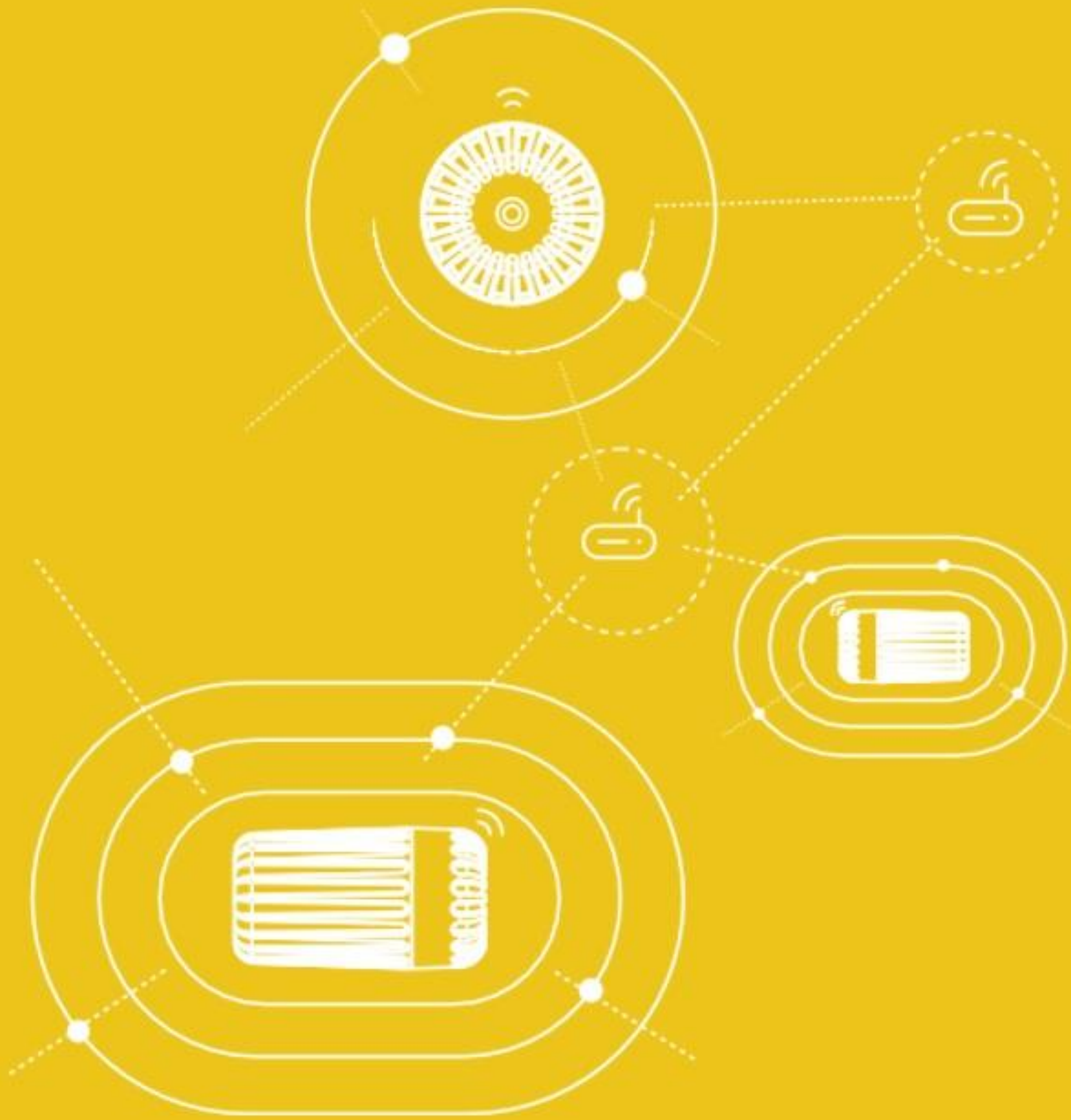


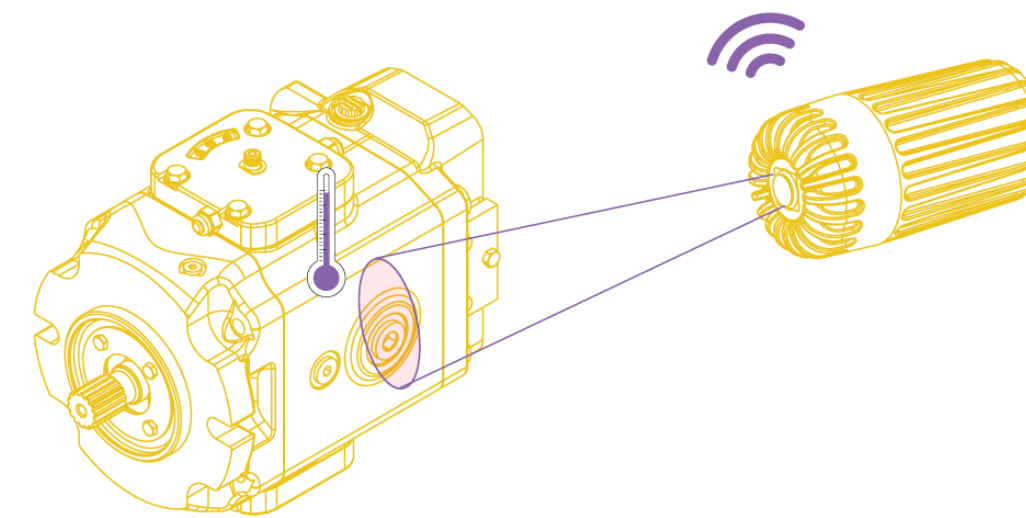


# Sensor Network





