





USER MANUAL



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1.1 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.

1.2 Symbols used

For your safety and in order to avoid any damage of the device, please follow the procedure described in this user manual and read carefully the notes preceded by the following symbol:

The following symbol will also be used in this user manual: Please read carefully the information notes indicated after this symbol.

1.3 Directive 2014/53/EU

Hereby, Sauermann Industrie SAS declares that the radio equipment type Kistock 320 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.sauermanngroup.com



2 Presentation of the device

2.1 Use

The **KISTOCK** class 320 dataloggers allow the measurement of several parameters:

- KT 320: internal measurement of temperature with two universal inputs for probe
- KCC 320: internal measurement of temperature, humidity, atmospheric pressure and CO₂
- KP 320 KP 321: internal measurement of differential pressure with two measuring ranges
- KPA 320: internal measurement of temperature, hygrometry and atmospheric pressure
- KTT 320: model with four thermocouple inputs

Communication between device and PC is carried out with a USB cable with a micro-USB female connector.

The low-energy wireless connection (possibility to deactivate this function) allows to communicate with smartphones and tablets, working with Android and IOS.

2.2 Applications

The **KISTOCK** dataloggers are ideal for different parameters surveillance (temperature, hygrometry, light, current, voltage, impulsion, relative pressure...). They ensure the traceability in the food industry environment as well as they validate the proper functioning of industrial installations.







2.3 References

Device	Display	In	ternal sensors	Exte	ernal sensors	D (Number of		
reference		reference		Туре	Numbe r	Туре	Parameters	recording points	
KT 320		1	Temperature	2 Inputs for SMART PLUG* probes - 4 Inputs for thermocouple probes		Temperature, hygrometry, current, voltage, impulsion			
KCC 320		4	Temperature, hygrometry, atmospheric pressure, CO ₂			Temperature, hygrometry, atmospheric pressure, CO ₂			
KP 320 KP 321	Yes	1	Differential pressure			-	-	Differential pressure	2 000 000
KPA 320		3	Temperature, hygrometry, atmospheric pressure			Temperature, hygrometry, atmospheric pressure			
KTT 320			-			Temperature			

* Input which allows to plug different compatible SMART PLUG probes: see optional probes and cables page 10.

2.4 Description of the device



2.5 Description of keys

OK key: allows to start or stop the dataset or change of scrolling group, see page 13.

• Selection key: allows the functions scroll, see page 13.

2.6 Description of LEDs



2.7 Connections

The communication between the device and the computer is carried out via an USB cable and with the female micro-USB connector.



Micro-USB connector

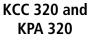
KT 320: 2 mini-DIN connections





KP 320 and KP 321: 2



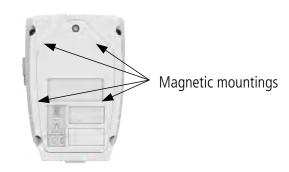


KTT 320: 4 mini-thermocouple connections



2.8 Mounting

The class 320 KISTOCK has magnetic mountings, so you can fix it easily.



Presentation of the device

3 Technical features

3.1 Technical features of the devices

	KT 320	КТТ 320		
Units displayed	°C, °F, °Ctd, °Ftd, %RH, mV, V, mA, A Programmed and free units are also available ¹ (see table page 9)	°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	Female micr	o-USB 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	CTN	Thermocouple		
Measuring range	Measuring range of the internal sensor ³ : 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		
Accuracy⁴	±0.4°C from -20 to 70°C ±0.8°C below -20°C	K, J, T, N: ± 0.4 °C from 0 to 1300°C $\pm (0.3\% \text{ of the reading } +0.4$ °C) below 0°C S: ± 0.6 °C		
Setpoints alarm	2 setpoint aları	ms on each channel		
Frequency of measurements	From 1 second to 24 hours			
Operating temperature	From -40 to +70°C	From -20 to 70°C		
Storage temperature	From -40 to +85°C			
Battery life	7 years⁵			
European directives	uropean directives 2011/65EU RoHS II; 2012/19/EU WEEE; 2014/30/EU EMC; 2014/35/EU			

³ Other measuring ranges are available according to the connected probe: see optional probes and cables page 10.

