



Wireless Temperature Sensors

Wireless Temperature Smart Sensors

Use a variety of IoT sensors to effortlessly track temperatures.

Remote Early Warning Temperature Monitoring Solutions help you maintain proper temperatures with alerts sent to you, in real-time, when temperatures goes outside your pre-set range.

You need an automated remote monitoring system to keep assets like food, vaccines, equipment, and environments at safe and comfortable temperatures 24/7. Use Alegna's Temperature Monitoring Solutions—with Standard, High, Low, Duct, and Digital Temperature Sensors—anywhere changes degrade performance, assets, or safety. If temps rise or fall outside thresholds, get an alert via email, text, or call to step in and protect your organization and assets.

Keep Critical Assets at Safe Temperatures

People count on Alegna™ Sensors to monitor temperatures in food storage and services, commercial facilities, greenhouses, cold chain logistics, vaccine fridges, data centers, HVAC systems, water management, and more. Automatically monitor and report temperature to prevent excursion events. Meet data-logging compliance in pharmaceutical laboratories and food production.

Alegna offers its Wireless and Power over Ethernet (PoE) Temperature Sensors in commercial, enterprise, and industrial models spanning from -200°C to 0°C (-328°F to 32°F) to -50°C to 370°C (-58°F to 700°F).

Benefit From Built-In Advanced Features:

- Fully automated data logging—ideal in pharma and food service and production
- Cloud-based monitoring with real-time alerts—take action immediately if temperatures rise or fall outside set ranges
- 25-month NIST Traceable Calibration Certification—this option helps ensure regulatory compliance
- Plug and play simplicity—install sensors and start monitoring within 15 minutes
- Bank-grade security—protect data communications with high-level authentication

Find the right *temperature sensor* for the job below.

Applications

- Remote Temperature Monitoring
- Pipe Temperature Monitoring
- Warehouse Temperature Monitoring
- HVAC System Monitoring
- Server Room Temperature Monitoring
- Ovens And Cooking Device Monitoring
- Environmental Monitoring
- K9 Unit Temperature Monitoring
- Vacant Property Monitoring
- Vaccine Storage Monitoring
- Cooler & Freezer Monitoring
- Greenhouse Temperature Monitoring
- Laboratory Fridge Monitoring
- Morgue Storage Monitoring

Smart Sensor

Features

- 2000+ ft. Range through 18+ Walls
- Up to 12 Years of Battery Life
- Automated Data Logging

Benefits

- Unbeatable Range Eases Networking
- Dependable, Worry-free Operation
- Streamlined Compliance & Data Analysis

NOTE: See more Smart Products below.

Standard Temperature Smart Sensors

Monitor the temperature of virtually anything.

Remote temperature monitoring continues to be the most popular Internet of Things (IoT) solution across many use cases. Global enterprises trust Alegna's **Standard Temperature Sensors** to protect equipment, inventory, and personnel.

It's critical to know the temperature of a wide variety of things like food, motors, coolers, rooms, water, trucks, grow houses, and more so you can predict maintenance and prevent problems.

Alegna™ Sensors issue an alert via text, email, or call when the temperature exceeds preset thresholds set in cloud-based software.

Ranging from a compact wireless coin cell (CC) battery-powered unit to a Power over Ethernet (PoE) sensor to an intrinsically safe, IECEx-certified temperature sensor, there's a temperature monitoring solution for many industry applications and nearly any business or facility.

Common & Uncommon Temperature Sensor Uses

- Ambient temperature monitoring
- Pharmaceutical production
- Logistics & warehouses
- Petrochemical facilities
- Facility & property management
- Cold storage in food services & health care
- Greenhouses & grow houses
- Data center & server room monitoring
- Hot yoga & pilates studios
- K-9 unit, pet & animal welfare
- Morgues & mortuaries
- Bedbug remediation
- HVAC system performance (Operation & Testing)
- Fish farms & aquaculture
- Swimming pool & hot tub monitoring
- Data Center Monitoring
- Environmental monitoring
- Smart machines & smart structures

Tailor an Alegna Wireless Standard Temperature Sensor to a specific need to measure temperature between -40°C and 125°C (-40°F and 257°F) with optional probes ranging from 3–100 feet.

