CoolSens

Remote temperature and humidity monitoring
Your security! Your peace of mind!

CoolSens Cloud

Access to data on the **CoolSens Cloud platform** or in the **CoolSens app:** Notifications, Alarms, Reports, Charts

Main applications of the CoolSens system

Medicine:

- **Hospitals, pharmacies, laboratories and outpatient clinics**: maintaining controlled conditions in premises where medicines are stored, tests are carried out or operations performed
- **Storage of medicines and vaccines:** monitoring conditions in refrigerators and cold stores
- **Blood centres:** temperature control in blood fridges

Transport and logistics:

- **Refrigerated transport:** monitoring conditions during the transport of temperaturesensitive products such as foodstuffs or medicines
- **Cargo monitoring:** tracking conditions in containers and warehouses during international transport

Food safety and compliance with standards:

- **HACCP system:** monitoring of critical control points, where temperature and humidity are key to food safety
- **Data logging:** automatic recording and archiving of measurement data for compliance reports and quality audits

Office automation systems:

- **Comfort:** maintaining the optimum temperature and humidity in the building's interior

Agriculture and horticulture:

- **Greenhouses:** monitoring and regulating conditions to ensure adequate plant growth
- **Storage facilities:** storage of fertilisers and chemical preparations

Industry:

- **Production:** maintaining the right conditions in production processes, e.g. in electronics manufacturing, where humidity must be strictly controlled.

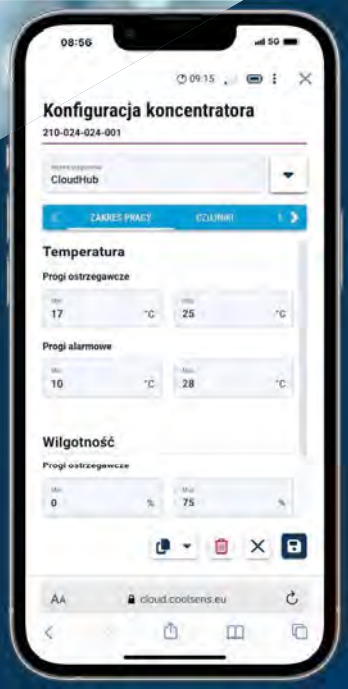
Storage:

- **Monitoring conditions in warehouses,** especially when storing temperature- and humidity-sensitive products such as food or medicines

Energy and cost savings:

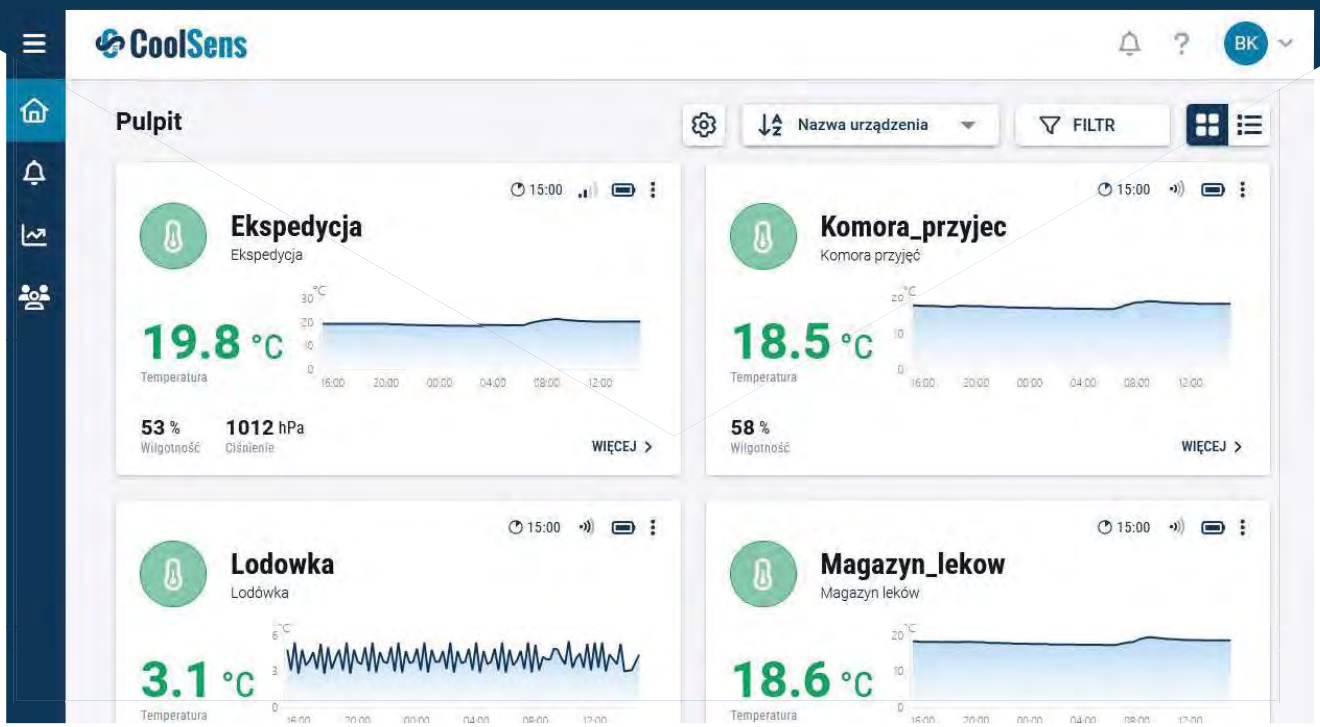
- **Energy optimisation:** the system can help optimise the energy consumption of refrigeration equipment, leading to savings in operating costs

