

Use Case: Monitoring Data Centers to Ensure Optimal Operations

Problem

A leading provider of secure and efficient data center management solutions faced the challenge of accurately monitoring and controlling temperature and relative humidity levels within its data centers. Fluctuations in these environmental parameters could lead to equipment failure, decreased energy efficiency, and increased operational costs. Traditional wired monitoring systems were complex to install, expensive, and difficult to scale as the data centers expanded.



Solution

To address these challenges, the company reached out to Onset and determined that the [HOBOnet Remote Sensor Network](#) offered numerous advantages that would meet the needs of its data centers. HOBOnet sensors, which wirelessly connect to a main [HOBO RX station](#), are easily deployed in various locations across a data center, without disrupting ongoing operations. The system is scalable, ensuring that all areas of each center remain covered, without extensive additional investment. HOBOnet also provides remote access to real-time data via the [HOBOLink](#) cloud platform, which sends automatic email and/or text alerts if user-set thresholds are exceeded, allowing managers to respond promptly to deviations from optimal conditions and prevent potential equipment damage. In addition, because the HOBOnet sensors are powered by replaceable batteries with long life spans, managers can be assured of continuous monitoring, even during power outages.

Results

Since implementing the Onset HOBOnet Remote Sensor Network, the company has gained greater control over its data center environments. The risk of equipment failure has been minimized, and operational costs associated with manual monitoring have been reduced. In addition, managers are accessing historical temp/RH data in HOBOLink to analyze trends and patterns over time, which is invaluable in terms of capacity planning, energy efficiency optimization, and compliance reporting. The system's ease of deployment, scalability, and real-time insights have allowed the company to maintain optimal conditions for its equipment, further enhancing its reputation as a reliable data center solutions provider.

HOBOnet has revolutionized our operations. With real-time insights and proactive alerts, we are now assured of uninterrupted performance of our critical data center equipment.

-Data center manager

Products Used

Product	How it was used
HOBO MicroRX Indoor Station	To monitor and ensure optimal environmental conditions at data centers
HOBOLink	To remotely access critical environmental data and receive automatic notifications if conditions exceed user-set thresholds

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