



SENSORITY

Product Catalog

2026



WE MAKE YOUR THINGS TALK

We partner with our customers to design and develop IoT devices that collect the exact information they need to optimize their processes



SENSORITY

Cold Chain



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Waste



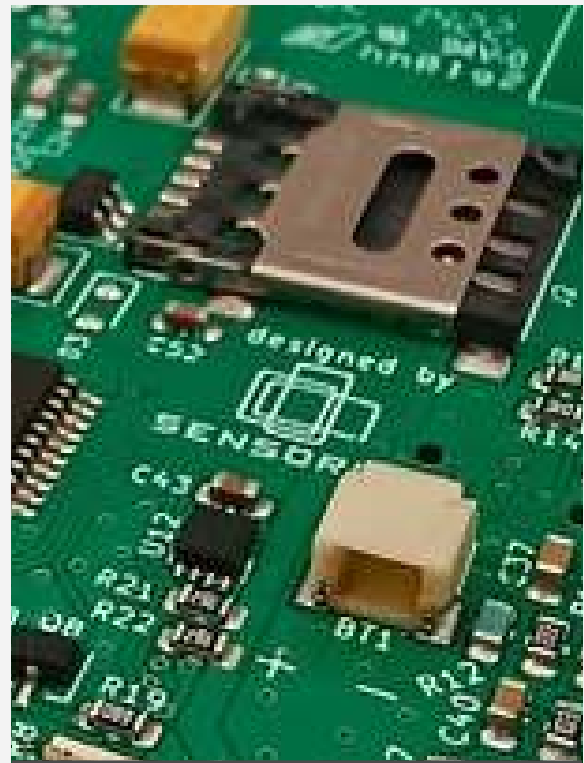
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On Demand



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Cold Chain

Our ColdSense solution addresses the needs of customers in healthcare, food and retail industries. It ensures regulatory compliance, consumer safety and at the same time enables energy savings.



REGULATORY COMPLIANCE

Based on real data from continuous measurements of controlled variables, supplemented by automatic warning



COST REDUCTION

The automatic temperature control enables to react quickly and reduce the intensity of heating or cooling

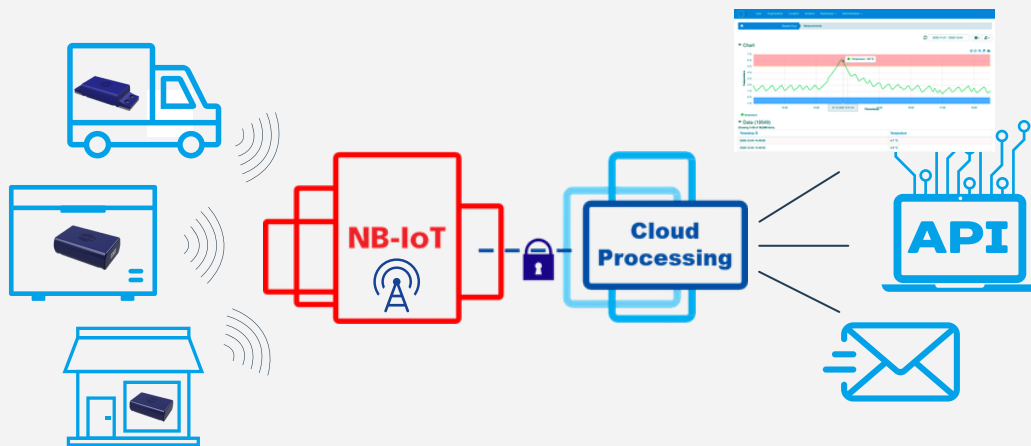


SIMPLE INSTALLATION

Wireless devices with up to 2 years of battery life. They can be easily placed where they are needed and provide data instantly



The ColdSense device measures temperature and humidity at adjustable intervals, while monitoring the approximate position of the monitored object. If the set temperature range is exceeded, the system will record the event and send an alarm. The device is wirelessly connected to the Internet via IoT networks, data transmission is encrypted and then processed in the cloud. The data can be shared with the customer's platform or displayed in a web application.



ColdSense solution uses wireless sensors to transmit measured data to Cloud, where it is processed and then made available in a web application. This system allows for automatic control of temperature and humidity in refrigerators, freezers, warehouses, stores and during transport.

