



sauermann KP 110-RF Kistock Wireless Data Loggers User Guide

[Home](#) » [sauermann](#) » sauermann KP 110-RF Kistock Wireless Data Loggers User Guide 

Contents

- [1 KP 110-RF Kistock Wireless Data Loggers](#)
- [2 KISTOCK WIRELESS DATA LOGGERS](#)
- [3 Product Usage Instructions](#)
- [4 Quick start guide](#)
- [5 Display](#)
- [6 Connections](#)
- [7 Recorder function](#)
- [8 Documents / Resources](#)
 - [8.1 References](#)
- [9 Related Posts](#)



KP 110-RF Kistock Wireless Data Loggers



KISTOCK WIRELESS DATA LOGGERS

The KISTOCK wireless data loggers come in various models including KP 110-RF, KP 111-RF, KT 110-RF, KT 150-RF, KTU 210-RF, KTR 310-RF, and KTT 310-RF. These data loggers can measure parameters such as pressure, temperature, current, voltage, pulses, and light. They are equipped with a display that shows measurement and recording intervals, maximum and minimum channel values, and alarm action type. The KISTOCK data loggers can be mounted in different ways and come with various accessories.

Product Usage Instructions

1. **Operating Temperature:** The KISTOCK data loggers have an operating temperature range that should be adhered to in order to protect the instruments and ensure proper storage and battery life.
Refer to the user manual for specific temperature ranges for each model.
2. **Display:** The display shows measurement and recording intervals, maximum and minimum channel values, and alarm action type. It also indicates the reception power of the data logger. The refresh button updates the displayed measurements.
3. **Connections:** The KISTOCK data loggers come with various connectors including ribbed connectors, mini-Din connectors, and connectors for Pt100 probes and thermocouple probes. Refer to the user manual for specific connector types for each model.
4. **Recorder Function:** The recorder function cannot be turned off during a recording or data download. When the LED flashes twice quickly, the instrument starts recording values again. When the LED is constant, the data set is in progress. When the LED is flashing slowly, the data set is taking up 80-90% of storage capacity. When the LED is flashing quickly, the data set is taking up 90-100% of storage capacity. When the LED is constant, the storage capacity is filled up.
5. **Mounting:** The KISTOCK data loggers can be mounted in various ways including wall mounting with a lace

eyelet or magnetic mounting. Refer to the user manual for specific mounting instructions for each model.

6. **Maintenance:** Avoid using aggressive solvents or cleaning products containing formalin to clean the device.
Refer to the user manual for specific maintenance instructions for each model.
7. **Precautions for Use:** 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.

Quick start guide

Reference Parameters

KP 110-RF / KP 111-RF Pressure

KT 110-RF Temperature / Current / Voltage / Pulses

KT 150-RF Temperature

KTU 210-RF Current / Voltage / Pulses / Light

KTR 310-RF Pt100 temperature

KTT 310-RF Thermocouple temperature

Operating temperature, protection of the instruments and information about storage and the battery

- Operating temperature: 5 to 50 °C (KP 110-RF, KP 111-RF); -40 to 70 °C (KT 110-RF, KT 150-RF, KTU 210-RF, KTT 310-RF, KTR 310-RF).
 - KP 110-RF, KP 111-RF, KT 110-RF, KT 150-RF, KTU 210-RF, KTR 310-RF: IP65. KTT 310-RF: IP54.
 - Storage temperature: from -40 to +85 °C
- Battery power supply: lithium AA 3.6 V

Display

KP 110-RF / KT 150-RF:






- **END:** DATASET is finished
- **REC:** One value is being recorded
- **LOG:** Flashing: dataset has not started yet
Constant: data set is in progress
- **FULL:** Slow flashing: dataset is taking 80-90% of storage capacity
Fast flashing: dataset is taking 90-100% of storage capacity
Constant: storage capacity filled up

