



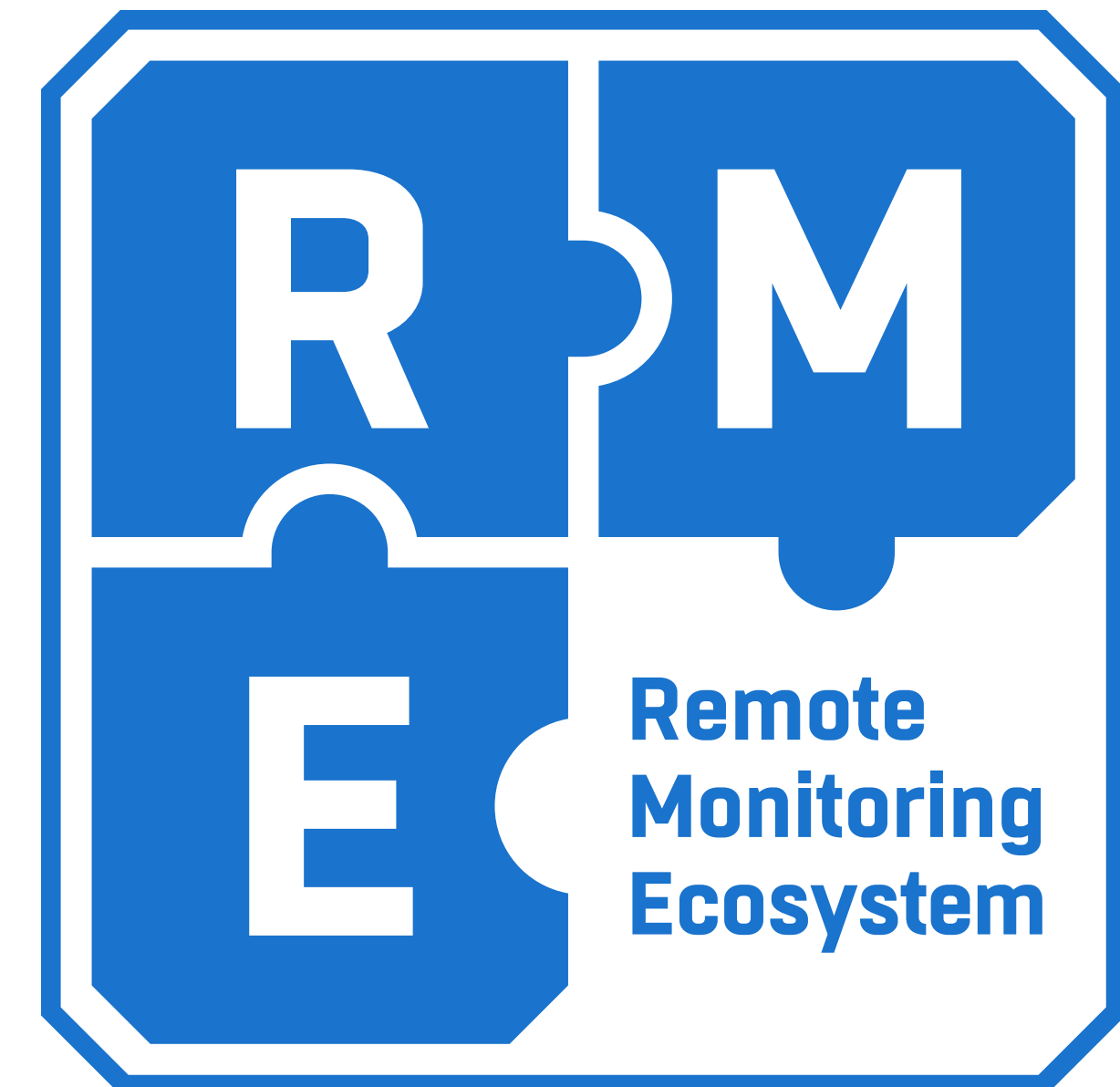
Solutions and applications 2025

www.hw-group.com

HW group products & services

22 years of experience with remote monitoring

- Solutions for projects of any size and complexity
- We can do all types of data collection:
 - Public or private cloud
 - 3rd party SW or cloud
 - Direct connection to devices
- Easy setup and installation, remote maintenance
- Set and forget devices, stable and proven technology
- Standard 2 year warranty and full technical support



Standalone monitoring solutions

Designing a project

There are many ways to design a monitoring project based on HW group products

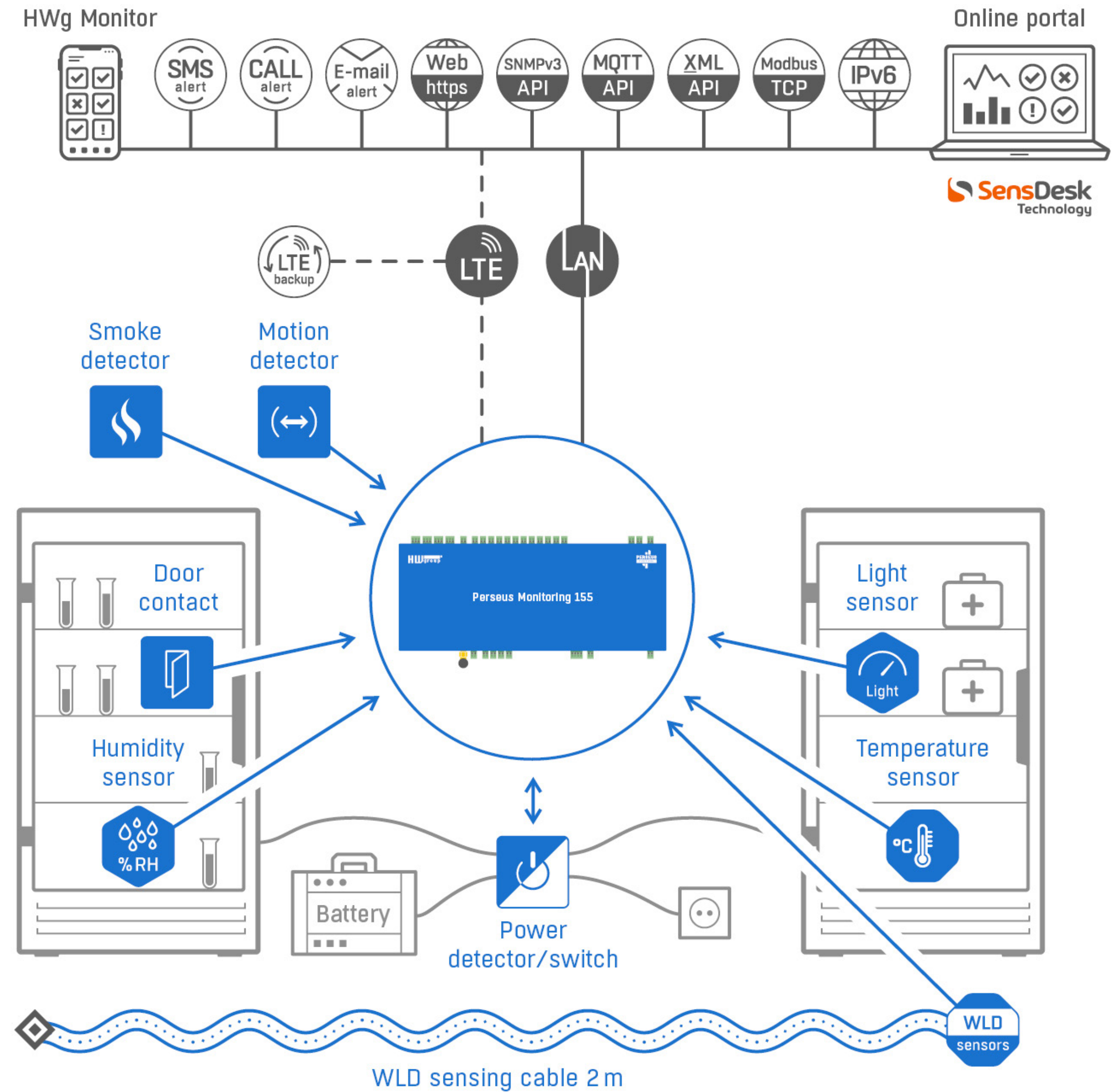
- We usually start with:
 - What is the available connectivity?
 - What is the topology of measurement points?
 - What sensors and ranges do we need?
 - How are the sensors and devices mounted?
 - What alarming is required?
 - How the data needs to be visualized?
- Some typical solution examples follow.