PARAMETRES



Real time measurement of temperature and humidity



Alarms and warnings on approaching or exceeding the set limits



Powered by AA batteries with up to 2 years of battery life



Wireless data transmission via NB-IoT or LTE-M networks



Web application for administration, viewing, control and planning



Possibility of tracking shipments in transport



COLDSENSE T

Device for temperature measurement with an internal sensor



- Temperature, Battery status, Approximate location
- -40°C to +60°C
- 80 x 57 x 26 mm
- PETG, Water-resistant
- Slow response to temperature change – designed for use in Refrigerators, Freezers, Rooms, Warehouses, and Commercial areas

COLDSENSE TH

Device for temperature and humidity measurement with an internal sensor



- Temperature, Humidity, Battery status, Approximate location
- -40°C to +60°C
- 80 x 57 x 26 mm
- PLA
- Designed for use in Rooms, Warehouses, and Commercial areas

COLDSENSE THX

Device for temperature and humidity measurement with an external sensor



- Temperature, Humidity, Battery status, Approximate location
- -40°C to +60°C
- 108 x 57 x 26 mm
- PETG, water-resistant
- Fast response to temperature change – designed for use in refrigerators, Industrial refrigeration and freezer units and cooler boxes

COLDSENSE EXT

Device for temperature measurement with a thermocouple



- Temperature, Battery status, Approximate location
- -200°C to +1200°C depending on a thermocouple type
- 93 x 52 x 26 mm
- PLA
- Temperature measurement outside the standard range, Fast response to temperature change

OPTIONS

- Temperature / Humidity calibration according to ISO/IEC 17025
- Mounting brackets
- GPS/GNSS tracking
- Wi-Fi tracking
- Barometric pressure sensor
- Door open/close sensor
- Partner branding



SMART APPLICATION



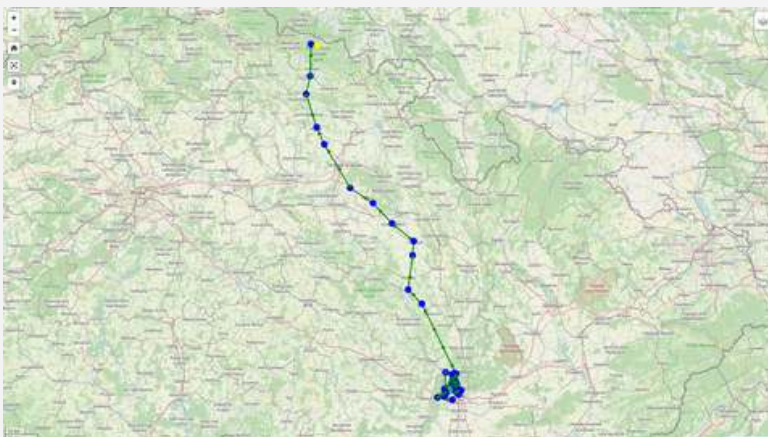
- Definition of organization and access rights
- Device administration and configuration
- Device location
- Warnings, alarms and escalations
- Audit records
- Graphs, statistics, reports

Application enables:

- Display the progress and status of the measured values (temperature, humidity if applicable)
- Monitor, that the temperature values are within the set range, send warning and alarms



- Send escalation messages (according to configuration) in case no course of action is taken
- Display approximate location of the device



- Generate reports including audit reports for supervisory authorities
- Infill the cause of exceeding the set temperature limits
- API connection to client application





Temperature and humidity monitoring for storage of pharmaceuticals and medical material

Implementation of ColdSense solution in pharmacies and medical facilities enables effective control of temperature, humidity and atmospheric pressure:

- Automatic obligatory readings and creation of audit reports.
- Remote supervision over the entire organization, individual departments or sensor locations.
- Warning and alarms via e-mails, communication applications or SMS.
- Dashboard with the overview of organizations, departments and sensor locations, including color-coded status indication.
- Reports and statistics for quality management.
- Configuration of access levels and multi-level escalation.



Temperature monitoring in transportation

Examples of use: food delivery, transportation of pharmaceuticals and blood plasma.

- Automatic temperature monitoring for being within the specified range.
- Temperature monitoring and approximate route at any point during transportation.
- Configuration of warnings when approaching set values and alarms at their exceeding.
- Configuration of access levels and possibility of escalation.
- Optionally: Monitoring of precise routes and geofencing with GNSS supported devices



Temperature monitoring in stores and warehouses

ColdSense solution enables temperature monitoring in offices, stores and warehousing facilities. It automatically compares the temperature to the set limits, therefore prevents unnecessary overheating or overcooling of air conditioners, leading to energy and financial savings.

