

CONTROLLEDGE™ DISCRETE PLC

Pioneering Next-Generation Solutions for Manufacturing Efficiency



Honeywell

Honeywell's new cutting-edge Programmable Logic Controller for Discrete Automation industry is part of the ControlEdge™ family, a next-generation family of controllers providing unprecedented connectivity through all levels of process, discrete and business operations. The result is optimized operations and maintenance efficiencies that liberate personnel from manual processes. ControlEdge Discrete PLC comes with Cybersecurity ISA certification which enables it to optimize operation at the shop floor while ensuring safety and resilience of the critical processes.



In the ever-evolving landscape of discrete automation, the need for innovative solutions that address the multifaceted challenges faced by manufacturers is paramount. Enter the next generation ControlEdge Discrete PLC, a revolutionary system which increases factory output, enhances productivity and maximizes profitability. This groundbreaking PLC is set to redefine the manufacturing sector, offering an array of features tailored to meet the demands of modern-day production.

INCREASING FACTORY OUTPUT

ControlEdge Discrete PLC plays a crucial role in boosting factory output through several advanced features:

High-Speed Backplane

Availability of the high-speed backplane enables faster data processing and addition of third-party application-specific cards into the PLC. This infrastructure can be leveraged in the future to build capability which allows for the enhancement of control processes and optimization of operations.

Open Architecture for Easy Integration

Its open architecture adheres to industry standards, ensuring that the

PLC can be integrated into different systems without compatibility issues, thus providing flexibility and adaptability in a dynamic industrial environment. This openness ensures that the PLC can be tailored to meet diverse operational needs.

Intuitive Diagnostics and Condition based monitoring

Intuitive diagnostics through the builder helps in identifying and resolving issues promptly, thereby reducing downtime and ensuring continuous operation. These diagnostics enhance the reliability and efficiency of industrial processes. Together with the VFD, Condition Based Monitoring functions

will be implemented in future to help provide near real-time monitoring of motor conditions (stator windings, mechanical vibration, load envelope) based on ISO 13373 and VDMA 24582 standards, helping reduce maintenance costs and unplanned downtime.



IMPROVING PRODUCTIVITY

ControlEdge Discrete PLC is empowering customers to significantly boost their productivity through various means:

IEC61131-3 Based Configuration Tool

The IEC61131-3 based configuration tool offers a standardized, flexible, and efficient method for programming. This ensures that users can easily design and deploy control applications, reducing the time and effort required for configuration. It also minimizes learning curve for new engineers helping them become efficient programmers in no time.

Concurrent Development Experience

The ability to develop and test multiple applications simultaneously enhances the development process, ensuring faster deployment and reduced time-to-market. Concurrent development aids in streamlining workflows and improving overall efficiency.

Ease of Migration

ControlEdge Discrete PLC will offer seamless migration capabilities from legacy systems, minimizing downtime and ensuring continuity of operations. This feature will allow customers to upgrade their systems effortlessly without disrupting ongoing processes.

Application-Specific Libraries & High-Level Language Support

In the future with application-specific libraries and support for high-level programming languages, ControlEdge Discrete PLC will allow for the customization and optimization of control processes. This adaptability will help users to tailor their systems according to specific operational requirements.

MAXIMIZING PROFITABILITY

ControlEdge Discrete PLC maximizes profitability by adapting to changing demands and ensuring secure operations:

Scalable and Modular Design

The PLC's scalable and screwless modular design through stackable baseplates allows it to adapt to ever-changing customer demands. This flexibility ensures that the system can grow and evolve with the business, providing a cost-effective solution for long-term operations.

Cybersecurity

With built-in cybersecurity measures, ControlEdge Discrete PLC safeguards critical operations from potential threats, ensuring the integrity and

security of industrial processes. These stringent security measures ensure that sensitive operational data is safeguarded against unauthorized access and operational continuity is maintained, providing peace of mind to manufacturers.

Remote operability

In today's globalized world, the ability to manage operations remotely is no longer a luxury but a necessity. By leveraging remote operability of the ControlEdge Discrete PLC through OPC UA, companies can monitor and control their production processes from anywhere in the world, optimizing resource allocation and ensuring continuous operation even in unforeseen circumstances.

IIoT Ready

In the future, the ControlEdge Discrete PLC will enable seamless integration with the Internet of Things, enabling advanced data analytics and improved decision-making. This capability will ensure that customers can leverage the latest technological advancements to optimize their operations and increase profitability.



APPLICATION AREAS:

- Intra-logistics
- Material Handling
- Discrete applications in verticals such as Metal, Mining Minerals, Semiconductors, Gigafactories, Pharma and F&B (Packaging, Bottling, Labelling)

A GLIMPSE INTO THE FUTURE

The ControlEdge Discrete PLC is not just a product; it is a vision for the future of discrete automation. It embodies the principles of Industry 4.0, where connectivity, data analytics, and smart systems converge to create highly efficient and adaptable manufacturing

ecosystems. As companies continue to navigate the complexities of the modern industrial landscape, this PLC stands as a beacon of innovation, offering a comprehensive solution that addresses current challenges while paving the way for future advancements.



WHY HONEYWELL

For over 50 years, Honeywell has been at the forefront of continuous process automation, enabling us to tackle the most complex challenges in various industries. Our expertise allows us to effectively control and enhance the efficiency of intricate chemical processes while also reducing the carbon footprint associated with industrial applications, among other critical factors.

By prioritizing innovation, Honeywell is dedicated to making discrete manufacturing more efficient, resilient, and safe, positioning us as a trusted partner for our clients' evolving needs.

CONTROLEDGE DISCRETE PLC

Meets the requirements of the most demanding applications:

- High Speed backplane enabling Open yet Integrated Architecture
- Power-packed Migration tool
- Condition-based monitoring to reduce downtime (coming soon)
- Fast engineering tool - Application Specific Libraries & High-Level Language Support
- Compliance to IEC62443 Cybersecurity standards
- **Coming Soon:** Remote Operability by Digitization software to Low Level HMI

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THE
FUTURE
IS
WHAT
WE
MAKE IT

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