

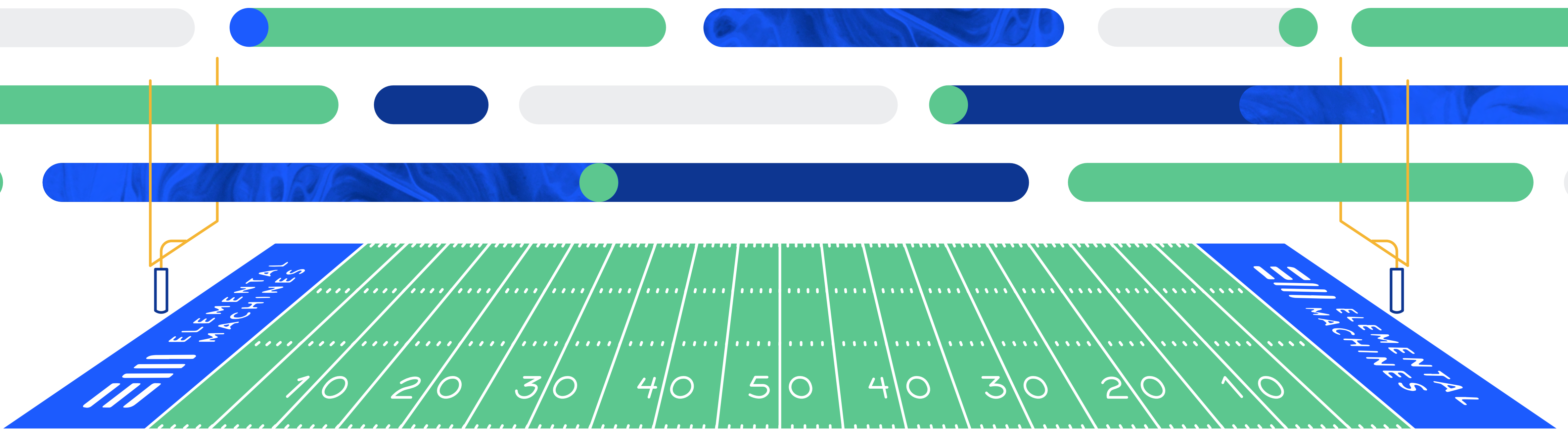
# Integrations for Modern Labs and Manufacturing Ecosystems

## Enhancing Performance With Data Monitoring and Alerting Solutions

In life sciences R&D and manufacturing, phrases like “smart labs” are often thrown around, but rarely defined. What constitutes a smart lab? What differentiators make a lab “smart”? The answer is simple: data.

At Elemental Machines, we stand by the principles of **FAIR data**: data that are **findable, accessible, interoperable, and reusable**. This level of data collection, analytics, and interoperability draws the line between a baseline functional lab and a truly smart lab.

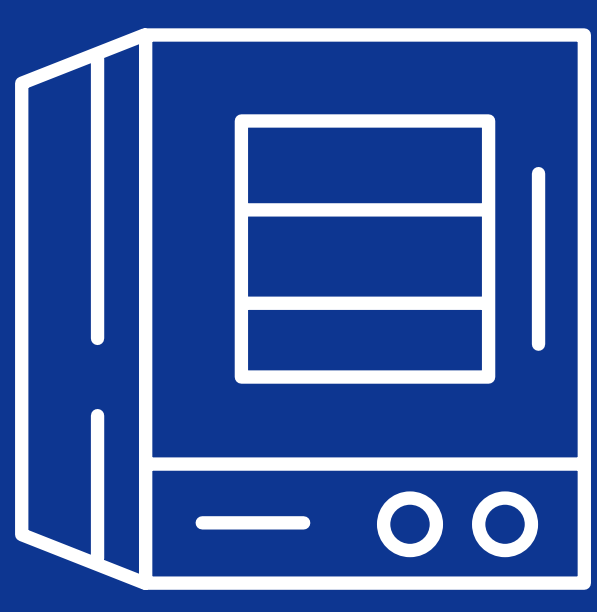
Achieving interoperability in a lab environment with diverse equipment types, ages, and data sources requires custom integrations. These integrations enable devices to work in harmony and communicate effectively, giving you a comprehensive view of your operations. It's like having a 50-yard line box seat at the Super Bowl.