Medical & healthcare

Requirements

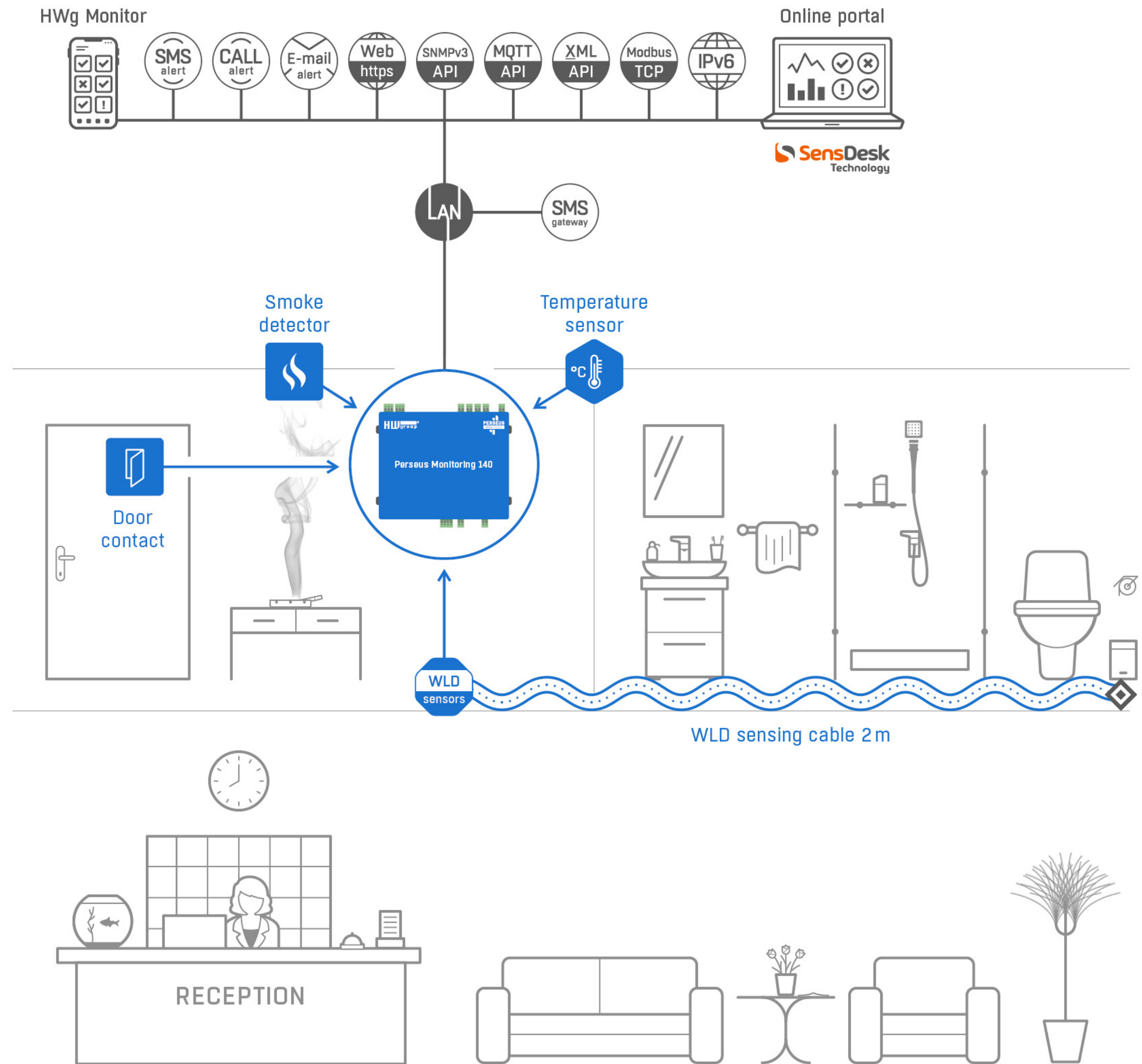
- Alarm in case of temperature increase
- Logging of temperature and humidity, many other functions
- One-off purchase only, no hidden fees/recurring costs
- Easily add more sensors, such as door contacts and smoke detectors
- Certification options
- Email or SMS notifications to power failures
- LTE backup connectivity to Portal



Hotels & residential

Requirements

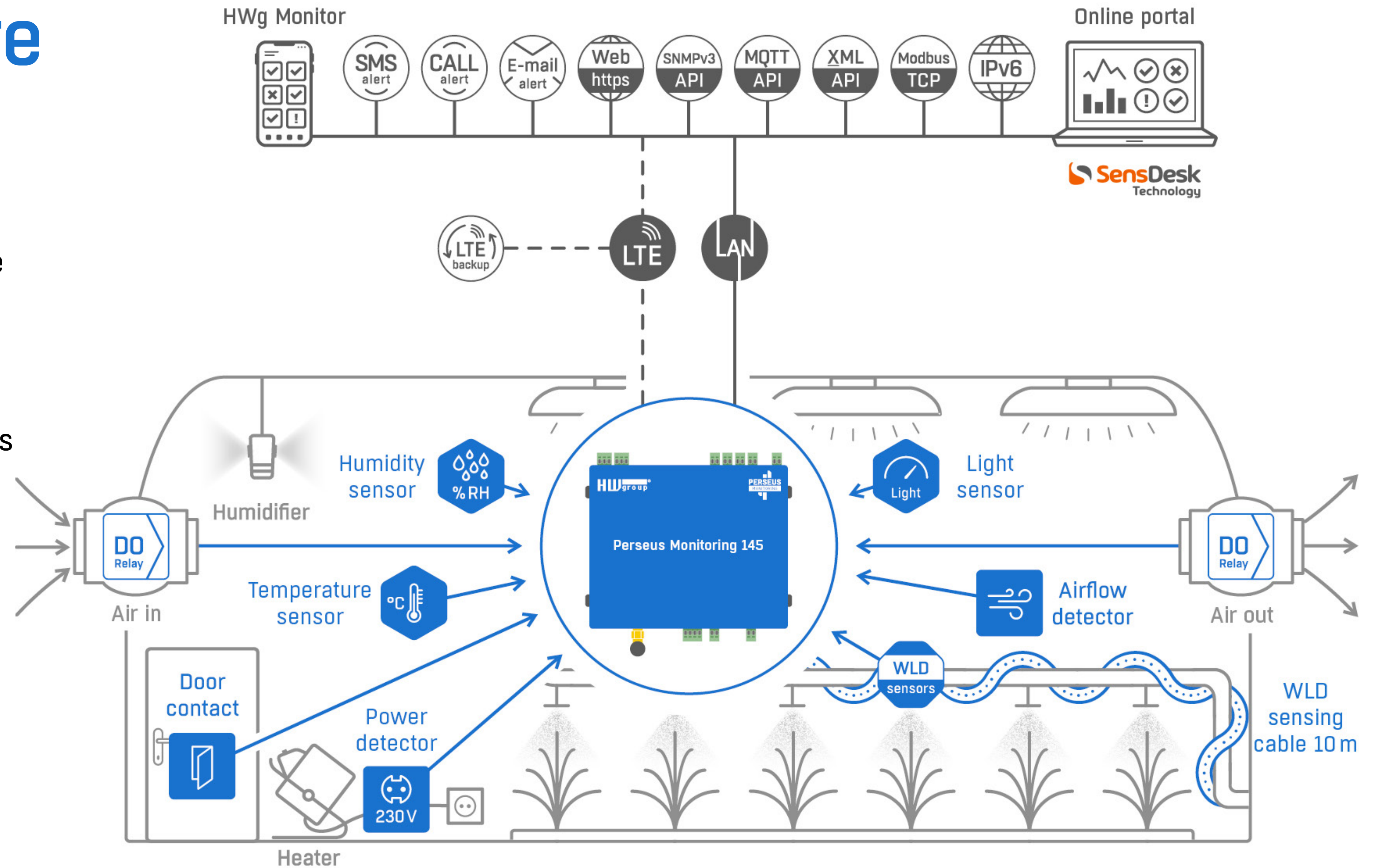
- Multiple alarm types – text message (SMS), email, dialing a number, horn
- Logging of temperature and humidity, many other functions
- One-off purchase only, no hidden fees / recurring costs
- Certification options



