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°C..+250°C

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

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

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

Shops can be filtered out by country, city and brand name
Each sensor has individual settings of min/max temperature and defrost detection algorithm.
Detailed info from the sensor

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

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

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

Notifications of violations is displayed in a separate report.

<table>
<thead>
<tr>
<th>Type of event</th>
<th>Temperature</th>
<th>Path</th>
<th>Settings</th>
<th>Updated</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature is outside of range</td>
<td>-6.1 °C</td>
<td>My Shop, Warehouse, Sensor №1121 (515) Sweden, Arvika, My Shop Demo</td>
<td>0°C</td>
<td>2016-03-25 16:20:03</td>
<td>Ignore Expand</td>
</tr>
</tbody>
</table>
Detailed information about violation 1/3

<table>
<thead>
<tr>
<th>Temperature is outside of range</th>
<th>-0.8 °C</th>
<th>My Shop, Milk, Sensor №1123 (517)</th>
<th>4°C</th>
<th>0°C</th>
<th>2016-03-25 16:20:03</th>
<th>Ignore</th>
</tr>
</thead>
<tbody>
<tr>
<td>My Shop, Collector №11, Milk</td>
<td></td>
<td>My Shop, Milk, Sensor №1123 (517)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For your convenience the map shows the location of the sensor, where the temperature violation occurs.
For easy identification of problem it is possible to upload a photo of the object and mark sensor installation location.
You can see detailed temperature information and violation time
Email notifications with links to events

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

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