⁴ 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.

⁵ On the basis of 1 measurement each 15 minutes at 25°C.

¹ Some units are available only with optional probes. ² Input which allows to plug different SMART PLUG compatible probes: see optional probes and cables page 10.

	КСС 320	KPA 320				
Units displayed °C, °F, %RH, hPa, ppm		°C, °F, %RH, hPa				
Resolution 0.1°C, 1 ppm, 0.1%RH, 1 hPa		0.1°C, 0.1%RH, 1hPa				
External input	Micro-USB female connector					
Input for probe	-	-				
Internal sensor	Hygrometry, temperature, atmospheric pressure, CO ₂	Hygrometry, temperature, atmospheric pressure				
Tolerated overpressure	-	1260 hPa				
Type of sensor	<u>Temperature and hygrometry:</u> capacitive <u>Atmospheric pressure:</u> piezo-resistive <u>CO₂:</u> NDIR	Temperature and hygrometry: cpacitive Atmospheric pressure: piezo-resistive				
Measuring range	<u>Temperature:</u> from -20 to 70°C <u>Hygrometry:</u> from 0 to 100%RH <u>Atmospheric pressure:</u> from 800 to 1100 hPa <u>CO₂:</u> from 0 to 5000 ppm	<u>Temperature:</u> from -20 to 70°C <u>Hygrometry:</u> from 0 to 100%RH <u>Atmospheric pressure:</u> from 800 to 1100 hPa				
	Temperature: ±0.4°C from 0 to 50°C ±0.8°C below 0°C or above 50°C Humidity**: ±2%RH	Temperature: ±0.4°C from 0 to 50°C ±0.8°C below 0°C or above 50°C				
Accuracy*	from 5 to 95%, 15 to 25°C	<u>Humidity**:</u> ±2%RH from 5 to 95%, 15 to 25°C				
	Atm. pressure: $\pm 3 \text{ hPa}$ <u>CO2</u> : $\pm 50 \text{ ppm} \pm 3\%$ of the reading	<u>Atm. pressure:</u> ±3 hPa				
Setpoints alarm	2 setpoint alarms on each channel					
Frequency of measurements	From 1 minute to 24 hours (15 sec in on-line mode)	From 1 second to 24 hours				
Operating temperature	From 0 to +50°C					
Storage temperature From -40 to +85°C		-0 to +85°C				
Battery life	3 years***	7 years***				
European directives	2011/65EU RoHS II; 2012/19/EU \	WEEE; 2014/30/EU EMC; 2014/35/EU				

* 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.

** Factory calibration uncertainty: ±0.88%RH. Temperature dependence: ±0.04 x (T-20) %RH (if T<15°C or T>25°C)

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

	KP 320	KP 321	
Units displayed	Pa		
Measuring range	±1000 Pa	±10000 Pa	
Resolution	1	Ра	
Accuracy*	$\pm 0.5\%$ of the reading ± 3 Pa	$\pm 0.5\%$ of the reading ± 30 Pa	
Tolerated overpressure	21 000 Pa	69 000 Pa	
External input	Micro-USB female connector		
Input for probe	nput for probe 2 pressure connections		
Internal sensor	Differentia	al pressure	
Setpoints alarm	2 setpoint alarms	on each channel	
Frequency of measurement	From 1 second to 24 hours		
Operating temperature	From 5 t	o +50°C	
Storage temperature	From -40 to 85°C		
Battery life	7 years**		
European directives 2011/65EU RoHS II; 2012/19/EU WEEE; 2014/30/EU EMC; 2014/35/EU			

* 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.

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

3.2 Programmed units

The available programmed units for the KT 320 and KTT 320 KISTOCK are the following:

• m/s °C • PSI mmHg °Ctd • mΑ tr/ ppm °F °Ftd fpm Ра mbar А min %HR °Ctw m³/s mmH_2O g/Kg mν • rpm Κ °Ftw V • inWg bar • kPa hPa kj/kg Ηz • daPa

3.3 Free units

For the free units creation, please see the **KILOG software** user manual.