Agriculture

Requirements

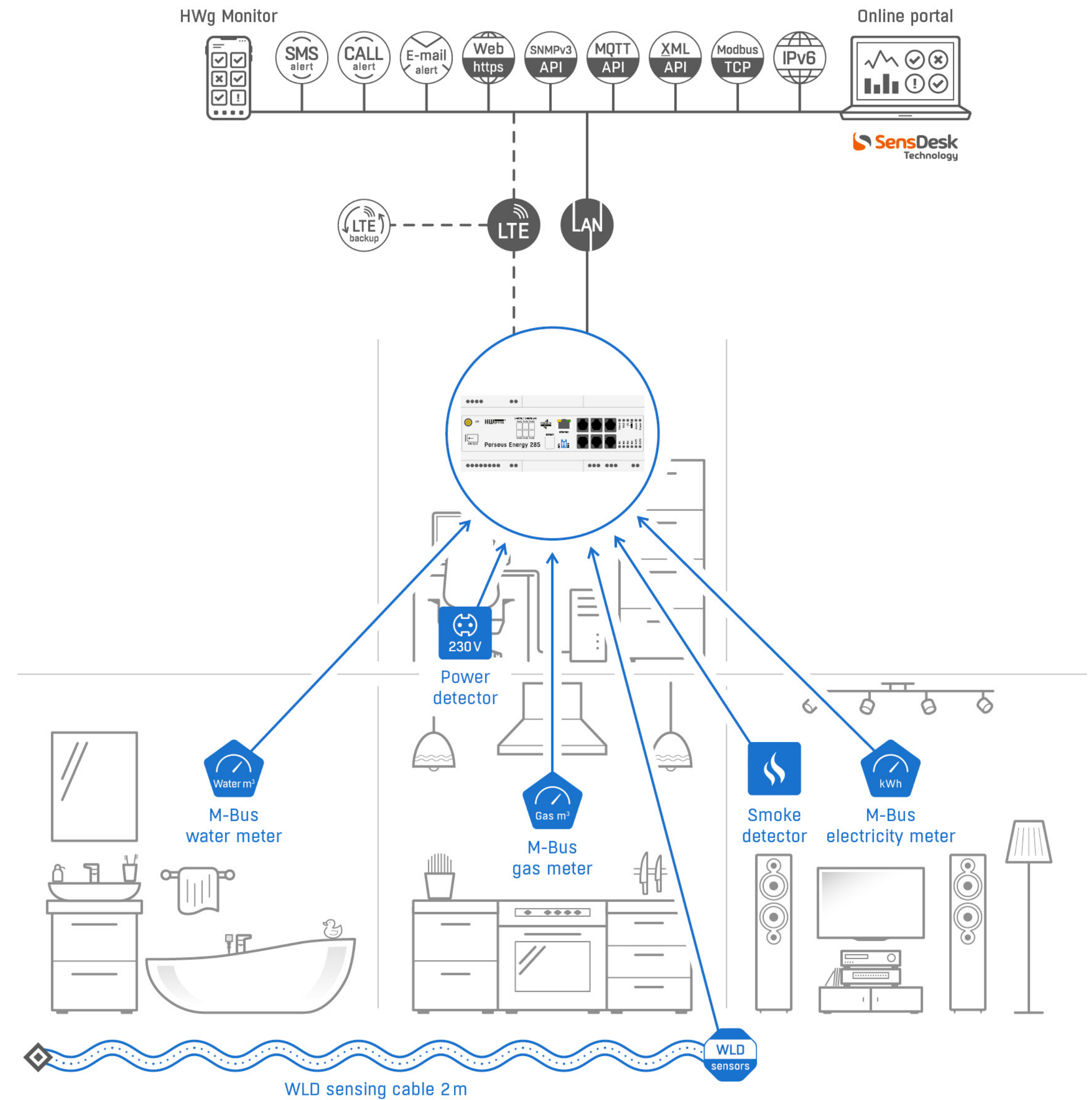
- Internal memory
- Data collection software
- Online portal
- Several protocol types
- Alarm escalation options



Energy consumption

Requirements

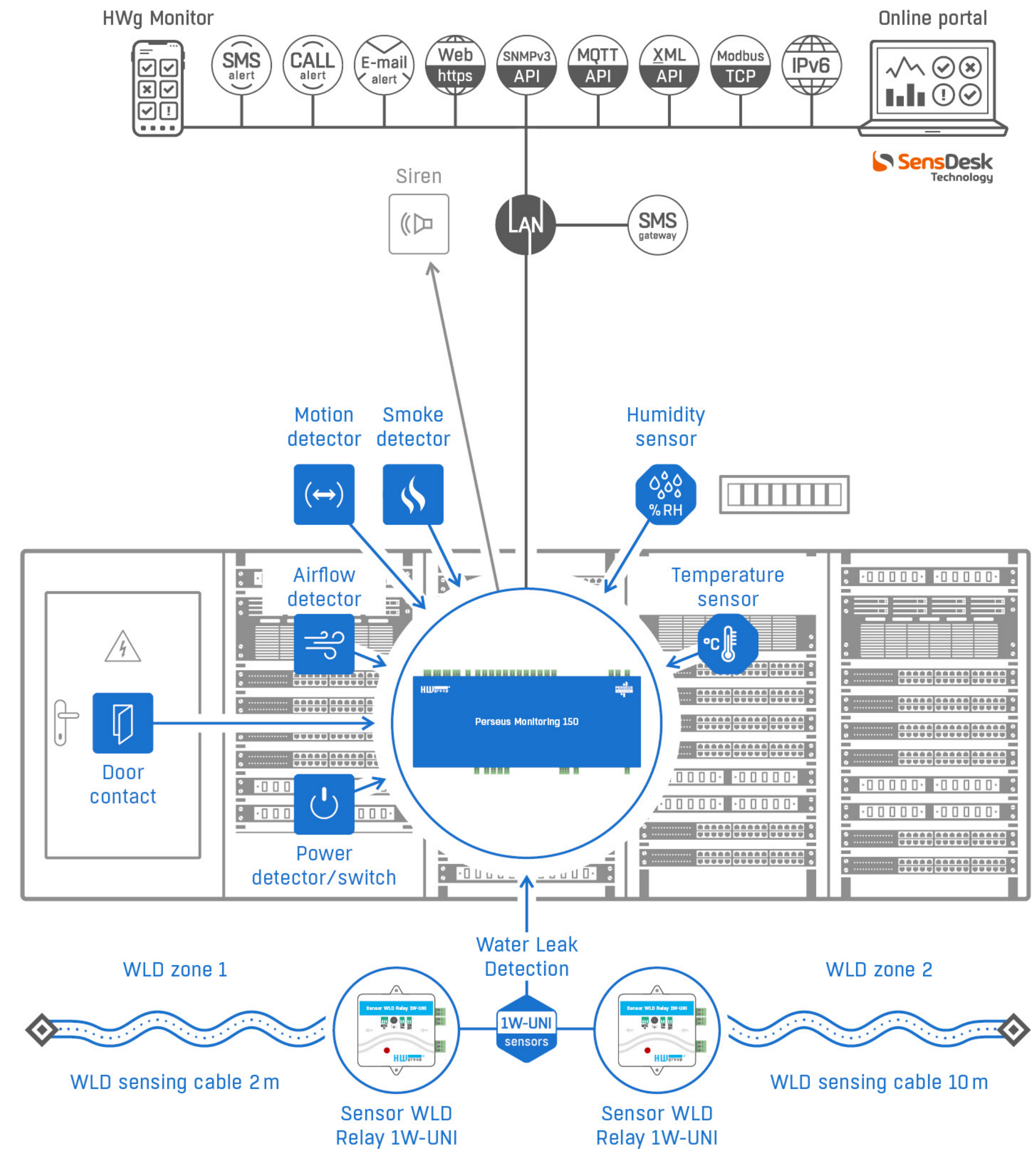
- Data are always precise, no need to involve human labor
- Access to data, including history
- One-off purchase only, no hidden fees / recurring costs
- Multiple protocols
- 3rd party sensors and meters



Datacenters

Requirements

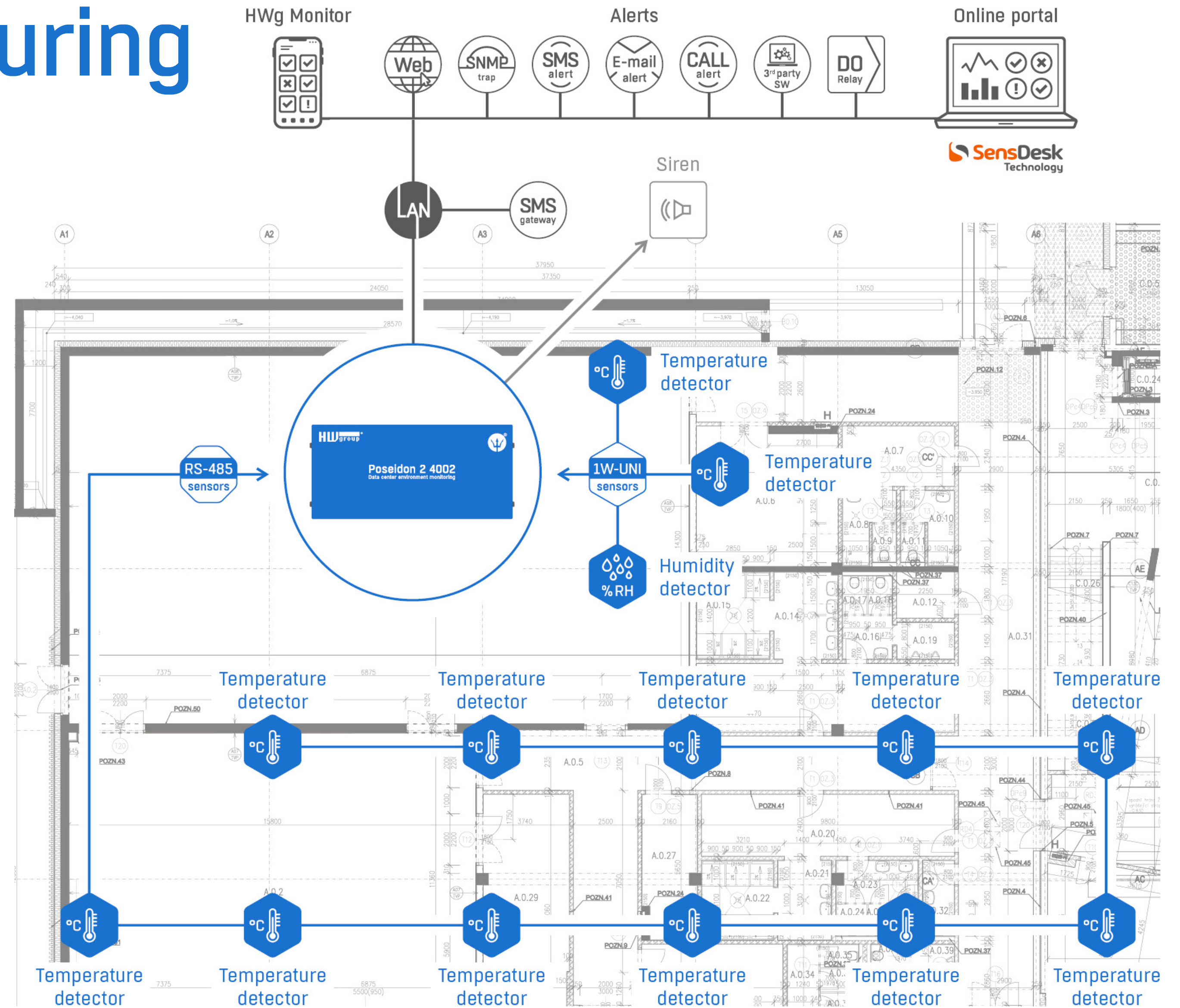
- Temperature/humidity sensors with the 1-Wire bus or RS-485
- Digital inputs, including for 3rd party detectors, digital outputs
- Water sensing cable
- Communication using SNMP, MQTT
- Alarms via SMS, email, SNMP trap, relay activation



