



The Leader in Low-Cost,  
Remote Monitoring Solutions.

**Wireless IoT Sensing Solution**

2018 Q2

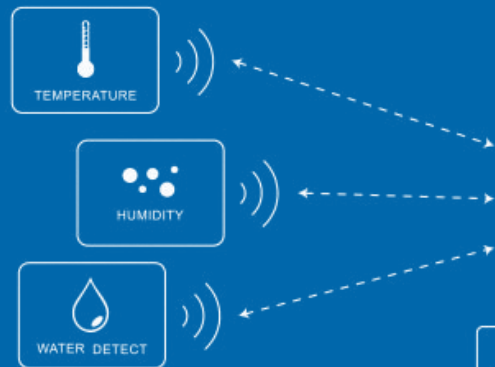
A black and white photograph of a commercial building. The word "MONNIT" is mounted in large, dark, three-dimensional letters on the upper left portion of the building's facade. Below the letters, a wide red banner with a slight 3D effect spans across the middle of the image. The banner contains the text "Company Profile" in white. The building features a series of glass doors and windows supported by white columns. The entrance area is visible through the glass, showing interior details like a sign that says "EXIT" and some equipment. The background shows some trees and a clear sky.

**MONNIT**

## Company Profile

# How Monnit Works

## Wireless Sensors



Over 50 Different  
Wireless Sensor  
Types Available.

## Wireless Gateway



Ethernet, Cellular  
USB and Serial  
Gateways Available.

## Online Monitoring Software



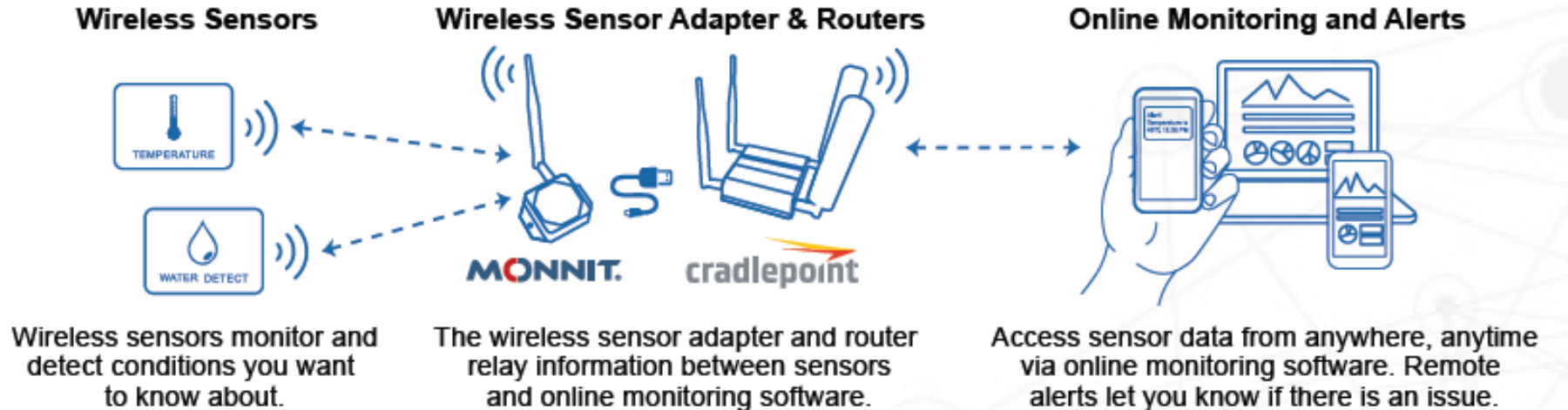
Access Anytime From  
Anywhere. Free and Premium  
Versions Available.

## Mobile Apps and Alerts



Stay Connected Anywhere  
You Are. Instant Notification With  
Free Text and Email Alerts.

# How Monnit & Cradlepoint Work



# Cradlepoint Devices Verified

Cradlepoint Router Compatability: AER2100, AER1600, IBR900, IBR200, & Others.

