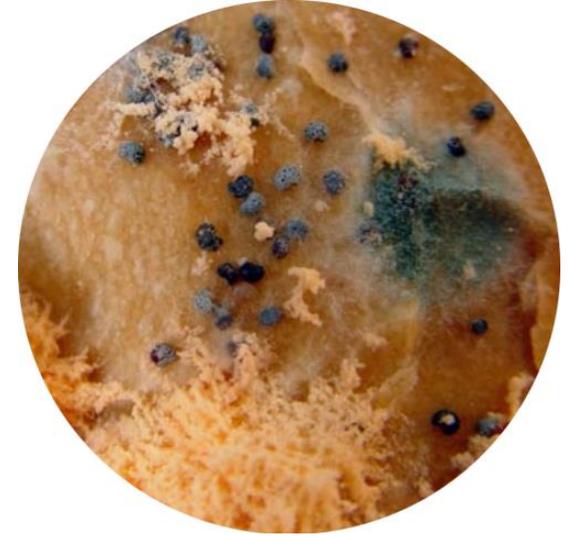




Automatic on-line temperature monitoring system for cooling and heating equipment in grocery shops and supermarkets

Actualities



Spoiled products loss
Non-compliance to regulations
Equipment breakdown
Spoiled company image

On-line temperature monitoring system for grocery shops



Wireless sensors



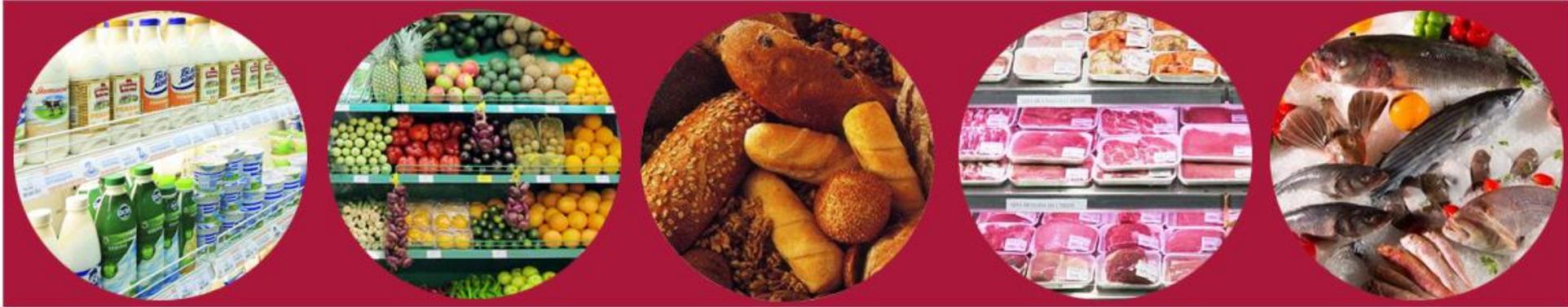
Data collector



Online monitoring
application

Wireless installation
Online events tracking
Automatic notifications
Low cost

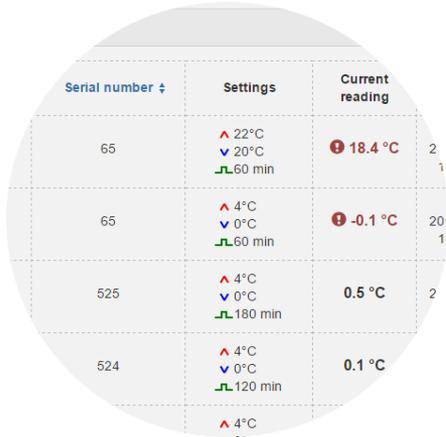
Universal usage



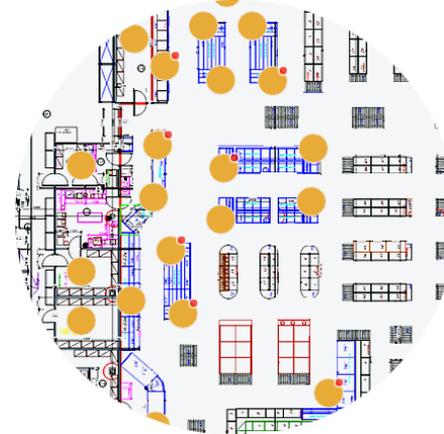
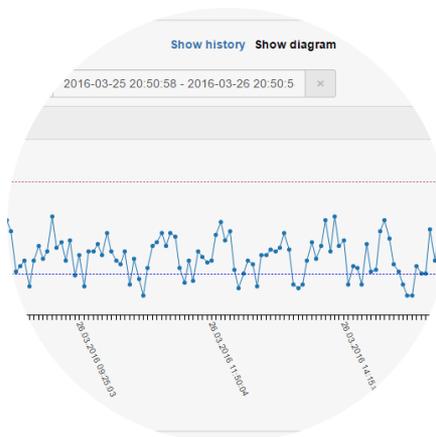
Temperature control range $-100^{\circ}\text{C}..+250^{\circ}\text{C}$