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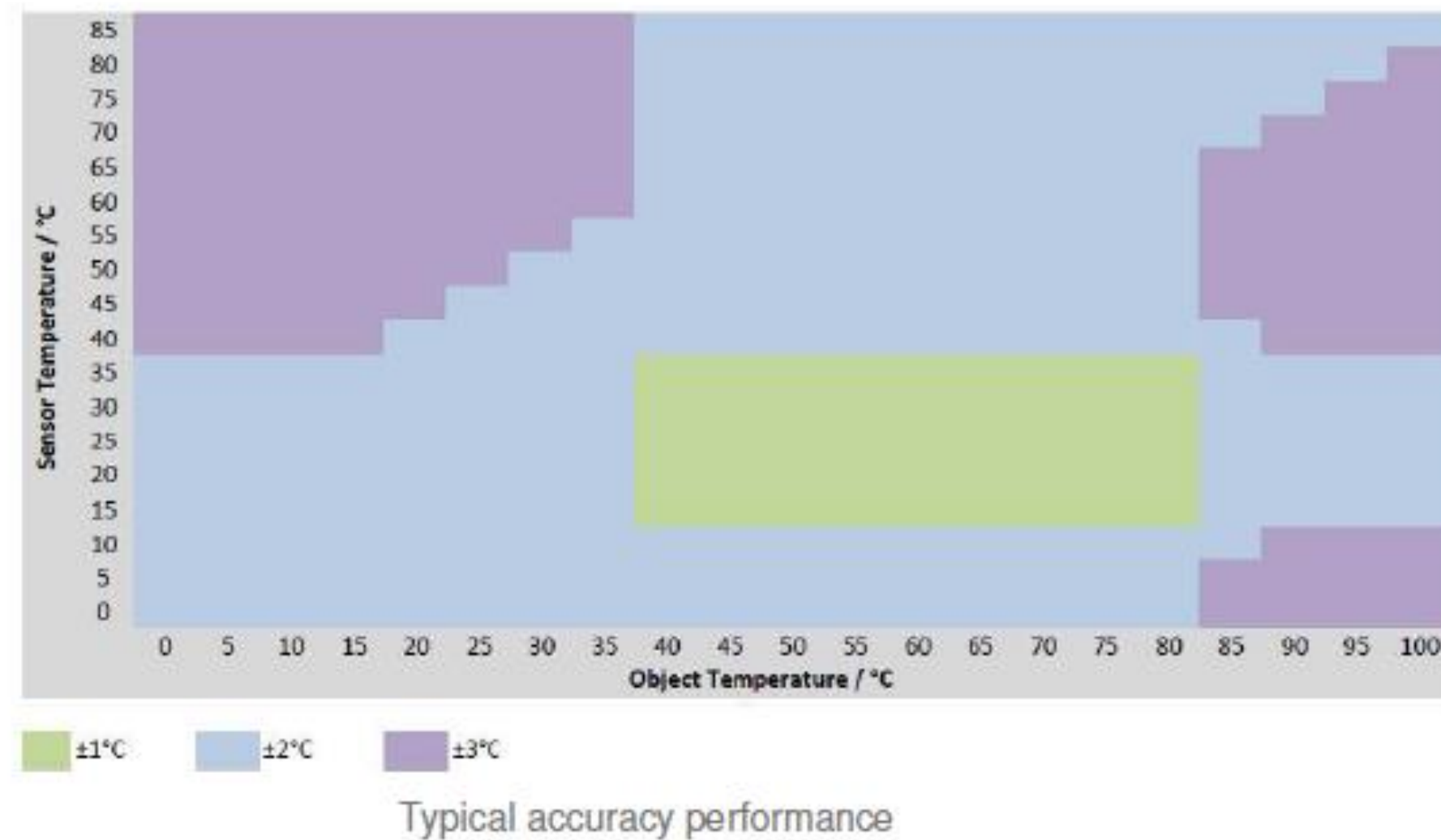
# Sensor and Gateway