Elements of the CoolSens system



CoolSens Cloud

From the app, you can manage the sensors placed in the monitored devices, set the alarm and warning thresholds and temperature ranges, grant access to individual employees, generate current and historical reports and present visualisations graphical readings



CoolSens NODE

Temperature and humidity sensor, monitoring the operation of equipment or rooms. Transmits data via radio to a data concentrator.

- Radio transmission from the CoolSens cloud
- Power supply from CR2477 pastille battery
- Non-invasive installation, e.g. inside refrigerators
- Dimensions: 60x60x20 mm

CoolSens CLOUDHUB

Data concentrator, equipped with SIM card, collecting data from the connected sensors and transmitting them to the host application using LTE-M/NB-IoT technology.

- built-in low-energy modem with NB-IoT/LTE technology Cat. M1 with SIM card
- wireless device, powered by 2 lithium AA 3.6 V batteries
- wireless communication with sensors
- configurable interval for reading and sending data from CoolSens Node sensors
- secure data transmission in private APN
- non-invasive Velcro or free-standing mounting
- measuring: temperature, humidity, atmospheric pressure*
- dimensions: 76x76x31 mm

**option*

The CoolSens is:

- Non-invasive, fast and secure installation with Velcro, no tools required
- Advanced solutions tailored to the stringent norms, standards and legislation required by the industry
- Configurable alerts and warnings
- A state-of-the-art IoT solution in which all system components communicate wirelessly
- Intuitive and easy-to-use cloud platform, aggregating data from all measurement points
- Flexible system configuration and scalability
- Application for mobile devices
- Automatic reports generated according to a schedule or on request
- No need to connect locally to the device to obtain measurements
- No external power supply required, ideal for drug monitoring in refrigerators and during transport
- Operation independent of the customer's infrastructure (no WiFi access point or wired Ethernet required)
- E-ink display on CoolSens CloudHub for quick verification of measurements and alarms without logging into the platform
- We guarantee data safety and security. Retention up to 5 years, with an option to extend up to 10 years
- Calibration in an accredited laboratory upon request
- The solution is ideal for units as well as dispersed branches
- 2-year warranty, with the option to extend it to 3 years

Functionality

- 24/7 access to data via website and app
- Display of temperature and humidity measurements from multiple sensors
- Access and analysis of historical data
- Send notifications when preset humidity and temperature warning and alarm thresholds are exceeded
- Automatic generation and transmission of periodic reports
- Quick and non-invasive installation without tools
- Standard batteries for self-installation
- Easy scalability of the solution
- Compliance with regulations in force in Poland

Inventia's offering stands out:

Innovative development

High-quality, state-of-the-art products as well as tool and system software developed on the basis of expert knowledge and results of research and development work

Dialogue and partnership

Monitoring of customer satisfaction, improvement of staff skills. Competence-building activities for teams on the effective use of products and software

Comprehensiveness of the offer

Consultation, training, pre- and post-sales services to guarantee the right choice and reliable operation of implemented solutions supported by expert the knowledge of engineers

Polish product - global reach

160,000 telemetry and location modules have been deployed in a wide variety of applications in Poland and 67 countries worldwide

Latest transmission standards

Remote monitoring and control over any distance between objects. Insensitive to terrain and object obstacles. No extensive antenna systems. Short deployment time

Data security

Broadcast in a closed APN.
Data encrypted with SSL 256-bit key

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