Refrigerators and freezers • Freezing drawers • Bonnets • Ice machines
Refrigerating chambers • Hot cupboards • Stoves • Grills • Warm Display

Online monitoring system



Serial number	Settings	Current reading
65	▲ 22°C ▼ 20°C ■ 60 min	⚠ 18.4 °C
65	▲ 4°C ▼ 0°C ■ 60 min	⚠ -0.1 °C
525	▲ 4°C ▼ 0°C ■ 180 min	0.5 °C
524	▲ 4°C ▼ 0°C ■ 120 min	0.1 °C
	▲ 4°C	



Multi user interface
Individual sensor settings
Sensor map
Defrost detection algorithms
Failure detection algorithms
Automatic notifications



Reduce products spoilage. Get notified in real time when the temperature went out of allowed parameters.



Take care about trade mark image.

Offer your customers all time the best and fresh products to keep high your trade mark image.



Perform preventive maintenance. Track problems with refrigerators before the equipment failure happens.

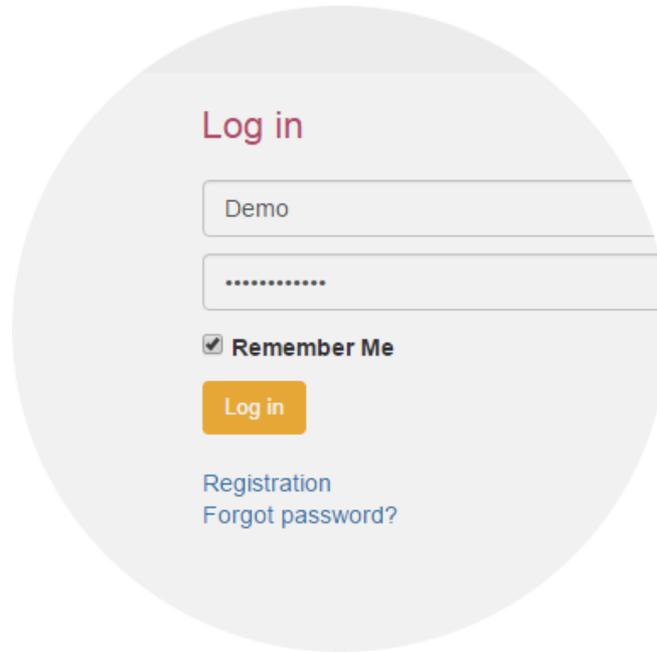


Save resources. Temperature control system is fully automated and no more needed to carry out manual temperature checks.



Regulatory Compliance. Temperature monitoring and control system helps continuously maintain regulatory compliance requirements.

Free demo of online monitoring system



The image shows a circular inset containing a login form. The form has a title 'Log in' in red. Below the title are two input fields: the first contains the text 'Demo' and the second contains a series of dots representing a password. Below the password field is a checkbox labeled 'Remember Me' which is checked. Below the checkbox is an orange button with the text 'Log in'. At the bottom of the form are two links: 'Registration' and 'Forgot password?'.

