APPLIED MEASUREMENTS LTD.
3 Mercury House, Calleva Park, Aldermaston, Berkshire, RG7 8PN
Tel: +44 (0) 1189 817339 | Web: www.appmeas.co.uk
Fax: +44 (0) 1189 819121 | Email: info@appmeas.co.uk

Data Logger - LogBox AA

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 **IR-LINK 3** 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 syncronized 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

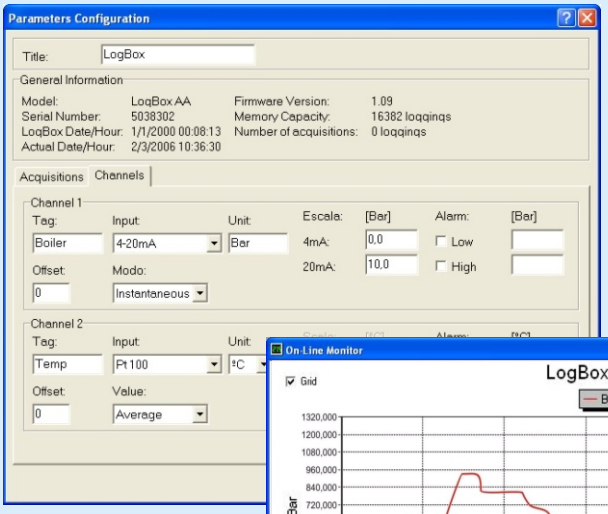
- Dual universal multi-sensor inputs, individually programmable for Pt100, Thermocouples (types J, K, T, E, N, R, S or B), voltage (0 to 50 mV or 0 to 10 V), or current (0 to 20 mA or 4 to 20 mA).
- Accuracy: 0.2% of full scale for Pt100, current and voltage; 0.25% of full scale ±3ºC for **t/c**s type R,S and B; 0.25% of full scale ±1ºC 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 ½ AA);
- Estimated battery life: 1 year with one daily download and 5 min 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 98, XP, 2000 and PalmOS;
- Operating temperature: -40°C to 70°C.
- IP65 housing. Optional: IP67 or IP68.
- Dimensions: 70 x 60 x 35 mm.

SENSOR TYPES AND RANGES

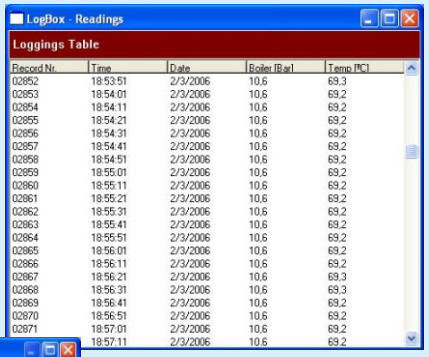
TYPE	CHARACTERISTICS
• Thermocouple K	-90 to 1370°C
• Thermocouple J	-50 to 760°C
• Thermocouple R	0 to 1760°C
• Thermocouple S	0 to 1760°C
• Thermocouple T	-100 to 400°C
• Thermocouple N	-90 to 1300°C
• Thermocouple E	-40 to 720°C
• Thermocouple B	150 to 1820°C
• Pt100	-200.0 to 650.0°C
• 0-10 V	Programmable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

DATA ANALYSIS

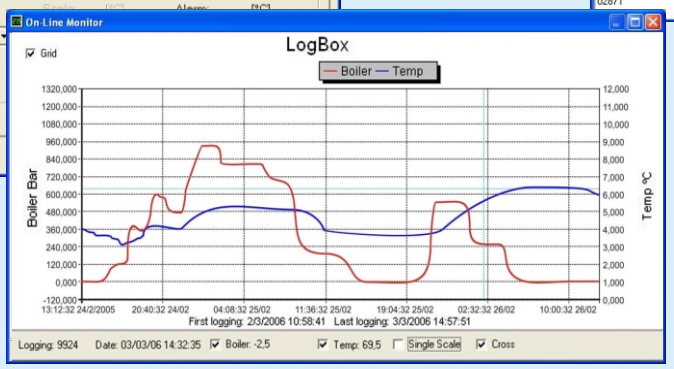
CONFIGURATION



TABLE

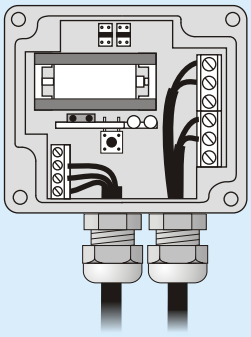


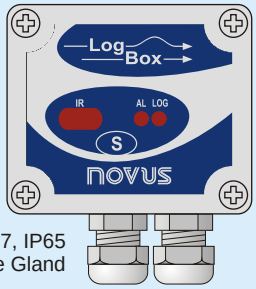
GRAPHIC



ELECTRICAL CONNECTIONS

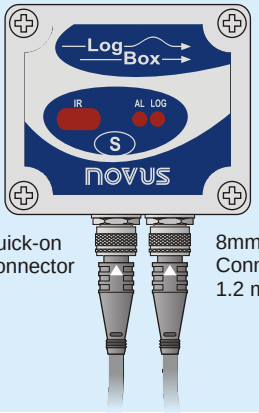
Standard Version





PG7, IP65
Cable Gland

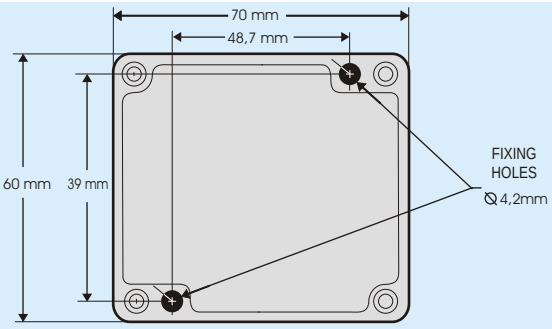
IP67 Version

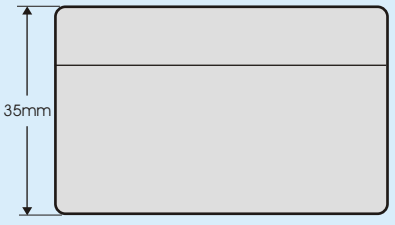


Quick-on
Connector

8mm IP67
Connector
1.2 m cable

DIMENSIONS





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