

Protecting Perishable Assets With Constant Internet of Things (IoT) Monitoring and Smart Alerts

Persistent Operational Performance for Peace of Mind

A malfunction or loss of power to refrigerators or freezers can be devastating to life science organizations such as biotech firms, drug discovery companies, and contract development and manufacturing or research organizations (CDMOs/CROs). Incidents arising from a change in the controlled environment can be costly beyond just the monetary value, impacting critical cell lines and other sensitive property.

Elemental Machines integrates advanced IoT monitoring and alerting capabilities into your risk management program to minimize these impacts and safeguard your valuable assets. Elemental Machines is proud to collaborate with insurance companies to help ease your peace of mind.

Offering Critical Protection to a Pharma Client

"Our walk-in cold room had a catastrophic failure at 1 a.m. Following the instant alert from Elemental Machines, my main tech was able to go in and save over \$100,000 worth of media."

Head of Operations & Safety, Midsize Pharma

Comprehensive Monitoring for Complete Protection

Elemental Machines offers a wide range of IoT-based monitoring and alerting solutions to ensure your entire ecosystem is covered:

- **Cold storage monitoring:** Continuous tracking of refrigerators, freezers (including -80° C and -20° C units, liquid nitrogen (LN2), and other cold storage assets
- **Humidity monitoring:** Maintain optimal levels for sensitive samples
- **Liquid nitrogen levels:** Monitor to prevent depletion
- **Gas detection:** Ensure safe levels in storage and operational areas
- **Differential pressure:** Maintain the correct differentials in clean rooms and other controlled environments
- **Ambient conditions:** Track light, RPM, pressure, particle count, and more



Reliable Power Supplies and Backup Solutions

Reliable power supplies are critical to preventing spoilage incidents. Elemental Machines provides robust solutions to ensure uninterrupted power and protection — even if the lights go out:

- **Battery backup:** Keep systems running in unexpected outages
- **Backup cellular connection:** Maintain connectivity even if the primary network fails
- **Voltage surge protection:** Protect equipment from power surges and lightning strikes
- **Hardwired connections:** Reduce the risk of accidental unplugging with hardwired setups

Smart Alerts and Emergency Response Mechanisms

The early detection of temperature excursions and other anomalies is crucial to preventing spoilage. Elemental Machines' smart alerts provide actionable insights and prompt responses:

- **24/7 monitoring:** Constant vigilance over lab and manufacturing environments
- **Context-driven alerts:** Tailored notifications that guide you to the root cause of issues
- **Automated emergency alerts:** Immediate notifications for critical conditions, ensuring timely intervention
- **Remote management:** Monitor and manage systems from anywhere via a cloud-connected platform

Safeguard Your Science With Elemental Machines

Elemental Machines offers cutting-edge technology to help in the protection of perishable assets. Comprehensive IoT monitoring solutions, combined with smart alerts and reliable power backups, ensure that your sensitive materials are always safeguarded.

With Elemental Machines, you can rest easy knowing that your operations are continuously under our watchful eye.

Don't React — Prevent Loss With Smart IoT Monitoring and Context-Driven Alerting

Ready to experience the peace of mind that comes with constant monitoring and Elemental Machines' smart alerts? Connect with an expert today to dig into our customized solutions and set up a custom demo. Let us show you how we can help prevent the loss of perishable items, ensuring the integrity and performance of operations.

Connect With Us

Elemental Machines, a leader in sensor monitoring technology, offers a variety of perishable property temperature monitoring solutions to Chubb clients at discounted rates.

About Elemental Machines

Elemental Machines' Intelligent Operations Platform leverages the best of Internet of Things (IoT) technology and custom hardware/software solutions, delivering actionable insights to operators in life sciences, biopharma labs, biobanks, analytical labs, and manufacturing facilities. By connecting the physical and digital worlds, the platform simplifies, optimizes, and augments operations. Leaders in science, facilities, and technology trust Elemental Machines' ecosystem for insights that accelerate innovation, predict outcomes, and shift from reactive to proactive management. With scalable solutions from incubator to enterprise, custom integrations to fit each operation's unique needs, and a wide ecosystem of partnerships, Elemental Machines ensures operational excellence and the future-proofing of lab and manufacturing processes.

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