<http://my.sensguard.lv>

Detailed information

Technical details of sensors

SensGuard Temperature sensor MCP9808

Digital Temperature Sensor

Temperature Range -30 °C ..+ 55 °C

Accuracy +- 0.5 °C

Measurement period 5 minutes

Built-in battery

Battery life 5 years

Radio frequency 868MHz

Signal Encryption AES128

Dimensions 55x25x12 mm



SensGuard Industrial Temperature sensor PT100

Digital Temperature Sensor

Temperature range -100 °C ..+ 250 °C

Accuracy +- 0.5 °C

Measurement period 5 minutes

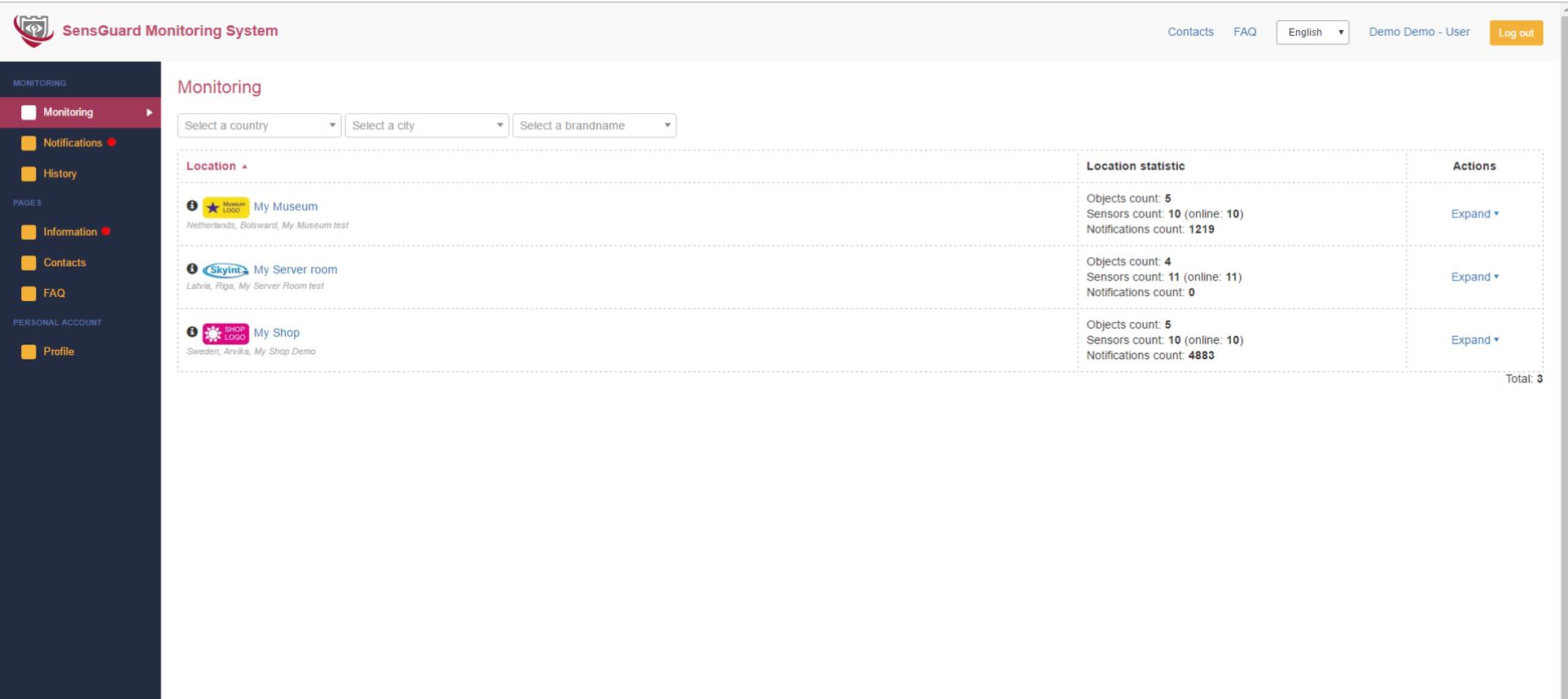
Replaceable batteries 2xAAA

Battery life 5 years

Radio frequency 868MHz

Signal Encryption AES128

Online monitoring system



The screenshot shows the SensGuard Monitoring System interface. At the top left is the SensGuard logo and the text "SensGuard Monitoring System". On the right, there are links for "Contacts", "FAQ", a language dropdown set to "English", the user name "Demo Demo - User", and a "Log out" button. A dark sidebar on the left contains navigation options: "MONITORING" (with "Monitoring" selected), "Notifications", "History", "PAGES" (with "Information", "Contacts", and "FAQ"), and "PERSONAL ACCOUNT" (with "Profile").