3.4 Features of the housing

Dimensions	110.2 x 79 x 35.4 mm
Weight	KT 320, KCC 320, KP 320, KP 321: 206 g. KTT 320 and KPA 320: 200 g.
Display	2 lines LCD screen. Screen size: 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
Protection	IP65: KT 320, KP 320 and KP 321* IP 54: KTT 320** IP40: KCC 320 and KPA 320
PC communication	Micro-USB female connector USB cable
Battery power supply	2 double AA lithium 3.6 V batteries
Environmental conditions of use	Air and neutral gases Hygrometry: en conditions de non-condensation Altitude: 2000 m

* With the pressure connectors plugged for KP 320 and KP 321.

** With all the thermocouple probes connected.

3.5 Features of optional probes



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

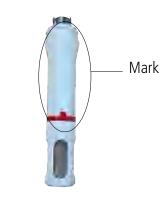
Reference	Description	Measuring range			
External or ambient t	hermo-hygrometric probes				
KITHA	Interchangeable hygrometry and ambient temperature probe	Hygrometry: from 0 to 100%HR			
KITHP-130	Remote interchangeable hygrometry and temperature probe	Temperature: from -20 to +70°C			
KITHI-150	Remote interchangeable hygrometry and temperature probe	Hygrometry: from 0 to 100%HR Temperature: from -40 to +180°C			
General use or insert	ion Pt 100 temperature probes				
KIRGA-50 / KIRGA- 150	IP65 immersion probe (50 or 150 mm)	From -40 to +120°C			
KIRAM-150	Ambient probe 150 mm				
KIRPA-150	Penetration probe IP65				
KIPI3-150-E	IP68 penetration probe with handle	From -50 to +250°C			
KITI3-100-E	IP68 penetration probe with T-handle				
KITBI3-100-E	IP68 penetration probe with corkscrew handle				
KIRV-320	Velcro probe	From -20 to +90°C			
KICA-320	Smart adapter for Pt100 probe	From -200 to +600°C according to the probe			
Input current, voltage	e and impulsion cables				
KICT	Voltage input cable	0-5 V or 0-10 V			
KICC	Current input cable	0-20 mA or 4-20 mA			
KICI	Pulse input cable	Maximal voltage: 5 V Type of input: TTL frequency counting Maximal frequency: 10 kHz Maximum number of recordable points: 20 000 points			
Clamp-on ammeters					
KIPID-50	Ammeter clamp from 0 to 50 A, frequency range from 40 to 5000 Hz	From 0 to 50 A _{AC}			
KIPID-100	Ammeter clamp from 0 to 100 A, frequency range from 40 to 5000 Hz	From 1 to 100 A _{AC}			
KIPID-200	Ammeter clamp from 0 to 200 A, frequency range from 40 to 5000 Hz	From 1 to 200 A _{AC}			
KIPID-600	IPID-600 Ammeter clamp from 0 to 600 A, frequency range from 40 to 5000 Hz From 1 to 600 A _{AC}				
Thermocouple probe					
and 3 standards.	temperature probes for the KTT 320 KISTOCK have a class 1 set at the available thermocouple probes, please see the "Thermoco				

For more details, please see the "Measuring probes for KT 320 KISTOCK" and "Thermocouple probes" datasheets.

Connect a probe:

- > Open the mini-DIN connection cap on the bottom of the KISTOCK.
- > Connect the probe in such a way the mark on the probe is in front of the user.

