OpreX™ Control & Safety Systems

YOKOGAWA
Co-innovating tomorrow™

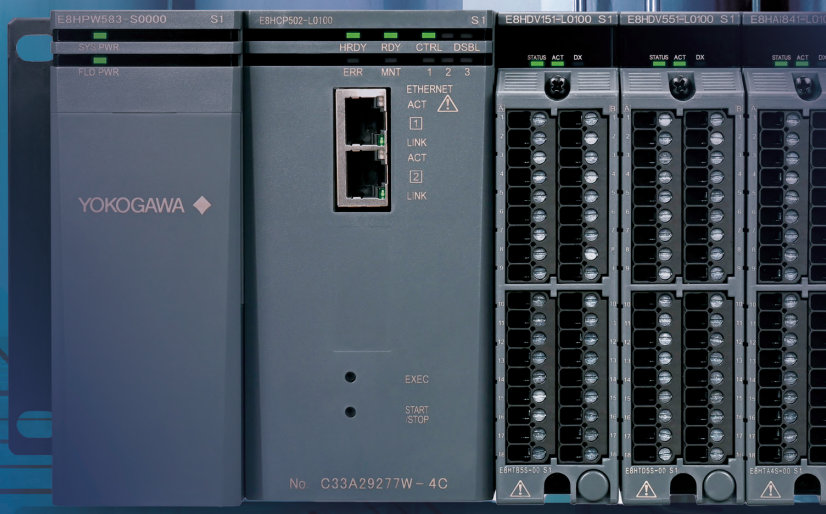
OpreX Universal Autonomous Control System

Control Node Light Model

Introducing the PA PLC

Reliable, secure, and easy-to-use control for small- to medium-scale process automation applications.

OpreX Universal Autonomous Control System is Yokogawa's new production control system for small- to medium-scale applications in the process automation domain. A key component of this platform, the Control Node Light Model is a process automation PLC that combines high reliability and stable operation with ease of use.



Key Features

Industry Standards

Support for industry standards, including IEC 61131-3 and OPC UA, provides the flexibility and scalability required to optimize manufacturing operations.

Robust & Reliable

High reliability, built-in diagnostics, and automatic recovery functions help maintain stable production processes.

Security by Design

Built-in security features support secure operation, including digital certificates, encrypted communications, network access control, and user authentication.

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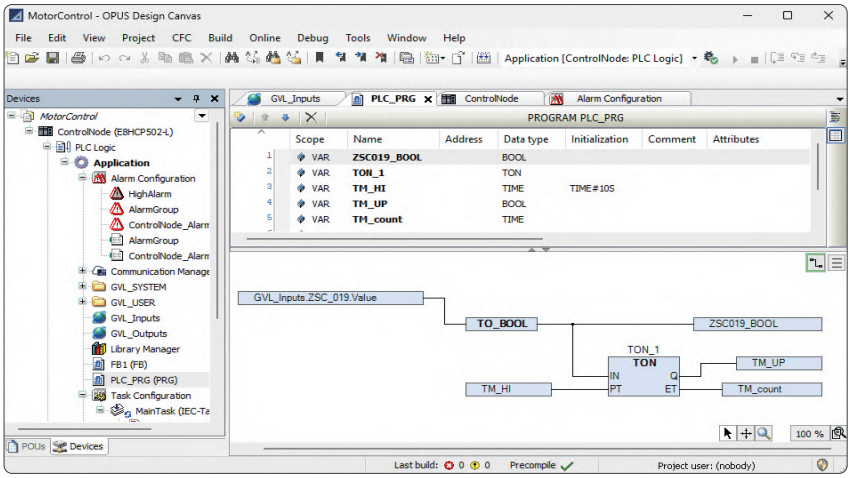
A clear, streamlined system design with a compact, fixed input/output configuration







Engineering display

Specifications

Hardware	The CPU module includes two Ethernet ports.			
	The power supply module is available with either a 100 to 240 V AC or 24 V DC power supply.			
	Two input/output module configurations are available:			
	Type A	Configuration: Up to 80 input/output points Digital input module: 32 channels, 24 V DC, isolated Digital output module: 32 channels, 24 V DC, isolated Analog input/output module: 8 input and 8 output channels, 4–20 mA, non-isolated, with HART communication		
	Type B	Configuration: Up to 64 input/output points Digital input/output module: 16 input and 16 output channels, 24 V DC, isolated Analog input module: 16 channels, 4–20 mA, isolated, with HART communication Analog output module: 16 channels, 4–20 mA, isolated, with HART communication		
Installation	CPU Power Consumption	4W		
	Operating Temperature	-20 to 70 °C		
	Operating Humidity	5 to 95 % RH, non-condensing		
	Mounting Options	Wall or DIN rail mounting		
Engineering	Compliant with IEC 61131-3 Supports LD, FBD, ST, IL, SFC and CFC programming languages, (CODESYS CFC)			
Control	Control cycle	10 to 1,000 ms		
Communication	Upper-level port	OPC UA Server	Read performance	1,000 points per second
			Monitored items	666 points per second
			Maximum connections	10 clients
	Lower-level port	Modbus/TCP Client	Communication data capacity	650 points
			Maximum connections	32 devices
	Communication speed	Up to 1,000 Mbps		



OpreX™ Through the comprehensive OpreX portfolio of products, services, and solutions, Yokogawa enables operational excellence across the enterprise.

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