Ensuring the correct temperature is possible thanks to remote system monitoring, which includes automatic alarms and the possibility of escalation without the need for the on site presence of the responsible person.





Waste management

Our solution for the waste management DistSense responds to the needs of cities and towns, collection companies and also positively affects the satisfaction of citizens.



PROCESS OPTIMISATION

Based on the real data from continuous measurement of the waste containers fill levels, fill pace and patterns



COST REDUCTION

As a result of optimization and control of the collections with the possibility of significant savings in case of containers with irregular filling

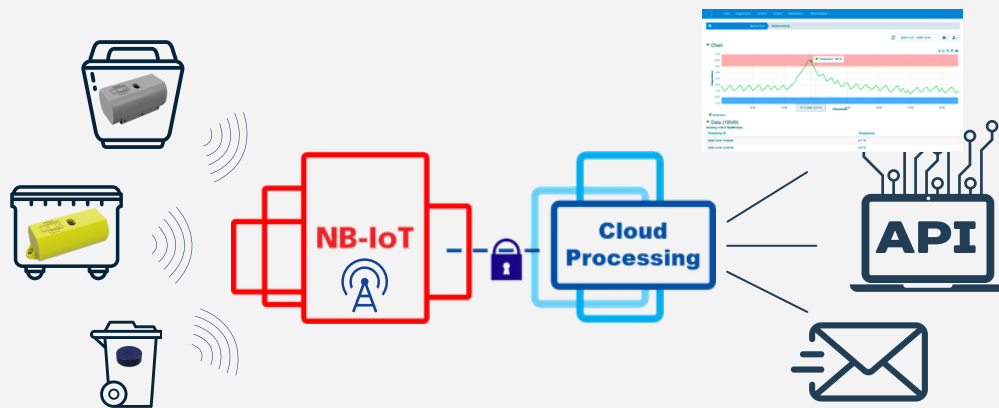


QUALITY OF LIFE

Exact fill data allow cities to make informed decisions; provide citizens with information on the free capacity of waste containers



The DistSense device monitors the fill level of waste containers at adjustable intervals. It uses an infrared laser to reduce energy demands and extend battery life. The laser beam also enables to adjust the direction and width of the measurement. The device is wirelessly connected to the Internet via IoT networks, data transmission is encrypted and further processed in the Cloud. The data can also be shared with the customer's platform or displayed in a Web application.



DistSense solution is based on wireless sensors that collect and transfer measured data to a cloud, where it is processed and subsequently help to effective planning and control of collection of used textiles, footwear and electric waste, containers for both mixed and separated waste in cities and towns, or the public waste bins.

PARAMETRES



Real time fill level (up to 4m) status and progress



All main types of waste containers



Powered by a battery with a life up to 5 years



Wireless data transfer via IoT networks



Web Application for administration, control, reporting and planning



Infrared laser sensor for more frequent and accurate measurement



DISTSENSE LONG

Measuring fill level of waste containers

- distance (up to 4m), temperature, tilt, battery status
- approximate location
- 88 (109) x 43 x 36 mm
- IP69
- bottom dump containers, containers for used textiles or electrical waste



DISTSENSE MINI

Measuring fill level of waste containers and bins

- distance (up to 4m), temperature, tilt, battery status
- approximate location
- 88 (109) x 38 x 29 mm
- IP69
- containers with top dump (typically 110 - 1100 l)

OPTIONS

- mounting brackets based on container type
- Installation and maintenance
- GPS or Wi-Fi tracking
- Radar

INSTALLATIONS:



SMART APPLICATION



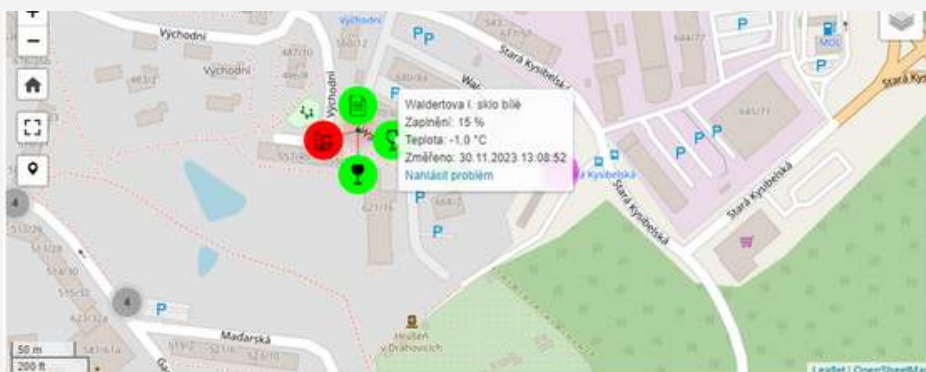
- Organization definition and access rights
- Device Administration and configuration
- Sensors location
- Information of the containers' fill-level (in %, in cm)
- Waste collection detection
- Graphs, statistics, reports