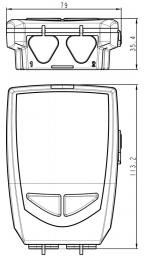


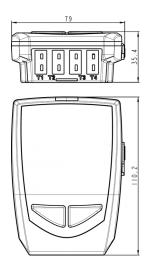


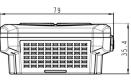


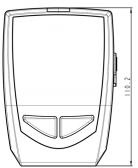
3.6 Dimensions (in mm)

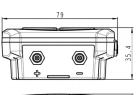
3.6.1 Devices

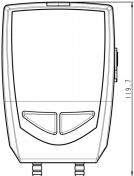












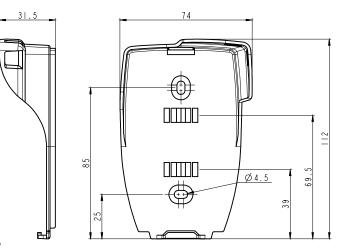
KT 320

KTT 320

KCC 320 / KPA 320

KP 320 / KP 321

3.6.2 Wall mount (in option)

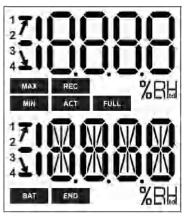


3.7 Guarantee period

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

4 Use of the device

4.1 Display



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.

Indication of the direction of exceeding the threshold in the recorded measurement

- 1 2 Indicates the channel number which is
- 3 measuring.4

Temperature in °Celsius.

• Temperature in °Fahrenheit .

%RH *Relative humidity*

MIN

MAX

The selected values to display during the configuration with the KILOG software will scroll on the screen every 3 seconds.

The display can be activated or deactivated via the KILOG software.

At extreme temperatures, the display can become hardly readable and its display speed can slow down at temperatures below 0°C. This has no incidence on the measurement accuracy.

4.2 Function of LEDs



Alarm LED

If the red "Alarm" LED has been activated, it has 3 states:

- Always OFF: no setpoint alarms has been exceeded
- Flashing quickly (5 seconds): a threshold is currently exceeded on one channel at least
- Flashing slowly (15 seconds): at least one threshold has been exceeded during the dataset

If the green **"ON"** LED has been activated, it flashes every 10 seconds during the recording period.

4.3 Function of keys

ОК

Ð

OK key: allows to start, stop the dataset or change of scrolling group like described in the following tables.

Selection key: allows the scroll values in the scrolling group like described in the following tables.

Device state	Type of start/stop selected	Key used	Action generated	Illustration
	Start: by button	ок During 5 seconds	Start of dataset	S seconds
	Stop: indifferent		Inactive	
Waiting for start	Start: by PC, date/time	ОК	Inactive	
flashes	Stop: indifferent		Inactive	
	Start: indifferent Stop: indifferent	Ø	Measurements scroll (group 1)*	232 * * * * * * * * * * * * * * * * * *
Dataset in progress	Start: indifferent Stop: by button	During 5 seconds	Stop of the dataset	КСССС КССССС 5 seconds
REC	Start: indifferent Stop: indifferent	ОК	Group change (groups 2 and 3)*	

* Please see the summary table of the groups organisation page 15.

Device state	Type of start/stop selected	Key used	Action generated	Illustration
	Start: indifferent Stop: indifferent	Q	Group scrolling (groups 1, 2 and 3)*	HSH ic; ic; ic; ic; ic; ic; ic; ic;
Dataset finished	Indifferent	ок	Inactive	
END	Indifferent	Ø	Measurements scroll*	

* Please see the summary table of the groups organisation on the following page.

4.3.1 Groups organisation

The table below summarises the groups organisation and measured values available during a measurement dataset.