[COR IBR200](#)



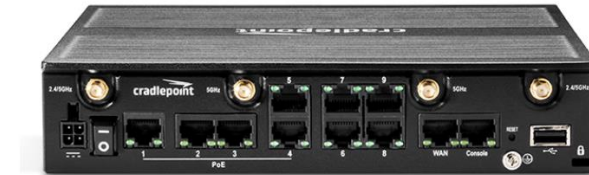
[AER1600](#)



[IBR900](#)



[AER2200](#)



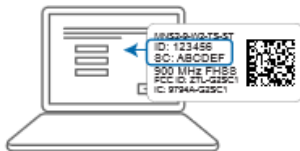
# How It Works

1.



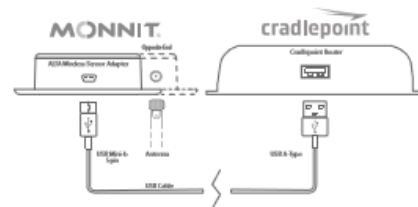
Create an online sensor monitoring account at [www.imonnit.com](http://www.imonnit.com).

2.



Follow the on-screen instructions to add devices to your account.

3.



Plug both devices in, then connect the Monnit wireless sensor adapter via USB to the Cradlepoint Router.

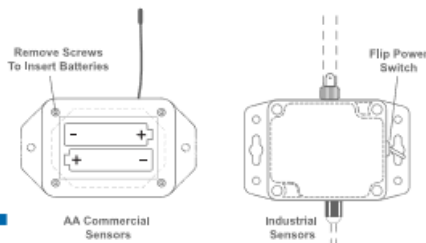
4.



Visit <https://accounts.cradlepointcm.com> a Cradlepoint site, to add your Monnit Adapter to your Cradlepoint Net Cloud account.

\*See User Guide for full details and walkthrough

5.



Insert batteries or use switch to power the wireless sensors on.

6.



View sensor data online or in the mobile app for Monnit to monitor the the things.

# Monnit ALTA Hardware

## Wireless Sensors



### Superior Wireless Range

1,000+ ft. non line-of-sight through 12-14 walls.



### Long Battery Life

10+ years powered by 2 AA batteries.



### Monnit Encrypt-RF™ Security

Integrated security (256-bit exchange and AES-128 CTR).



### Onboard Data Memory

Store up to 512 readings per sensor.



### Future Proof

Over-the-air updates allow products to be updated remotely.



### 100% Comprehensive Solution

No additional hardware, software or subscriptions are required.

