

Technical Data Sheet

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

KISTOCK DATALOGGER KT 320 / KTT 320

CE

Temperature / Humidity / Voltage/ Current / Impulsion

KEY POINTS

- Software for configuration and data visualisation freely downloadable
- Software for configuration and data processing available in option
- Safety lock wall mount with inviolability system
- Storage capacity of 2 000 000 points
- Fast data downloading: 18 000 points/s
- Up to 5 recordable parameters simultaneously
- 2 configurable setpoint alarms for each channel
- 2 lines LCD screen
- Bluetooth® communication for smartphones and tablets (Android and IOS)
- Magnetic mounting
- IP65 (KT 320) protection





REFERENCES

Device reference	Display	Internal sensor		External sensor			Number of
		Number	Туре	Number	Туре	Parameters	record points
KT 320	Yes	1	Temperature	2	Input for SMART PLUG* probes	Temperature, humidity, current, voltage, impulsion	2 000 000
KTT 320		-		4	Input for thermocouple probes	Temperature	2 000 000

^{*} Input which allows to plug different compatible SMART PLUG probes: see optional probes and cables page 5.

HOUSING

Dimensions

110.2 x 79 x 35.4 mm

Weight

KT 320: 206 g KTT 320: 200 g

Display

2 lines LCD screen

Dimensions of screen: 49.5 x 45 mm 2 indication LEDs (red and green)

Control

1 OK key 1 Selection key

Material

Compatible with food industry environment ABS housing

Battery power supply

2 lithium double AA 3.6 V batteries

Protection

IP65: KT 320.

PC communication

1 micro-USB input

Environmental conditions of use

Air and neutral gases

Hygrometry: from 0 to 95 %RH Maximum altitude: 2000 m

	KT 320	KTT 320			
Parameter	Temperature, humidity, current, voltage, impulsion	Temperature			
Units displayed¹	°C, °F, °Ctd, °Ftd, %RH, mV, V, mA, A Programmed units: please see the class 320 KISTOCK user manual. Free units: for the free units creation, please see the KILOG software user manual.	°C, °F			
Resolution	0.1 °C, 0.1 °F, 0.1 %RH, 1 mV, 0.001 V, 0.001 mA, 0.1 A	0.1 °C, 0.1 °F			
External input	Micro-USB female connector				
Input for probe	2 SMART PLUG ² inputs	4 inputs for thermocouple probes (K, J, T, N, S)			
Internal sensor	Temperature	-			
Type of sensor	NTC	Thermocouple			
Measuring range	From -40 to +70 °C	K: from -200 to +1300 °C J: from -100 to +750 °C T: from -200 to +400 °C N: from -200 to +1300 °C S: from 0 to 1760 °C			
Accuracies ³	±0.4 °C (-20 °C <t<+70 °c)<br="">±0.8 °C (beyond)</t<+70>	K, J, T, N: From -200 to 0 °C: ± 0.4 °C ± 0.3 % of the reading From 0 to 1300 °C: ± 0.4 °C S: ± 0.6 °C			
Setpoints alarms	2 setpoint alarms on each channel				
Frequency of measurement	From 1 second to 24 hours				
Working temperature	From -40 to +70 °C	From -20 to 70 °C			
Storage temperature	From -40 to +85 °C				
Battery life	7 years ⁴				
European directives	2011/65EU RoHS II; 2012/19/EU WEEE; 2004/108/EC EMC; 2006/95/EC				

CONNECTIONS

KT 320: 2 mini-DIN connections



KTT 320: 4 mini-thermocouples connections



PC connection



¹ Some units are available only with optional probes.
² Input which allows to plug different compatible probes: see optional probes and cables page 3.

³ 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.

⁴ On the basis of 1 measurement each 15 minutes at 25 °C.

RECORDER FUNCTIONS

5 recording modes

KISTOCK can record in 5 different ways:

- "Immediate" mode records values according to 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).

4 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.