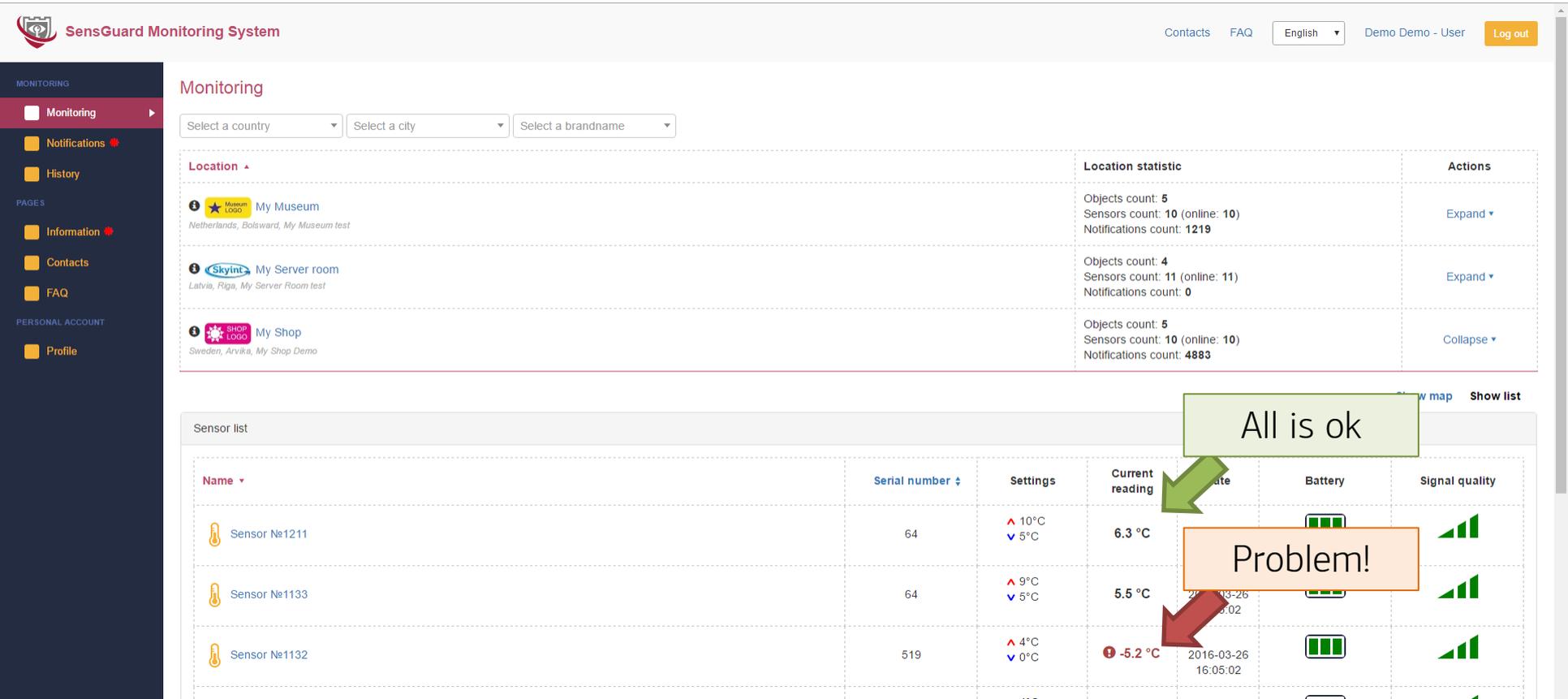
The main content area is titled "Monitoring" and features three filter dropdowns: "Select a country", "Select a city", and "Select a brandname". Below these filters is a table with three columns: "Location", "Location statistic", and "Actions".

Location	Location statistic	Actions
 My Museum <i>Netherlands, Bolsward, My Museum test</i>	Objects count: 5 Sensors count: 10 (online: 10) Notifications count: 1219	Expand ▾
 My Server room <i>Latvia, Riga, My Server Room test</i>	Objects count: 4 Sensors count: 11 (online: 11) Notifications count: 0	Expand ▾
 My Shop <i>Sweden, Arvika, My Shop Demo</i>	Objects count: 5 Sensors count: 10 (online: 10) Notifications count: 4883	Expand ▾

Total: 3

Shops can be filtered out by country, city and brand name

Sensor list



The screenshot displays the SensGuard Monitoring System interface. At the top, there is a navigation bar with the SensGuard logo, the text "SensGuard Monitoring System", and links for "Contacts", "FAQ", "English" (language dropdown), "Demo Demo - User", and "Log out". A left sidebar contains navigation options: "Monitoring" (selected), "Notifications", "History", "Information", "Contacts", "FAQ", and "Profile".

The main content area is titled "Monitoring" and includes three dropdown menus: "Select a country", "Select a city", and "Select a brandname". Below these are three location cards:

- My Museum** (Netherlands, Bolsward, My Museum test): Location statistic shows 5 objects, 10 sensors (all online), and 1219 notifications. Action: Expand.
- My Server room** (Latvia, Riga, My Server Room test): Location statistic shows 4 objects, 11 sensors (all online), and 0 notifications. Action: Expand.
- My Shop** (Sweden, Arvika, My Shop Demo): Location statistic shows 5 objects, 10 sensors (all online), and 4883 notifications. Action: Collapse.

Below the location cards is a "Sensor list" table with columns: Name, Serial number, Settings, Current reading, Date, Battery, and Signal quality. The table contains three rows of sensor data:

Name	Serial number	Settings	Current reading	Date	Battery	Signal quality
Sensor №1211	64	▲ 10°C ▼ 5°C	6.3 °C			
Sensor №1133	64	▲ 9°C ▼ 5°C	5.5 °C	2016-03-26 16:05:02		
Sensor №1132	519	▲ 4°C ▼ 0°C	❗ -5.2 °C	2016-03-26 16:05:02		

Annotations on the sensor list table:

- A green box labeled "All is ok" with a green arrow pointing to the "6.3 °C" reading of Sensor №1211.
- An orange box labeled "Problem!" with a red arrow pointing to the "❗ -5.2 °C" reading of Sensor №1132.