Explore the entire range of Alegna's IoT Temperature Sensors below to find your remote temperature monitoring solution.

Be in compliance with industry-specific or health-related regulations that requires maintaining and tracking data-logging and more.

We can also help you meet the temperature and humidity requirements of the Hazard Analysis Critical Control Point (HACCP) food safety management system mandated by the U.S Department of Agriculture (USDA).

Applications

- Remote Temperature Monitoring
- Frozen or Burst Pipe Monitoring
- HVAC System Monitoring
- Server Room Temperature Monitoring
- Environmental Monitoring
- K9 Unit Temperature Monitoring
- Vacant Property Monitoring
- Coolers & Freezer Temperature Monitoring
- Greenhouse Temperature Monitoring
- Heat Remediation Of Bed Bugs
- Ambient Temperature Monitoring
- Smart Machines & Smart Structures

Choose the Right Smart Sensor for You!

Enterprise AA-battery powered: Our most popular type is ideal for typical commercial and enterprise environments, such as server rooms. A 2,000+ ft. through 18+ walls wireless range when connected to an Alegna-X1L Gateway readily covers most facilities.

CC-battery powered: The compact sensor is great for space-restricted areas such as control cabinets or cold storage.

Industrial: The sensor's weatherproof, NEMA-rated enclosure withstands demanding indoor/outdoor use, e.g., warehouses and production facilities.

ALEG-TA-IS1X: Approved for industrial applications or use cases in potentially hazardous areas with explosive atmospheres.

PoE•X: Power over Ethernet sensors integrate with a building's PoE network; it can also be used with a standard Ethernet infrastructure and powered via an optional AC adapter.

ALEG-Wi WiFi: This discreet sensor uses your Wi-Fi for networking and data transmission—popular for smaller businesses and facilities.

Smart Sensor Features & Benefits

Features

- 2,000+ ft. Range through 18+ Walls
- Up to 12 Years of Battery Life
- Automated Data Logging

Benefits

- Unbeatable Range Eases Networking
- Dependable, Worry-free Operation
- Streamlined Compliance & Data Analysis

NOTE: See more Smart Products below.

Wireless Temperature Smart Sensors

Use A Variety of IoT Sensors to Effortlessly Track Temperatures.

You need an automated remote monitoring system to keep assets like food, vaccines, equipment, and environments at safe and comfortable temperatures 24/7. Use Alegna's Temperature Monitoring Solutions—with Standard, High, Low, Duct, and Digital Temperature Sensors—anywhere changes degrade performance, assets, or safety. If temps rise or fall outside thresholds, get an alert via email, text, or call to step in and protect your organization and assets.

Keep Critical Assets at Safe Temperatures

People count on Alegna Sensors to monitor temperatures in food storage and services, commercial facilities, greenhouses, cold chain logistics, vaccine fridges, data centers, HVAC systems, water management, and more. Automatically monitor and report temperature to prevent excursion events. Meet data-logging compliance in pharmaceutical laboratories and food production.

Alegna offers its Wireless and Power over Ethernet (PoE) Temperature Sensors in commercial, enterprise, and industrial models spanning from -200°C to 0°C (-328°F to 32°F) to -50°C to 370°C (-58°F to 700°F).

Benefit From Built-In Advanced Features:

- Fully automated data logging—ideal in pharma and food service and production
- Cloud-based monitoring with real-time alerts—take action immediately if temperatures rise or fall outside set ranges
- 25-month NIST Traceable Calibration Certification—this option helps ensure regulatory compliance
- Plug and play simplicity—install sensors and start monitoring within 15 minutes
- Bank-grade security—protect data communications with high-level authentication

Applications

- Remote Temperature Monitoring
- Pipe Temperature Monitoring
- Warehouse Temperature Monitoring
- HVAC System Monitoring
- Server Room Temperature Monitoring
- Ovens And Cooking Device Monitoring

- Environmental Monitoring
- K9 Unit Temperature Monitoring
- Vacant Property Monitoring
- Vaccine Storage Monitoring
- Cooler & Freezer Monitoring
- Greenhouse Temperature Monitoring
- Laboratory Fridge Monitoring
- Morgue Storage Monitoring

