

DATA SHEET

LoRa™



# KT - TrackLog

## LoRa®-Powered Temperature and Humidity Data-Loggers



Easy to use



Data integrity: accuracy and consistency over entire life-cycle



Long-distance connectivity



High relative humidity and temperature accuracy



Power saving solution

### Features

- LoRaWan™ and Bluetooth® protocols
- Memory capacity: 20 000 points
- Interchangeable probes
- 2-line LCD display
- 0.01 resolution
- Real time alarms and alerts
- Safety lock wall mount with inviolability system

### Technical specifications

Parameter	Accuracy*	Measuring range	Resolution
Internal NTC temperature	±0.4°C from 0 to 50°C ±0.8°C below 0°C or above 50°C	From -40 to +70°C	0.01°C / 0.01°F

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

## General features

LoRa® frequency	868 Mhz (Europe)
Display	2-line LCD screen Screen dimensions: 49.5 x 45 mm 2 indication LEDs (red and green)
Type of sensor	NTC
External input	Micro-USB female connector
Input for probes	2x inputs <sup>(1)</sup> for interchangeable probes
Internal sensor	Temperature
Recording frequency	From 1 minute to 24 hours
Power supply	2x lithium AA 3.6 V batteries <sup>(2)</sup>
Battery life	3 years <sup>(3)</sup>
Protection	IP65
Housing material	ABS housing and compatible with food industry environment
Dimensions	110.2 x 79 x 35.4 mm
Weight (batteries included)	206 g
Operating temperature <sup>(4)</sup>	From -40 to +70°C
Storage temperature	From -40 to +75°C
Environmental conditions of use	Air and neutral gases Hygrometry: in non-condensing conditions (<80% HR) Maximum altitude: 2000 m
European Union Directives	2011/65EU RoHS II; 2012/19/EU WEEE; 2014/30/EU EMC; 2014/35/EU

<sup>(1)</sup> Input allowing to interchange probes

<sup>(2)</sup> We recommend to use high performance lithium batteries as SAFT LS 14500 when replaced.

<sup>(3)</sup> On the basis of 1 measurement each for 15 minutes at 25°C.

<sup>(4)</sup> The screen can be hard to read, and its display speed often slows down at temperatures lower than 0°C. This has no effect on the accuracy of measurements.

## Recorder functions

- 4 recording modes: immediate, minimum, maximum and average
- 3 types of dataset starts: by date and time, app (web or mobile) or push-button
- 2 types of dataset stops: by app (web or mobile) or push-button

## Kit content

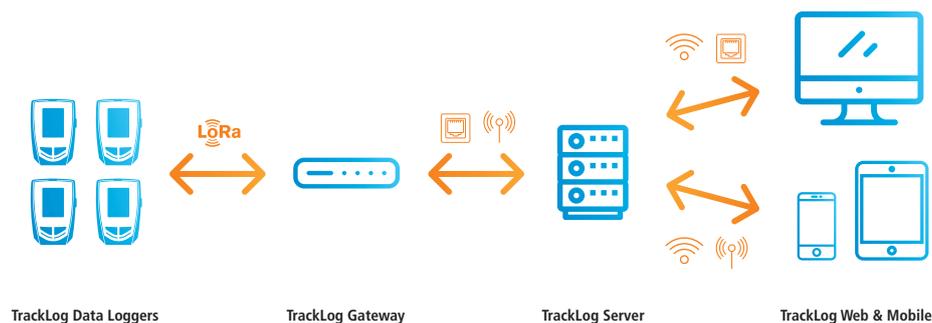
- 1 data logger + 2 batteries + 1 safety lock wall mount with padlock + fixing screws

## Accessories

Name	Ref
Gateway	TrackLog Gateway
Cloud subscription offer	See subscription sheet
Pt100 temperature probes	See specific data sheet
Ambience humidity-temperature probes	See specific data sheet
Caps for humidity probe	See specific data sheet
Calibration certificate	Option
1x AA lithium 3.6 V battery	KBL-AA
Safety lock wall mount with padlock	KAV-320
Wired extension for probes (5 m)	KRB-320
USB cable	CK-50

## What is LoRa® communication?

LoRa® is a physical layer, using radio-frequency bands. LoRa® frequency allows very-long-range connectivity with low power consumption. Data transmitted by an end-node device is received by multiple gateways. Then, each gateway forwards the data packets to a centralized network server.



Source: LoRa® Alliance