 Sensor Network

-  Easy installation process, requiring only pointing the sensor to the object .
-  Waterproof case with 10-year battery life and 10-minute gateway connection period.
-  File server communication 4G or WIFI network
-  This device enables file server communication via 4G or WiFi, allows for up to 50 sensor connections, runs on an internal battery for 10 days, and can function autonomously with a 20W solar panel.




# Accuracy of the Sensors



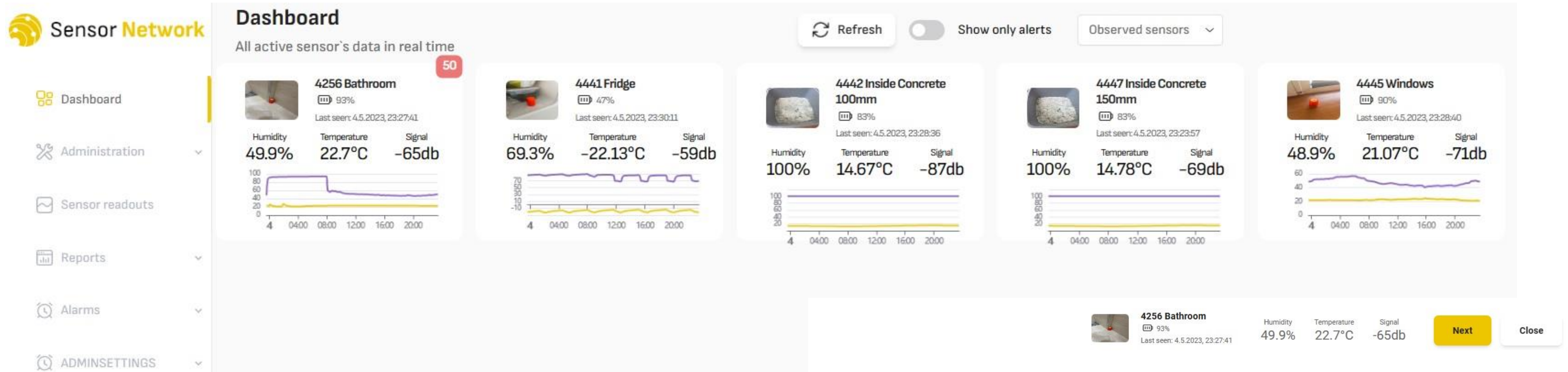
- Accuracy for Infrared +/- 3 Deg Celsius  
range 0-300 Deg Celsius , angle 5 Deg
- Accuracy for temperature +/- 0.1 Deg. Celsius  
range -35 to 85 Deg Celsius