Application enables:

- View progress and fill level in both distance and % conversion based on the container size
- Check the waste collection according to planned schedule



- Display container location in the map together with their fill level in percentage
- Color differentiate the fill level for better visual orientation



- Display statistics such as the rate at which the bins are filled or how long they are full
- Planning of the waste collection schedule
- Indicative conversion to kilograms if entering the average weight according to the type of waste
- API connection to client application





Optimization of collection of used textiles, footwear, and electrical waste

The implementation of the DistSense solution allows for efficient planning of the collection of used clothing and shoes.

Containers are deployed throughout area of considerable size and the collection of their content represents key cost of the company. In addition, containers are filled irregularly and real-time knowledge whether there is something in the container is crucial for collection planning. The use of fill level monitoring solutions will thus allow to reduce the number of calls up to half and the total cost of collection by up to a third, mainly due to the elimination of unnecessary trips, adjusting routes and increase of the fill of collection vehicles.



Optimization of waste collection for towns and cities

Use cases: containers for mixed and separated waste, both under- and above ground

The use of the devices for continuous monitoring of container fill levels in cities and towns allows to obtain detailed statistics on the filling patterns and overall use of containers in different locations, including changes related to changes in people's behavior caused by e.g. pandemics. Cities and towns can use this data not only to streamline waste collection and reduce costs, but also to adjust the containers locations, frequency of collection and to provide information to their citizens of the available waste containers, e.g. for separated waste.



Optimization of the collection of town waste bins

Use cases: city waste bins at public transport stops, streets, parks and squares

DistSense solution allows to monitor the fill level of waste bins throughout the city, ensuring not only information on how often collection is required at a given location, but also statistical data regarding their use, eliminating of overflowing of the bins, and planning their deployment or removal when not in use. This allows not only to save costs, but also to increase the comfort of the citizens



PROJECT KLOK TEX

Containers for textile, clothing, and footwear

It is a charitable and environmental project, which supports mainly the Klokánek Fund for Children at risk. Containers with the logo of the Klokánek are placed throughout the Czech Republic for collecting unneeded but usable clothing and footwear. By placing such clothing, footwear, textiles, as well as toys in these containers, their donors are directly involved in helping both materially and mainly financially. More on www.KlokTex.cz

"The project was launched to help those who need our help. Thanks to all clothing and footwear donors, we have, as part of the project, financially supported charities with an amount exceeding 3 million CZK. We will continue to pursue increasing this assistance despite the difficult period," says Pavlína Klementová, executive head of the company.



The efficiency as a key to help

The KlokTex project includes hundreds of containers distributed throughout the Czech Republic. As a part of the project, the operation of the whole system must run very efficiently including negotiations with municipalities on the location of containers, their production, collection, and sorting of submitted textiles and footwear, so that the costs associated with the operation do not exceed the benefits of the whole project.

One of the essential cost items is the collection of submitted textiles and footwear, which can amount to 60 % of operation costs. Optimal collection planning considering both container locations and especially their filling level fundamentally affects the efficiency of the whole process and has a direct impact on project costs.

Results:

- Reduction of 50% of the number of trips to empty or minimally filled containers
- Possibility of precise route planning to fully fill the car with the donated textiles
- 30% savings on collection costs



Solution based on Internet of Things (IoT)

To solve collection optimization, the management of the KlokTex project selected the company Sensority, specifically its product DistSense.

"This solution meets all our needs and requirements. Sensority took a step forward and adjusted the attachment so that the device could be easily mounted in a container without any risk of damage or destruction. At the same time, they helped us integrate the data into our systems", says Pavel Koutecký, Managing Director of the company.

DistSense meets all requirements, it is robust yet sufficiently small, uses an infrared laser to measure, allowing for reduction of energy consumption and more precise measurement. The device is wireless and thanks to precise tuning of the internal antenna ensures perfect signal reception throughout the Czech Republic, even in metal containers.

"Shortly after installing the first route with DistSense devices, we were able to start optimizing collection and realize real savings in our operation. By installing the devices at all our locations, we achieved a complete overview of how containers are filled and were able to adapt the entire collection system and thus significantly increase its efficiency", adds Koutecký.