Industry & manufacturing

Requirements

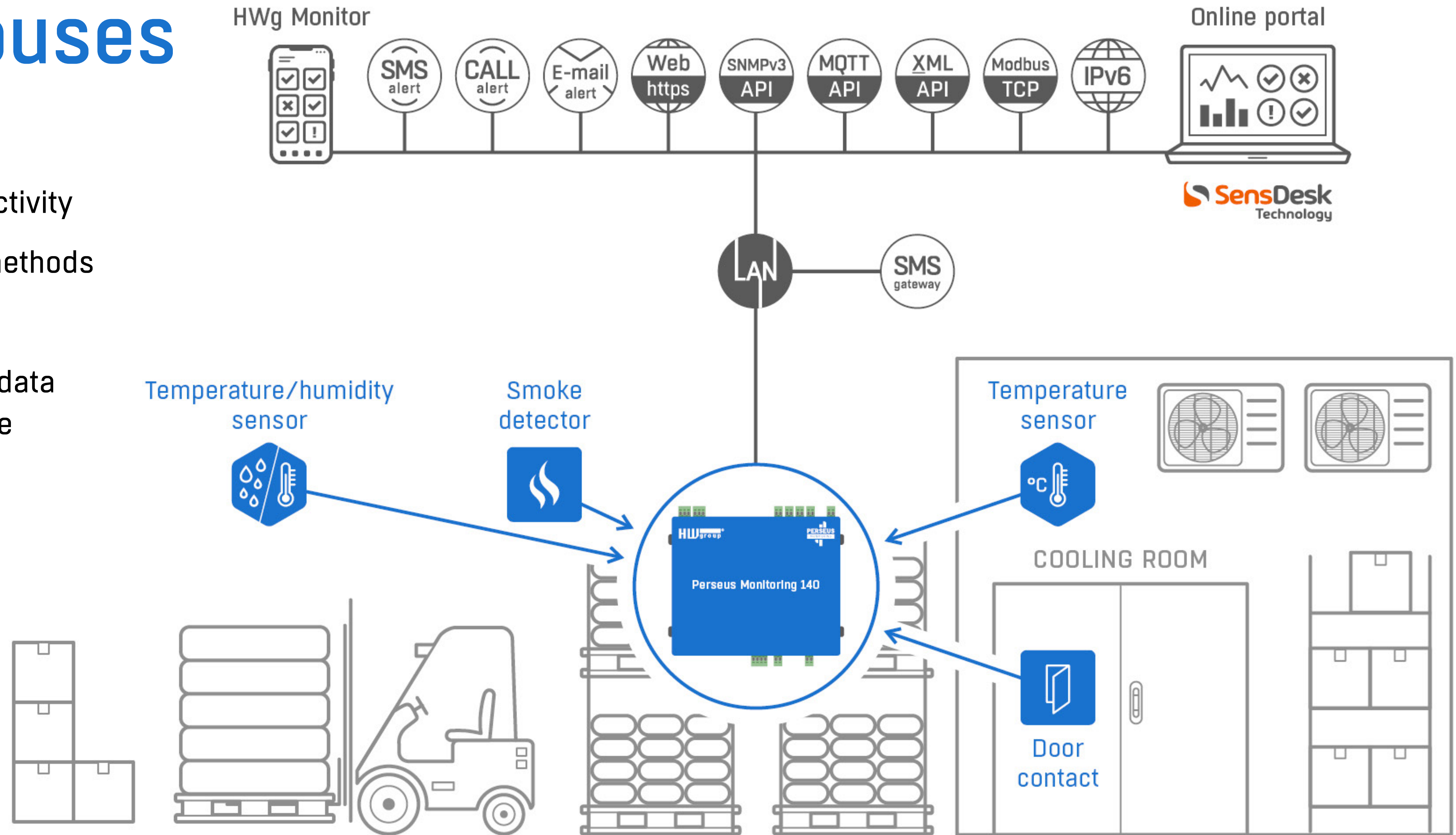
- High scalability of sensors (temperature, construction, producer, costs)
- High reliability of data transmission
- Quick and easy fault detection
- Remote access to monitoring data and alerts



Warehouses

Requirements

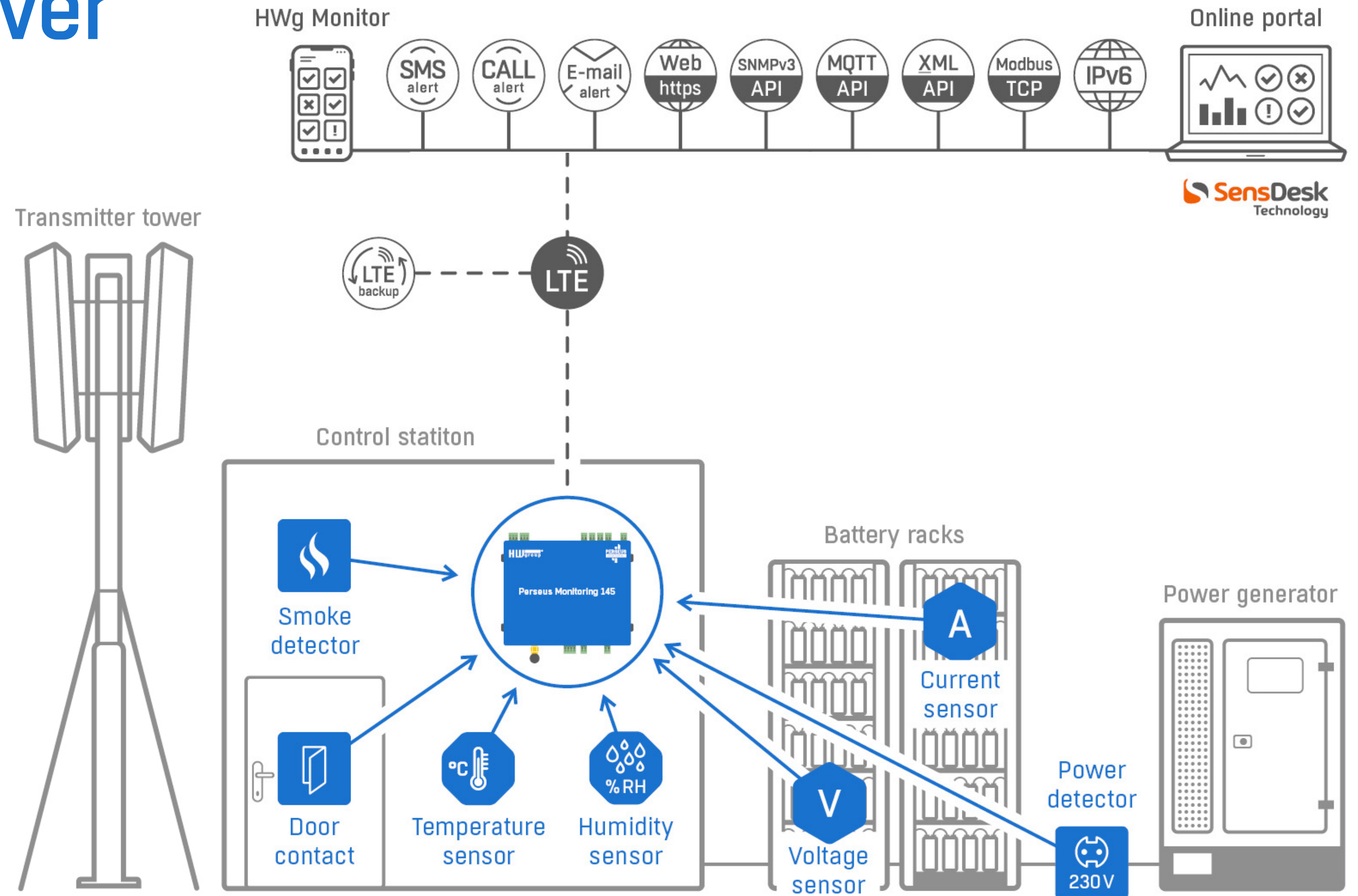
- LAN or LTE connectivity
- Several alerting methods
- No recurring fees
- Online portal and data collection software



Base transceiver station

Requirements

- Multiple alarm types – text message (SMS), email, dialing a number, activating a relay
- Logging of temperature and humidity, many other functions
- Motion detectors, door contacts
- Battery status monitoring, back-up power supply activation
- One-off purchase only, no hidden fees / recurring costs





SensDesk portal

*You can do with or without the portal.
But here is how it makes things easier for you.*