KT 110-RF / KTU 210-RF

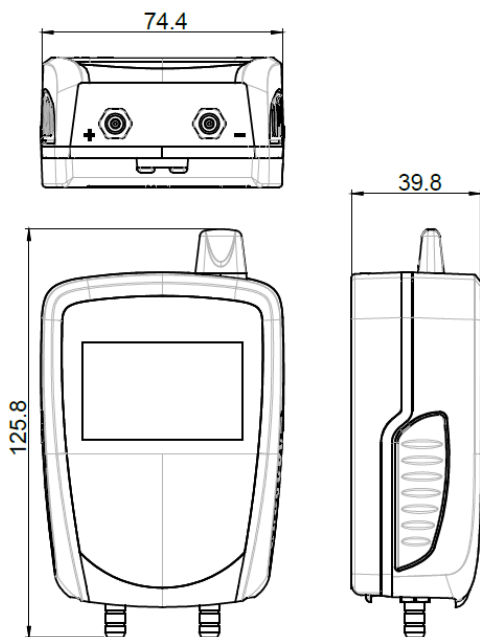
KTT 310-RF / KTR 310-RF:



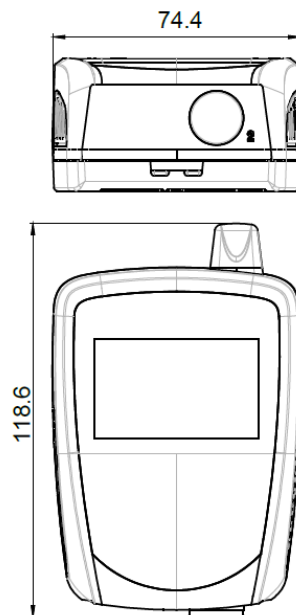
- 1 Channel No. which is measuring
- **ACT:** Refresh of displayed measurements
- **TIME:** Display of measurement and recording intervals
-  Low battery indicator
- **MIN/ MAX:** Displayed values correspond to maximum and minimum values of the channels
-  Alarm action type: rising or falling action
-  Indicates the reception powerful of the datalogger

Dimensions (mm)

