

**INTRODUCTION**

**Logbox-RHT** is a dual channel data logger with built-in temperature and relative humidity sensors. Uses a high quality, industrial grade humidity sensor, for accurate and reliable operation in applications such as transportation, storage of goods, process auditing and others.

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, 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 interface **IrLink 3** 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.

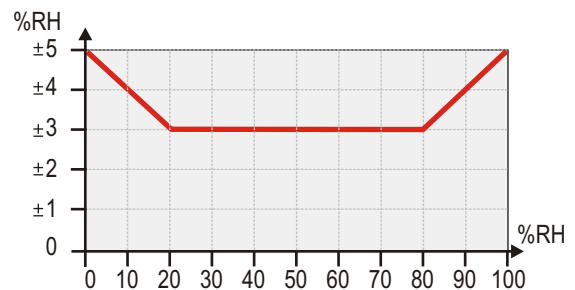
Once the data are transferred to a PC they can then be better visualized and exported by the **LogChart II** software.

**SPECIFICATIONS**

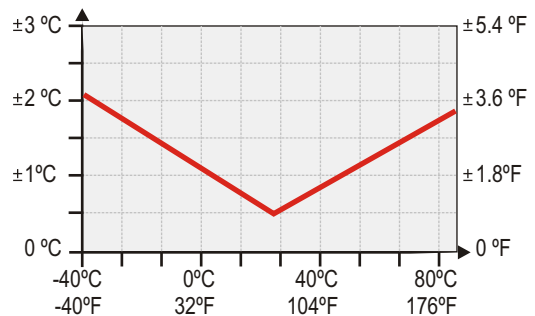
- Temperature measurement
  - Range: -40 to 80 °C. Resolution: 0.1 °C
  - Response time: up to 30 s in fairly still air
- Humidity measurement
  - RH Range: 0 to 100 %RH. Resolution: 0.1 %RH
  - Dew point range: -40 ° to 100 °C. Resolution 0.1 °C
  - Response time: 4s in fairly still air, from 20 to 80 %RH
- Accuracy: See figure;
- Memory for 32,000 recordings in one channel or 16,000 recordings for each channel;
- 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 (circular memory);
- Infrared communication range: 1 meter, 30° angle;
- Internal replaceable lithium cell (3.6V 1/2 AA);
- Estimated battery life: 2 years with one daily download. Battery life depends heavily on data retrieval frequency;
- Configuration and data retrieval software for Windows 98, XP, 2000 and PalmOS;
- Operating temperature: -40 °C to 80 °C;
- Enclosure: IP65 (electronics), IP40 (sensor probe), flame retardant, ABS+PC;
- Dimensions: 70 x 60 x 35 mm.

**ACCURACY AND OPERATIONAL LIMITS**

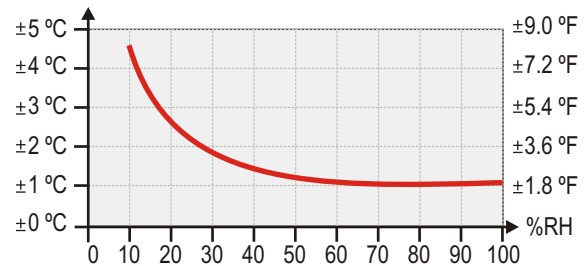
**Relative Humidity Accuracy @25°C**



**Temperature Accuracy**



**Dew Point Accuracy @25°C**



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.