- Ultimate scalability:
 - **SensDesk.com** – end users and small projects
 - **SensDesk PRO** – private and company installations
 - **SensDesk DC** – for distributors and enterprise
- Easy topology and deployment
- Portal for everything:
 - Monitoring, reporting and analysis
 - Alarming and output control
 - Device management and setup
 - Mass operations and upgrades
- Connects to 3rd party systems



SensDesk portal

*IoT monitoring portal
that you can resell.*

- Robust technology (SensDesk.com – over 50 000 sensors)
- More than 10 years of development and testing
- Frequent upgrades and new features

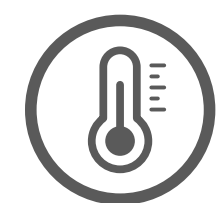
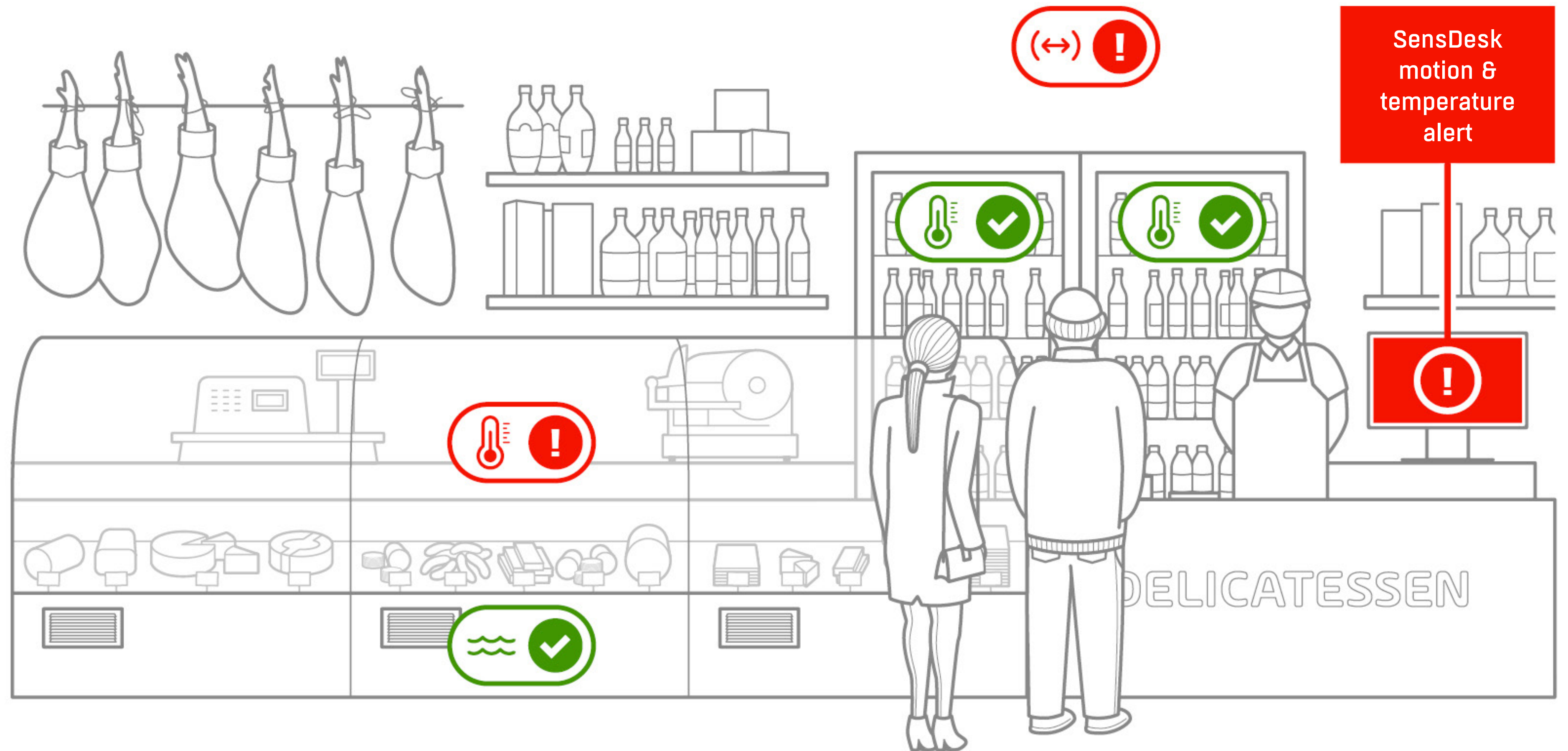
The screenshot shows the SensDesk.com portal interface. At the top left is the SensDesk.com logo. On the top right, there is a 'demo' label, an 'Adopt device' button, a user profile icon, a notification bell icon, and an orange badge that says 'ACTIVE 1861 DAYS'. Below the header is a navigation bar with tabs for 'Dashboards', 'Devices', 'Sensors', 'Locations', 'Device groups', 'Multigraphs', and 'Settings'. The 'Locations' tab is selected. The main content area is titled 'Home' and 'Locations'. It features a search bar for 'Name', a 'Sort by' dropdown menu set to 'Name', and a 'Clear filter' button. There is also an 'Add location' button and a world map with an orange location pin icon. Below the search and filter options, there is a summary card for 'HWg Prague' showing '87 Sensors'. This card includes a pie chart and a list of sensor statuses: 83 with a green checkmark, 0 with a red exclamation mark, 0 with an orange 'x', and 4 with a grey 'x'. Below the sensor summary, it shows '3 Sublocations' and '5 Devices' with a '+ Manage Devices' button.

SensDesk Technology based solutions

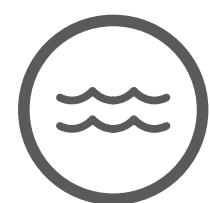
Stores & retail

Requirements

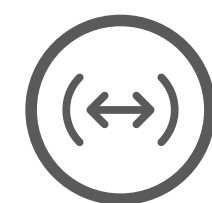
- Temperature and humidity
- Water leaks and fire detection
- Motion detection
- Automatic reports
- Easy installation



Thermometer



Water leak detector

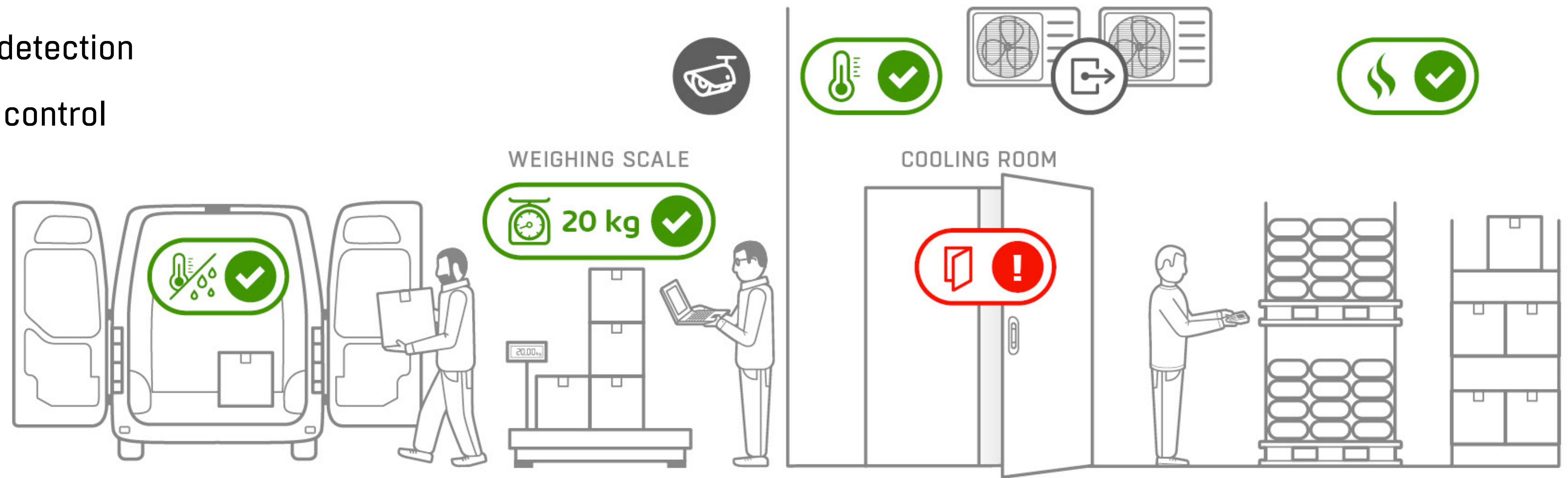


Motion detector

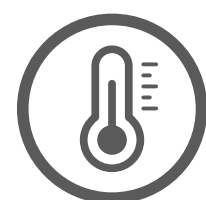
Warehouses & storage rooms

Requirements

- Temperature and humidity
- Water leaks and fire detection
- Remote air condition control
- Intrusion detection
- Easy deployment



