

DATA SHEET

KT 120 - KH 120

KISTOCK Data logger HVAC range - Temperature/Humidity



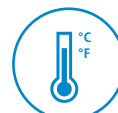
**Integrated software
for configuration and
visualisation in PDF format**

- Software for configuration and data visualisation freely downloadable
- Software for configuration and data processing available as option
- Storage capacity of 50 000 points



**Magnetic
mounting**

- Up to 2 recordable parameters
- 2 configurable setpoint alarms
- 1 line LCD screen
- IP 65 (KT 120) and IP 20 (KH 120) housing
- Integrated adjustment certificate in PDF



Technical specifications

| | KT 120 | KH 120 |
|--------------------------------------|--|--|
| Units displayed | °C, °F | °C, °F, % RH |
| Resolution | 0.1 °C, 0.1 °F | 0.1 °C, 0.1 °F, 0.1% RH |
| External input | USB connector | |
| Internal sensor | Temperature | Temperature, humidity |
| Type of sensor | NTC | Temperature: NTC Humidity: Capacitive |
| Measuring range | From -40 to +70 °C | Temperature: from -20 to +70 °C Humidity: from 0 to 100 %RH |
| Accuracies ⁽¹⁾ | ±0.4 ° from -20 to 70 °C ±0.8 °C below -20 °C | Temperature: ±0.4 °C from 0 to 50 °C ±0.8 °C below 0 °C or above 50 °C Humidity ⁽²⁾ : ±2.5% RH (from 5 to 95% RH, 15 °C to 25 °C) |
| Setpoint alarms | 2 setpoint alarms on each channel | |
| Number of points | 50 000 | |
| Frequency of measurement | From 1 minute to 24 hours | |
| Operating temperature ⁽³⁾ | From -40 to +70 °C | From -20 to +70 °C |
| Storage temperature | From -20 to +50 °C | |
| Battery life | 3 years ⁽⁴⁾ | 500 days ⁽⁴⁾ |

Housing

| | |
|---------------------------------|---|
| Dimensions | 100 x 42.5 x 15.9 mm |
| Weight | 53 g |
| Display | 1 line LCD screen Dimensions of screen: 32 x 25.5 mm |
| Control | 1 OK key 1 Selection key |
| Material | Compatible with food industry environment. ABS housing |
| Protection | IP65: KT 120. IP20: KH 120 |
| PC communication | 1 USB A male input |
| Battery power supply | 1 x CR2450 (button battery ⁽⁵⁾) |
| Environmental conditions of use | Air and neutral gases Hygrometry: in non condensing conditions Maximum altitude: 2000 m |

⁽¹⁾ All accuracies indicated in this document were stated in laboratory conditions and can be guaranteed for measurement carried out in the same conditions, or carried out with calibration compensation.

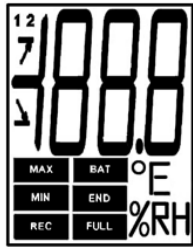
⁽²⁾ Factory calibration uncertainty: ±0.88% RH; Temperature dependence: ±0.04 x (T-20) % RH (if T < 15 °C or T > 25 °C).

⁽³⁾ The screen can be hard to read, and its display speed often slows down at temperatures lower than 0 °C. This has no effect on the accuracy of measurements.

⁽⁴⁾ Non-contractual value. Based on 1 measurement each 15 minutes at 25 °C. A correct operation of the device and the storage conditions must be respected.

⁽⁵⁾ The battery must be in compliance with the IEC 60086-4 standard.

Display



END DATASET is finished.

REC Indicates that one value is being recorded. It flashes: the DATASET did not start already.

FULL Flashing slowly: DATASET is between 80 and 90% of the storage capacity.

Flashing quickly: DATASET is between 90 and 100% of the storage capacity.

Constant: storage capacity full.

MAX The displayed values are the recorded maximum/minimum values for the displayed channels.



Indicates the alarm action type: rising or falling action.



Constant: indicates that the batteries have to be replaced.

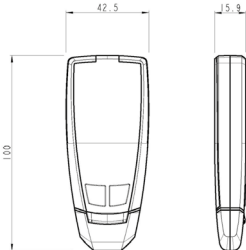
12 Indicates the channel number which is measuring.

°C: Temperature in °Celsius

°F: Temperature in °Fahrenheit

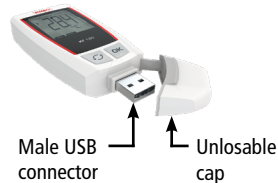
%RH: Relative humidity (KH 120)

Dimensions (mm)



Connections

PC connection input



Calibration

All the KISTOCK devices have an integrated adjustment certificate in the memory in PDF format which can be visualised and printed easily.

A calibration certificate is available as option in paper format. We recommend to carry out a yearly checking.

Recorder function

The KISTOCK allows to record the values measured instantaneously, it records the values according to a predefined interval.

On the other hand, it is possible to operate continuously the KISTOCK thanks to a loop recording.

3 types of dataset start

The measurement dataset can be launched:

- With a delayed start (with predefined date and time)
- With the software
- With push-button

6 types of dataset stop

You can stop your dataset:

- According to a date and time (if it was started the same way)
- According to a recording duration
- According to a predefined number of recording points
- If the storage capacity of the memory is full
- With "Stop" option of the software
- By holding "OK" key during about 5 seconds, if this function has been previously activated by the software.

Software



KILOG LITE: freely downloadable software on sauermanngroup.com

Allows the data download (graphics and points statement) and the data logger configuration.



Integrated software in PDF format

Enables to edit a dataset report and configure the data logger.

Use only with Adobe Acrobat Reader 9® software (or higher).

Configuration and data processing software

KILOG software enables to configure, save and process your data in a very simple way.

Software only: réf. KILOG-3-N.

Accessories

- **1 CR2450 battery.** Ref. KBL-2450



Only the accessories supplied with the device must be used

Mounting

The KISTOCK data loggers have a magnetic mounting, so you can fix it easily.

1. Magnetic mounting
2. Battery cover
3. Locking sign of the battery cover



Replace the battery

With 500 days to 3 years* of battery life, KISTOCK devices guarantee long-term measurements.

To replace the battery:

- Unlock the battery cover.
- Insert the battery (CR 2450 button battery**) with the + pole visible.
- Replace the battery cover with the indicator in front of the opened padlock and close it by turning it towards the right in order to make correspond the indicator with the closed padlock.

*Non-contractual value. Based on 1 measurement each 15 minutes at 25 °C. A correct operation of the device and the storage conditions must be respected.

**The battery must be in compliance with the IEC 60086-4 standard.

Maintenance: please avoid any aggressive solvent. Please protect the device from any cleaning produce containing formalin, that may be used for cleaning rooms and ducts.

Precautions for use: please always use the device in accordance with its intended use and within parameters described in the technical features in order not to compromise the protection ensured by the device.



BE CAREFUL! Material damages can happen, so please apply the indicated precaution measures.

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