



Wireless Sensors Use Case: Retail Stores

The Problem:



Monnit was contacted by the manager of a small retail store. They came across our products and believed we could help solve a few issues they were having at their store. Recently they had an after hours plumbing leak in one of their storage areas which caused water damage to some of their inventory. They realized that there was no existing way for them to know about these types of issues, until they are discovered by an employee during business hours.

The company wanted to implement a reliable water detection and temperature monitoring system, that would alert their staff if water was detected or temperatures throughout their store were fluctuating to far out of range.

The Solution:



Monnit provides a reliable remote monitoring solution that includes wireless water detection sensors and temperature sensors as well as a variety of other useful sensors. The company deployed wireless water detection sensors in their inventory storage areas as well as around plumbing in their water heater closet and bathroom. They also deployed a handful of wireless temperature sensors around their store to track temperatures.

The sensor data is sent wirelessly to a MonnitLink™ gateway located in the back of the store. The gateway sends the information to iMonnit™, the online sensor monitoring system. The wireless water sensors detect the immediate presence of water and the wireless temperature sensors were set to take readings every 60 minutes. Notifications were setup to alert the manager and a few staff members via SMS text message if any water is detected or if there is a fluctuation in temperatures.

Wireless Sensors Used

Wireless sensor used:	How it was used:
Water detection sensors	To detect any water in the stores inventory storage areas, bathrooms or water heater closet.
Temperature sensors	To monitor and track temperatures around different areas of the store.
Infrared motion sensors	To detect any unauthorized access to the store after hours.
Open/closed sensors	To detect any unauthorized access to the store after hours.

The Result (Cost Savings)



For an initial investment of ~\$700, the customer deployed a comprehensive water detection and temperature monitoring solution in their store. In the first few months of using the system, it alerted the manager of a plumbing leak in the water heater closet, where water began to flow into the inventory storage area. The water was turned off, the inventory was moved and the issue resolved before any damage occurred.

Since the initial deployment, this customer invested an additional \$370 to expand their wireless sensor network to include wireless door sensors and motion detection sensors, to alert them of unauthorized access to the store after hours.

Using Monnit's comprehensive monitoring solution, this customer is now able to:

- Avoid potential inventory damage by using sensors to detect water and temperatures in the store.
- Protect their assets by monitoring for unauthorized access to the store after hours.

"It's wonderful to be able to know about issues before they become big problems! Monnit's remote monitoring system and sensors provide a value far beyond their cost. The sensors were very easy to install and setup, and Monnit's team has been absolutely amazing to work with!"

It doesn't matter where in the world you are or what time it might be, deploying a Monnit wireless sensor and monitoring solution connects you from anywhere, 24/7 so you'll know immediately when a problem starts.

