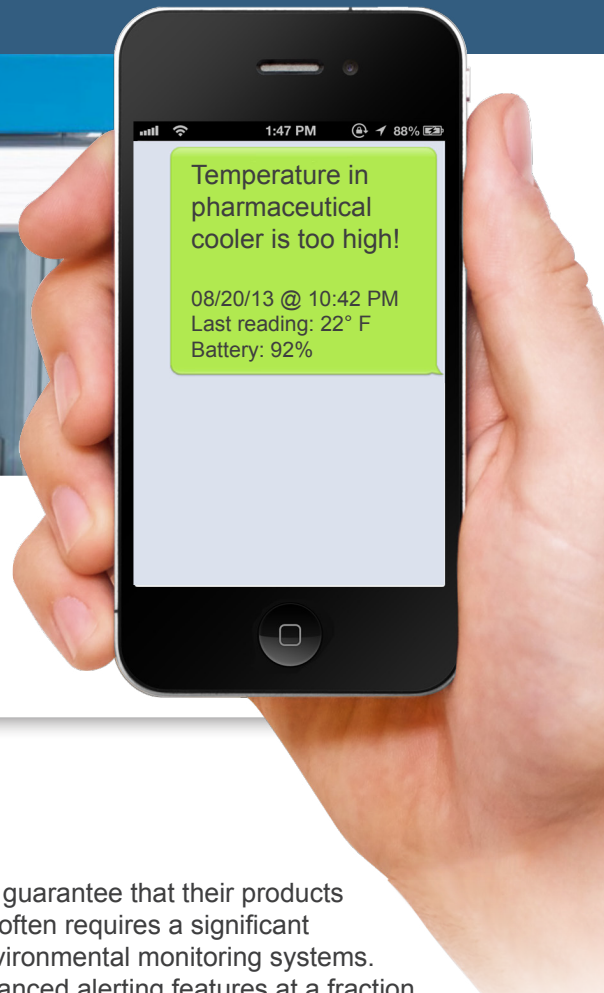


The Leader in Low Cost Monitoring Solutions



## Wireless Sensors Use Case: Pharmaceuticals

### The Problem:



In order to maintain FDA compliance, biotech companies must guarantee that their products have been maintained in strictly controlled environments. This often requires a significant expense in the implementation and overhead for advanced environmental monitoring systems. Monnit provides a comprehensive monitoring solution with advanced alerting features at a fraction of the cost to comparable systems.

Monnit was contacted by a large biotech company when a pharmaceutical storage freezer quit over a weekend. The freezer failure had ruined the entire stored inventory. The freezer had an integrated temperature display but no notification system integrated. The customer integrated Monnit sensor's and a MonnitLink™ gateway into most of their critical pharmaceutical storage freezers and refrigerators for monitoring their business's inventory of drugs and medications.

### The Solution:



Monnit wireless temperature sensors were deployed in the company's pharmaceutical freezers and refrigerators to track temperatures. The temperature sensor housings were attached to the outside of each pharmaceutical cooler, with the temperature probe running through the door seal and attached inside the unit. The sensor data is sent wirelessly to a MonnitLink™ gateway 100 feet away, which sends the information to iMonnit™, the online sensor monitoring system. The sensors were set to check and record temperatures every 15 minutes.

Using a secure login, the company is able to view and track temperatures for each cooling unit and print a report for their compliance records. Notifications were setup to alert key people via text and/or e-mail when temperatures are nearing compliance regulated levels, allowing them to either move temperature sensitive inventory to back up storage coolers and/or to repair the refrigeration unit before it fails.

## Wireless Sensors Used

Wireless sensor used:	How it was used:
Temperature sensor with probe	To monitor temperatures inside pharmaceutical coolers, providing data tracking for FDA requirements with notifications set to alert staff of temperature fluctuations, preventing drug spoilage.

## The Result (Cost Savings)



Monnit makes it easy to realize the immediate return on investment. For an investment of ~\$600, the customer was able to deploy a comprehensive solution addressing their temperature monitoring and tracking needs. They are protecting over \$60,000 of pharmaceutical inventory across their monitored coolers.

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

- Avoid potential inventory spoilage by using sensors in their pharmaceutical coolers.
- Automatically track and document processing area temperatures per FDA requirements.
- Receive alerts via text and/or e-mail if temperatures fluctuate outside of safe zone.
- Ensure that the pharmaceutical inventory is kept within set temperature parameters.

*“Where do I begin? Monnit’s products, as well as their team, have been incredible. The sensors were very easy to setup and the system does everything we need it too. Monnit products were also more affordable than any other solution we came across and offer more features. That’s a win-win!”*

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.