Security

Our SecurSense solution helps our customers in protecting their personnel, along with their equipment, machinery, and products.



SIMPLE AND EFFICIENT

Easy to use through Web Application or API to let the alarms flow into customer or security providers' systems



COST REDUCTION

By monitoring doors, windows or power supply the solution helps avoid significant charges for loss or damage of company assets

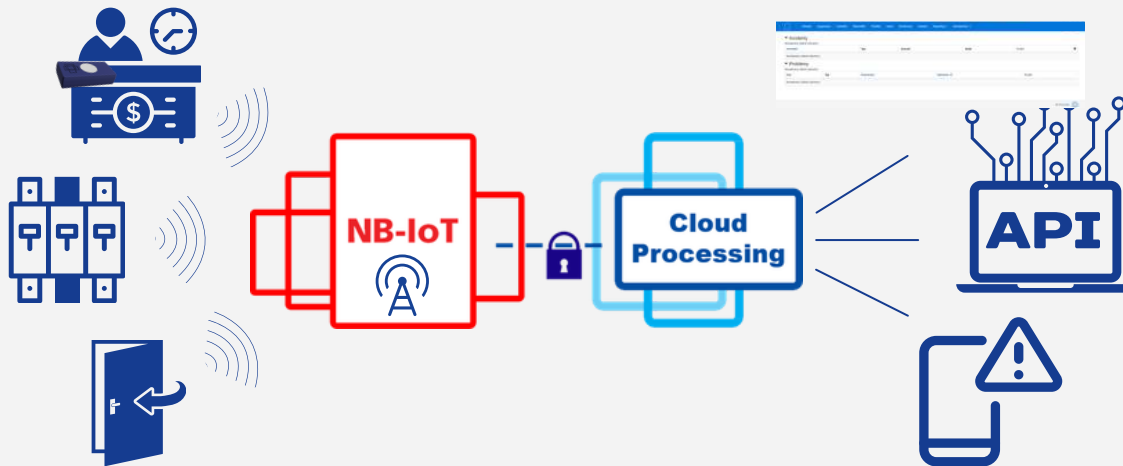


HEALTH AND SAFETY

By real-time communication and location services delivers higher level of Health and Safety compliance and supports risk reduction



Sensority's SecurSense safety solutions operate on a foundation of wireless devices that allow you to send an alarm, call for help, provide your location or monitor doors and windows and power supply. The data is transmitted to a central repository where it's further processed and displayed in a web application. Alerts can also be sent via SMS, email, Telegram, or integrated directly into the customer's security system.



SecurSense solution for personal protection is Panic button that, when pressed, sends a message and confirms its sending and delivery by illuminating the button and by vibration or a sound. The device is equipped with a safety hedge to prevent unintentional pressing and regular checking of it's connection and functionality and can be further enhanced with precise location monitoring.

PARAMETRES



Responsive button



Location services that can be switched on/off



Operations in years on battery or provided with rechargeable battery



Wireless data transmission via NB-IoT or LTE-M networks



Web and application and API for administration and alarms distribution



External connector for door sensor or power supply monitoring



PANIC BUTTON

Sends a message/alarm when button is pressed

- visual indication and vibration or sound (sending, delivery)
- position defined in the application
- movement and battery status
- replaceable battery with a lifetime up to 4 years
- 80 x 40 x 18 mm (without grips)
- PETG



PANIC BUTTON 1

Sends a message/alarm when button is pressed

- visual indication and vibration or sound (sending, delivery)
- position defined in the application
- movement and battery status
- replaceable battery with a lifetime up to 4 years
- 74 x 19 mm (without grip)
- PETG, Water-resistant



PANIC BUTTON 3

Sends a message/alarm when button is pressed

- visual indication and vibration or sound (sending, delivery)
- use of buttons and position defined in the application
- movement and battery status
- replaceable battery with a lifetime up to 4 years
- 74 x 19 mm (without grip)
- PETG, Water-resistant



PANIC BUTTON POCKET

Sends a message/alarm and location when button is pressed

- visual indication and vibration or sound (sending, delivery)
- GNSS (GPS) localization
- use of buttons and position defined in the application
- movement and fall detection, battery status
- replaceable battery with wireless charging
- 90 x 44 x 15 mm
- IP67



PANIC BUTTON POUCH

Sends a message/alarm when button is pressed

- visual indication and vibration or sound (sending, delivery)
- position defined in the application
- movement and fall detection, battery status
- replaceable battery with wireless charging
- 70 x 44 x 15 mm
- IP67





