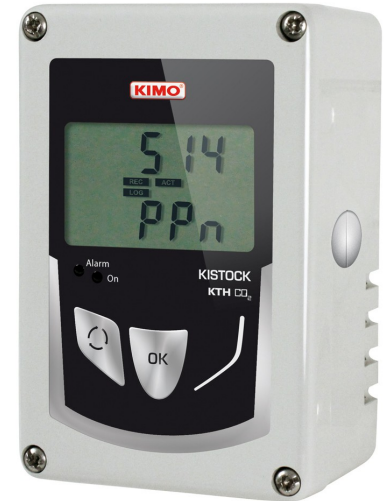


## KISTOCK DATALOGGER HVAC range : KTH-CO<sub>2</sub>-E

Temperature / Humidity / CO<sub>2</sub>



### KEY POINTS

- 20 000 measurement points
- 2 configurable setpoint alarms
- Gas input for calibration
- Fast data download (1000 values per seconds)
- IP40 housing
- Supplied with 1 m of silicone tube

### TECHNICAL FEATURES

<b>Displayed units</b>	°C, °F, %RH, °Ctd, °Ftd, ppm
<b>Resolution</b>	0.1°C, 0.1°F, 0.1%RH, 1 ppm
<b>Setpoint alarm</b>	2 setpoint alarms on each channel
<b>Frequency of measurement</b>	From 15 s to 24 h
<b>Working temperature</b>	From -20 to +70 °C
<b>Storage temperature</b>	From -40 to +85 °C
<b>Battery life</b>	3 years (on the basis of 1 measurement each 15 minutes at 20°C)

### TECHNICAL FEATURE OF THE INTERNAL SENSOR

	Hygrometry	Temperature	CO <sub>2</sub>
<b>Type of sensor</b>	CMOS		NDIR
<b>Measuring range</b>	From 5 to 95 %RH	From -20 to +70 °C	From 0 to 5000 ppm
<b>Accuracy*</b>	<b>Accuracy (Repeatability, linearity, hysteresis) :</b> ±2%RH (from 15°C to 25°C) <b>Factory calibration uncertainty :</b> ±0.88 %RH <b>Temperature dependence :</b> ±0.04 x (T-20) %RH (if T<15°C or T>25°C)	<b>From -20 to 0°C :</b> 2% of reading value ±0.6 °C <b>From 0 to 30 °C :</b> ±0.5 °C <b>From 30 to 70 °C :</b> 1.5% of reading value	±50 ppm +3% of reading value
<b>Response time (t<sub>63</sub>)</b>	50 s (Vair = 2 m/s)	25 s (V = 2 m/s)	> 120 seconds (ambient use) > 20 s in forced gas generation

\*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.

### FEATURES OF HOUSING

#### Size

120 x 80 x 55 mm

#### Weight

250 g

#### Display

2 lines LCD screen

Size : 45 x 28.5 mm

#### Control

2 buttons : Select and OK

#### Material

ABS housing

#### Protection

IP 40

#### PC communication

1 input for male Jack connector 3.5

#### European directives

2004/108/EC EMC

2006/95/EC Low Voltage

2011/65/EU RoHS II

2012/19/EU WEEE

#### Battery power supply

Type lithium 3.6 V

#### Visual alarm

2 electroluminescent diodes (green and red)

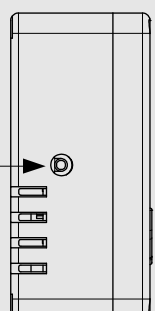
#### Environment

Air and neutral gases

### PC CONNECTION

#### Input for PC connection

Jack connector (3.5)  
Input for Kistock-PC software



## RECORDER FUNCTIONS

### Five recording modes

KISTOCK can record in five different ways :

- **“Immediate”** mode records values according a predefined interval.
- **“Minimum”**, **“Maximum”** and **“Average”** record automatically the calculation of minimum, maximum and average of measured values during an interval 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 reading 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).