Each sensor has individual settings of min/max temperature and defrost detection algorithm

Detailed info from the sensor

MONITORING

- Monitoring
- Notifications
- History

PAGES

- Information
- Contacts
- FAQ

PERSONAL ACCOUNT

- Profile

Sensor

Settings / 070000193 / 070000193 / 070000193 / 070000193 / 070000193



2016-03-26 18:15:19

+4.8°C

Temperature



battery



signal quality

Information

Sensor: 070000193

Settings: ▲ 7°C ▼ 1°C ⏱ 60 min

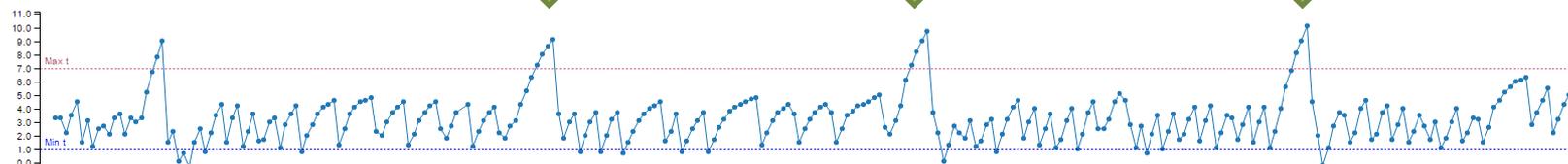
Location: 070000193

Collector: 050002711

Object: 070000193

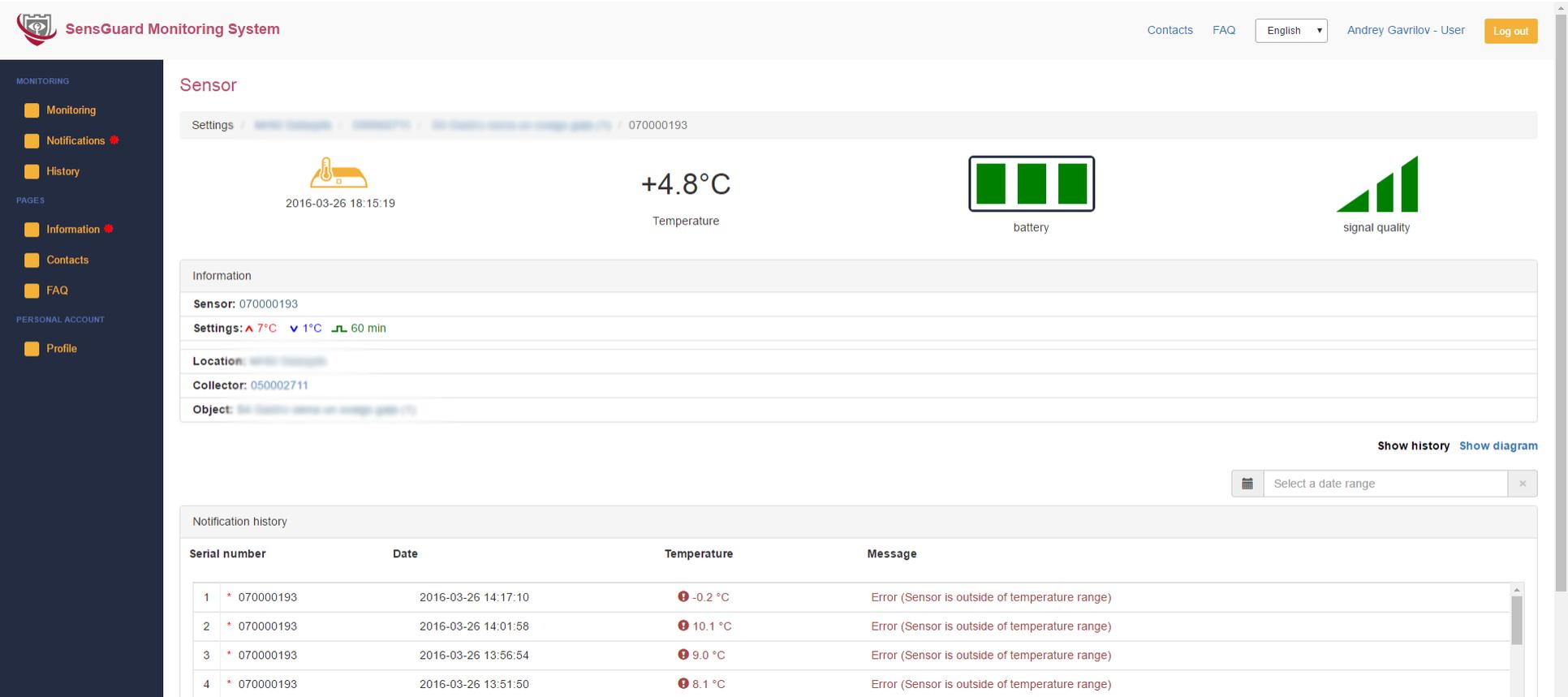
Defrost detected.
No alarm, as defrost done within allowed parameters of time