# Technical Specification of the Gateway

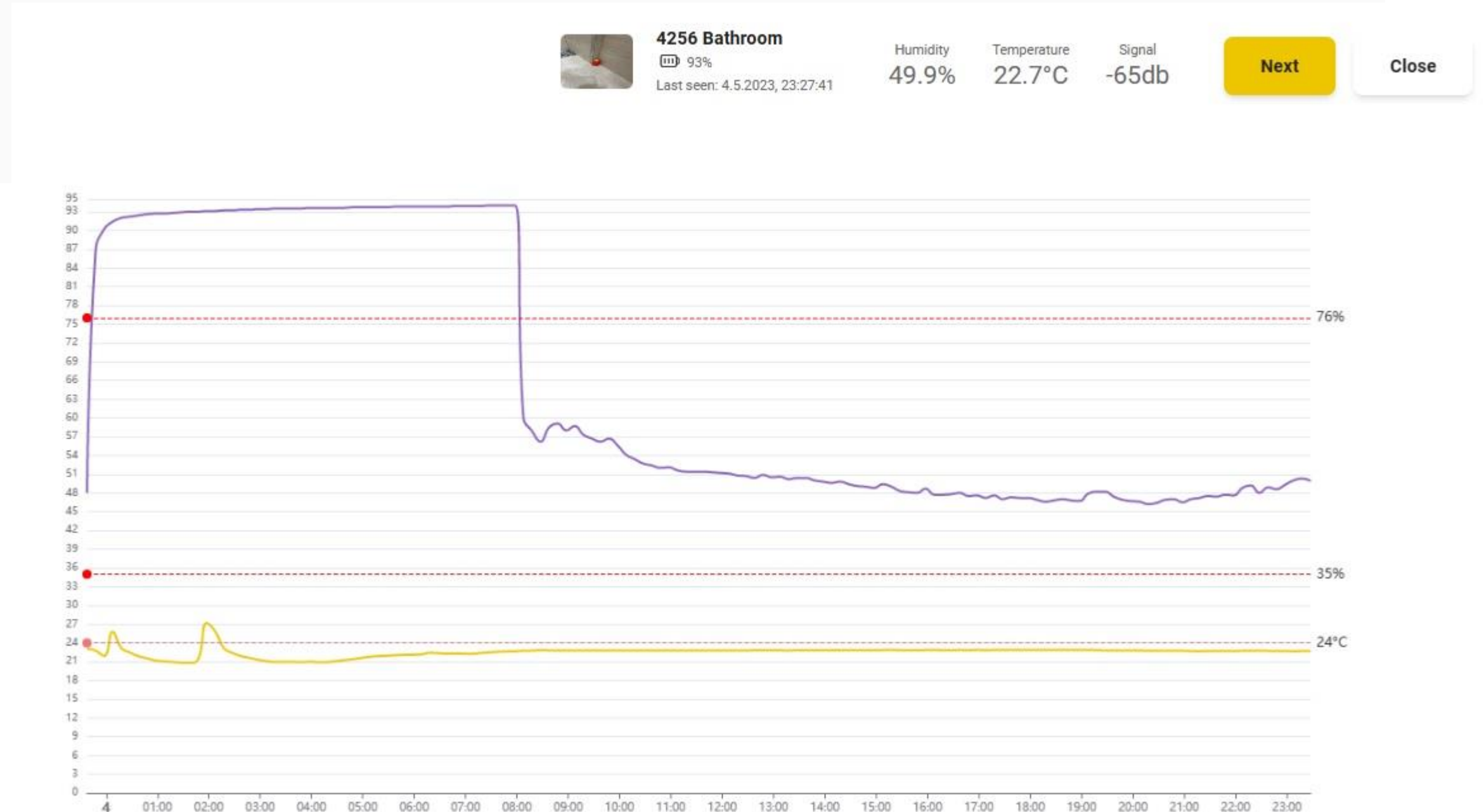
	Parameter	Description
1.	Sensor's frequency communication	868 Mhz
2.	File server communication	4G (APN settings from the Computer or Android App), WIFI 2.4 Ghz ( SSID and Password settings from Computer or Android App
3.	Direct download of stored data.	USB cable locally. The data can be sent to the file server later.
4.	Internal storage.	470000 Hours per unit.

-  Design for outdoor mounting at the rural placers
-  Three models optimized for different applications
-  Different type of antennas for better performance