SECURSENSE DOOR

Controlling door or window opening/closing

- message sent on magnetic sensor contact open/close
- movement and battery status
- wall-mountable or adhesive tapes
- 2x AA batteries, up to 24 months of operation
- 120 (136) x 56 x 26 mm
- 0,5 m (or longer) cable with magnetic sensors and magnets
- PETG, 120 g including battery, water resistant



SECURSENSE PWR

Controlling power supply in standard 230 V outlet

- message sent on the 230 V relay contact opens/closes
- movement and battery status
- wall-mountable or adhesive tapes
- 2x AA batteries, up to 36 months of operation
- 120 (136) x 56 x 26 mm
- 0,5 m (or longer) cable with standard 230 V plug
- PETG, 140 g including battery, water resistant



SECURSENSE PWR 3

Controlling power supply for up to 3 phases

- includes terminal block for connecting 1-3 relays to monitor individual phases
- message sent upon input contact closure/opening (i.e., indicating if all relays are powered)
- DIN rail mounting
- 2x AA batteries, up to 36 months of operation
- 90 x 53 x 63 mm

OPTIONS

- Temperature monitoring
- Humidity monitoring
- 2 external connections (2 Doors or Door and Power)
- Partner branding

SMART APPLICATION

Organization	Location	Type	Label	Status	Time	Updated At	Direction	Duration
SECURIT	Entrance right	Alarm	Pressure	Open	2023-03-01 10:00:00	2023-03-01 10:00:00	Yes	10:00:00
SECURIT	Entrance right	Alarm	Pressure	Open	2023-03-01 10:00:00	2023-03-01 10:00:00	Yes	10:00:00
SECURIT	Entrance right	Alarm	Pressure	Open	2023-03-01 10:00:00	2023-03-01 10:00:00	Yes	10:00:00
SECURIT	Entrance right	Alarm	Pressure	Open	2023-03-01 10:00:00	2023-03-01 10:00:00	Yes	10:00:00

- Defining organization and access permissions
- Device administration and configuration
- Device location
- Notifications and alarms
- Graphs, statistics, reports
- API connection to client application



Protecting Healthcare workers

Health services are committed to provide a **safe and secure environment** for patients, staff and visitors.

A chain of healthcare clinics selected a security company to provide monitoring and support in case of any physical or verbal aggression or abuse towards staff, patients, family members or visitors.

The SecurSense solution – Panic button – was installed in all offices and consulting rooms. It's **always available, not dependent on local network or power supply**. It's **wirelessly connected to the monitoring center** and in case the button is pressed, the security personnel is **immediately informed** of the alarm and it's location and can react to the situation without delay.



Personal protection

Protection of employees servicing remote locations requires to implement real measures which can be costly and not very efficient.

The SecurSense GPS solution gives employee a way to **stay safe and avoid constant monitoring**. It could be switched on only at the place where the work is performed and apart from precise location and panic button functionality it also supports additional protection as fall detection.



Protecting assets

SecurSense solution also helps to protect company or personal **assets**. It's still a wireless solution working on batteries with specific extensions:

SecurSense DOOR is a wireless device with magnetic sensor monitoring opening and closing doors/windows

SecurSense PWR is a wireless device with relay and connection to power network for monitoring if power is being supplied. It's supplied with either standard socket plug or ready for rack mount with a cable to be connected directly to the power network.



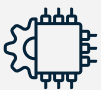
NÁRODNÍ
MUZEUM





On Demand

We design and develop smart solutions for IoT and Industry based on customer requirements and needs.



HARDWARE

Bill of Material, High level schemas and PCB components layout and connection



FIRMWARE

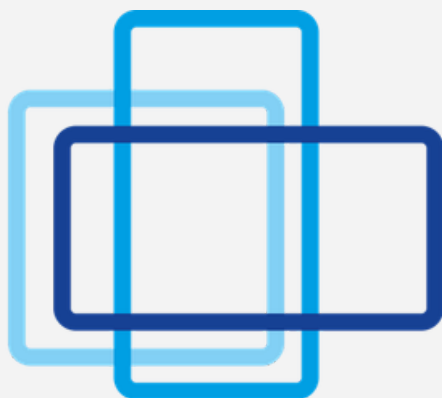
Coding, Testing, Review



MANUFACTURING

Component sourcing including PCB manufacturing.
Manufacturing of device prototype and final product





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