**No Monthly Fees.**

## Monnit Gateway





# 48 Unique ALTA Sensors (60+ Profiles)



TEMPERATURE



TEMPERATURE  
3 FOOT PROBE



WATER TEMP



RTD HIGH  
TEMPERATURE



RTD LOW  
TEMPERATURE



DUCT  
TEMPERATURE



THERMOCOUPLE



HUMIDITY



WATER  
DETECT



WATER  
ROPE



MOTION  
DETECTION



OPEN / CLOSED



DRY CONTACT



CARBON  
MONOXIDE



ACTIVITY  
DETECTION



TILT



IMPACT  
DETECT



G-FORCE  
SNAPSHOT



VIBRATION  
METER



0-20mA  
CURRENT  
METER



VOLTAGE  
METER



VOLTAGE  
DETECT



1-50 VOLT  
DETECT



0-20 AMP  
AC CURRENT  
METER



150 AMP  
AC CURRENT  
METER



SINGLE-INPUT  
PULSE  
COUNTER



BUTTON



50 PSIG  
PRESSURE  
METER



300 PSIG  
PRESSURE  
METER



QUAD  
TEMPERATURE



LIGHT  
METER



ULTRASONIC



THREE PHASE  
CURRENT METER



0-200 VOLT  
METER



DIFFERENTIAL  
AIR PRESSURE



AIR  
VELOCITY



PM2.5  
AIR QUALITY



CO2 GAS



# Sensor Enclosures / Power Options

## AA

Up to 10-yr. battery life



## Coin Cell

Up to 5-yr. battery life



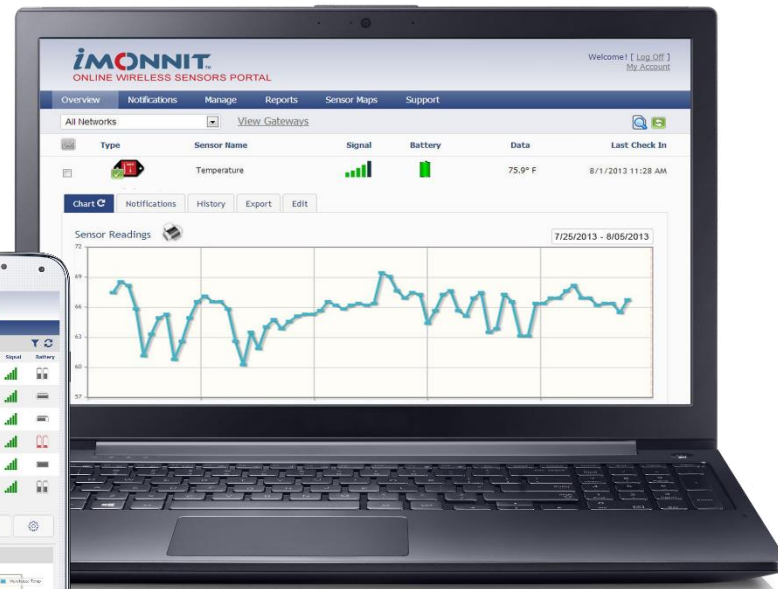
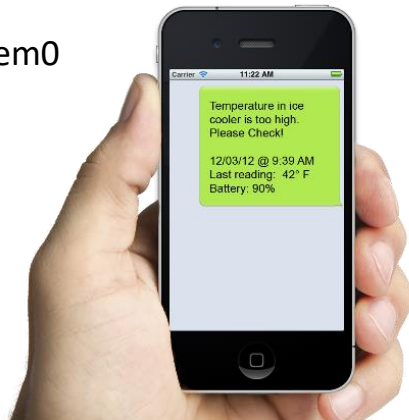
## Industrial

Up to 10-yr. battery life



# Software Overview

- Secure, cloud-based sensor portal accessible on any internet enabled device
- Unlimited sensor history storage
- Notifications via text, email, and/or voice call
- Data analytics available in iMonnit Portal, or export to Excel or CSV.
- Webhooks/APIs allow integration with third party software
- Sensor mapping tools available
- Allows for complete configuration of wireless sensor's operation
- Android and iPhone apps available
- Guest account login
  - [www.iMonnit.com](http://www.iMonnit.com)
  - Username: guest
  - Password: m0nnitdem0



# Infinite # of Applications

## Wireless Temperature Sensors

- Warehouse temperature monitoring to avoid frozen fire suppression systems.
- Warehouse temperature monitoring to avoid frozen fire suppression systems.
- Monitor vacant commercial property temperatures to avoid frozen pipes.
- Summer/winter (vacation) property monitoring for frozen pipes or excessive heat.
- HVAC system monitoring to detect failures or heating / cooling issues.
- Monitor temperature of K9 units (dog collar's and kennel).
- Art gallery temperature monitoring.
- Heat remediation of bed bugs (extermination).
- Freezer and cooler temperature monitoring to detect failure and prevent food spoilage.

## Wireless Water Temperature Sensors

- Water Tank Temperature Monitoring
- Non-Combustible Liquid Storage Tank Temperature Monitoring
- Liquid Manufacturing Process Temperature Monitoring
- Pool Temperature Monitoring
- Aquarium Temperature Monitoring
- Wetlife Environmental

## Wireless Duct Temperature Sensors

- Air Duct Temperature Monitoring
- HVAC Operation & Testing
- Data Center Monitoring
- Coolers & Freezers
- Environmental Monitoring

## Wireless High Temp. RTD Sensors

- Boiler temperature monitoring to detect boiler failures.
- Heater temperature monitoring.