ОК

ОК

Group 1	Group 2	Group 3
Measured temperature*	Max. value in temperature Min. value in temperature	High alarm threshold in temperature Low alarm threshold in temperature
Measured hygrometry*	Max. value in hygrometry Min. value in hygrometry	High alarm threshold in hygrometry Low alarm threshold in hygrometry
Measured CO ₂ *	Max. value in CO_2 Min. value in CO_2	High alarm threshold in CO_2 Low alarm threshold in CO_2
Measured differential pressure*	Max. value in differential pressure Min. value in differential pressure	High alarm threshold in differential pressure Low alarm threshold in differential pressure
Measured atmospheric pressure*	Max. value in atmospheric pressure Min. value in atmospheric pressure	High alarm threshold in atmospheric pressure Low alarm threshold in atmospheric pressure
Parameter 1 of probe 1*	Max. value in Parameter 1 of probe 1 Min. value in Parameter 1 of probe 1	High alarm threshold in Parameter 1 of probe 1 Low alarm threshold in Parameter 1 of probe 1
Parameter 2 of probe 1*	Max. value in Parameter 2 of probe 1 Min. value in Parameter 2 of probe 1	High alarm threshold in Parameter 2 of probe 1 Low alarm threshold in Parameter 2 of probe 1
Parameter 1 of probe 2*	Max. value in Parameter 1 of probe 2 Min. value in Parameter 1 of probe 2	High alarm threshold in Parameter 1 of probe 2 Low alarm threshold in Parameter 1 of probe 2
Parameter 2 of probe 2*	Max. value in Parameter 2 of probe 2 Min. value in Parameter 2 of probe 2	High alarm threshold in Parameter 2 of probe 2 Low alarm threshold in Parameter 2 of probe 2

Press key to change of group.

Press very key to scroll values in the group.

4.3.2 Measurements scroll

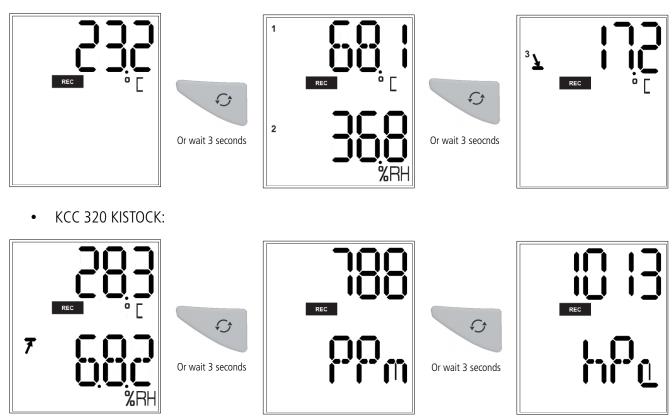
According to the selected parameters during the configuration and according to the type of device, the measurement scroll is carried out like following:

Temperature * \implies Hygrometry * \implies CO₂ * \implies Differential pressure * \implies Atmospheric pressure * \implies Parameter 1 probe 1* \implies Parameter 2 probe 1* \implies Parameter 1 probe 2* \implies Parameter 2 probe 2*

^{*} Parameters available according to the device and probe type

Examples:

• KT 320 KISTOCK with a thermo-hygrometric probe (channel 1) and a temperature probe (channel 2):



The measurements scroll can be carried out by pressing the "Select" button of the datalogger or wait about 3 seconds and the display scrolls automatically.

4.4 PC communication

- > Insert the CD-ROM in the reader and follow the installation procedure of the **KILOG** software.
- 1. Plug the male USB connector of the cable to an USB connection on your computer*.
- 2. Open the USB cap on the right side of the datalogger.
- 3. Connect the male micro-USB connector of the cable to the female micro-USB connector of the device.







4.5 Configuration, datalogger download and data processing with the KILOG software

Please see the KILOG software user manual: "KILOG-classes-50-120-220-320".



The date and time updates automatically when a new configuration is loaded.

*The computer must be in compliance with the IEC60950 standard.

5 Wireless connection function

Kistocks of the class 320 has the wireless connection function allowing to communicate with a smartphone or a tablet (Android or iOS) via the Kilog Mobile application.

The Kistock is named **"Kistock 320"** in the list of available devices of the tablet or smartphone.

By default, the wireless connection is disabled on class 320 Kistocks. Please see the Kilog software applications user manuals to enable it.

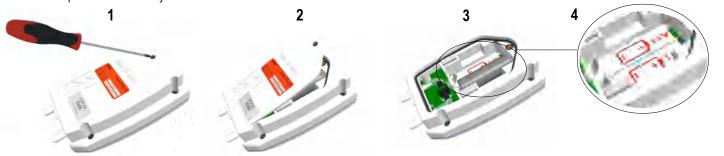
6 Maintenance

6.1 Replace the batteries 🦯

With a 3 to 7 years battery life*, the KISTOCK guarantees long-term measurement.

