



24/7 Automated Remote Monitoring

# **FACILITY MANAGEMENT**

## Undetected Problems Will Cost You

Commercial facilities spend thousands of dollars every year hiring and training experienced maintenance employees to quickly detect and repair a variety of issues resulting from unexpected equipment failures. Yet most of these issues aren't detected right away, resulting in costly consequences. Here are a couple of examples for you to consider:

In 2015, three subsidiaries of Duke Energy were sentenced in Federal court for criminal violations of the Clean Water Act for **failing** to properly maintain equipment, resulting in the unlawful discharge of coal ash and/or coal ash wastewater. They received 5 years' probation for each count, **fined \$68 million**, and will pay an additional **\$34 million** for environmental projects.

*Source: EPA*



In 2018, a galvanized pipe at Corte Madera school failed but went **undetected** for nearly a month, saturating the school's gymnasium and putting it out of commission for 10 weeks. The school's district office estimates that necessary pipe system repairs will **cost nearly \$500,000**.

*Source: Almanac News and Portola Valley School District*



While these examples may seem exceptional, the fact remains that no facility is immune from the risk of unexpected equipment failures. Just one incident can cost thousands of dollars in remediation costs, regulatory fines, lawsuit judgments, equipment repair and replacement, and reputational damage control.



# Manual Monitoring Isn't Worth the Risk or Cost

Around-the-clock visibility is vital for optimizing operational efficiency, but it's impossible to manually monitor operations 24 hours a day - especially as businesses face increasing budget cuts and deferred maintenance backlogs.

Even periodic monitoring can be difficult to sustain. It's expensive, labor intensive, data may be aggregated from multiple disparate facility systems, and the data collected may not even be accurate. Catastrophic failures are more likely to occur as a result, which as any facility knows is significantly more expensive than administering preventive maintenance efforts.

## Designed to support the preventive needs of any commercial facility:

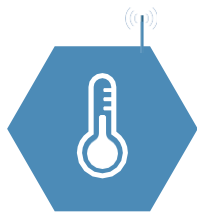
- Commercial Buildings
- Warehouses
- Manufacturing Plants
- Schools & Universities
- Hospitals & Healthcare Centers
- Hotels & Resorts
- Museums
- Multi-Unit Buildings

## Achieve superior operational efficiency with IoT Solutions for Facilities Management



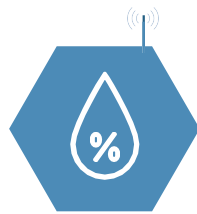
### LEAKS

Reduce potential damage to property and assets



### TEMPERATURE

Quickly manage unexpected changes in temperature



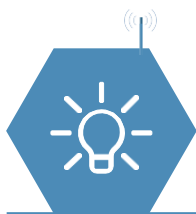
### HUMIDITY

Maintain proper humidity levels at all times



### AIR QUALITY

Prevent hazardous exposure to toxic gases



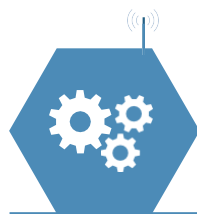
### LIGHTING

Measure the ambient light intensity in rooms



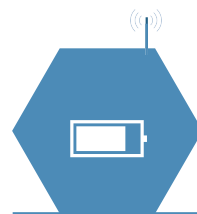
### OCCUPANCY

Know when someone accesses a room or area



### EQUIPMENT

Identify conditions early to prevent catastrophic failures



### OPEN/CLOSE

Detect when windows and doors are opened/closed

# The Complete Solution

IoT Solutions automate monitoring for any commercial facility, delivering substantial time and money savings. Our solution solves unique and complex remote monitoring challenges by combining efficient wireless sensors and gateways with industry-leading monitoring applications, real-time reporting, and instant SMS text message alerts.



## Wireless Sensors & Gateway

Connect sensors and gateway within minutes



## Remote Monitoring

Monitor facility operations at any time, from anywhere



## Expandability

Add different sensors to increase your visibility

## Automated Remote Monitoring Features



### Quick & Easy Setup

Wireless sensors are installed in minutes. Automated data readings are captured instantly.



### Operational Visibility

Ensure facility management maintenance needs are met with accurate data recording and printable reports.



### Actionable Alerts

Receive timely alerts via SMS text messages and emails. Set sensor reading thresholds and configure alert settings.



### Enterprise Ready

Industrial grade sensors with low power and long range capabilities for monitoring facilities of any size.



### Corrective Action

Quickly document the necessary course of action required to address alerts associated with incidents and workflows.



### Security & Privacy

Highest standards of data protection, ensuring end-to-end embedded AES encryption.

# FACILITY USE CASE

## The Challenge

HVAC system for preventive maintenance after the air conditioning unit in their building unexpectedly failed in

complaints about their uncomfortable working environment, leaving the facility manager no choice but to spend thousands of dollars to quickly repair the HVAC failure.

## The Solution

We installed sensors throughout the building to instantly and automatically record temperatures in HVAC ducts and office units around the clock. Additional sensors were add-

closed doors. Our wireless hardware offers up to 15KM of range, giving the building added flexibility and scalability. Activity reports were scheduled to help the building schedule maintenance more efficiently, and notifications were set to instantly alert designated employees if temperatures fall out of predetermined ranges.

**100%**  
**Visibility**

**20%**  
**Energy Savings**

**350**  
**Hours Saved**  
From manual spot checks

## Added Value

### Instant Response

Prolonged temperature excursions will trigger SMS text and email alerts to designated employees, enabling immediate corrective action.

### Around-the-clock Reassurance

Our solution monitors the customer's facility 24/7/365 to help them prevent unexpected equipment failures.

### Issue Detection

Leak sensors helped the building detect an unknown plumbing issue. They were able to resolve the issue before it turned into a costly disaster.

### Customized Protection

The client can expand their operational visibility by adding other sensors to their solution at any time to increase their monitoring protection.



# Get Started Today with a **FREE 30-Day Trial**

- ✓ **No upfront costs**
- ✓ **Free installation**
- ✓ **Lifetime service and support**



## Our Commitment to You

We are committed to delivering a superior monitoring solution that supports all of your needs. Here's what you can expect once the solution has been installed.



### Immediate Cost-Savings

Employees won't have to manually monitor your facility for equipment failures, intrusions, or temperature anymore. You'll begin saving money from day one!



### Day-and-Night Facility Monitoring

If an issue is ever detected, you'll receive an instant, actionable alert so you can react to and remedy the situation before it becomes a costly problem.

### 24/7/365 Support



We'll always be available to answer any questions or concerns you have about the solution and its features.

### Lifetime Guarantee



We stand by our solution 100%. Should any sensor stop working, we'll replace it for free.



A man in a grey suit and red tie is leaning over a wooden table in a meeting. He is looking towards the right side of the frame. In the foreground, another person's hands are visible, holding a pen and pointing at a document on the table. A laptop is also visible on the table.

## About Sigflow IoT Solutions

Sigflow is the business to business arm of IoT in a Box who is the world's leader in turnkey, fully-automated facility management monitoring solutions.

Our real-time, sensor-driven solution has earned the trust of countless facilities worldwide by enabling users to effortlessly detect leaks, motion, opened/closed doors and windows, temperature, and humidity at any time, from anywhere, and to effortlessly shift from reactive to condition-based maintenance.

Additional Sensors for *pest control, carbon dioxide & monoxide, rodent infestations*, and hundreds of other problems are available to enhance our facilities management monitoring solution.

**For more information about our automated monitoring solutions contact us:**

**(833) 744-3569 or [connect@sigflow.com](mailto:connect@sigflow.com)**