

AUTOMATION & CONTROL SOLUTIONS

FOR INDUSTRIAL AUTOMATION PROCESSES



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MKS has the critical building blocks and experience to deliver the latest technologies for distributed automation control and process monitoring. We offer a complete suite of hardware and software configurable modules that automates processes while seamlessly integrating with existing MKS products to provide cutting-edge solutions for Semiconductor, Life Sciences, and other advanced markets.

With over 20 years of experience in I/O and control solutions design, our innovative team will design a robust solution to meet your form, fit, and function requirements. Based on cutting edge platforms, leveraging future technology and long-term tested building blocks, the solutions we provide have the highest levels of quality and reliability.

MicroNode™ Compact Networked I/O

MicroNode I/O is a high density, compact and economical I/O solution for popular DeviceNet™, Profibus®, EtherCAT®, and Ethernet based fieldbus networks. The Ethernet versions contain cLogic™, an on-board C-compiler to handle the distribution of real-time logic tasks. MicroNode I/O products reduce network and main controller bandwidth limits by offloading time critical tasks.



Key Benefits

- A mixture of digital and analog I/O makes selection of a cost-effective product easy
- Package design and options makes installation flexible
- IP61 rated for use in harsh industrial environments
- EtherCAT and DeviceNet communication interfaces
- High EMC, ESD noise immunity and isolation for demanding industrial applications

Modular I/O Controller Platform

The Modular I/O platform is an advanced I/O controller system. It manages communication between a computer running an EtherCAT master and various connected devices, sensors, and equipment that operate through input and output controls. The system's architecture allows for customizable selection of quantities and types of I/Os, while enabling flexible integration into industrial automation environments.



Key Benefits

- High-performance I/O control with real-time EtherCAT communication
- Modular, scalable architecture with flexible digital and analog I/O via interchangeable "slice" design
- Expandable with remote I/O units for distributed system layouts
- Integrated safety support with certified Safety Digital I/O (SIL3 / PLe / Cat. 4)
- Programmable Safety delivers flexible interlock logic across distributed controllers while ensuring high safety
- Cost-effective alternative to traditional safety PLC solutions

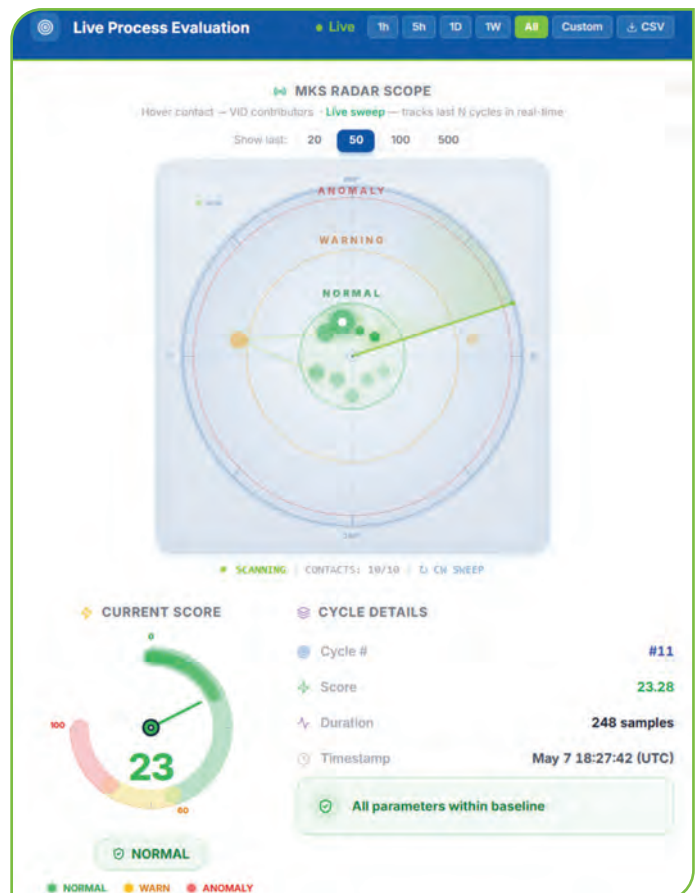
Smart Factory Solutions

MKS provides a variety of Industrial Internet of Things (IIoT) ready hardware and software solutions to enable Smart Factory Automation at factories to improve the efficiency of processes and the manufacturing facilities around the world. Our solutions combined with state-of-the-art predictive analytics improve production efficiency and reduce expensive downtime.



Key Benefits

- Intelligent analytics engine provides real-time process insights, anomaly detection, and predictive maintenance to boost productivity and eliminate unplanned downtime
- Seamless factory connectivity with unified integration across machines, systems, and tools (EtherCAT, OPC US, Influx DB, Modbus/TCP, MQTT, HSMS, ADS, and more)
- Actionable, real-time insights empower faster, smarter decision-making with data that drives performance
- Customizable HMI provides live, interactive dashboards that give operators clear visibility and control in real time



Real-time Analysis

WHY MKS?

CRITICAL TECHNOLOGIES

World-class technology and development capabilities for leading-edge processes



PROVEN PARTNER

Recognized leader delivering innovative, reliable solutions for our customers' most complex problems



OPERATIONAL EXCELLENCE

Consistent execution across all aspects of our business



COMPREHENSIVE PORTFOLIO

Extensive offering of products and services for the markets we serve



MKS Controls Business Unit

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MKS INC. (NASDAQ: MKSI) enables technologies that transform our world. We deliver foundational technology solutions to leading edge semiconductor manufacturing, electronics and packaging, and specialty industrial applications.

We apply our broad science and engineering capabilities to create instruments, subsystems, systems, process control solutions and specialty chemicals technology that improve process performance, optimize productivity and enable unique innovations for many of the world's leading technology and industrial companies.

Our solutions are critical to addressing the challenges of miniaturization and complexity in advanced device manufacturing by enabling increased power, speed, feature enhancement, and optimized connectivity. Our solutions are also critical to addressing ever-increasing performance requirements across a wide array of specialty industrial applications.

Additional information can be found at www.MKS.com.

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