Diagram



You can see the detailed information for each sensor by different periods of time

Events history



SensGuard Monitoring System | [Contacts](#) | [FAQ](#) | [English](#) | [Andrey Gavrilov - User](#) | [Log out](#)

MONITORING

- Monitoring
- Notifications
- History

PAGES

- Information
- Contacts
- FAQ

PERSONAL ACCOUNT

- Profile

Sensor

Settings / [Sensor Settings](#) / [070000193](#) / 070000193

2016-03-26 18:15:19

+4.8°C
Temperature

battery

signal quality

Information

Sensor: 070000193

Settings: **A** 7°C **V** 1°C **L** 60 min

Location: [Sensor Settings](#)

Collector: 050002711

Object: [Sensor Settings](#)

[Show history](#) [Show diagram](#)

Select a date range

Notification history

Serial number	Date	Temperature	Message
1	* 070000193 2016-03-26 14:17:10	-0.2 °C	Error (Sensor is outside of temperature range)
2	* 070000193 2016-03-26 14:01:58	10.1 °C	Error (Sensor is outside of temperature range)
3	* 070000193 2016-03-26 13:56:54	9.0 °C	Error (Sensor is outside of temperature range)
4	* 070000193 2016-03-26 13:51:50	8.1 °C	Error (Sensor is outside of temperature range)

Entire history of events is stored for a detailed investigation for each sensor

Violation notifications

MONITORING

Monitoring

Notifications

History

PAGES

Information

Contacts

FAQ

PERSONAL ACCOUNT

Profile

Notifications

Ignore notification Select a location Select an object Type of notification

Select a date range

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 >>>

Type of event	Temperature	Path	Settings	Updated	Actions
Temperature is outside of range	-5.1 °C	My Shop, Warehouse, Sensor №1121 (515) <i>Sweden, Arvika, My Shop Demo</i>	▲ 0°C ▼ -5°C	2016-03-26 16:20:03	Ignore Expand
Temperature is outside of range	-0.8 °C	My Shop, Milk, Sensor №1123 (517) <i>Sweden, Arvika, My Shop Demo</i>	▲ 4°C ▼ 0°C	2016-03-26 16:20:03	Ignore Expand
Temperature is outside of range	4.9 °C	My Shop, Gastronomy, Sensor №1211 (64) <i>Sweden, Arvika, My Shop Demo</i>	▲ 10°C ▼ 5°C	2016-03-26 16:20:03	Ignore Expand
Temperature is outside of range	19.4 °C	My Museum, Object №212, Sensor №1221 (521) <i>Netherlands, Bolsward, My Museum test</i>	▲ 24°C ▼ 20°C	2016-03-26 16:20:03	Ignore Expand
Temperature is outside of range	-5.7 °C	My Shop, Drinks, Sensor №1112 (513) <i>Sweden, Arvika, My Shop Demo</i>	▲ 0°C ▼ -5°C	2016-03-26 16:20:03	Ignore Expand
Temperature is outside of range	-0.4 °C	My Shop, Milk, Sensor №1122 (516) <i>Sweden, Arvika, My Shop Demo</i>	▲ 3°C ▼ 0°C	2016-03-26 16:15:03	Ignore Expand
Temperature is outside of range	19.6 °C	My Museum, Object №211, Sensor №1212 (520) <i>Netherlands, Bolsward, My Museum test</i>	▲ 22°C ▼ 20°C	2016-03-26 16:15:03	Ignore Expand
Temperature is outside of range	19.7 °C	My Museum, Object №211, Sensor №1213 (521) <i>Netherlands, Bolsward, My Museum test</i>	▲ 22°C ▼ 20°C	2016-03-26 16:15:03	Ignore Expand
Temperature is outside of range	-0.8 °C	My Shop, Cheese, Sensor №1132 (519) <i>Sweden, Arvika, My Shop Demo</i>	▲ 4°C ▼ 0°C	2016-03-26 15:40:03	Ignore Expand
Temperature is outside of range	-10.6 °C	My Shop, Drinks, Sensor №1111 (512) <i>Sweden, Arvika, My Shop Demo</i>	▲ -5°C ▼ -10°C	2016-03-26 15:40:03	Ignore Expand

Total: 6101

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 >>>

Notifications of violations is displayed in a separate report

Detailed information about violation 1\3

Temperature is outside of range

📍 -0.8 °C

📍 My Shop, Milk, Sensor №1123 (517)
Sweden, Arvika, My Shop Demo

▲ 4°C
▼ 0°C

2016-03-26 16:20:03

Ignore
Collapse ▾

My Shop, Collector №11, Milk

[Show map](#) [Show object](#) [Show diagram](#)



