

2021

# **UrbSense** Monitoring and Control Solutions



# ABOUT URBSENSE

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We provide affordable monitoring and control solutions to various industries, including Pharmaceutical, Agriculture, Retail, Wine, and Cold Storage.



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**Our sensors are plug and play, and are very easy to install.**

# SIGFOX NETWORK

## Our battery powered sensors make use the Sigfox network.

SigFox is a global IOT network infrastructure that provides affordable, reliable and secure communications to our cloud server ([senseitcloud.co.za](http://senseitcloud.co.za)). This means that our sensors operate without using your site's power and internet connection.

Because it communicates using the Sigfox network, there is **no SIM card** and air time management required on your side. Transmission frequencies can be changed from every 10 minutes, to once a day, where battery life can be extended up to 10 years on a single battery.



# INDUSTRIES

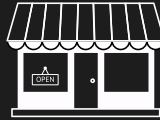
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From farm, to factory, to shop, we provide monitoring solutions for each step of the way.

## Beverage



## Retail



## Pharmaceuticals



## Agriculture



## Transport



## Food

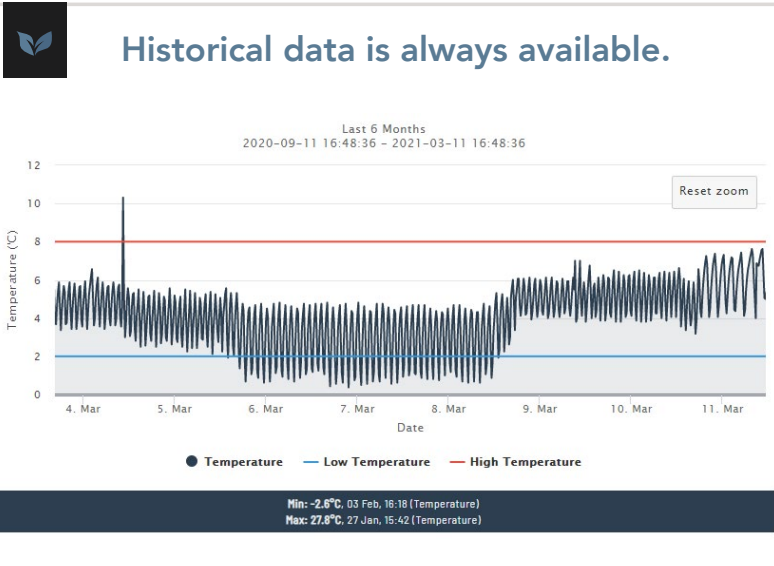


# CLOUD PLATFORM

All readings are stored directly to the cloud.

The dashboard features a top navigation bar with the UrbSense logo, a '+ ADD SENSOR' button, and menu items for 'REPORTS', 'ADMINISTRATION', and 'CAPE DRIED FRUIT'. Below this is a secondary navigation bar with icons for 'FOR YOU', 'FLOORPLANS', 'GAUGES', 'MAP', 'WINERY', and 'OEE'. The main section is titled 'SENSORS' and displays three cards:

- BOILER SENSOR** (ID: 00C14CA8, 34m ago): TEMP 91.1°C, LOW: 70.0, HIGH: 95.0.
- DROOGBAAN KOELKAMER A** (ID: 00C15BE0, 53m ago): TEMP 1.9°C, LOW: 0.0, HIGH: 10.0.
- DROOGBAAN KOELKAMER B** (ID: 00C188BE, 52m ago): TEMP 5.6°C, LOW: 0.0, HIGH: 10.0.



