ELEMENTAL MACHINES

Equipment and Data Integrations for Life Sciences

Transforming Lab and Manufacturing Operations With Custom Connectivity Solutions

Elemental Machines leads the industry with the largest library of instrument integrations, providing seamless equipment and data integrations that transform efficiency and insight across scientific R&D and manufacturing spaces. Built for science and proven for lab operations, our advanced integration solutions, powered by both digital and analog capabilities, ensure every asset and every data point in your operational ecosystem is providing intelligence to power your success.

Get the right data, at the right time, in the right context to move from reactive monitoring to proactive intelligence.

Digital and Analog Equipment Integrations

The best of both from a single source: Whether your asset features digital communication or relies on analog signals, our innovative approach ensures full equipment integration into your operational ecosystem:

- **Digital connectivity:** Leveraging the industry's largest library of device drivers, we connect many types of equipment into your ecosystem; our in-house engineered devices pull data from lab instruments, channeling it directly to the cloud for real-time analytics

- **Analog solutions:** For equipment emitting current signals (4-20 mA), we capture high-quality, noise-resistant data, invaluable for integrating building infrastructure and ensuring superior data fidelity

- **Universal compatibility:** Our solutions extend beyond proprietary sensors, seamlessly connecting with third-party sensors to ensure no asset is left behind; this extends your data-gathering reach with low-energy, uninterrupted wireless connectivity while staying GMP- and GLP-ready

- **Rapid deployment:** Get started in under a minute with our straightforward setup, designed for minimal user intervention

Quick Facts

- **Largest integration library:** Industry-leading capabilities — options for both digital and analog equipment

- **Universal compatibility:** Seamlessly integrates with third-party sensors and systems

- **Rapid setup:** Start collecting data in under one minute

Robust Data Integration Services

Elemental Machines provides flexible and ever-expanding API capabilities, allowing easy integration with a wide range of systems. Our data integration services enhance efficiency and transform raw data into actionable intelligence across your operations:

- **Extensive compatibility:** Connect seamlessly with established systems, including ELN/LIMS, Manufacturing Execution Systems (MES), Content Management Systems (CMS), and Computerized Maintenance Management Systems (CMMS)

- **API enhancements:** Our continuously advancing API offerings support robust data integrations that go beyond threshold-based alerts

- **Custom integration solutions:** Beyond standard offerings, we work closely with you to develop bespoke integrations that address your specific operational needs

Tailored Solutions for Unique Integration Needs

Your operations, like your ambitions, are unique. So are your integration needs. We engineer hardware and software in-house, allowing us to build custom integrations that meet your specific requirements. After implementation, count on our expert support to ensure you derive maximum benefit — today and every day.

- **Consultative approach:** Partnering with you to understand your challenges and how our solutions can address them

- **Proactive planning:** Ensuring simple setup and continuous operation from preplanning to post-implementation

- **Training and support:** Providing ongoing support and training to ensure effective utilization of integrated systems

Ready to Enhance Your Intel Gathering and Data Management Strategy?

We empower your laboratory or manufacturing operations with custom IoT equipment and data integrations that bring together all your critical systems. Our team is ready to help you streamline processes and enhance the utility of your valuable data, transforming your operations with intelligence you can act on.

Get Started

About Elemental Machines

Elemental Machines' Intelligent Operations Platform transforms raw lab and facility data into intelligence you can act on. Built by scientists and engineers who understand the demands of modern research and manufacturing environments, we connect the physical and digital worlds to simplify, optimize, and future-proof operations. From incubators to enterprise-level sites, our ecosystem combines wireless sensors, utilization tracking, custom dashboards, interactive floorplans, business intelligence tools, and seamless integrations with systems like LIMS, MES, QMS, CMMS, and ELNs, giving teams complete visibility, predictive insights, and audit-ready compliance tools. Leaders in science, facilities, and technology worldwide trust Elemental Machines to help them act faster, reduce operational risk, and shift from reactive to proactive management. With the industry's most expansive integration library and a robust partner ecosystem, we empower organizations to accelerate innovation, ensure scientific integrity, and get more value from every asset.