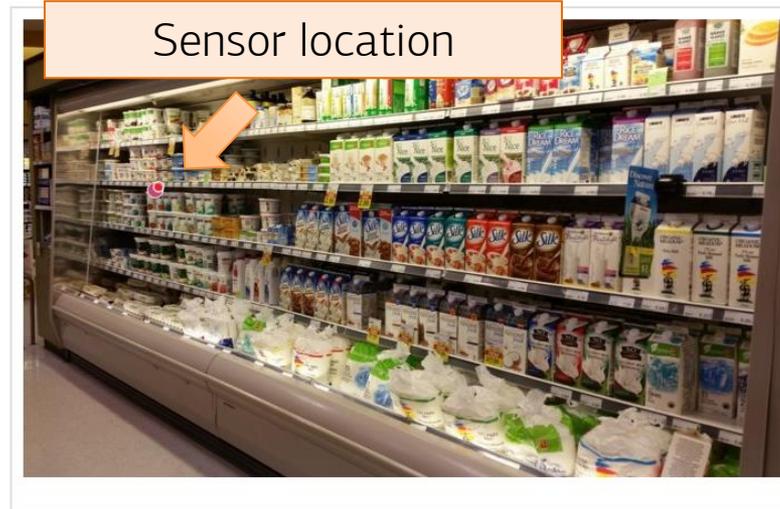
For your convenience the map shows the location of the sensor, where the temperature violation occurs

Detailed information about violation 2\3

Temperature is outside of range	-0.8 °C	My Shop, Milk, Sensor №1123 (517) <i>Sweden, Arvika, My Shop Demo</i>	▲ 4°C ▼ 0°C	2016-03-26 16:20:03	Ignore Collapse ▾
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My Shop, Collector №11, Milk

[Show map](#) [Show object](#) [Show diagram](#)



Temperature is outside of range	4.9 °C	My Shop, Gastronomy, Sensor №1211 (64) <i>Sweden, Arvika, My Shop Demo</i>	▲ 10°C ▼ 5°C	2016-03-26 16:20:03	Ignore Expand ▾
Temperature is outside of range	19.4 °C	My Museum, Object №212, Sensor №1221 (521) <i>Netherlands, Bolsward, My Museum test</i>	▲ 24°C ▼ 20°C	2016-03-26 16:20:03	Ignore Expand ▾
Temperature is outside of range	-5.7 °C	My Shop, Drinks, Sensor №1112 (513) <i>Sweden, Arvika, My Shop Demo</i>	▲ 0°C ▼ -5°C	2016-03-26 16:20:03	Ignore Expand ▾
Temperature is outside of range	-0.4 °C	My Shop, Milk, Sensor №1122 (516) <i>Sweden, Arvika, My Shop Demo</i>	▲ 3°C ▼ 0°C	2016-03-26 16:15:03	Ignore Expand ▾
Temperature is outside of range	19.6 °C	My Museum, Object №211, Sensor №1212 (520) <i>Netherlands, Bolsward, My Museum test</i>	▲ 22°C ▼ 20°C	2016-03-26 16:15:03	Ignore Expand ▾

For easy identification of problem it is possible to upload a photo of the object and mark sensor installation location

Detailed information about violation 3\3

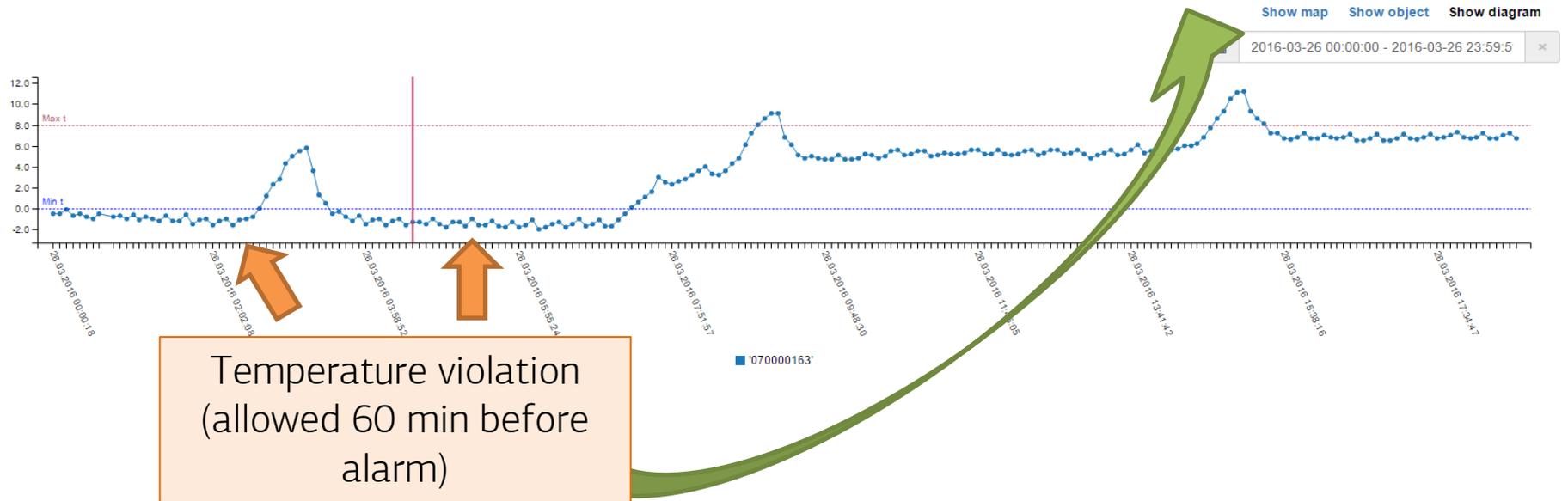
Temperature is outside of range and persisted longer than the specified time period

