

## KISTOCK WIRELESS DATALOGGER KP110-RF / KP111-RF

### Pressure



#### KEY POINTS

- 12 000 measurement points
- IP65 housing
- Visual alarm
- Possibility to turn off the Kistock
- 2 configurable setpoint alarms
- Magnetic mounting
- Supplied with secured wall-mounting bracket

#### REFERENCES

Part number	Internal sensor	Display	Nb of recording points	Parameters
KP110-IN-RF	yes	no	12 000	Pressure
KP110-IO-RF	yes	1 line		
KP111-IN-RF	yes	no		
KP111-IO-RF	yes	1 line		

#### TECHNICAL FEATURES

	KP110-RF	KP111-RF
Units displayed	Pa	
Resolution	1 Pa	
Measuring range	From -1000 to +1000 Pa	From -10 000 to +10 000 Pa
Internal sensor	Pressure	
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 +5 to +50 °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	

\*thanks to the Kilog RF software / \*\* on the basis of 1 measurement each 15 minutes at 20°C

#### FEATURES OF HOUSING

##### Dimensions

116.5 x 74.4 x 39.8 mm

##### Weight

160 g

##### Display

1 line LCD screen  
Screen dimensions : 45 x 17 mm

##### Control

2 keys : Select and OK

##### Connectors

Ø 6,2 mm ribbed connectors in nickel plated brass

##### Material

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

##### Protection

IP 65

##### 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

## SPECIFICATIONS

### • KP110-RF

Sensor type	Pressure
Measuring range	From -1000 to +1000 Pa
Accuracy*	±0.5% of reading ±3 Pa

### • KP111-RF

Sensor type	Pressure
Measuring range	From -10 000 to +10 000 Pa
Accuracy*	±0.5% of reading ±30 Pa

\*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.

## 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

It is possible to reset the instrument during a measurement dataset.

#### **Keys must be activated.**

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

*The instrument is reset : “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)

It is possible to reset the instrument 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”.

*The instrument is reset : “0” is displayed on the screen.*

- Connect again the pressure tubes.

*The instrument backs to measurements.*

## 5 recording modes

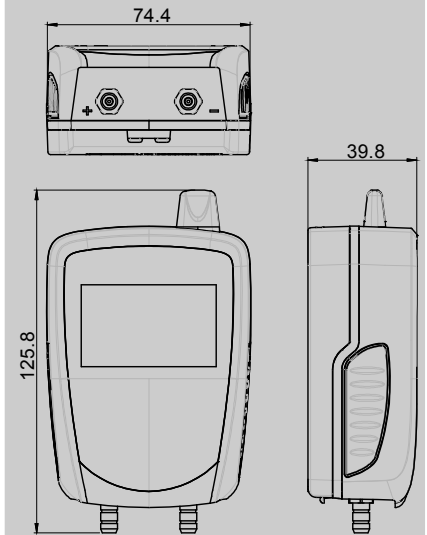
KISTOCK can record in 5 different ways :

- “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 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.

## DIMENSIONS



## EXTERNAL INPUTS

### External inputs



Ribbed connectors

### 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

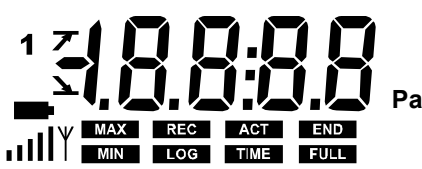
You can stop your dataset :

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

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## SCREEN

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**END** DATASET is finished

**ACT** Refresh of displayed measurements

**REC** One value is being recorded

**TIME** Display of measurement and recording intervals


**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


**MIN** Displayed values correspond to maximum and minimum values of the channels

**MAX**

**1** Channel No. which is measuring

 Alarm action type : rising or falling action

 Indicates the reception powerful of the datalogger

 Low battery indicator

*Pa : pressure in Pascal*

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## SOFTWARE

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### • 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*



Software is compatible with the wired range.



### • Communication base with KILOG-RF software

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 KNT310 data collector and a relay output. Supplied with main adapter, KILOG-RF software and USB cable.

Ref. : *BK-RF*

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## ACCESSORIES

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### 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*

## ACCESSORIES (continuation)



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



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



- **Autonomous instrument to check communication.** It allows to check signal reception for positioning of dataloggers, extender and alarm box  
Ref : KTC-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 unlocked or damaged : your installation is fully secured.

## CALIBRATION

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

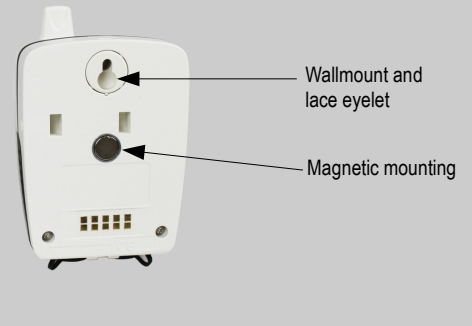
## WARRANTY PERIOD

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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