Data monitoring and alerting solutions that integrate diverse equipment and data sources bring powerful benefits to modern labs and manufacturing facilities: increased efficiency, improved data accuracy, and enhanced overall performance. By connecting your existing instruments and systems, we help you create a network that enables real-time data flow to your dashboard, delivering keen insights to upgrade your decision-making from day one.

## Common Hardware Integrations

Integrations most requested by lab managers and technicians are those that impact operational reliability. Think of these as the all-stars of your lab team:



### Incubators

**Importance:** Maintaining controlled environments for cell growth and research reliability

**Key metrics:** Temperature, humidity, and CO<sub>2</sub> levels



### Liquid Nitrogen Tanks

**Importance:** Preserving samples at extremely low temperatures

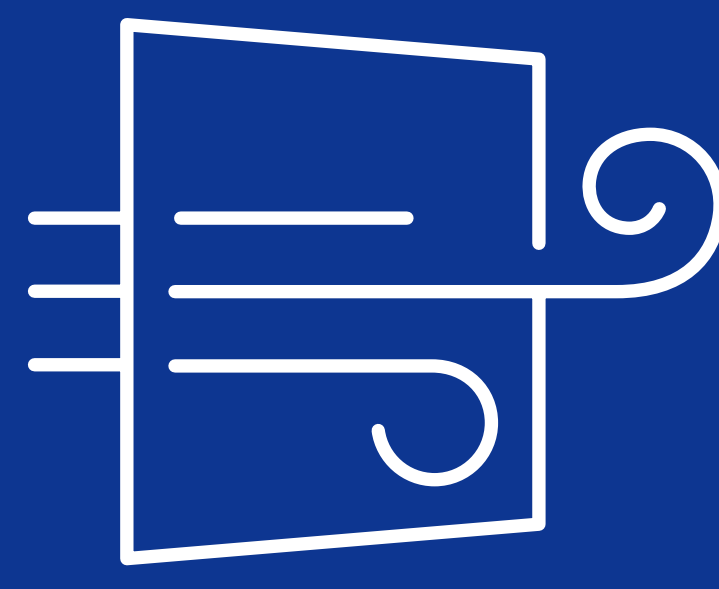
**Key metrics:** Temperature and LN2 levels



### Gas Manifolds

**Importance:** Distributing gases like CO<sub>2</sub> for consistent operation

**Key metric:** Gas supply pressure



### Ambient Oxygen Sensors

**Importance:** Monitoring oxygen levels to ensure compliance

**Key metric:** O<sub>2</sub> levels



### Clean Room Environment Sensors

**Importance:** Maintaining controlled environments for cell growth and research reliability

**Key metric:** Differential pressure or particle count



## Software Integrations

Just like coaches need a game plan, your lab needs sophisticated software integrations to simplify lab workflows and enhance data management:

- Laboratory Information Management Systems (LIMS)
- Electronic Laboratory Notebooks (ELNs)
- Computerized Maintenance Management Systems (CMMS)
- Custom setups

## List of Additional Integrations

Our bench is deep. Here are more players for your dream team:

- Freezers and refrigerators
- Water purification systems
- Building Management Systems (BMS)
- And much more

## Integrating Superior Performance — for the Win!

Choose Elemental Machines to enhance your lab's connectivity and operational performance. With industry-leading hardware, software, and data science solutions, we keep your lab at the forefront of innovation, and your data findable, accessible, interoperable, and reusable.

Bonus? Peace of mind, knowing your science is secure 24/7. Winning decisions should be rewarded.

**Ready to transform your lab with our cutting-edge integrations? Discover how our solutions can help your lab achieve championship-level performance.**

[DISCOVER OUR INTEGRATIONS](#)

*See you at the victory party. (We'll bring the champagne.)*