



Yokogawa's AXON Control

Integrated Solutions Process Control



Reach Your Company's True Potential with the Power and Reliability of Yokogawa's AXON Control

Visualize – Envision your company's true potential.

Control – Customizable solutions to overcome challenges.

Record – Create a historical pathway to continued improvement and quality.

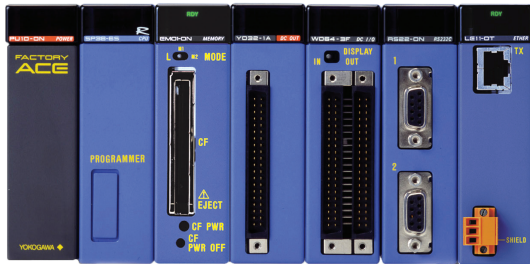
What is Axon?

AXON Control is PLC Controlled with a Superb Data-acquisition Recorder

- No constant software upgrades
- No license renewals
- No hardware–software conflicts
- No custom software needed
- Not susceptible to computer viruses

A Single Flexible System

- The industry's fastest control processor
- Expandable to meet customer's needs in a single platform
- Streamlined hardware
- Common maintenance and engineering tools
- Low cost of ownership



Outstanding Data Recording

- Data saved securely on industry standard media
- Web server functions allow real-time monitoring of measured data via the network
- Automatic generation of trend or tabular data
- Off the shelf data conversion software allows you to create quality reports and use Excel and other commercially available spreadsheet programs.



Operator Interface Scales New Heights of Excellence

- Optimum operability, intuitive controls, and extended capability to display and utilize your application
- Provides a wide range of display options, with wide range of functionalities
- The range of sizes helps to establish the most efficient information system to fulfill the needs of automation





Co-innovating tomorrow™

Through “Process Co-Innovation,” Yokogawa creates new value with its clients for a brighter future.

Consolidating Control to Maximize Profitability

Integrating process, batch, discrete, drives, and motion into one connected and segmented infrastructure, increases efficiency and productivity across all levels of your operations. Utilizes one common framework that’s easier to install and operate, removing the need for multiple, contrasting control systems.

Advanced Diagnostics

Accurate diagnostics at the module and channel level serve to confirm the reliability of AXON control. Troubleshooting can be automatically executed by inserting an SD memory card and turning a rotary switch. Diagnostics can be done without interrupting the online process utilizing Yokogawa’s Virtual M3 software.

AXON Control Provides Best-in-class Control

Axon Control provides fine control at the fastest speed, accuracy, and resolution. Its built-in “SUPER” function suppresses overshooting using fuzzy theory and a “dynamic auto-tuning” function to deliver the best possible manufacturing quality.

Operational Excellence Transformation to Higher Value

Yokogawa provides comprehensive solutions developed with a customer’s specific needs in mind. By continuously expanding the circle of co-creation, AXON control is a platform for future growth on an unprecedented scale, removing the obstacles to untapped potential.

Yokogawa's AXON Control reduces hardware, software, training and support needs

Yokogawa applies its vast industry-leading knowledge, which extends well beyond cutting-edge technologies and plant operation, providing resolution to issues facing customers and works well in many industries:

- Chemicals, including specialty and fine chemicals, plastics and rubber
- Combustion Control
- Burner Management Systems (e.g. furnaces, boilers, pre-heaters, composite curing, kilns, ovens, reactors, dryers, thermal oxidizers, smelters, incinerators, process heaters)
- Heat Treatment
- End of Line Testing
- Food and Beverage
- Oil & Gas, Refining
- Water and Waste Water
- Pressure and Flow Applications
- Pharmaceuticals and Cosmetics
- Power (excluding nuclear)
- Pipeline Control
- Cement and Glass
- Mining and Metals
- HVAC
- Data Centers
- Terminal Automation
- Electronics and Semiconductor
- Cement
- Glass
- Textiles
- Metro Rail



The AXON Control Communication Options

In order to thrive in today's ever-evolving business environment, industry leaders understand that operational excellence needs to be at the forefront of their strategy to consistently carry out safe, reliable and profitable operations.

Yokogawa's AXON Control has extensive communication options and drivers to address a wide range of industrial networking requirements.

AXON's diverse connectivity and communications options accommodate existing process-inline infrastructure, conform to specific control requirements, and adapt to specialty applications.

Open Ethernet Connectivity

- Ethernet I/P
- Modbus TCP/IP

Serial Modbus Connectivity

- Modbus RTU

Web Browser Access

- No special software required

Wireless Connectivity

- Smart 920
- 900Mh wireless communications

21 CFR Part 11 Support

- Supports the FDA title 21 CFR part 11 regulation for pharmaceutical manufacturing industry

E-mailed Alarm/Event Reporting

AXON Control can send a variety of informative e-mail messages:

- Alarm notification reports
- Periodic instantaneous data values
- Scheduled report data and other information