Smart Sensor Features & Benefits

Features

- 2000+ ft. Range through 18+ Walls
- Up to 12 Years of Battery Life
- Automated Data Logging

Benefits

- Unbeatable Range Eases Networking
- Dependable, Worry-free Operation
- Streamlined Compliance & Data Analysis

NOTE: [See more Smart Products below.](#)

High Temperature Sensors

Minimize Risks Monitoring Critical Environments

Alegna's High-Temp Sensors remotely monitor commercial ovens, heaters, furnaces, boilers, and other can't-fail applications with a -50°C to +370°C (-58°F to +700°F) temperature range. A temperature swing will trigger a sensor alert for you (or onsite personnel) via email, text, or call.

Obtain Temperature Data You Need

Choose from enterprise, industrial-grade, or Power over Ethernet (PoE) sensors to monitor smart facilities and production lines, or track HVAC performance. Each employs a glass-coated platinum resistance thermometer (RTD) for accuracy. An industry-leading 25-month NIST Certification is available.

These wireless and PoE high-temperature sensors excel in dry, low-humidity areas; select an Alegna™ Thermocouple Sensor for high-humidity, high-temperature locations.

Start tracking high-temp machines and processes today with one of Alegna's high temperature smart sensors.

Applications

- Boiler Temperature Monitoring
- Ovens And Cooking Device Monitoring
- Heater Temperature Monitoring
- HVAC System Monitoring To Detect Failures Or Heating/Cooling Issues
- Ambient Temperature Monitoring
- Environmental Monitoring
- Smart Machines & Smart Structures
- HVAC Operation & Testing
- Data Center Monitoring

Choose the Right Smart Sensor for You!

Enterprise AA-Battery Powered: Our most popular type is ideal for typical commercial and enterprise environments, such as server rooms. A 2,000+ ft. through 18+ walls wireless range when connected to an Alegna X1L-Gateway readily covers most facilities.

CC-battery powered: Compact sensor is great for space-restricted areas such as control cabinets or cold storage.

Industrial: Sensor's weatherproof, NEMA-rated enclosure withstands demanding indoor/outdoor use, e.g., warehouses & production facilities.

PoE•X: Power over Ethernet sensors integrate with a building's PoE network; it can also be used with a standard Ethernet infrastructure & powered via an optional AC adapter.

MoWi: This discreet sensor uses your own Wi-Fi for networking and data transmission—popular for smaller businesses and facilities.

Smart Sensor

Features

- 2,000+ ft. Range through 18+ Walls
- Up to 12 Years of Battery Life
- Automated Data Logging

Benefits

- Unbeatable Range Eases Networking
- Dependable, Worry-free Operation
- Streamlined Compliance & Data Analysis

NOTE: See more Smart Products below.

Low Temperature Smart Sensors

Keep the Critical Ultra-Cold.

Many products, vaccines, pharmaceuticals, and research samples have varying development, production, and storage needs. They all require resilient, reliable, and proactive monitoring during the cold chain. Alegna's **Low Temperature Sensors** are a vital tool for [pharmaceutical](#) and [health care professionals](#), food manufacturers, and distributors.

Whether keeping vaccines in an ultralow temperature (ULT) freezer throughout your cold chain, remotely monitoring logistics for frozen commodities to and from warehouses, or cadaver storage monitoring in a morgue, you can count on Alegna's Low Temperature Sensors. The instant temperatures rise above your preset limits; you get a sensor alert sent via text, email, or call.

The Highlights of Low-Temp Sensors

Smart building-ready Alegna Wireless enterprise-sized AA battery-powered and industrial-grade, PoE•X* Power over Ethernet (PoE), MoWi* Wi-Fi Sensors are available. All wireless and PoE sensors have a 3' probe lead; 10' and 25' leads are optional. Each low-temp sensor can help you remotely monitor a range of temperatures at +/- 0.5°C calibrated accuracy from -200°C to 0°C/-328°F to 32°F. They're perfect for ULT freezers for vaccines, some of which require temperatures to be -80°C/-112°F and below.

