

ACTIONABLE DATA IN DEMANDING ENVIRONMENTS

Optimize processes and resource management, help maintain safety and compliance and increase the speed and efficacy of decision-making within fast-paced operations by empowering personnel with insights they can trust.



Honeywell

INTRODUCTION

From power generation and thermal processes to automated controls and advanced sensors, industries are increasingly powered by an endless stream of 0s and 1s moving at the speed of milliseconds. How should businesses make sense of all this data?

In a data-driven economy, industrial operations face information overload from interconnected sensors, control systems and digital interfaces. But more data does not always translate to operational efficiency and better outcomes.

Poor data quality can increase inefficiencies since time and other resources are spent detecting and correcting errors. Without context, a deluge of data can start to feel like static on a television screen, distracting equipment operators, delaying decisions and, potentially, creating safety and reliability risks.

Smart manufacturing utilizes actionable data — relevant information presented in a way that enables immediate decision-making. In a survey of 600 industrial executives, conducted by the consulting firm Deloitte, respondents saw an average increase in production output between 10-20% after implementing smart manufacturing initiatives. Executives also reported between 7-20% improvement in employee productivity, according to the Deloitte survey.¹

Actionable data is trusted, timely and decision-ready — whether a machine acts on it or a human operator responds. It's the foundation of industrial automation and predictive maintenance. It's also the difference between preventing downtime and reacting to it.

In industries where uptime equals revenue — and downtime can cost millions — turning information into insight has become a strategic imperative. So, what do businesses need to know to decipher their data better?



THE CONTEXT BEHIND 0s AND 1s

High-performance industrial operations require decisions to be made under pressure. Hesitation can come at a cost.

Better data matters. Both machine operators and automated systems need to interpret vast streams of data quickly and with confidence.

“Noisy data slows operational efficiency and profitability,” says Meredith Winczewski, Chief Marketing Officer of Honeywell Industrial Automation. “In industrial settings, what you really need is data that drives decisions — automatically or through your team.”

The challenge is that data complexity increases as industrial operations scale. Today’s facilities generate massive volumes of data across assets, processes and personnel. From performance logs and environmental conditions to production throughput and maintenance histories, the numbers are endless. And without context, they can be meaningless.

At the same time, industrial operations face growing external pressures — from stringent regulatory compliance and global supply chain disruptions to increasing demands for workforce safety and rising cybersecurity threats targeting operational technology. In this high-stakes environment, the margin for error is razor-thin, making trusted, actionable data essential for staying compliant, resilient and competitive.

TOO MUCH NOISE

Poor data quality can cost organizations an average of \$12.9 million each year, according to the research firm Gartner.² Unfortunately, many facilities are still overwhelmed by raw, unfiltered data — and it’s causing more harm than good:

- **Operational inefficiencies**
Critical insights are buried under irrelevant metrics
- **Safety risks**
Urgent alarms can be lost in a flood of low-priority alerts
- **Data fatigue**
Human operators, and even automated systems, can become overwhelmed

THE COST OF DOWNTIME

20%

AVERAGE ANNUAL LOSS OF
PRODUCTIVITY A MANUFACTURING
PLANT FACES DUE TO
UNPLANNED DOWNTIME³

\$300,000

AVERAGE HOURLY COST OF
DOWNTIME FOR 90% OF MIDSIZE
AND LARGE BUSINESSES⁴



FROM CONTEXT TO CLARITY

Close the gap between data and action.
At Honeywell, our approach data involves
making information actionable through context.

We combine industrial automation, artificial intelligence and real-time analytics to help business leaders move from information overload to operational insight.

Instead of chasing problems, organizations can anticipate them — reducing downtime, improving safety and making smarter, faster decisions.

“Our approach to data shines in environments where uptime is tied to profit,” Winczewski says. “We give our customers data they can trust, act on and use to improve outcomes across uptime, safety and performance.”



TURN INSIGHT INTO IMPACT

Across industries, Honeywell’s capabilities help organizations deliver measurable gains in uptime, safety and efficiency.



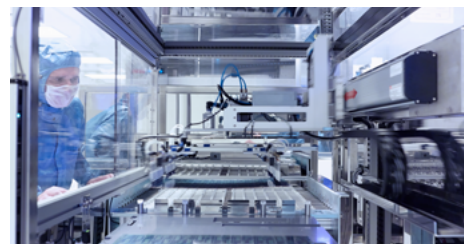
Smart Energy and Thermal Solutions

Delivers integrated devices, software and services that empower utilities and industries to operate more safely, reliably and efficiently. From optimizing thermal processes to advancing energy resilience, Honeywell can help organizations accelerate sustainable transformation and long-term performance.



Process Measurement and Controls

Provides precision automation and data logging, gas monitoring and detection, and safety technologies that elevate operational intelligence. By enabling smarter, real-time decisions and driving efficiency across complex industrial environments, Honeywell supports scalable performance, incident prevention and compliance.



Sensing Solutions

Offers advanced sensing, switching and testing technologies engineered for power generation and thermal processes, healthcare and industrial environments. With deep expertise and tailored capabilities, Honeywell helps customers boost productivity, enhance safety and ensure consistent, high-quality outcomes.

WHAT THIS ENABLES



Predictive Planning

Detect issues early to avoid problems and failures later.



Proactive cybersecurity

Identify threats in real time and respond before they become a full-blown breach..



Empowered decision-making

Gain access to valuable insights, enabling fast and informed action across your organization.

THE CASE FOR ACTING NOW

In today's complex industrial operations, actionable data isn't just a competitive advantage. It's a requirement to stay competitive.

It powers safer operations, higher uptime and more efficient use of resources in environments where every second counts.

Investing in industrial automation is more than a technology upgrade. It's a business decision that directly affects profitability, compliance and long-term resilience.

Honeywell brings together automation, analytics and industry-specific expertise to help you cut through the noise and act with confidence — no matter how complex your operation.

Ready to move from reactive to predictive? Now's the time to start unlocking the value of actionable data in your operations.

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