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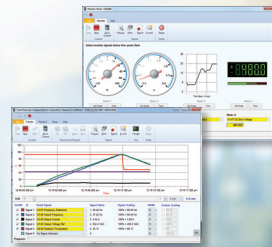
Boost machine performance by reducing downtime

NX1 Machine Automation Controller

STARTER KIT

Reduce Machine Downtime - Monitoring for preventive maintenance prevents unexpected line stoppages

Vertical integration delivers real-time production data from sensing to IT systems. Data from all components such as actuators and sensors can be monitored and analyzed, identifying issues for predictive maintenance or faster troubleshooting.
• Supported servers: Microsoft SQL, Oracle, IBM DB2, MySQL, Firebird, PostgreSQL
• Backup and restore function of the complete system: Project in the controller, slaves parameters and network settings- for quick product replacement.

Analog Oversampling enabling signal processing (200 kHz)

• Data acquisition fully synchronized with the NX1 machine controller
• Dedicated Function Blocks for easy programming

Improved productivity - Fast changeover and set-up

IO-Link network allows you to monitor and download the parameters of the sensors. Settings of new format of production can be transferred automatically from the controller to all sensors reducing changeover time.

NX1-OPC-SQL-Oversamp-Kit

Controller features included
• Modular Controller design
   with embedded Power Supply
• Batteryless controller
• Built-in OPC-UA server
• Database direct connection,
   embedded SQL client
• 32 MB of memory for Variables
• 5 MB of Program memory
• 2 independent built-in Ethernet ports
• 1 EtherCAT master port for real-time
   machine control
• 4 PTP axes

**… to extend preventive maintenance
   functionality**

Real-time Data Acquisition features extended by:
• IO-Link master unit
• 4 channels Analog Oversampling unit (5µs)

Would you like to know more?

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Starter kit options

+ Sysmac Studio Team Development Option

OPC UA   SQL Client

STARTER KIT ITEM NAME	CONTENT	DESCRIPTION
NX1-OPC-SQL-Kit	**NX102-9020**	NX1 Modular Controller build-in EtherCAT up to 64 nodes and 4 PTP axes, OPC-UA Server, EtherNet/IP and Database Connectivity
NX1-OPC-SQL-Motion-Kit	**NX102-1120**	NX1 Modular Controller build-in EtherCAT up to 64 nodes, 4 Motion axes and 4 Position axes, OPC-UA server, EtherNet/IP and Database Connectivity
NX1-OPC-SQL-Oversamp-Kit	**NX102-9020**	NX1 Modular Controller build-in EtherCAT up to 64 nodes and 4 PTP axes, OPC-UA Server, EtherNet/IP and Database Connectivity
	NX-HAD402	4 High Speed Analog Inputs, 5 µs/channel
	NX-ILM400	IO-Link master unit

Each starter kit also includes the following:	
SYSMAC-LE201L	Sysmac Studio Lite Single user license
SYSMAC-SE200D	Sysmac Studio DVD
SYSMAC-TA401L	Sysmac Studio Team Development Option
S8VK-S06024	Power Supply 24 V, 60 W, 2.5 A, Push-in Plus model
NX-ID3417	4 inputs, 3-wire connection, Synchronous/Free Run, PNP
NX-OD3256	4 outputs 0.5 A, 3-wire connection, Synchronous/Free Run, PNP
NX-PF0630	I/O power feed unit up to 4 A
XS6W-6LSZH8SS200CM-B	Ethernet Cat.6 patch cable, (Blue), 2 m
XS6W-6LSZH8SS200CM-Y	Ethernet Cat.6 patch cable, (Yellow), 2 m

A complete kit to try out our latest Sysmac controller.
For more info please visit: industrial.omron.eu/nx1
www.ia.omron.com/sysmac_library

Would you like to know more?

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