Bluetooth Notifications and Control

- Downloadable free smart phone app

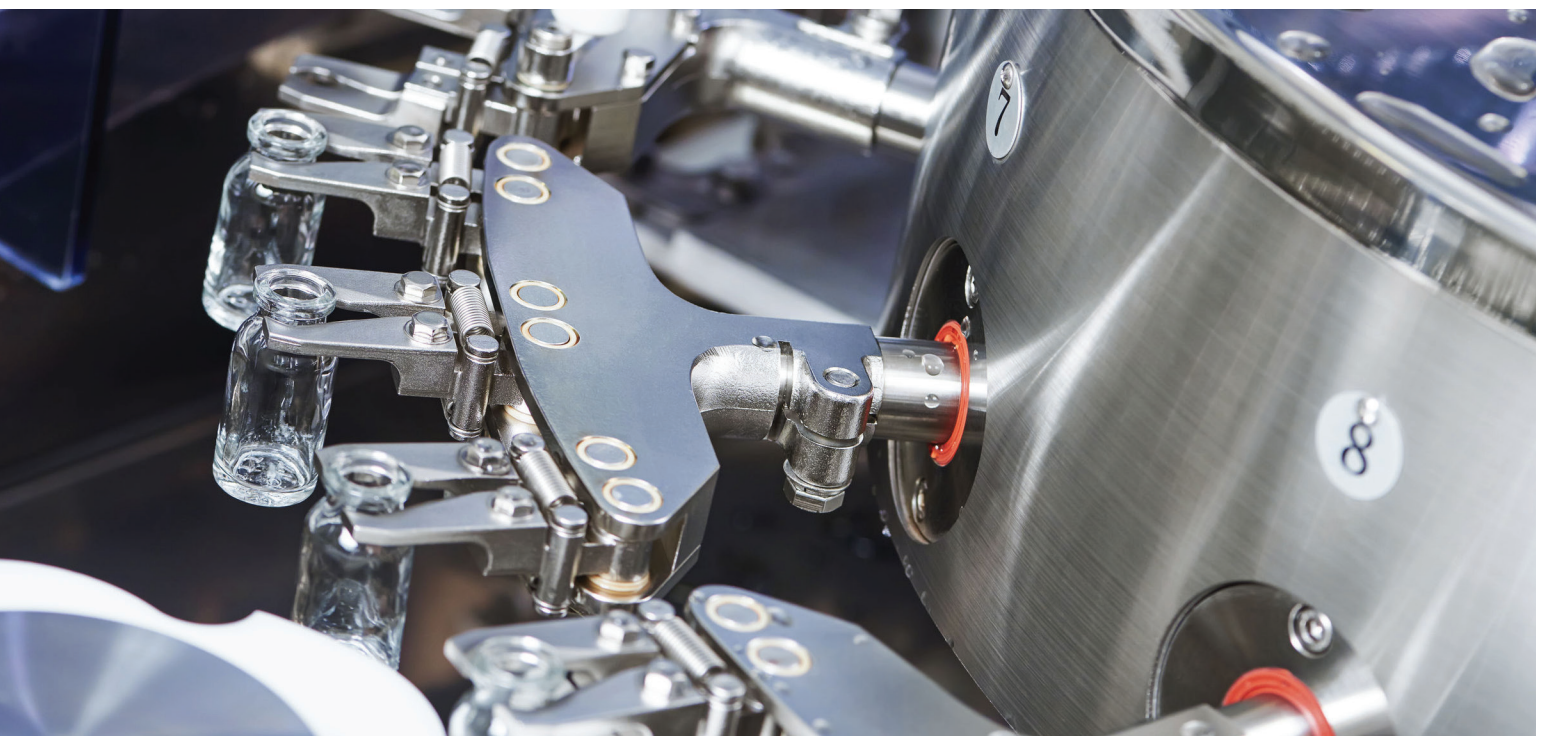
The AXON Control OPC UA Server

- Provides secure and reliable real-time data access between all AXON control and any OPC-enabled applications

The AXON Control OPC UA Server Enables 3rd Party Connectivity

- Key to successful phased migration and integration

Yokogawa has been manufacturing control products for over 50 years and understands that reliable control and consistent data is directly related to the quality of your products. The AXON Control is designed and operates based on Yokogawa's extensive years of experience. Yokogawa's Integrated Solutions engineers can build a customized AXON Control specifically for your application. Operators find the system easy to use and intuitive. From the moment a process is started, insightful, secure data will be available. Allow Yokogawa's experience and AXON Control to help you improve your bottom line, increase worker productivity, and improve your manufactured products quality.



Yokogawa AXON Control and Integrated Solutions

Finding a solution for a unique or complex industrial process application can be difficult. Yokogawa's Integrated Solutions team can design and implement custom control systems that meet your specifications and exceed your expectations.

Yokogawa Integrated Solutions is an engineering solutions group with proven results. We specialize in the evaluation and development of operations design improvements, design package development, and complete implementation and testing.

Configured and Complete Turnkey Control Solution

Yokogawa Integrated Solutions allows customers to order a solution that is designed and built for their specific needs. The Yokogawa AXON Control will arrive pre-configured, programmed and ready to run. Installation involves mounting the enclosure, landing the field wiring, and applying power.

Ease of Use for Operators

Integrated Solutions will ensure the AXON Control features intuitive, easy to read screens, combined with ease of navigation. Operators will quickly learn how to operate the AXON system. Management personnel can easily implement routine management and data reporting features, locally or from a remote location.

Easy to Load Testing Routines for Multiple Products

AXON control allows development and management of multiple process routines. Process routines can be created and saved on a separate server, then loaded into the AXON control, locally or remotely.

Integrated Solutions Recipe Management System

The system allows development and management of product program recipes. Recipes can be created and saved on a separate server, then loaded into the AXON Control, locally or remotely.





YOKOGAWA

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www.yokogawa.com

Yokogawa Corporation of America

12530 W. Airport Blvd.,
Sugar Land, TX 77478
www.yokogawa.com/us

Yokogawa Canada, Inc.

Bay 4, 11133 40th Street SE,
Calgary, AB T2C 2Z4
www.yokogawa.com/ca

Yokogawa de México, SA de CV

Urbina No. 18
Parque Industrial Naucalpan
Naucalpan de Juarez, Estado de México
C.P. 53370
www.yokogawa.com/mx