## Wireless Low Temperature RTD Sensors

- Freezer and cooler temperature monitoring to detect failure and prevent food spoilage.
- Environmental monitoring.
- Cadaver storage cooler temperature monitoring.

## Wireless Humidity Sensors

- Greenhouse temperature and humidity monitoring.
- Environmental monitoring.
- Art humidity monitoring.
- Humidor monitoring.

## Wireless Open/Closed Sensors

- Commercial property door and window access.
- Residential access.
- Bank owner access mon

Many  
More!

Listed by  
Application  
Online

# Application-specific IoT Solutions

## Sample Vertical Markets



Agriculture  
Remote Monitoring



Commercial Refrigeration  
Monitoring



Corporate Property  
Monitoring



HVAC  
Remote Monitoring



Industrial Manufacturing  
Monitoring



IT Server Room  
Remote Monitoring



Mobile Refrigeration  
Monitoring



Pharmacy / Lab  
Remote Monitoring



Remote Real Estate  
Monitoring



Small Business  
Remote Monitoring



## Industrial Use Cases

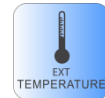
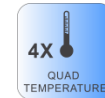
# US Mobile Carrier



Remote Monitoring for  
Non-Scheduled Maintenance

## Cell Huts

- Real-time fault detection and diagnostics
- Provides for “Just-in-Time” maintenance
- Complete solution pre-configured prior to shipping for predictable installation



Cellular





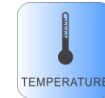
# Alaska Native Tribal Health



Remote Monitoring for  
Clean Drinking Water

## Remote Water Plants

- 500 sites in Alaska
- Extremely harsh conditions
- Vital to the health of over ½ million native people



Cellular





# Lineage Logistics



## Remote Monitoring for Refrigerated Warehousing



### Cold Storage / Port Warehouses

- 1,000,000+ sq. foot refrigerated warehouses
- 110 sites in the U.S.
- Storage of enough food for every U.S. Citizen for three days



Cellular



# Southwire Co.

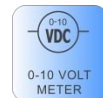
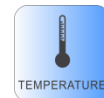
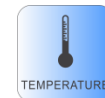


Remote Monitoring for  
Smooth Operations



## Wire Warehouses

- Largest manufacturer of wire, cables and cords in the world
- Track machine rotational speeds
- Track machine bearing temperatures



Cellular





## Commerical Use Cases



# Agriculture



Wouldn't it be great to have a deep understanding of the environmental conditions affecting the atmosphere around you? Monnit wireless sensors are perfect for growing crops in the optimal conditions. Track the temperature, humidity, light, air flow, or anything else which might cause problems. Monnit's automated system will then alert you via text, email, or voice call should conditions fall out of the optimal range.



# Corporate Property

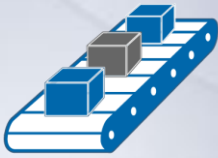


Monnit provides a remote monitoring solution for any sized business. Our wireless sensor systems can help you detect and track building access, vehicles, assets, and people. Sensor alerts can be sent via email, text, or voice call depending on your custom notification settings. Now you can be alerted immediately of any unauthorized access to restricted areas after business hours or to just keep an eye on the delivery dock.





# Industrial Manufacturing



Each manufacturing environment is different based on the type of equipment needed. Monnit produces a wide variety of sensors to fit your specific application, but we don't want to stop there. If one of our sensors doesn't quite work for you, we can create a custom solution to fit any specific need. From simple vibration detection sensors to 100% fully customized networks, Monnit is here to help!



# Heating and Cooling



HVAC systems for large buildings require a lot of energy to provide the appropriate conditions for residents or employees. Track this energy consumption with an A/C current meter and use some of Monnit's other sensors to get a complete understanding of your heating and cooling system. Receive alerts directly to any internet-enabled device should an issue arise, allowing for quick action before conditions become uncomfortable.





