

# Black Sensor



**Temperature Monitor**



**Accuracy  $\pm 0.3^{\circ}\text{C}$**



**2-5 Years Battery Life**



**Wireless Connection**



**Plug & Play**

## Temperature & Humidity sensor

The “Black Sensor” is our smallest LoRaWAN sensor, but is capable of sending data up to 8km in clear line of sight

It is used for monitoring conditions internally in refrigeration devices or other equipment, in situations where space is limited.

It is suitable for:

- Temperature Monitoring from  $-25^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$
- Humidity Monitoring from 0-95% RH

## Sensor Type

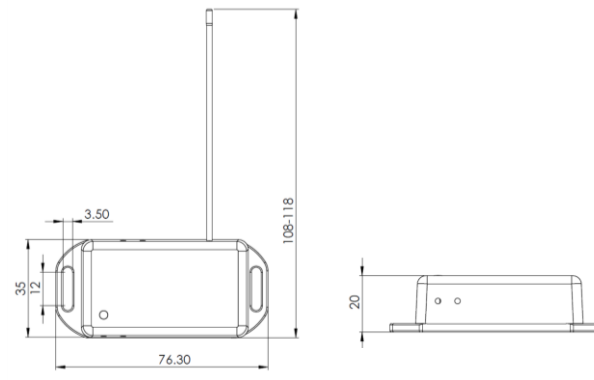
The unit employs the latest digitally compensated semiconductor sensor technology from Sensirion which is calibrated and tested at manufacture and has unparalleled accuracy.

## Calibration

Two levels of calibration are available. All sensors are manufactured with a calibration to achieve the stated accuracy. Additionally sensors can be reference calibrated by KoolZone against a UKAS calibrated sensor.

## Technical Specification

Operating Temperature	Sensor Electronics between -25°C to +50°C & Humidity from 0-95% RH (non-condensing)
Measurement Range	Sensor Probe: -25°C to +50°C
Temperature Accuracy	± 0.3°C
Measurement Resolution	0.1°C
Relative Humidity Accuracy	± 2% RH
Dimensions	60 x 35 x 20mm
Battery Type	Lithium Thionyl Chloride 3.6V ½ AA
Battery Life	2-6 years; 3 years on 10 minute readings with Sensor temperature of 20°C
Radio Signal	LoRaWAN 1.0.2, Certified for use in UK, Europe, USA and other countries (please enquire)
Wireless Distance	Free space range up to 8Km



### Note

Monitoring and alarms are visible through KoolZone's sophisticated monitoring platform on your phone or computer. The sensor probe is not suitable for direct immersion in liquids or use in corrosive environments.

#### Vendor Contact Details

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