

**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.

**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).



**SPECIFICATIONS**

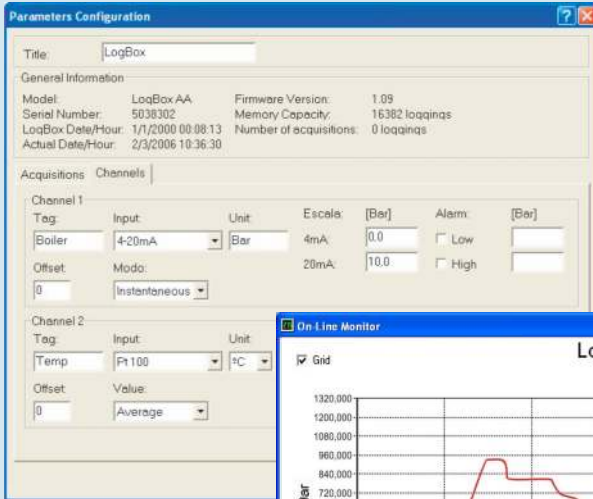
- Dual universal multi-sensor inputs, individually programmable for Pt100, Thermocouples (types J, K, T, E, N, R, S or B), voltage (0 to 50 mV or 0 to 10V), or current (0 to 20 mA or 4 to 20 mA)
- Accuracy: 0.2% of full scale for Pt100, current and voltage; 0.25% of full scale  $\pm 3^\circ\text{C}$  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
- 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 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 and 7
- Operating temperature:  $-40^\circ\text{C}$  to  $70^\circ\text{C}$
- 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 mV	Programmable Indic. -32768 to 32767

DATA ANALYSIS

CONFIGURATION



TABLE

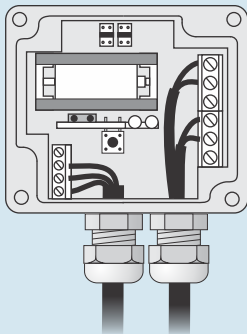
Record Nr.	Time	Date	Boiler [Bar]	Temp [°C]
02852	18:53:51	2/3/2006	10.6	69.3
02853	18:54:01	2/3/2006	10.6	69.2
02854	18:54:11	2/3/2006	10.6	69.2
02855	18:54:21	2/3/2006	10.6	69.2
02856	18:54:31	2/3/2006	10.6	69.2
02857	18:54:41	2/3/2006	10.6	69.2
02858	18:54:51	2/3/2006	10.6	69.2
02859	18:55:01	2/3/2006	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
2006			10.6	69.2
2006			10.6	69.2
2006			10.6	69.2
2006			10.6	69.2

GRAPHIC

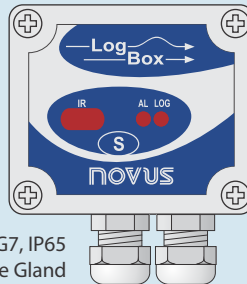


ELECTRICAL CONNECTIONS

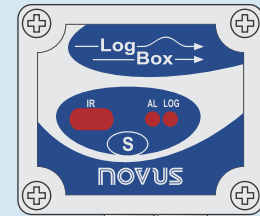
Standard Version



PG7, IP65 Cable Gland



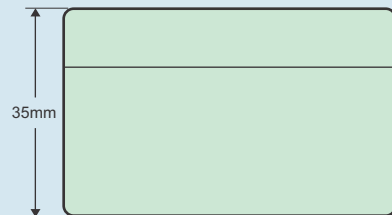
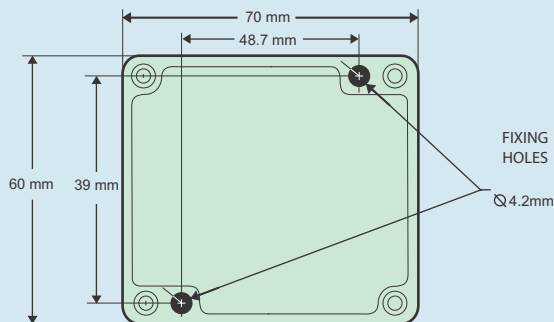
IP67 Version



Quick-on Connector

8mm IP67 Connector 1.2 m cable

DIMENSIONS



DATA ACQUISITION, LOGGING & SUPERVISORY SYSTEMS