

AI-Enabled IoT Solutions: Manufacturing and Lab Alerts

Diagnose, Understand, and Elevate Your Operations

What if your lab or manufacturing facility spoke to you — not just signaling a problem but guiding you to the solution? Welcome to the future of operational management, where our AI-enabled manufacturing and lab alerts do more than notify ... MUCH more. Our intelligent IoT approach ensures you stay ahead of potential issues, maintaining performance and compliance around the clock.

With comprehensive monitoring covering a wide range of critical parameters, including temperature, humidity, differential pressure, and more, our data-driven, customizable IoT alerts are designed to keep you informed about the health of your equipment and environment when you need it: in real time. Plus, with our [AI-Predicted Health Score](#) and other advanced diagnostics, we provide actionable insights that allow for proactive maintenance and immediate responses to potential issues, so you can predict, rather than react.

Our system never sleeps, so you can.



Smart IoT Alerting Solutions: Diagnose Your Dilemma

“Smart alerts” isn’t just a buzzword — we’re redefining it. Our AI-enabled alerting solutions are powered by a robust data science platform, where an algorithm — millions of data points in the making — doesn’t just detect anomalies, it analyzes your historical data to provide meaningful context. You get more than just the “What.” You understand the “Why?” Predictive. Preventative. Proactive. Now that’s smart.

Your benefit? The power to act before issues arise. (*Let’s be honest, who doesn’t want a real superpower?*) It’s data science in action, diagnosing root causes and transforming alerts from simple notifications into a road map for proactive maintenance and effective decision-making.



Actionable Alerting

- **Data science driven:** Our platform analyzes your data to detect and explain anomalies, fueling informed decisions
- **Contextualized alerts:** Tailored notifications that provide relevant, actionable information to the people who need it
- **Unstoppable vigilance:** 24/7 monitoring with battery and cellular backup



AI-Predicted Health Score: The Finger on Your Equipment's Pulse

Just like a doctor checks vital signs, our AI-Predicted Health Score feature provides a picture of your equipment's health status. From ULT (-80° C) to -20° C freezers and an expanding array of assets, you receive comprehensive assessments that diagnose issues before they impact your progress:

- **Deep analysis:** Real-time assessments of current functionality and performance trends point you to potential issues early
- **Proactive maintenance:** Identify and address equipment issues before they impact your operations
- **Battery backup:** Power through outages
- **Backup cellular connection:** Stay connected, always
- **Secure cloud connection:** Your data, protected
- **No-tool installation:** Setup in seconds
- **Wireless sensor connectors:** Freedom from wires
- **GxP compliant:** Compliance made easy
- **Contextualized alerts:** Intelligence at work
- **Certified calibration:** Precision guaranteed

"Thanks to Elemental Machines' smart alerts, we detected an early warning in our refrigerator's temperature that was creeping up slowly. It wasn't just an alert; it was a diagnosis. This insight allowed us to fix the issue remotely, saving our lab time and money."

Lyndsey Rissin, Senior Manager, Lab Operations, LabCentral

Who We Are

At Elemental Machines, we don't just connect physical and digital worlds to offer advanced connectivity solutions; we elevate your operations to help you realize your potential. Let's face it: Data without context are meaningless. That is *not* the way. But with data science and a focus on meaningful context baked into our offerings from day one, you become empowered to excel through data-driven decision-making and operational excellence. That is the way, and that is who we are.

Don't React — Predict

Ready to experience operational prescience with smart alerts for labs and manufacturing facilities? Connect with an expert today for a deep dive into our technology or set up your custom demo.

[Connect With Us](#)

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.