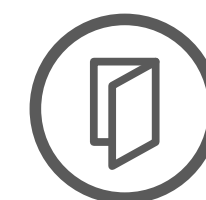
Scale



Thermometer



Smoke detector



Door contact detector



Thermometer / humidity detector

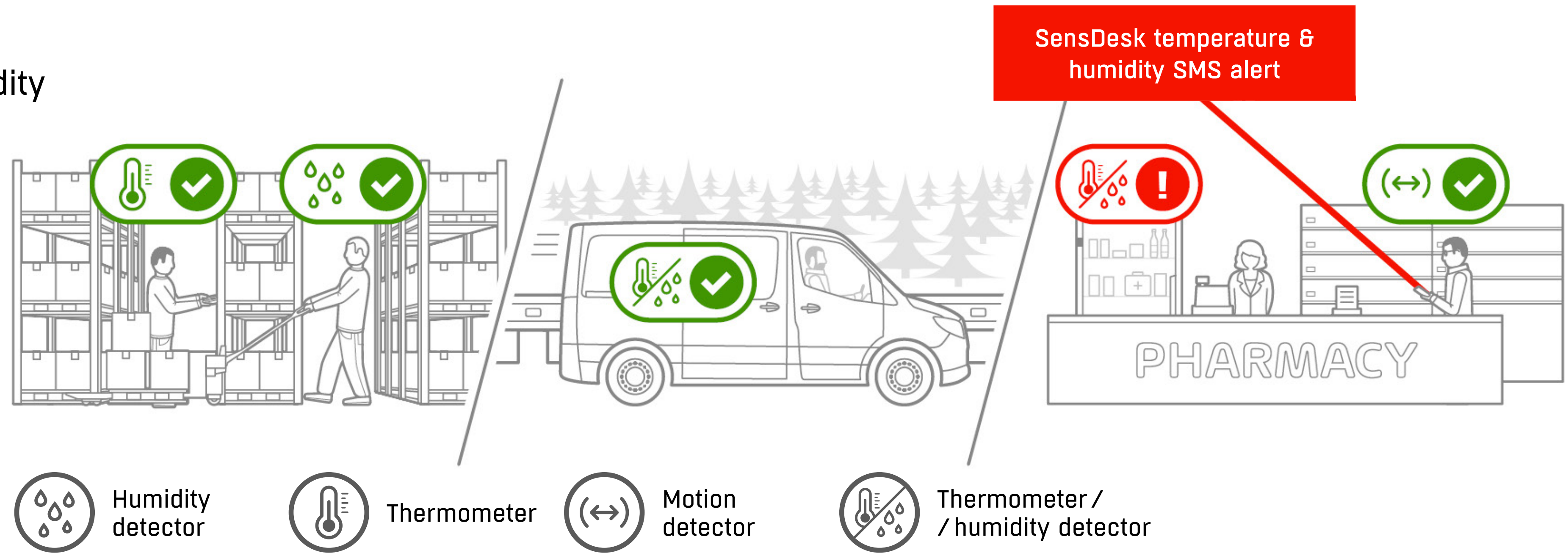


Relay output

Pharmacy & medical

Requirements

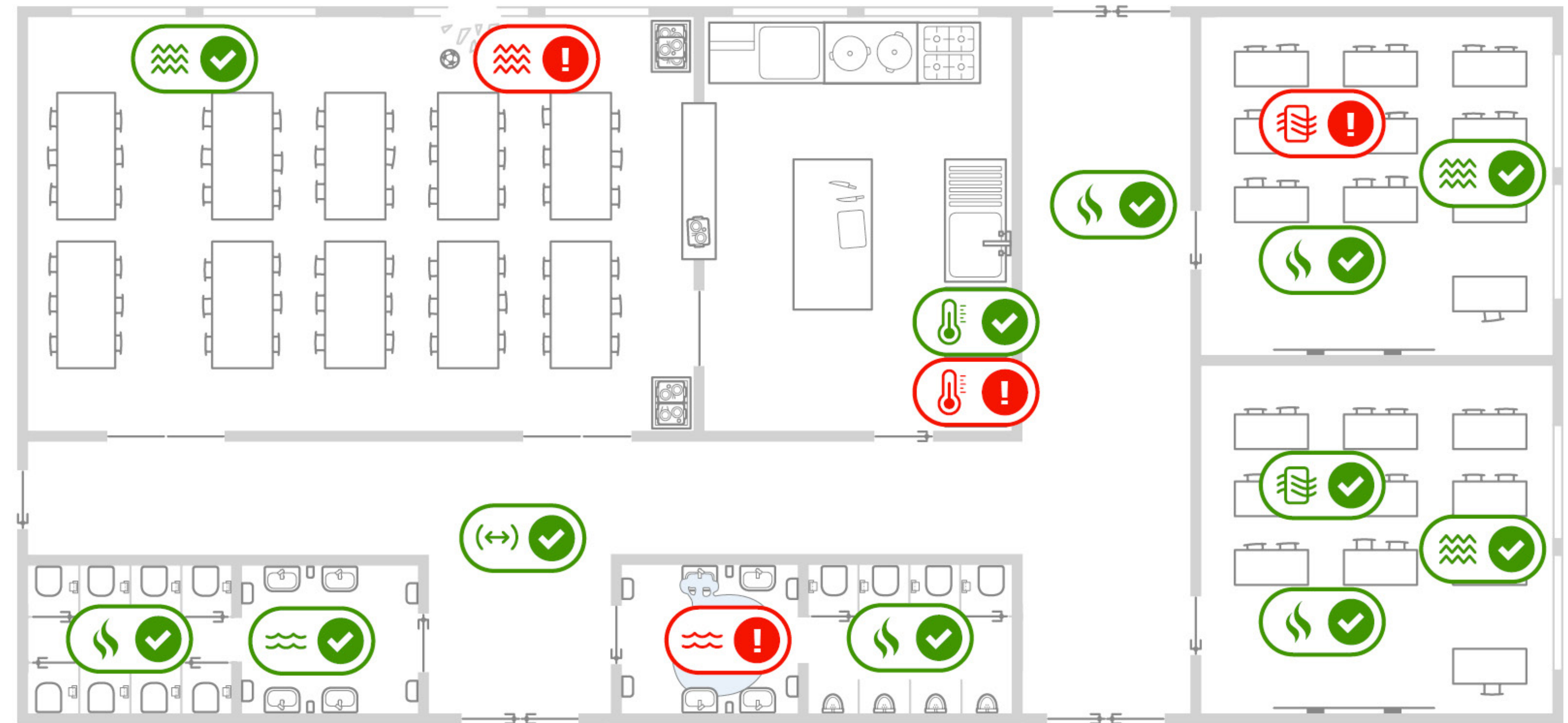
- Temperature and humidity
- Precise flat sensors for fridges
- Wide temperature range (-200 °C)
- Easy installation and setup
- Multiple fridges and sites



Schools & public buildings

Requirements

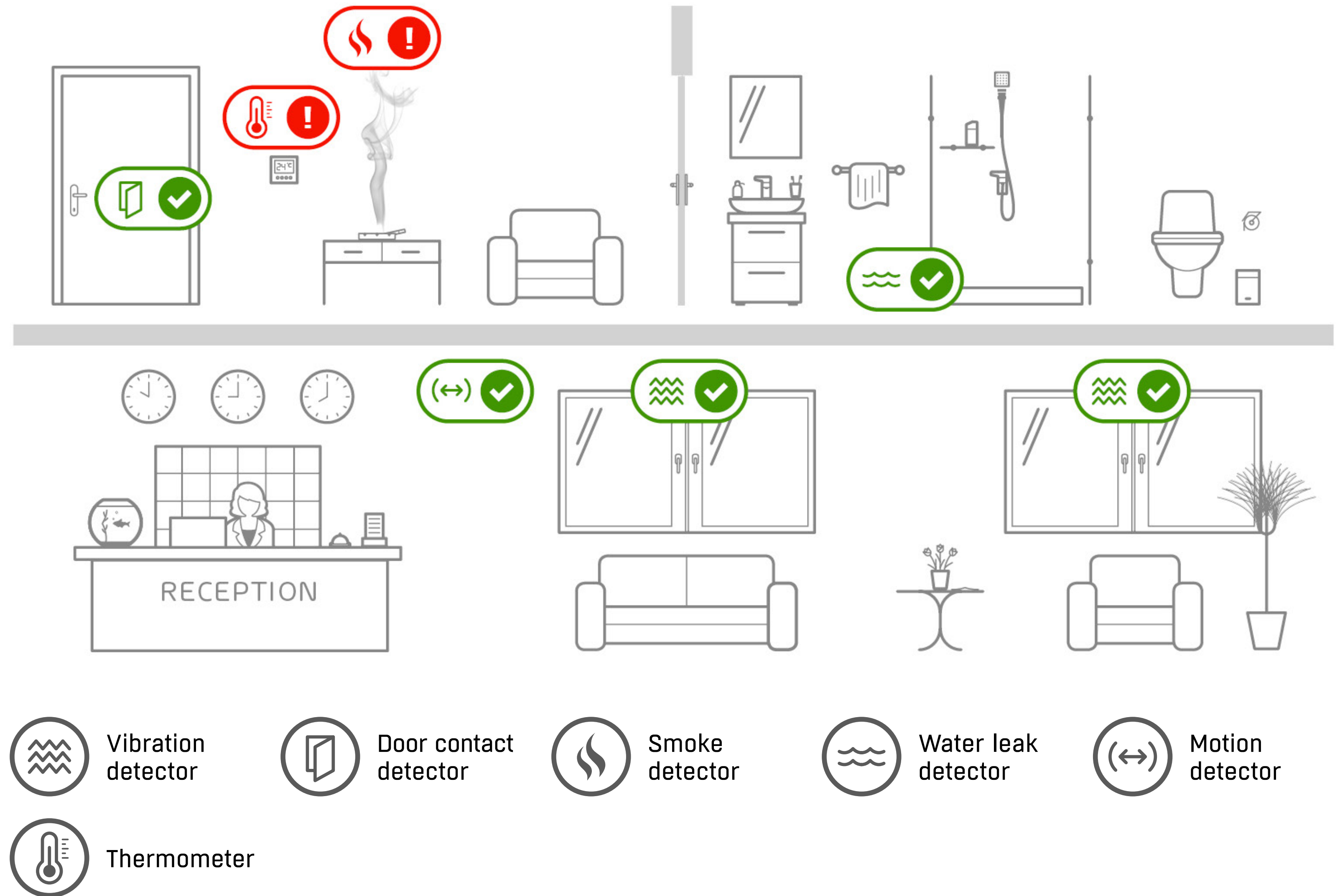
- Complex IoT monitoring
- Hundreds of measuring points
- Detailed analysis of data, reports
- Several layers of alarming
- Access control solution available