### Four types of dataset start

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

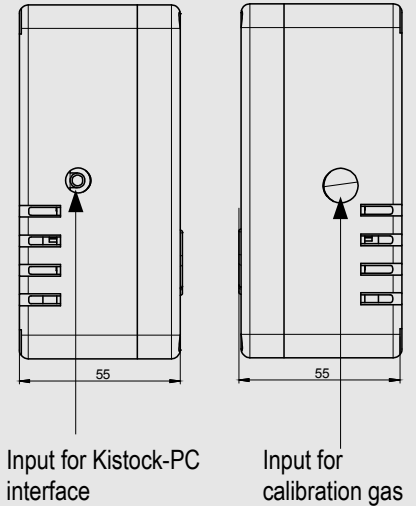
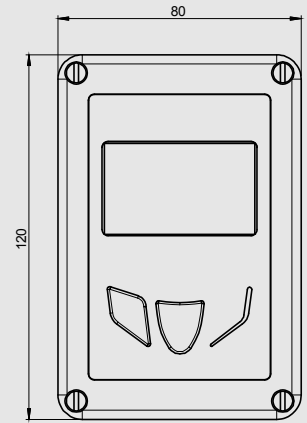
- With a delayed start (with predefined date and time)
- With the software
- With push-button
- With **“Online”** option. In this case, your datasets are directly sent, saved and displayed on your PC in real time.

### Six types of dataset stop

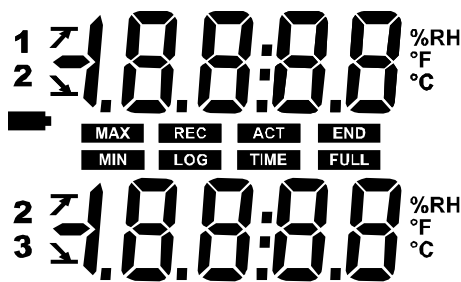
You can stop your dataset :

- According to a date and time (if it was started the same way)
- According to a period
- According to 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 if this function has been previously activated by the software.

## SIZE (in mm)



## DISPLAY



°C.. Temperature in degree Celsius  
 °F.. Temperature in degree Fahrenheit  
 %RH...Relative Humidity  
 ppm : concentration of CO<sub>2</sub> in ppm

**END**

Dataset is finished

**REC**

One value is being recording

**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

**ACT**

Refresh of displayed measurement

**TIME**

Display of measurement and recording intervals



Low battery indicator

**MIN**

Displayed values correspond to maximum and minimum values of the channels

**MAX**

**12**  
**23**

Channel No. which is measuring



Alarm action type : rising or falling action

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## SOFTWARE

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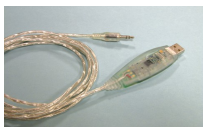


- Configuration and data processing software **KILOG** software enables you to configure, save and process your data in a very simple way.
- Software..... Ref. *KILOG-N*
- USB interface..... Ref. *I-KIC2*
- Complete set : software + 1 interface..... Ref. *KIC2 KILOG*



### • **KILOG CFR software**

KILOG CFR software is the key tool for users who requires traceability, in accordance with 21CFR-Part11 standards. Security and integrity of data are guaranteed : it is not possible to modify or tamper with the data.



### • **KISTOCK-PC interface**

This USB cable enables you to connect your KISTOCK to your PC..  
Ref. *I-KIC2*

- Interface.....Ref. *I-KIC2*
- Complete kit : KILOG 1CFR software + 1 interface...Ref. *KIC2-CFR-N*



Software is compatible with the former range of Kistock.

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## ACCESSORIES

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### • **KNT 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*

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## CALIBRATION

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

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## WARRANTY PERIOD

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

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## PERFORM A CONTROL OF THE KTH-CO2-E

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Follow this procedure to perform a control of the KTH-CO2-E :

- > Connect the KTH-CO2-E to the kilog software to set the atmospheric pressure.
- > Launch a dataset with a 15 s measurements frequency.
- > Unscrew the screw on the right side of the datalogger.
- > Connect a bottle of CO<sub>2</sub> standard gas on the pressure connection of the KTH-CO2 with the supplied silicone tube.
- > Generate a gas flow of 30l/h.
- > Wait for the stabilisation of the measurement, about 3 minutes for an optimum stabilisation
- > Read the values indicated by the KTH-CO2-E.

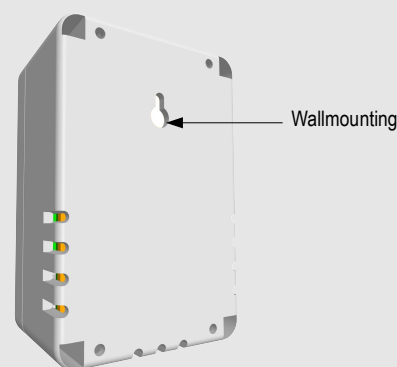


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## FIXATION

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With its fixing system by wallmounting,, it is possible to transport or fix the Kistock KTH-CO2-E easily.



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## PRECAUTIONS FOR USE

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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.

[www.kimo.fr](http://www.kimo.fr)

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**EXPORT DEPARTMENT**

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