



## Wireless Sensors Use Case: Schools and Churches

### The Problem:



Monnit was contacted by a property management company responsible for maintaining a group of charter schools in their county. They came across Monnit's wireless sensor solution while looking for a way to lower costs associated with managing and maintaining their properties.

They had an issue in one of their schools over the weekend when nobody was at the location. One of the toilets in a bathroom had clogged and malfunctioned causing it to overflow continually over the weekend. The property manager got a call Monday morning letting him know that there was 4 inches of standing water throughout the school.

### The Solution:



Monnit provides a reliable remote monitoring solution that includes wireless water detection sensors as well as a variety of other useful sensors. The property management company deployed wireless water sensors in each bathroom of the incident school as a pilot. They also decided to deploy wireless open-closed sensors on each entrance door to monitor building access after hours. Monnit wireless gateways support up to 100 wireless sensors each, so they decided to deploy wireless open-closed sensors on each entrance door to monitor building access after hours and also deployed temperature sensors in their boiler room to monitor the output of their heating system.

The sensor data is sent wirelessly to a MonnitLink™ gateway placed in the main office. The gateway sends the information to iMonnit™, the online sensor monitoring system. The wireless water sensors detect immediate presence of water, the open-closed sensors detect building access after school hours and the temperature sensors were set to check temperatures every 2 hours. Notifications were setup to alert the property manager and school principal if water is detected, the building is accessed after hours or if temperatures falls too low.

## Wireless Sensors Used

Wireless sensor used:	How it was used:
Water sensors	To detect immediate presence of water around water heater and plumbing in each of the office buildings water closets.
Open-closed sensors	To detect building access after hours or on weekends.
Temperature sensors	To check the temperature output of the schools boiler / heating system.

## The Result (Cost Savings)



Before implementing Monnit wireless sensors, this property management company had to repair the water damage to the school. This included replacing carpets and baseboards as well as replacing damaged furniture and school supplies. While they did not disclose the total amount of damage, they told us it was extremely costly. The total cost of the initial remote monitoring solution for this school's pilot test was ~\$1,800.

Since installing the system, the property management company has completed their pilot program at the one school and moved forward with deploying the sensors throughout their other schools. Both the property management personnel and the school office staff have been very impressed with how easy the system is to use, and the no longer worry about a repeat of their previous incident.

Using Monnit's comprehensive monitoring solution these schools are now able to:

- Prevent costly damage due to plumbing and water heater leaks.
- Ensure that the schools have adequate heating and cooling for their students and staff.
- Ensure that the school premises' stay safe after hours.

*"They say you never know when disaster will strike. Well now we do! Monnit's remote monitoring system is such a valuable tool when it comes to protecting our buildings and everything in them. The installation was quick and easy. Everyone that uses it loves it! You really can't beat the value of this system!"*

- Leroy R., Property Management

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.

