

INTRODUCTION

Logbox-RHT and LogBox-RHT-LCD are dual channel data loggers with built-in temperature and relative humidity sensors. They use a high quality industrial grade humidity sensor for accurate and reliable operation in applications such as transportation, food and goods storage, process auditing, pharmaceutical, HVAC and others.

They 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 PalmOS compatible PDA IrDA interface. LogChart II software allows for logger configuration, recorded data retrieval, plotting, historical analysis and it exports data to spread sheets.

In the **LogBox-RHT-LCD** the temperature and humidity values are shown in the digital display. You can also check on the display the Minimum and maximum recorded values.



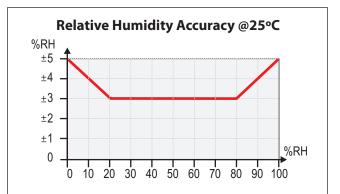
CONFIGURATION

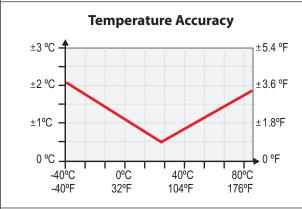
- LogChart II software allows for logger configuration, recorded data retrieval, plotting and historical analysis and exports data to spread sheets.
- Infrared communication to a PC is achieved by using the interface IrLink 3 connected to a USB port (RS232 is optional).
- Configuration, data retrieval and analysis can be done also 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 synctool.
- Once the data are transferred to a PC they can then be better visualized and exported by the **LogChart II** software.

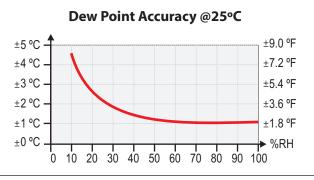
SPECIFICATIONS

- Temperature measurement:
 - Range: -40 to 80 °C. Resolution: 0.1 °C;
 - Response time: up to 30 s in fairly still air.
- Humidity measurement:
 - RH Range: 0 to 100 %RH. Resolution: 0.1 %RH;
 - Dew point range: -40 $^{\circ}$ to 100 $^{\circ}$ C. Resolution 0.1 $^{\circ}$ C;
 - Response time: 8s in fairly still air, from 20 to 80 % RH .
- Accuracy: See figure.
- Memory for 32,000 recordings in one channel or 16,000 recordings for each channel.
- $\bullet \ \ Recording \, interval: programmable \, from \, 1\, s \, to \, 18 \, hours.$
- Logger start: immediately, outset by the device's button, by date/hour or by a programmed setpoint.
- Logger stop: at full memory; at some specified date and hour, number of samples or never stop (circular memory).
- Infrared communication range: 50 cm, 30° angle.
- Internal replaceable lithium cell (3.6V ½ AA).
- Estimated battery life: up to 200 days with one weekly download and 5 minutes measuring interval. Battery life depends heavily on data retrieval frequency.
- Configuration and data retrieval software for Windows 98, XP, 2000, Vista and PalmOS.
- Operating temperature: -40°C to 70°C.
- Enclosure: IP65 (electronics), IP40 (sensor probe), flame retardant, ABS+PC.
- Dimensions: 70 x 60 x 35 mm.

Accuracy and Operational Limits







The RH sensor used in the equipment may be damaged or descalibrated when exposed to contaminated atmospheres or chemical agents. Hydrochloric, nitrous or sulphuric acid or ammonia in high concentrations may damage the sensor. Acetone, ethanol and propylene glycol may cause reversible measuring errors.