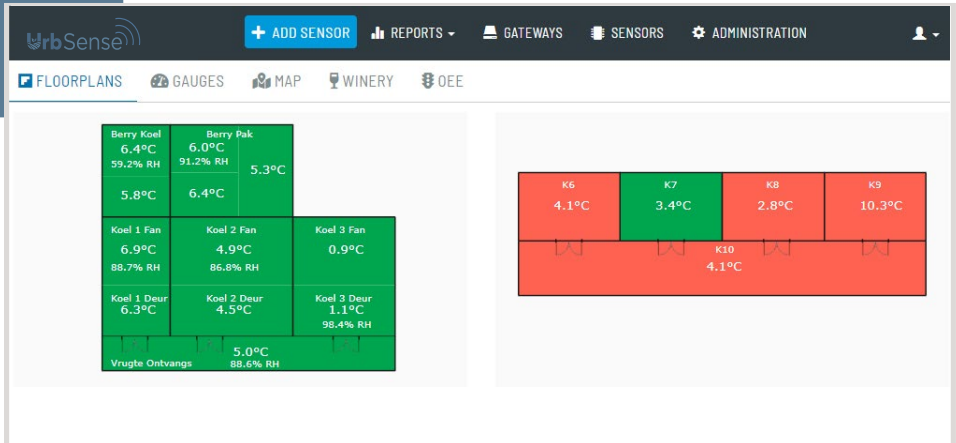
# TEMPERATURE

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**Monitor the temperature in your cold stores, freezers, fridges, water tanks and even electrical motors.**



- Readings are logged directly to our cloud server
- Developed locally, thus supported locally
- Takes defrost cycles into account
- Alerts are sent via WhatsApp and email



A floor plan of each property is designed, highlighting any problem areas.

## TECHNICAL DATA

- **Battery life:** > 4 years
- **Temperature Range:** -55°C to +125°C
- **Temperature Accuracy:**  $\pm 0.1^\circ\text{C}$
- **Dimensions:** 110 x 58 x 30 mm
- **Housing:** IP67
- **Standards:** EN 300-220, EN 301-489, EN 60950, ICASA; CE

# TEMPERATURE & HUMIDITY

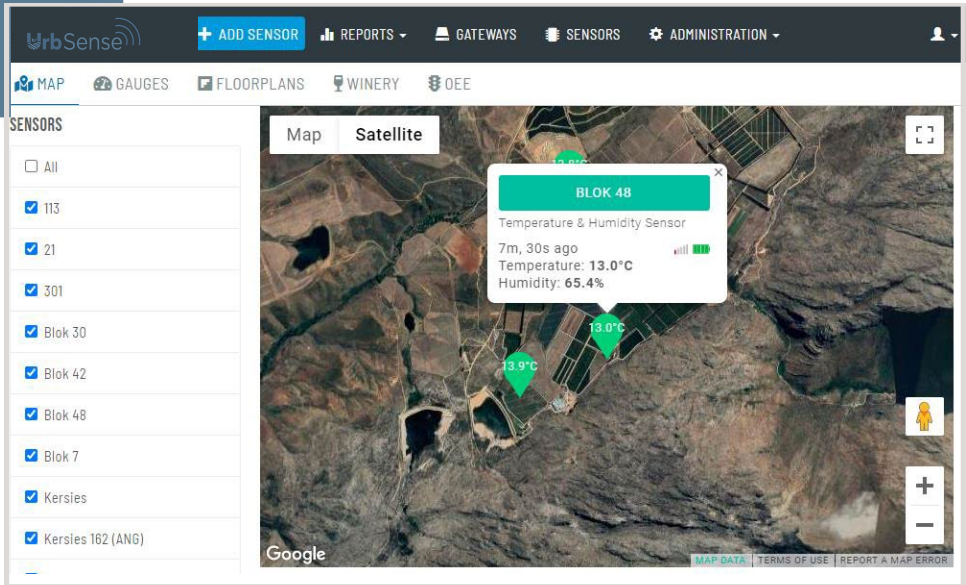
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Monitor the temperature & humidity inside your cold stores, greenhouses or outside in your orchards.



These sensors are a cost effective early warning system for black frost.  
**Optional Solar Radiation Shield to improve accuracy outdoors.**





