



Wireless Sensors Use Case: Hotels / Hospitality

The Problem:



Monnit was contacted by a property manager from a popular resort chain. One of their buildings had an issue with a boiler pump failure that caused heating issues for a majority of their guest rooms. They were searching for a solution that would allow them to track both temperatures of their boiler output and vibration intensity of their pump motors. Their overall goal was to find a solution that would allow them to catch issues early enough to prevent down time and minimize costs of repairs. Monnit provides a comprehensive monitoring solution with advanced alerting features at a fraction of the cost to comparable systems.

The Solution:



Monnit provides a reliable remote monitoring solution that includes wireless temperature sensors and accelerometers as well as a variety of other useful sensors. The company deployed wireless temperature sensors on the output pipes of their building boilers to monitor their temperatures. They also placed temperature sensors and accelerometers on each boiler pump to monitor the operating temperatures and vibration levels. If the bearings are starting to go, the pump will get hot and vibrate more than normal.

The sensor data is sent wirelessly to a MonnitLink™ gateway located in the boiler room of one of the central buildings. Due to the steel and concrete construction of the buildings, they placed two wireless range extenders in opposite buildings to repeat the data from their boiler rooms to the central gateway. The gateway sends the information to iMonnit™, the online sensor monitoring system. The wireless temperature sensors and accelerometers were set to check temperatures every hour. Notifications were setup to alert the property manager if temperatures are out of safe range and if excessive vibration is detected on a pump motor.

Wireless Sensors Used

Wireless sensor used:	How it was used:
Temperature sensors	To check the temperature output of the resort's boilers and to monitor boiler pump motors for excessive heat.
Accelerometers	To monitor for excessive vibration on boiler pumps.

The Result (Cost Savings)



Before implementing Monnit wireless sensors, this property management company replaced the malfunctioning boiler pump. The total cost of the remote monitoring solution deployed for this company was ~\$600.

Since installing the system, the customer caught several instances where boiler's were not outputting the proper temperatures. They were able to make repairs before failures occurred saving time and money. Their experience with Monnit sensors was very positive, so they decided to deploy Monnit wireless sensor systems in some of their other resorts.

Using Monnit's comprehensive monitoring solution this resort company is now able to:

- Prevent down time and costly damage due to malfunctioning boilers and related equipment.
- Ensure their guests have adequate heating and cooling for their rooms.

“As a facilities manager, I take pride in knowing that our guests have a wonderful experience at our resort. Having a heating issue on one of the coldest nights of the year is never a good thing. One of the best decisions we made was to install a Monnit remote monitoring system. We no longer fix things after they break down. We fix them before they break down!”

- James D., Facilities Manager

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.

For information about our products or to place an order, please contact our sales department at 801.561.5555.

Visit us on the web at www.monnit.com.



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