Low Temperature Sensors are compliant data loggers to help you meet record-keeping and chain-of-custody regulations outlined by the Centers for Disease Control and Prevention (CDC) and Title 21 Code of Federal Regulations (CFR) Part 11 from the U.S. Food and Drug Administration (FDA).

These sensors excel in dry, low-humidity areas. Spec Alegna's Thermocouple Sensors, for high-humidity, high-temperature locations.

WARNING: The Low Temperature Sensor should not be used in submersible applications. It may be used in liquid nitrogen applications without concern for sensor failure.

Applications

- Freezers and Coolers
- Vaccine Storage Temperature Monitoring
- Cryogenic Storage Monitoring
- Environmental Monitoring
- Laboratory Sample Monitoring
- Cadaver Storage Monitoring
- Smart Machines & Smart Structures
- HVAC Operation & Testing

Choose the Right Smart Sensor for You!

Enterprise AA-battery powered: Our most popular type is ideal for typical commercial & enterprise environments, such as server rooms. A 2,000+ ft. through 18+ walls wireless range when connected to an Alegna Gateway readily covers most facilities.

CC-battery powered: Compact sensor is great for space-restricted areas such as control cabinets or cold storage.

Industrial: Sensor's weatherproof, NEMA-rated enclosure withstands demanding indoor/outdoor use, e.g., warehouses & production facilities.

PoE•X: Power over Ethernet sensors integrate with a building's PoE network; it can also be used with a standard Ethernet infrastructure & powered via an optional AC adapter

MoWi: This discreet sensor uses your own Wi-Fi for networking and data transmission—popular for smaller businesses and facilities.

Smart Sensor Features & Benefits

Features

- 2,000+ ft. Range through 18+ Walls
- Up to 12 Years of Battery Life
- Automated Data Logging

Benefits

- Unbeatable Range Eases Networking
- Dependable, Worry-free Operation
- Streamlined Compliance & Data Analysis

NOTE: See more Smart Products below.

Duct Temperature Smart Sensors

How Hot is the Air Blowing?

Now you'll always know HVAC performance with Alegna's Duct Temperature Sensors. These devices accurately measure ductwork temps while maintaining a sealed environment. If temps spike or fall beyond your preset limits, the sensors alert you (or onsite maintenance techs) via email, text, or call.

High Accuracy in High & Low Temperatures

Wireless sensors in commercial, enterprise, and industrial-grade housings, and a Power over Ethernet (PoE) sensor are available for duct monitoring. Each duct temp sensor features a probe temperature range of -40°C to 150°C (-40°F to 302°F) and an NTC-type thermistor with UL-listed plenum cable for superior accuracy.

Proactive duct monitoring prevents costly damage (e.g., frozen pipes) while keeping occupants comfortable.

Alegna's HVAC Monitoring Solutions can help you not only be reactive to alerts on your mobile device, but we can also help you predict the need for HVAC system maintenance and schedule downtime for service when it's convenient.

Protect facilities, occupants, and assets with one of the duct temperature sensors below.

Applications

- Air Duct Temperature Monitoring
- Data Center Monitoring
- Environmental Monitoring
- School and City Building Maintenance
- HVAC Operation & Testing
- Facility Health & Maintenance
- Smart Machines & Smart Structures
- Duct Temperature Sensor
- Grow House Environmental Monitoring

Choose the Right Smart Sensor for You!

Enterprise AA-battery powered: Our most popular type is ideal for typical commercial & enterprise environments, such as server rooms. A 2,000+ ft. through 18+ walls wireless range when connected to an Alegna X1L Gateway readily covers most facilities.

CC-Battery Powered: Compact sensor is great for space-restricted areas such as control cabinets or cold storage.

Industrial: Sensor's weatherproof, NEMA-rated enclosure withstands demanding indoor/outdoor use, e.g., warehouses & production facilities.

PoE•X: Power over Ethernet sensors integrate with a building's PoE network; it can also be used with a standard Ethernet infrastructure & powered via an optional AC adapter.

Smart Sensor Features & Benefits

Features

- 2,000+ ft. Range through 18+ Walls
- Up to 12 Years of Battery Life
- Automated Data Logging

Benefits

- Unbeatable Range Eases Networking
- Dependable, Worry-free Operation
- Streamlined Compliance & Data Analysis

NOTE: [See more Smart Products below.](#)

Digital Temperature Smart Sensors

Meet Data Redundancy Requirements at the Push of a Button.