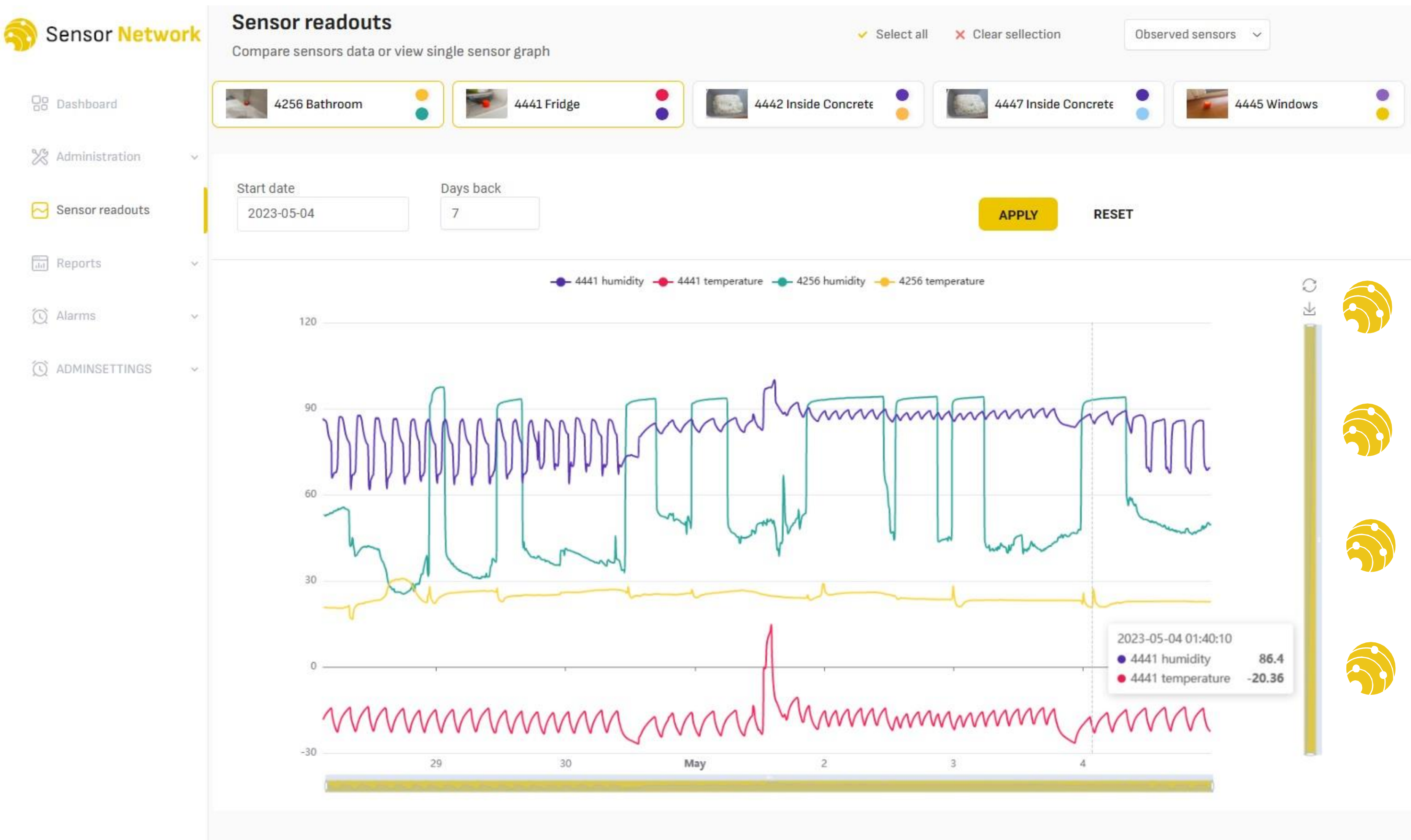
# Dash Board for Live Monitoring



- Live update of the temperature and Infrared values
- Update the display in real-time to reflect changes in signal strength and battery level
- Alerting system with thresholds visualization
- Last seen information



# Multiple Sensors Visualization



Multiple sensor visualization



Export of the data in CSV format



Easy access to the history data



Zoom and download the graphics

# Easy Adjusted Alerting System

The screenshot displays the 'Sensor alarm settings' page for the 'Observed sensors' group. The interface includes a sidebar with navigation options like Dashboard, Administration, Sensor readouts, Reports, Alarms, Sensors Log, Gateways Log, Group settings, Sensor settings, and ADMINSETTINGS. The main content area features a table with columns for 'Sensor name', 'Group', and 'Alarms'. Below the table is a pagination control showing 'Showing 1-5 of 5 rows'. On the right side, there is a settings panel with a toggle for 'Enable Allarms' and sliders for 'Humidity' (35-76), 'Temperature' (-5-24), 'RSSI' (0-100), and 'Battery' (0-100). 'SAVE' and 'CANCEL' buttons are at the bottom of the settings panel.

**Sensor alarm settings**  
Observed sensors

Customize the alarms for single or multi sensors

GROUPS **SENSORS**

<input type="checkbox"/>	Sensor name	Group	Alarms
<input type="checkbox"/>	4256	Observed sensors	
<input type="checkbox"/>	4441	Observed sensors	
<input type="checkbox"/>	4442	Observed sensors	
<input type="checkbox"/>	4447	Observed sensors	
<input type="checkbox"/>	4445	Observed sensors	

« < 1 > »  
Showing 1-5 of 5 rows

**Enable Allarms**

Humidity 0-100%  
35 76

Temperature -50°C - 100°C  
-5 24

RSSI 0-100 db  
0 100

Battery 0-100%  
0 100

**SAVE** **CANCEL**



Easy settings of the alarm thresholds for group and sensors.

# Application of the Solution

- Monitoring of the power lines.
- Monitoring the temperature of different spot at the production line.
- Temperature of the motors and moving elements