To replace batteries:

- 1. Unscrew the unlosable screw on the battery hatch on the backside of the KISTOCK with a cross-head screwdriver.
- 2. The battery hatch opens. Remove the old batteries.
- 3. Insert the new batteries and check the polarity.
- 4. Replace the battery hatch and screw it.



Only use trademark or high quality batteries in order to guarantee the announced autonomy.

After the battery replacement, the device must be reconfigured.

6.2 Device cleaning

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.

6.3 Safety lock wall mount with padlock

- > 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



To remove the datalogger from the support, proceed on reverse

The padlock can be replaced by a fail-safe sealed

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

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

7 Calibration

A calibration certificate is available as option under paper format. We recommend to carry out a yearly checking.

7.1 KCC 320: perform a CO₂ measurement verification

To avoid potential drifts, it is recommended to perform regularly a CO₂ measurement verification.

- Before checking the CO₂ measurement, verify the atmospheric pressure values measured by the device: launch a dataset, or press the strength of the strength of the measurements.
- If the atmospheric pressure values are not compliant, it is possible to carry out a measurement correction with the KILOG software (please see the KILOG software user manual, "Measurement correction" chapter).
- Once the atmospheric pressure checked, verify the CO₂ measurement: launch a dataset, or press the
 "Selection" button to scroll the measurements.
- Connect a bottle of CO₂ standard gas on the gas connection on the back of the KCC 320 device with the supplied Tygon[®] tube.
- ➢ Generate a gas flow of 30 l/h.
- > Wait for the measurement stabilisation (about 2 minutes).
- > Check the CO₂ values measured by the **KCC 320**.
- If these values are not compliant, it is possible to carry out a measurement correction with the **KILOG** software (please see the **KILOG** software user manual, "Measurement correction" chapter).

7.2 KP 320 – KP 321: perform an auto-zero

It is possible to reset the device during a recording dataset:

- > Unplug the pressure tubes of the device.
- Press the G "Selection" button during 5 seconds to carry out the auto-zero.

The instrument resets. The screen displays "..."

Plug the pressure tubes. The device continues the measurements and the dataset recording.

It is possible to reset the device when values are measured but not recorded:

- > Unplug the pressure tubes of the device.
- Press the **Selection** button to display the measurement.

Press the "Selection" button during 5 seconds to carry out the auto-zero.

The instrument resets. The screen displays "..."

Plug the pressure tubes.

The device continues the measurements.



8 Accessories

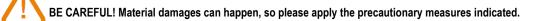
Accessories	References	Illustrations
1 double AA lithium 3.6 V battery	KBL-AA	
Safety lock wall mount with padlock	KAV-320	
Wired extension for class 320 KISTOCK probes In polyurethane, 5 m length with male and female mini-DIN connectors <u>Note:</u> several extensions can be wired in order to obtain up to 25 m cable length	KRB-320	
Configuration and data processing software KILOG software allows to configure, save and process your data in a very simple way.	<u>Software only:</u> KILOG-3-N <u>Complete set</u> (software + 1 USB cable): KIC-3-N	
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	СК-50	\mathcal{O}

(i) Only the accessories supplied with the device must be used.

9 Troubleshooting

Problem	Probable cause and possible solution
No value is displayed, only the icons are present.	The display is configured on "OFF". Configure it on "ON" with the KILOG software (see page 16).
The display is completely off [*] and there is no communication with the computer.	The battery has to be replaced. (see page 17).
The display indicates "" instead of the measured value.	The probe is disconnected. Plug it again to the datalogger.
There is no wireless connection with the datalogger.	The wireless connection activation is on OFF. Reconfigure the wireless connection on ON with the KILOG software (see page 16).

* Only with the KT 320 and KTT 320 KISTOCK.



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