Data Logger
LogBox-RHT-LCD

Introduction

LogBox-RHT-LCD is a 2-channel data logger with sensors for temperature and humidity integrated. Use high-quality sensor, for accurate and reliable transportation applications, storage of perishables, audit processes, among others.
The **LogChart II** enables configuring, collecting, plotting, analysis and export records. The sensor measurement values are shown on the display. You can also check the display, the minimum and maximum values occurred during acquisitions.
In the model **LogBox-RHT-LCD**, the sensor measurement values are shown on the display. You can also check the display, the minimum and maximum values occurred during acquisitions.

Specifications

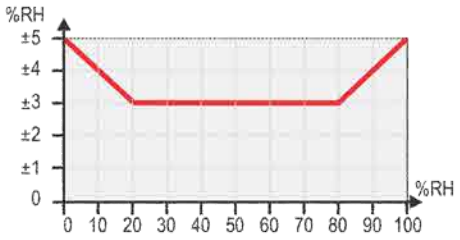
- Temperature measurement:
  - Range: -40 to 80 °C. Resolution: 0.1°C
  - Response time:up to 30 s in fairly still air
- Humidity measurement:
  - RH Range: 0 to 100 %RH. Resolution: 0.1 %RH
  - Dew point range: -40 ° to 100 °C. Resolution 0.1 °C
  - Response time: 8s in fairly still air, from 20 to 80 %RH
- Accuracy: See figure
- Memory for 32000 recordings in one channel or 16000 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 set point
- 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 (3.6 V 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® XP, Vista and 7.
- Operating temperature: -40°C to 70°C
- Enclosure: IP65 (electronics), IP40 (sensor probe), flame retardant, ABS + PC
- Dimensions: 70 x 60 x 35 mm

Configuration

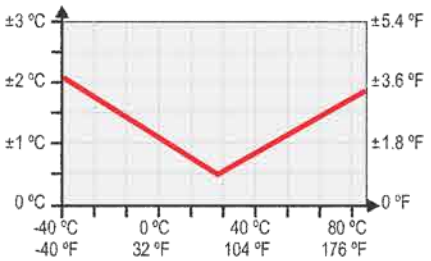
- **LogChart II** software allows the setting, collecting, plotting, analysis and data export.
- Infrared communication with PC is done using the communication interface IrLink3 connected to the USB port.
- Once transferred to your computer, data can be viewed and exported using **LogChart II**.

Accuracy and Operational Limits

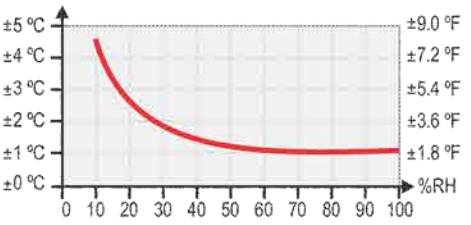
Relative Humidity Accuracy @25ºC



Temperature Accuracy

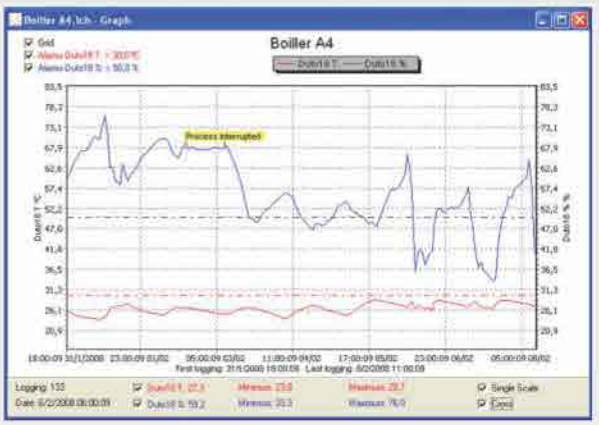


Dew Point Accuracy @25ºC

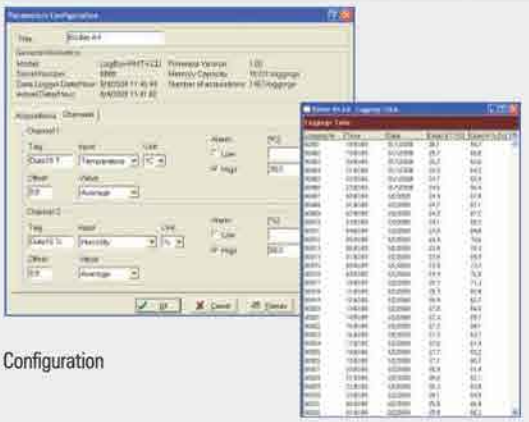


The RH sensor used in the equipment may be damaged or descalibrated when exposed to contaminated atmospheres or chemical agents. Hydrochloric, nitrous or sulphuric acid or ammonia in high concentrations may damage the sensor. Acetone, ethanol and propylene glycol may cause reversible measuring errors.

Data Analysis



Graph



Configuration

Table

Model

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Dimension