

## Technical Data Sheet

Pressure / Temperature / Humidity / Air Velocity / Airflow / Sound level

# KISTOCK WIRELESS DATALOGGER

KTT310-RF KTR310-RF

Thermocouple temperature Pt100 temperature



- 2 configurable setpoint alarms

- Supplied with secured wall-mounting

- Magnetic mounting

bracket



- 20 000 measurement points
- IP65 or IP54
- Visual alarm
- Possibility to turn off the Kistock

#### REFERENCES

Part numbers	Display	External input number	Nb of recording points	Parameters
KTT310-RF	2 lines	2	20 000	Thermocouple temperature
KTR310-RF				Pt100 temperature

#### **TECHNICAL FEATURES**

Units displayed	°C, °F
Resolution	0.1°C, 0.1°F
External inputs	2 mini-Din connectors for Pt100 or thermocouple temperature
Setpoints alarms	2 setpoint alarms on each channel Possibility to send e-mail in case of alarm*
Frequency of the measurement	From 1 s to 24 h
Operating temperature	From -40 to +70 °C
Storage temperature	From -40 to +85 °C
Radio span (in free field)	300 m
Frequency	868 MHz
Battery life	3 years**
Data storage	In the kistock until downloading on PC



#### FEATURES OF HOUSING

**Dimensions** 116.5 x 74.4 x 39.8 mm

Weight 160 g

**Display** 2 lines LCD screen Screen dimensions : 45 x 28.5 mm

**Control** 2 keys : Select and OK

Material Compatible with food industry environment ABS housing Sides and caps made of Elastomer

Protection KTT310-RF : IP54 KTR310-RF : IP65

**PC communication** 1 digital input

Digital electronics Lacquer protected circuit board Meets RoHS standards

Battery power supply Type lithium 3.6 V

Visual alarm 2 electroluminescent diodes (green and red)

Environment Air and neutral gases

#### TECHNICAL FEATURES OF TEMPERATURE PROBES

#### THERMOCOUPLE PROBE

Sensor type	K thermocouple (class 1)
Measuring range	From -200 to +1000 °C
Accuracy*	±1.1 °C or ±0.4% of reading value

Sensor type	J thermocouple (class 1)
Measuring range	From -100 to +750 °C
Accuracy*	$\pm 0.8$ °C or $\pm 0.4\%$ of reading value

Sensor type	T thermocouple (class 1)
Measuring range	From -200 to +400 °C
Accuracy*	±0.5 °C or ±0.4% of reading value

Sensor type	S thermocouple S (class 1)
Measuring range	From 0 to +1760 °C
Accuracy*	±1°C or 0.4 % of reading value

#### Pt100 probe

Sensor type	Pt100
Measuring range	From -100 to +400 °C
Accuracy*	0.4% of reading value ±0.3°C

\*In accordance with CEI 584-1 standard, the accuracy is expressed either by a deviation in Celsius (°C), or by a percentage of the temperature concerned. Only the bigger value is considered.

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

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#### **EXTERNAL INPUTS**

**DIMENSIONS (mm)** 

#### **KTT310-RF**



#### Connectors for thermocouple probes

#### **KTR310-RF**



#### **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.

#### Five 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 troubleshooting, 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).

#### Two 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.

#### Three modes dataset start

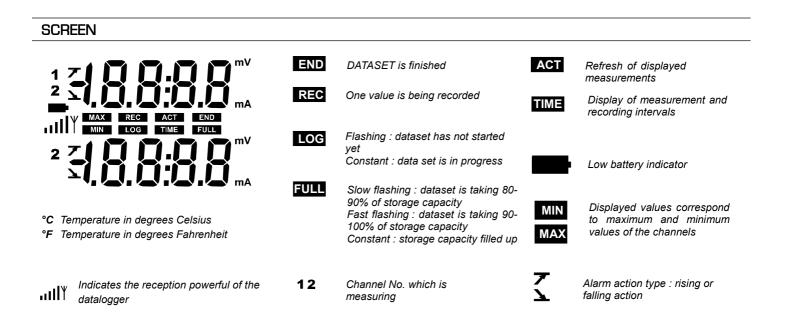
Once your recording mode has been set, you can launch your dataset :

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

#### Six 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 5s, if this function has been previously activated by the software.



#### SOFTWARE



#### · Configuration and data processing software

The new **KILOG RF** software is specially designed for the **KISTOCK-RF** range. In addition to the standard functions of dataloggers configuration and data processing (average, minimum and maximum values...), it allows the creation of a wireless dataloggers network (**up to 100 dataloggers**) for a real-time monitoring. *Ref. : KILOG-RF* 



#### NOTE Software is compatible with the wired range.

### Communication base with KILOG-RF software This base allows to communicate by radio frequence

This base allows to communicate by radio frequency with Kistock-RF (kistock by kistock data recovery, programming of Kistock-RF...). It must be continuously powered and connected to the PC for the use of kistock in network mode. It is equipped with a USB connection for PC, a jack connection for programming and downloading wired Kistock and a relay output. Supplied with main adapter, KILOG-RF software and USB cable. *Ref. : BK-RF* 

#### ACCESSORIES



Data collector.

KNT data collector allows you to collect measurements from one or several KISTOCK directly on-site (up to 500,000 values stored). Data can be displayed and printed from the KNT or download to your PC. *Ref. KNT* 310



• Alarm relay that can switched from KILOG-RF software via BK-RF base. Supplied with main adapter. *Ref : KAL-RF* 



• Autonomous instrument to check communication. It allows to check signal reception for positioning of dataloggers, extender and alarm box Ref : KTC-RF



• Device to extend radio signal to kistocks (300 m). Supplied with main adapter. *Ref : KPR-RF* 

• Lace. Ref. KDC

#### SUPPLIED WITH



#### · Secured wall-mounting bracket

KIMO has designed a new proprietary anti-theft system with no padlock. Your system cannot be unlock or damaged : your installation is fully secured.

#### CALIBRATION

KISTOCK dataloggers can be supplied with calibration certificate as an option.

#### WARRANTY PERIOD

KISTOCK dataloggers have 1-year guarantee for any manufacturing defect (return to our After-Sales Service required).

#### 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, see supplied with)







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