	69.3
02868	18:56:31	2/3/2006	10.6	69.3
02869	18:56:41	2/3/2006	10.6	69.2
02870	18:56:51	2/3/2006	10.6	69.2
02871	18:57:01	2/3/2006	10.6	69.2
02872	18:57:11	2/3/2006	10.6	69.2
02873	18:57:21	2/3/2006	10.6	69.2
02874	18:57:31	2/3/2006	10.6	69.2
02875	18:57:41	2/3/2006	10.6	69.2
02876	18:57:51	2/3/2006	10.6	69.2
02877	18:58:01	2/3/2006	10.6	69.2
02878	18:58:11	2/3/2006	10.6	69.2
02879	18:58:21	2/3/2006	10.6	69.2
02880	18:58:31	2/3/2006	10.6	69.2
02881	18:58:41	2/3/2006	10.6	69.2
02882	18:58:51	2/3/2006	10.6	69.2
02883	18:59:01	2/3/2006	10.6	69.2
02884	18:59:11	2/3/2006	10.6	69.2
02885	18:59:21	2/3/2006	10.6	69.2
02886	18:59:31	2/3/2006	10.6	69.2
02887	18:59:41	2/3/2006	10.6	69.2
02888	18:59:51	2/3/2006	10.6	69.2
02889	19:00:01	2/3/2006	10.6	69.2
02890	19:00:11	2/3/2006	10.6	69.2
02891	19:00:21	2/3/2006	10.6	69.2
02892	19:00:31	2/3/2006	10.6	69.2
02893	19:00:41	2/3/2006	10.6	69.2
02894	19:00:51	2/3/2006	10.6	69.2
02895	19:01:01	2/3/2006	10.6	69.2
02896	19:01:11	2/3/2006	10.6	69.2
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02898	19:01:31	2/3/2006	10.6	69.2
02899	19:01:41	2/3/2006	10.6	69.2
02900	19:01:51	2/3/2006	10.6	69.2
02901	19:02:01	2/3/2006	10.6	69.2
02902	19:02:11	2/3/2006	10.6	69.2
02903	19:02:21	2/3/2006	10.6	69.2
02904	19:02:31	2/3/2006	10.6	69.2
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02907	19:03:01	2/3/2006	10.6	69.2
02908	19:03:11	2/3/2006	10.6	69.2
02909	19:03:21	2/3/2006	10.6	69.2
02910	19:03:31	2/3/2006	10.6	69.2
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02934	19:07:31	2/3/2006	10.6	69.2
02935	19:07:41	2/3/2006	10.6	69.2
02936	19:07:51	2/3/2006	10.6	69.2
02937	19:08:01	2/3/2006	10.6	69.2
02938	19:08:11	2/3/2006	10.6	69.2
02939	19:08:21	2/3/2006	10.6	69.2
02940	19:08:31	2/3/2006	10.6	69.2
02941	19:08:41	2/3/2006	10.6	69.2
02942	19:08:51	2/3/2006	10.6	69.2
02943	19:09:01	2/3/2006	10.6	69.2
02944	19:09:11	2/3/2006	10.6	69.2
02945	19:09:21	2/3/2006	10.6	69.2
02946	19:09:31	2/3/2006	10.6	69.2
02947	19:09:41	2/3/2006	10.6	69.2
02948	19:09:51	2/3/2006	10.6	69.2
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02952	19:10:31	2/3/2006	10.6	69.2
02953	19:10:41	2/3/2006	10.6	69.2
02954	19:10:51	2/3/2006	10.6	69.2
02955	19:11:01	2/3/2006	10.6	69.2
02956	19:11:11	2/3/2006	10.6	69.2
02957	19:11:21	2/3/2006	10.6	69.2
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GRAPHIC

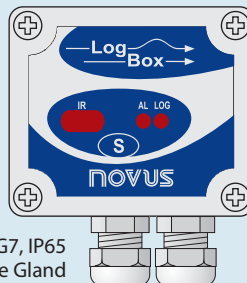


ELECTRICAL CONNECTIONS

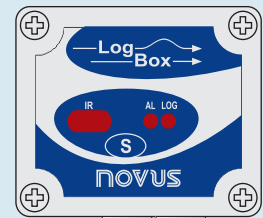
Standard Version



PG7, IP65
Cable Gland



IP67 Version



Quick-on
Connector

8mm IP67
Connector
1.2 m cable

DIMENSIONS