# Data Centers



Data centers are a critical piece of infrastructure for any company big enough to have them. Temperature, motion detection, and humidity sensors are perfect for keeping an eye on the conditions of your server room. Use a water rope detection sensor to ensure there are no unwanted leaks and air flow meters to keep rooms cool.



# Property Management



There are a wide variety of property management situations, from second homes to foreclosed houses awaiting sale. Monnit makes it easy to track homes which are not occupied 24/7. Never worry about a door being left open or water pooling up in the basement due to an unexpected leak. Receive alerts on your phone should a situation arise which would require swift action.



# Mobile Refrigeration



Cold transportation is a major part of the U.S economy. Fresh products are being sold in areas they never could have made it to in the past. Keep an eye on the temperature of your product while driving to safeguard against any surprises in route.





# Food Services



Walk-in refrigerators or freezers usually have several thousand dollars worth of product in them at any given time. In addition to costly repairs, food spoilage is another concern should one of the walk-in refrigerators malfunction. Monnit wireless sensors are a perfect solution, alerting you of any problems before irreversible damage occurs.



# Small Business



Small businesses differ drastically in terms of their products and/or services offered. Monnit has a complete line of sensors available to help any small business. All of our wireless solutions are relatively inexpensive, a private network can be set up for under \$500. Choose a couple of sensors that will work best and monitor conditions of your small business around the clock.





# Pharmacy / Laboratory



Labs have higher standards for atmospheric conditions compared to any other room. In addition to monitoring the atmosphere, use vibration meters to ensure centrifuges and other equipment is functioning properly. Temperature sensors are perfect for refrigerators or freezers to help avoid costly spoilage due to faulty machinery.



AIR FLOW  
DETECTION



TEMPERATURE



HUMIDITY



LIGHT  
METER



VIBRATION  
METER



ACTIVITY  
TIMER



TILT

# Monnit Customers





# Resources

 [Landing Page](#) @ Monnit.com

Email: [cradlepoint@Monnit.com](mailto:cradlepoint@Monnit.com)

## Other Resources

Case Studies & White Papers

[Click Here](#)

Applications by Sensor Type

[Click Here](#)

Sensor Data Sheets

[Click Here](#)

A black and white photograph of a man in a white shirt and dark tie, wearing a headset with a microphone. He is smiling and looking towards the camera. A red banner is overlaid across the middle of the image, containing the text "Partner Support".

**Partner Support**

# Cradlepoint Resources @ Monnit

https://www.monnit.com/cradlepoint


Monnit Portal info@monnit.com 1-801-561-5555 Log-in 0 item(s) - \$0.00

MONNIT

Entire Site Search

Home Products Services Applications Support IoTvantage™ About Us

Home > Using Monnit Sensors With Cradlepoint Routers



**Sweet 7 Deal**

**Buy 7 Sensors, Get a Sensor Adapter for NetCloud Manager Free!**  
(Contact Us To Find Out How)

Monnit has extended sensing capabilities to Cradlepoint wireless routers through Monnit's ALTA wireless sensor adapter (part #MNG2-9-WSA-USB), allowing Cradlepoint partners the ability to expand functionality of deployments in the field (giving you a reason to call on those customers again), enter new markets, and increase overall sales to your end customers by reselling Monnit sensors with a Cradlepoint router.

DOWNLOAD NETCLOUD APP BROCHURE QUICK START GUIDE USER'S GUIDE PRESENTATION HOW TO SETUP - VIDEO SENSOR - USE CASES WHITE PAPERS

# Installation Support / Warranty

**15<sup>min.</sup>**  
**< or less**



## Easy Setup & Integration

Professional labor is not required. Setup an enterprise-grade wireless sensor network in less than 15 minutes!

## IoT / RF Expertise + Technical Support

Available 8:00 – 5:00 pm (MST) Monday – Friday  
Phone support, online chat or email.

## Warranty

Monnit hardware is backed by our standard one year warranty.



# Contact Info

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T: 801-561-5555