Alegna's Digital Temperature Sensor builds on an award-winning remote monitoring platform by providing storage temperatures at the push of the button on a highly readable, four-digit LCD.

Data Redundancy Benefits:

- Checking temps in a power outage
- Temperature access for an entire department or shift
- Meet industry-specific regulations

Cold Storage Specialist

Our Digital Temperature Sensor has a range of -40°F to 257°F (-40°C to 125°C) to support food storage, clinical vaccine storage, research labs, and other health-related fields.

Regulation-Ready Smart Sensor

This sensor fulfills newer regulations that mandate redundant data retrieval (e.g., a push-button) when tracking sensitive medications. It also supports 21 CFR Part 11B programs, stemming from the FDA, that require document integrity controls for working with pharmaceuticals.

The Digital Temperature Sensor provides alerts via text, email, or call should temps deviate from user-set thresholds. Configure notifications, alerts, data logging, and reports via AlegnaSense™ Management Software Platform.

Researchers, retailers, and restaurateurs alike benefit from on-demand temperature readouts.

Applications

- Vaccine Storage Temperature Monitoring
- 21 CFR Part 11 Records Compliance
- Environmental Monitoring
- Food Production and Ingredient Monitoring
- Pharmacy Fridge and Freezer Temperature Monitoring
- HACCP Compliance
- Ambient temperature monitoring
- Data center monitoring
- Cooler and Freezer monitoring
- Laboratory monitoring
- Meeting Data Redundancy Regulations

Choose the Right Smart Sensor for You!

- Enterprise AA-battery powered: Our most popular type is ideal for typical commercial & enterprise environments, such as server rooms. A 2,000+ ft. through 18+ walls wireless range when connected to an Alegna's X1L Gateway readily covers most facilities.
- CC-battery powered: Compact sensor is great for space-restricted areas such as control cabinets or cold storage.
- Industrial: Sensor's weatherproof, NEMA-rated enclosure withstands demanding indoor/outdoor use, e.g., warehouses & production facilities.
- PoE•X: Power over Ethernet sensors integrate with a building's PoE network; it can also be used with a standard Ethernet infrastructure & powered via an optional AC adapter.
- MoWi: This discreet sensor uses your own Wi-Fi for networking and data transmission—popular for smaller businesses and facilities.

Sensor Features & Benefits

Features

- **2,000+ ft. Range through 18+ Walls**
- **Up to 12 Years of Battery Life**
- **Automated Data Logging**

Benefits

- **Unbeatable Range Eases Networking**
- **Dependable, Worry-free Operation**
- **Streamlined Compliance & Data Analysis**

Wireless Motion+Temp+Humidity Smart Sensor

React fast to movement and climate conditions in any facility.

Multi-Sensor & Facility Monitoring Master

There are so many things facility managers need to know. Plus, streamlined processes and best practices are essential to keep facility operations running smoothly. So why not let one sensor do the work of three to maintain secure and well-run facilities?

The easy-to-install, three-in-one **Alegna Wireless Motion+ Sensor** combines the power of monitoring people or animal movement, ambient temperature, and relative humidity (RH)—all simultaneously with one sensor. The AA battery-powered Alegna Motion+ Multi-Sensor can alert managers early and often when problems begin or even before they do in virtually any facility.

Remotely monitoring three of the most important facility operations conditions can prove valuable in facilities as diverse as office buildings, warehouses, factories, hospitals, clinics, labs, animal care, restaurants, art galleries, and greenhouses. There are many ways to benefit from this multi-sensor: **boost security, detect occupancy, protect inventory and equipment, optimize cleaning services, keep people and animals comfortable, and many more.**

Key Measurements by Alegna's Wireless Motion+ Sensor:

- Detect movement using a passive infrared (PIR) element ranging up to 4.5 meters or 15 feet and 80° viewing angle.
- Track area temperature between -40°F to +257°F (-40°C to +125°C).
- Monitor up to 100% RH with a scientific-grade element.