## TECHNICAL DATA

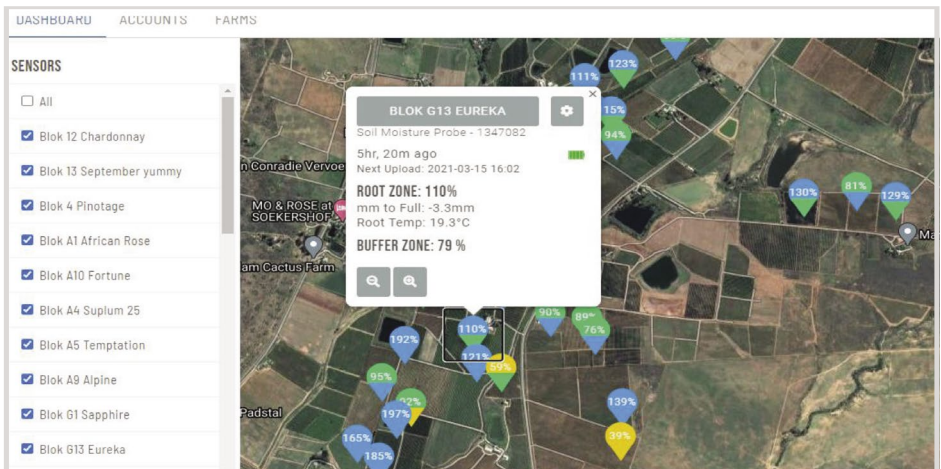
- **Battery life:** > 4 years
- **Temperature Range:** -55°C to +125°C ( $\pm 0.1^\circ\text{C}$ )
- **Humidity Range:** 0 -100% ( $\pm 2\%$ )
- **Dimensions:** 110 x 58 x 30 mm
- **Housing:** IP67
- **Standards:** EN 300-220, EN 301-489, EN 60950, ICASA; CE

# SOIL MOISTURE

Monitor the temperature & humidity inside your cold stores, greenhouses or outside in your orchards.



- Upper and lower levels are easily changed on Sense It Cloud
- Moisture readings can be compared to previous season's readings
- Root and Buffer zones are easily configurable



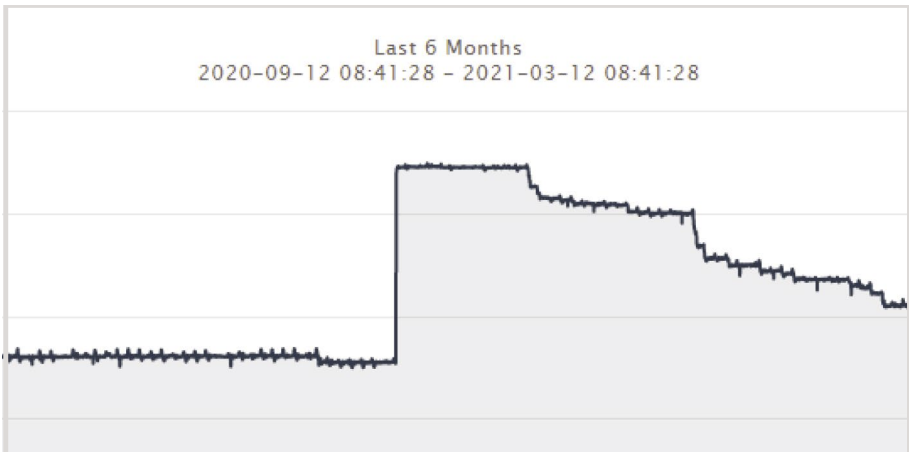
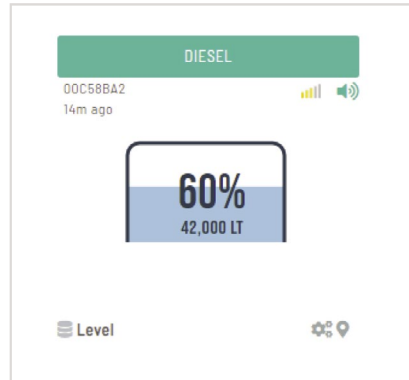


## TECHNICAL DATA

- **Battery life:** > 4 years
- **Housing:** IP67
- **Standards:** EN 300-220, EN 301-489, EN 60950, ICASA; CE

# ULTRA-SONIC LEVEL

Our Sigfox level sensors monitors your fuel and water tank levels so that you can act before it gets too low.



## TECHNICAL DATA

- **Battery life:** > 4 years
- **Measuring Range:** 1m - 10m
- **Dimensions:** 110 x 58 x 30 mm
- **Housing:** IP67
- **Standards:** EN 300-220, EN 301-489, EN 60950, ICASA; CE



MORE INFORMATION FOR YOU



[www.urbancultivation.co.za](http://www.urbancultivation.co.za)



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