6 types of dataset stop

You can stop your dataset :

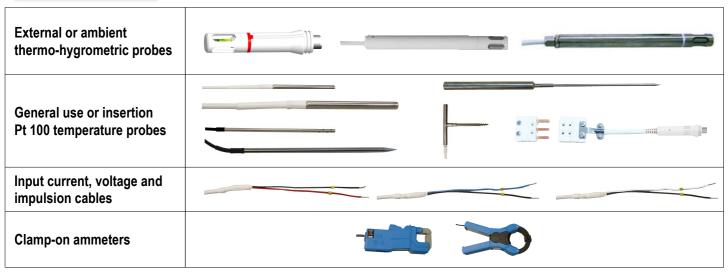
- According to a date and time (if it was started the same way)
- According to a period
- According to a predefined number of recording points
- Once the storage capacity is full
- With "Stop" option of the software
- By holding "OK" key during 5 seconds, if this function has been previously activated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

KT 320 KT 320 KTT 320

OPTIONAL PROBES AND CABLES¹

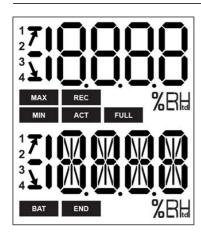


All the probes for the **KT 320** KISTOCK have the **SMART PLUG** technology. An automatic recognition and the adjustment parameters storage make them 100 % interchangeable.



All the thermocouple temperature probes for the **KTT 320** KISTOCK have a class 1 sensitive element as per IEC 584-1, 2 and 3 standards





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.

BAT Constant: indicates that the batteries have to be replaced.

ACT Screen actualisation of measured values.

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

Indicates the alarm action type: rising or falling action.

F Temperature in °Fahrenheit .

Temperature in °Celsius.

RH Relative humidity

Indicates the channel number which ismeasuring.

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SOFTWARE



KILOG LITE: free software to download on the KIMO website (kimo.fr).
 Allows the data download (graphics and points statement) and the datalogger configuration.



- Configuration and data processing software
 KILOG software allows to configure, save and process your data in a very simple way.
- Software only: Ref. KILOG-3-N
- Complete set: software + 1 USB cable, Ref. KIC-3-N

SAFETY LOCK WALL MOUNT WITH PADLOCK



The system allows to secure your KISTOCK datalogger on sensitive sites.



- > Mount the safety lock support on the required place.
- 1. Present the KISTOCK datalogger on the support starting with the inferior part
- 2. Clip the KISTOCK on the support by falling back the superior part
- 3. Insert the padlock to ensure the safety lock function



The padlock can be replaced by a fail-safe sealed



The datalogger can be placed on the screw-mount without the safety lock function

> To remove the datalogger from the support, proceed on reverse order.

MOUNTING

The KISTOCK class 320 have a magnetic mounting, so you can fix it easily.



REPLACE THE BATTERIES



With 7 years* of battery life, the KISTOCK devices guarantee long-term measurements.

To replace the batteries:

- Unscrew the screw on the back side of the KISTOCK, on the battery hatch, with a cross-headed screwdriver.
- > Remove the hatch and the old batteries.
- Insert the new batteries and respect the polarity.
- Replace the battery hatch and screw it.
- * On the basis of 1 measurement each 15 minutes at 25 °C.

ACCESSORIES

Accessories	Part numbers	Illustrations
1 AA lithium 3.6 V battery (2 batteries are required for class 320 dataloggers)	KBL-AA	
Safety lock wall mount with padlock	KAV-320	
Wired extension for class 320 KISTOCK probes In polyurethane, 5 m length with male and female mini-DIN connectors Note: several extensions can be wired in order to obtain up to 25 m cable length	KIRGB-5	
Data collector Collects up to 20 000 000 points from one or several KISTOCK directly on-site Results restitution on PC of realised datasets	KNT-320	
USB micro-USB cable which allows to plug your KISTOCK datalogger to your PC	CK-50	D
Neck size hand strap	KDC	



Only the accessories supplied with the device must be used.

CALIBRATION

A calibration certificate is available as option in paper format.

We recommend to carry out a yearly checking.

MAINTENANCE

Please avoid any aggressive solvent.

Please protect the device and probes from any cleaning produce containing formalin, that may be used for cleaning rooms and ducts.

GUARANTEE PERIOD

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

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 precautionary measures indicated.



Once returned to KIMO, required waste collection will be assured in the respect of the environment in accordance to guidelines relating to WEEE.

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