Hotels & house rentals

Requirements

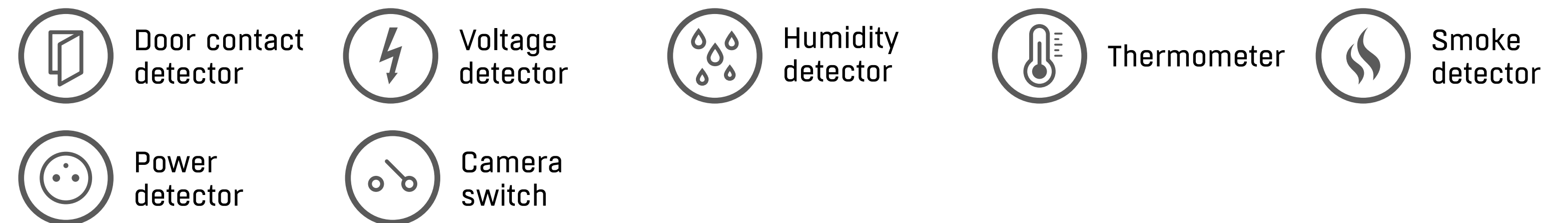
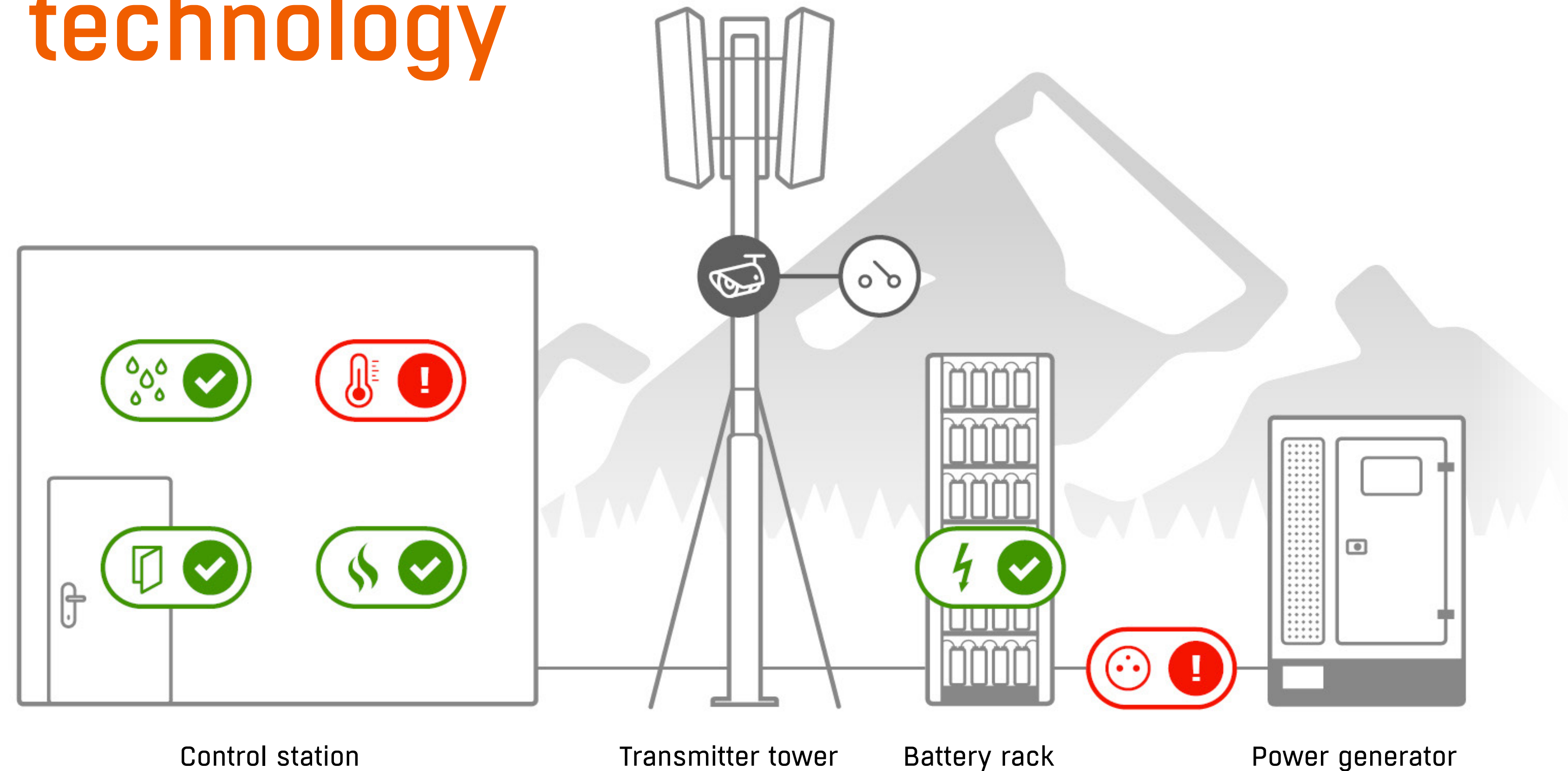
- Complex IoT monitoring
- Detailed analysis of data, reports
- Several layers of alarming
- Access control solution available
- Billing and consumption data



BTS stations & technology

Requirements

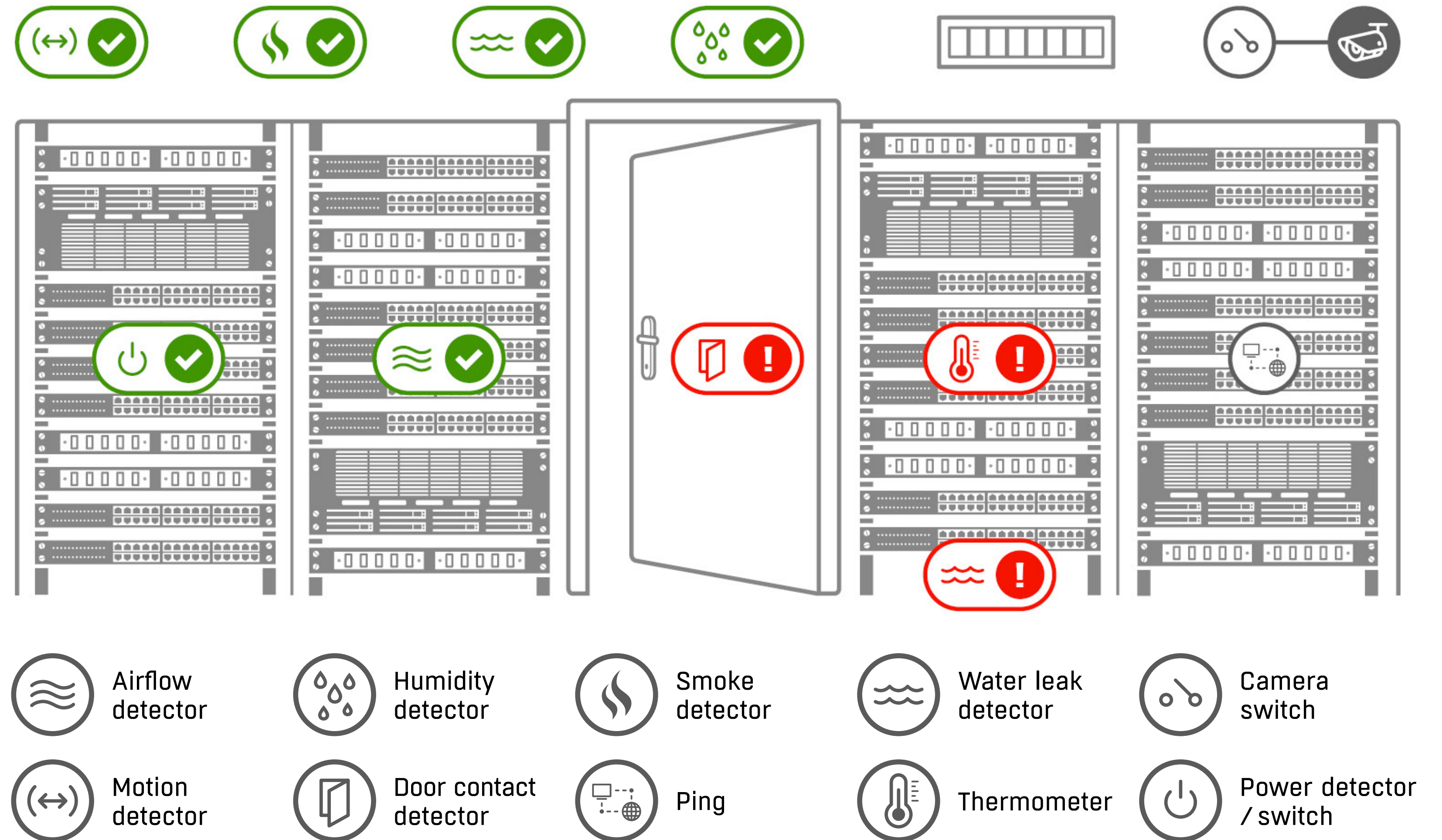
- Complex remote monitoring
- Hundreds of measuring points
- Detailed analysis of data, reports
- Several layers of alarming
- User levels and management
- Output data to other systems