-1.3 °C

2016-03-26 04:34:20

Ignore
Collapse ▾

8°C
0°C
60 min



You can see detailed temperature information and violation time

Email notifications with links to events

Notification

support@sensguard.lv (support@sensguard.lv) Add to contacts 12:51 PM |>
To: ag@sensmax.eu



Notification

Hello, Andrey Gavrilov,

In the last 7 days are recorded the following events:

[Event: temperature is outside of range and persisted longer than the specified time period](#)

- Temperature: +15.2°C
- Date and time : 2016-03-19 15:37:04

[Event: temperature is outside of range and persisted longer than the specified time period](#)

- Temperature: +10.6°C
- Date and time : 2016-03-19 22:58:02

[Event: temperature is outside of range and persisted longer than the specified time period](#)

- Temperature: -0.7°C
- Date and time : 2016-03-20 02:06:47

Click link and go directly to an event or violation

User profile

Your profile

Edit

Username demo
Name, Last name Demo Demo
Company name
Job title Demo
Address
Contact number 1 234 567 8901
EEmail demo@demo.demo
Last activity 2016-03-26 16:50:06
Time zone UTC
Country
State
City

? Show tips
? System will send email notifications not more often than the specified time period.
1 hour

Notification settings

? Set notification schedule:
? Time of notification reception: **From:** 08:00 **To:** 19:00
? Weekdays you want to receive notifications:
Mon: **Tue:** **Wed:** **Thu:** **Fri:** **Sat:** **Sun:**
? Types of notifications:
 Errors
 Notifications

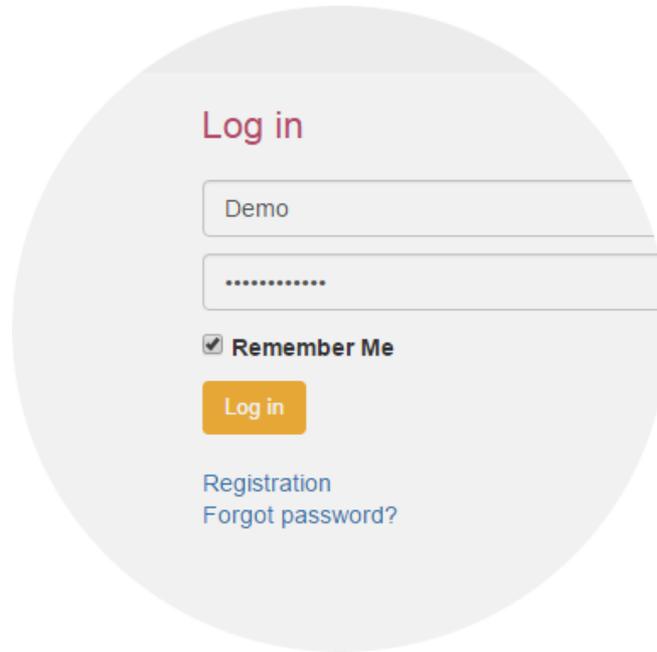
List available location

My Museum
My Server room
My Shop

List available object

Each user can configure the notification frequency from 5 minutes to 1 summary report per month

Free demo of online monitoring system



The image shows a circular screenshot of a login interface. At the top, the text "Log in" is displayed in a dark red font. Below this, there are two input fields: the first contains the text "Demo", and the second contains a series of dots representing a masked password. Underneath the password field is a checkbox that is checked, followed by the text "Remember Me". A prominent orange button with the text "Log in" is positioned below the checkbox. At the bottom of the login area, there are two links: "Registration" and "Forgot password?", both in a light blue font.

<http://my.sensguard.lv>