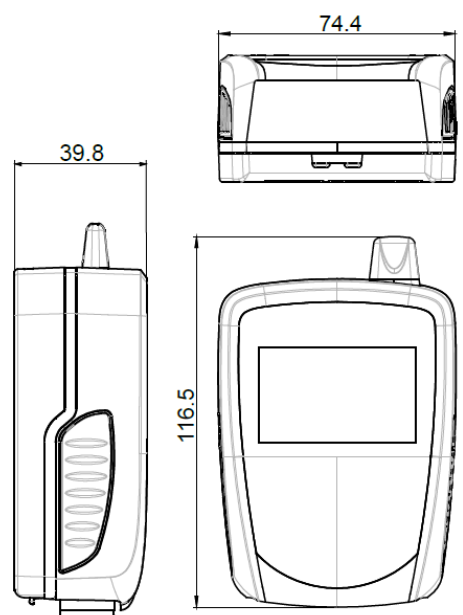
KP 110-RF



KT 110-RF

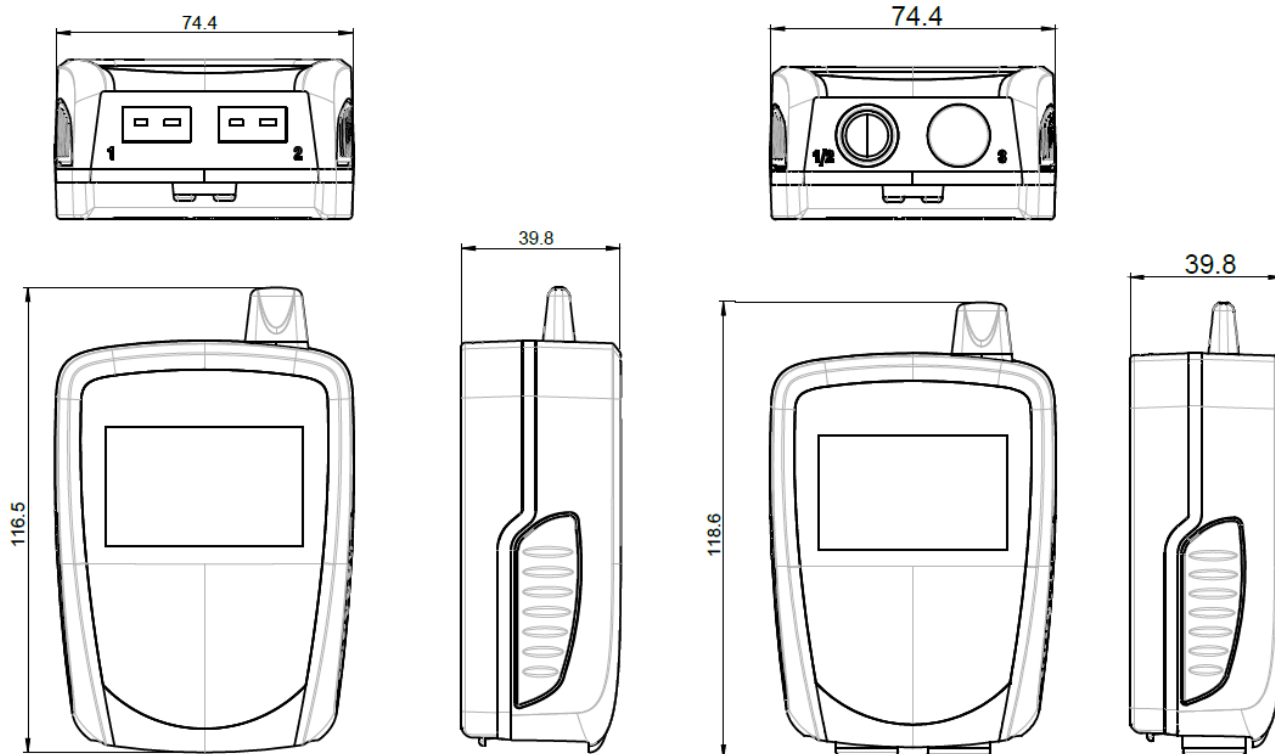


KT 150-RF



KTR 310-RF / KTT 310-RF

KTU 210-RF



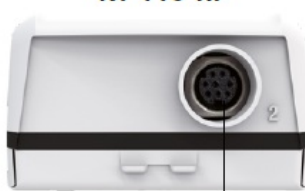
Connections

KP 110-RF



Ribbed connectors

KT 110-RF



Mini-Din connector

KTU 210-RF



Mini-Din connectors

KTR 310-RF



Mini-Din connections for Pt100 probes

KTT 310-RF



Connectors for thermocouple probes

Recorder function

KISTOCK datalogger is supplied turned off to save battery life.

To activate it:

- Press "OK" key for 5 s, green LED "On" blinks.

To turn it off:

- Press "Select" and "OK" keys at the same time for 5 s.

It is impossible to turn it off during a recording or a data download.

Activate or deactivate the keys during a measurement dataset:

- Press “Select” and “OK” at the same time for 5 s to deactivate both buttons: red LED flashes twice quickly.
- Press “Select” and “OK” at the same time for 5 s to reactivate them: green LED flashes twice quickly.

Perform an autozero during a measurement dataset (KP 110-RF)

It is possible to make the instrument to perform an autozero during a measurement dataset. Keys must be activated.

- Disconnect the pressure tube from the instrument.
- Press “OK” key during 5 seconds.

The instrument performs the autozero: “0” is displayed on the screen, this value is not recorded.

- Connect again the pressure tubes.

The instrument starts again the measurements dataset and values are recorded.

Perform an autozero during measurements (values are not recorded) (KP 110-RF)

It is possible to make the instrument to perform an autozero when values are measured but not recorded. Keys must be activated.

- Disconnect the pressure tube from the instrument.
- Press “Select” to display the measurement.
- Press “OK” during 5 seconds.