Data centers & server rooms

Requirements

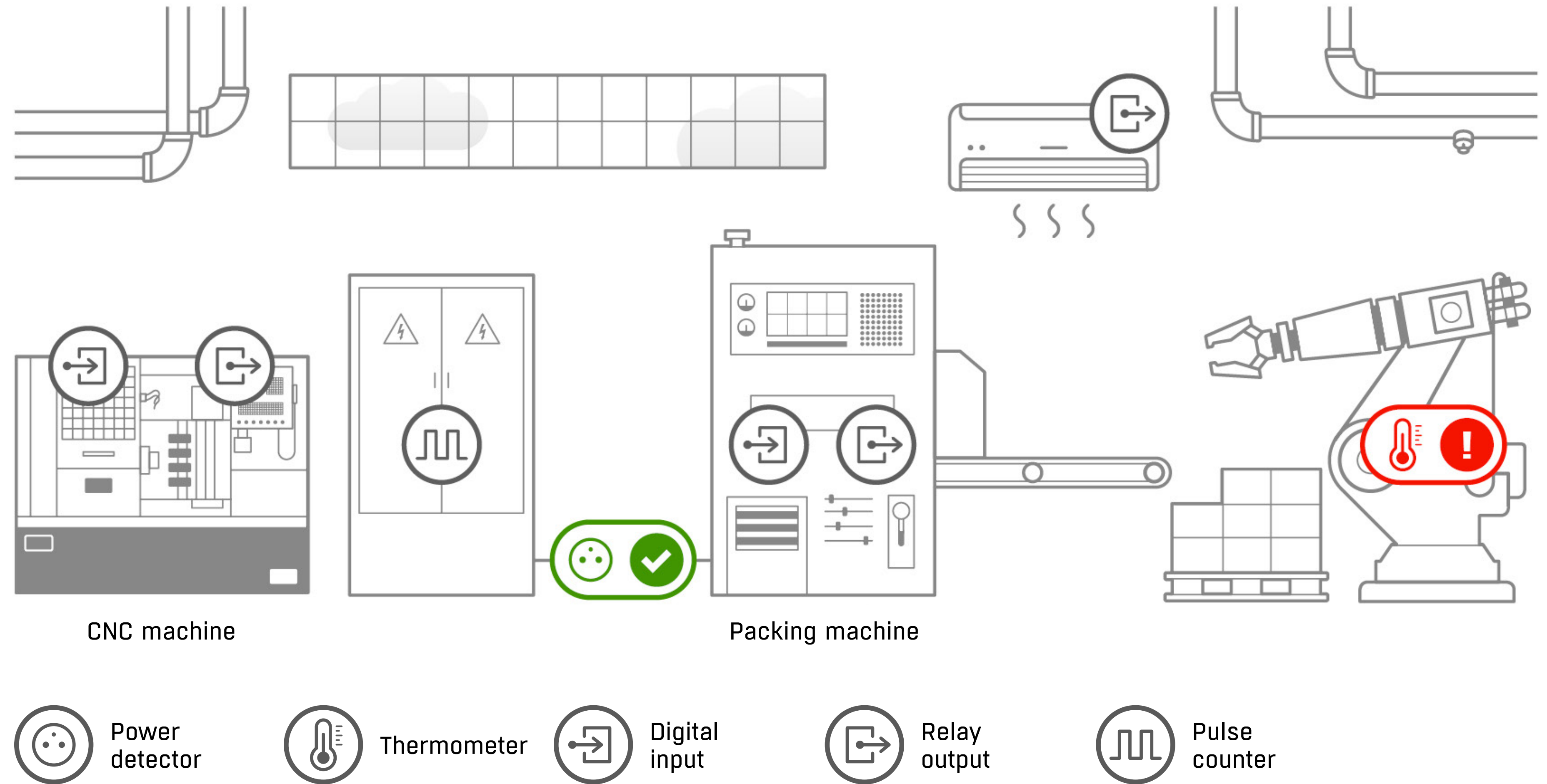
- Temperature and humidity
- Water leaks and fire detection
- Motion detection
- Access control
- SNMP v3
- Technology can be retrofitted



Industry & manufacturing

Requirements

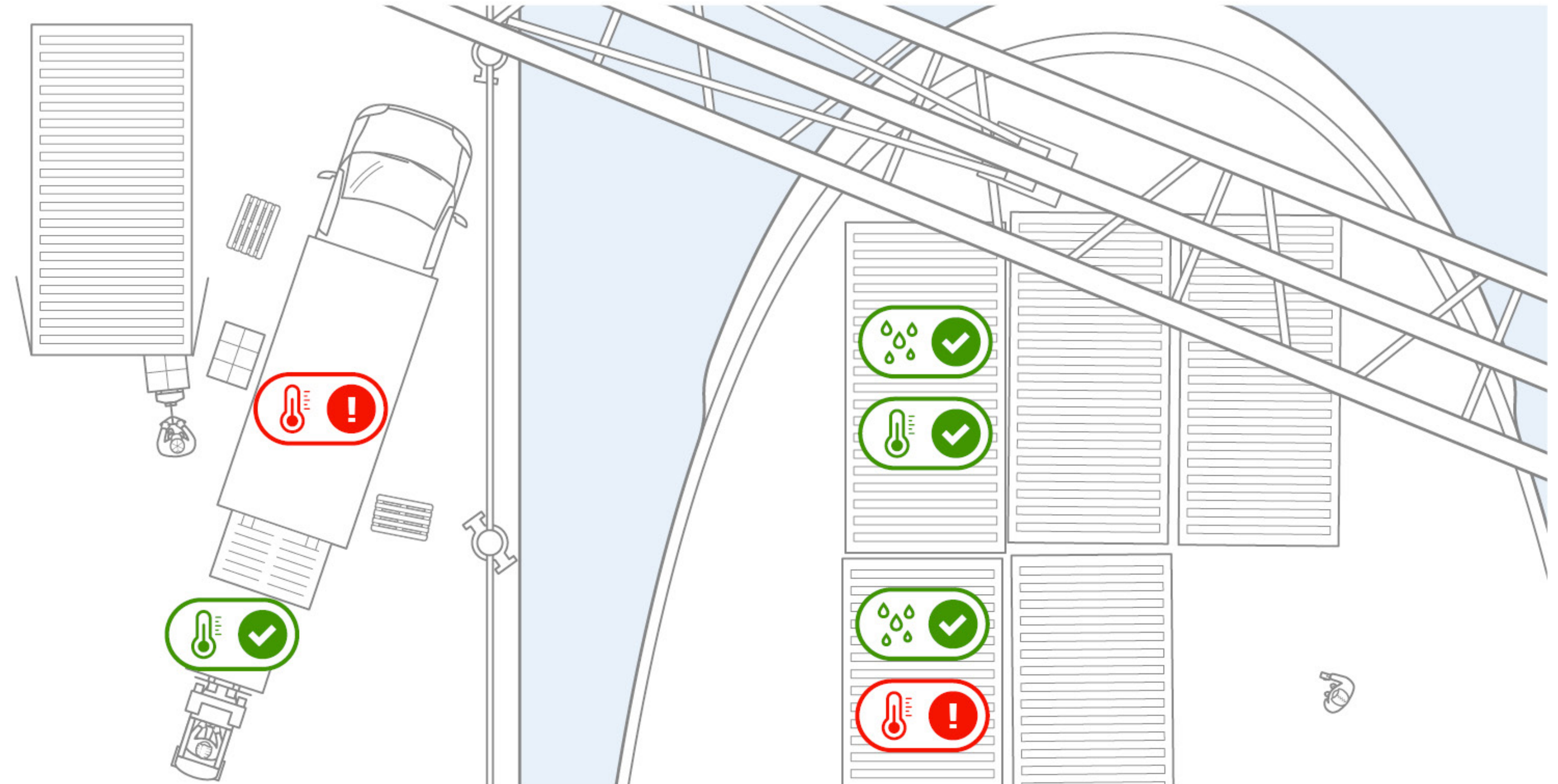
- Industrial I/O and RS-232
- Pulse counters
- Motion detection
- Industrial grade devices
- Connectivity to 3rd party systems



Logistics & transportation

Requirements

- Temperature and humidity
- Water leaks and fire detection
- Intrusion
- Automatic reports
- Battery backup
- LTE or NB-IoT connectivity



Humidity detector



Thermometer

Customer references

For the last 22 years we were lucky enough to provide services to the following companies.
We would be thrilled if your customers were next.





Thanks for attention

www.hw-group.com