Get more detailed information about how Alegna's Motion+ Sensor can help keep employees, customers, animals, and facilities safe and climate conditions comfortable.

Applications

- Full-featured Room/area Monitoring
- Hospital Rooms
- Senior Care Monitoring
- Data Centers
- Manufacturing
- Rental Properties
- Warehouses
- Greenhouses
- Grow Houses

- Life Science Labs
- Food Processing Plants
- Pet and Animal Welfare Monitoring
- Apartment Complexes
- Grocery and Convenience Stores

Choose the Right Smart Sensor for You!

Enterprise AA-battery powered: Our most popular type is ideal for typical commercial & enterprise environments, such as server rooms. A 2,000+ ft. through 18+ walls wireless range when connected to an Alegna Gateway readily covers most facilities.

CC-battery powered: Compact sensor is great for space-restricted areas such as control cabinets or cold storage.

Industrial: Sensor's weatherproof, NEMA-rated enclosure withstands demanding indoor/outdoor use, e.g., warehouses and production facilities.

PoE•X: Power over Ethernet sensors integrate with a building's PoE network; it can also be used with a standard Ethernet infrastructure and powered via an optional AC adapter.

MoWi: This discreet sensor uses your own Wi-Fi for networking and data transmission—popular for smaller businesses and facilities.

Smart Sensor Feature & Benefits

Features

- 2,000+ ft. Range through 18+ Walls
- Up to 12 Years of Battery Life
- Automated Data Logging

Benefits

- Unbeatable Range Eases Networking
- Dependable, Worry-free Operation
- Streamlined Compliance & Data Analysis

NOTE: [See more Smart Products below.](#)

Wireless Food Probe Smart Sensor

Serve Superior Safety

Alegna's Wireless Food Probe replaces manual temperature checks with remote data collection for safety and quality. The Food Probe measures the internal temperature of food from -50°C to 260°C (-58°F to 500°F). Temperature is instantly displayed on an LCD; data can be automatically transmitted to the AlegnaSense™ Sensor Management Software for compliance and analysis.

The Food Probe was developed for a fast-food chain and is enclosed in an ergonomic IP67-rated case with seamless push-buttons to facilitate sanitation.

Delight with Data-driven Dishes

Automated data collection with this wireless food thermometer is reliable and repeatable. Thus, Alegna's 21 CFR part 11B compliant device helps producers and restaurants align with the FDA Food Modernization Act and fortify HACCP programs.

Automated Data Logging Benefits:

- Spot-check recipes or analyze production
- Provide a data trail from processing to preparation

Keep Secret Ingredients a Secret:

The Food Probe provides temperature data with bank-grade security and an industry-leading data transmission range of 1,200'. This food sensor is compatible with Alegna's AlegnaPrints, which authenticates data by "fingerprinting" sensors with an identity.

Restauranteurs and food producers rely on Alegna's Wireless Food Probe for quality control to protect their brands. Get yours below and harness the power of remote monitoring.

Applications

- Ovens And Cooking Device Monitoring
- Food Temperature Monitoring
- Automate Data-Logging
- CFR21 Compliance
- Food Service management

Choose the Smart Sensor Right for You!

Enterprise AA-battery powered: Our most popular type is ideal for typical commercial & enterprise environments, such as server rooms. A 1,200+ ft. range readily covers most facilities.

CC-battery powered: Compact sensor is great for space-restricted areas such as control cabinets or cold storage.

Industrial: Sensor's weatherproof, NEMA-rated enclosure withstands demanding indoor/outdoor use, e.g., warehouses & production facilities.

PoE•X: Power over Ethernet sensors integrate with a building's PoE network; it can also be used with a standard Ethernet infrastructure & powered via an optional AC adapter.

MoWi: This discreet sensor uses your own Wi-Fi for networking and data transmission—popular for smaller businesses and facilities.

Smart Sensor Features & Benefits

Features

- 1200+ ft. Range
- Up to 12 Years of Battery Life
- Automated Data Logging

Benefits

- Unbeatable Range Eases Networking
- Dependable, Worry-free Operation
- Streamlined Compliance & Data Analysis

Call us today at (770) 855-3328 for more information. Alegna's Team Is At Your Service!