The instrument performs the autozero: “0” is displayed on the screen.

- Connect again the pressure tubes.

The instrument returns to the measuring mode.

5 recording modes

KISTOCK can record in 5 different ways :

- “Immediate” mode records values according a predefined interval.
- “Minimum”, “Maximum” and “Average” record automatically the calculation of minimum, maximum or average of measured values during an interval of recording.
- “Monitoring” mode allows to get an accurate history report during error events to help troubleshoot-ing, without stopping the measurement logging. To proceed this way, you just have to define:
 - a record interval to be used whilst the readings are beyond the setpoints.
 - a record interval for the values measured during each reading beyond the setpoints.
- Furthermore, you can also let your KISTOCK record non-stop (“loop” recording option).

2 operation modes

- Autonomous mode: data download is made wireless through the Kilog RF software.

- Network mode: measurements are stored in the datalogger and sent to the computer at regular intervals (in case of alarm, the information is directly sent to the computer). So KISTOCK memory is used as buffer memory and is reset at each sending. In this mode, several Kistocks can be linked to a computer at the same time.

3 modes dataset start

Once your recording mode has been set, you can launch your dataset:

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

6 modes dataset stop

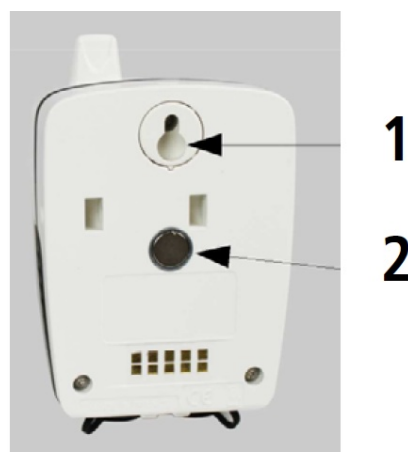
You can stop your dataset:

- As per a date and time (if it was started the same way)
- As per a period
- As per a predefined number of recording points
- Once the storage capacity is full
- With "Stop" option of the software
- By holding "OK" key for at least 5 s, if this function has been previously activated by the software.

Mounting

KISTOCK can be mounted in different ways; you can also move it or install it very easily.

- Magnetic mounting or wallmounting (see photos)
- Secured mounting (optional)



1. Wallmount and lace eyelet
2. Magnetic mounting

Accessories

Please refer to the data sheet to get more information about available accessories.

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

Precautions for use: please always use the de-vice 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.

Download the data sheets



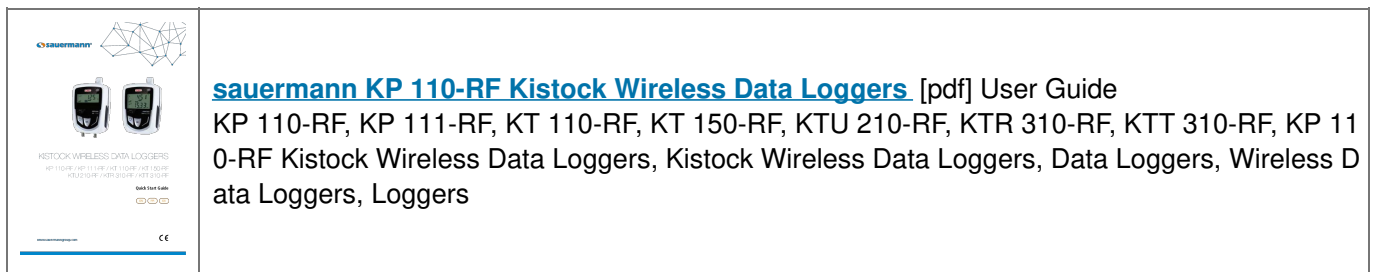
Customer service portal

Use our Customer service portal to contact us: <http://kimo-en.custhelp.com>

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Documents / Resources



References

- [🌐 Services - Homepage](#)
- [🌀 Manufacturer of Condensate Pumps and Measuring Instruments | Sauermann group](#)