






OrionM2M

# Solution: Temperature monitoring

-  Refrigerator access control
-  Temperature monitoring
-  Power control



building  
connected future



 LoRa Alliance Member™



## SOLUTION: MONITORING OF REFRIGERATION EQUIPMENT

Remote monitoring and prompt notification of changes in the temperature of refrigeration equipment when exceeding the specified temperature threshold

### REMOTE TEMPERATURE MONITORING

How it works:

Temperature monitoring and geolocation of refrigerators



Monitoring of pharmacy refrigeration chambers



Monitoring of warehouse and commercial refrigeration equipment



OrionM2M Network



Radio modem  
ORIONmeter



24/7 temperature control





## SOLUTION: MONITORING OF REFRIGERATION EQUIPMENT

Remote monitoring and prompt notification of changes in the temperature of refrigeration equipment when exceeding the specified temperature threshold



### SYSTEM FUNCTION

- Real-time monitoring of refrigeration chamber temperature parameters
- Automatic notification when temperature changes above the set threshold
- Logging of events both at the device level with a deep archive and in the system itself
- Analytics throughout the network for the required period with the formation and unloading of reports
- Accounting for operating time and downtime of refrigeration equipment
- Locations map of refrigeration chambers



### TASKS AND APPLYING

- Product storage quality control
- Quality control of transportation and delivery of products
- Ensuring control over the use of refrigerators installed in retail outlets
- Rapid response to equipment failures and power supply
- Reduction of financial losses and image risks from product damage

#### Radio modem ORIONmeter



- It is used for installation in refrigeration chambers in rooms (it is established both inside and outside the refrigeration chamber)
- It works on ISM 868 frequency in LoRaWAN networks
- Up to 5 years of autonomous operation
- It can be installed in basements
- It provides control of the power supply of the refrigeration chamber
- Possibility of access control (door opening)

#### Radio modem-tracker ORION GPS IP67



- It is used for installation in refrigerators and other mobile refrigeration chambers of external use
- It works on ISM 868 frequency in LoRaWAN networks
- Up to 5 years of autonomous operation
- It provides remote temperature monitoring
- Transmission of GPS coordinates via the network LoRaWAN



### SOLUTION ADVANTAGES

- Modern international technology LoRaWAN
- High reliability and availability of server applications backup
- Scalability and self-diagnostics of the system
- Short terms of implementation and return of investment
- Easy to add and connect new devices to the network
- 1 year warranty on all equipment and flexible software licensing system including SaaS.

