November 13, 2024
Fuji Electric Co., Ltd.

Higher Control Speed with a New Calculation Engine
Launching the MICREX-SX Series SPH3300/2200

Fuji Electric Co., Ltd. is pleased to announce the launch of the MICREX-SX Series SPH3300/2200 programmable controllers, which contribute to improving productivity on manufacturing shop floors by increasing the control speed of production facilities.

1. Background

Manufacturing shop floor workers are making efforts to improve the operation rate of production facilities, reduce lead-times, and otherwise improve productivity and reduce production costs through the use of DX (digital transformation).

Production facilities include processing machines, robots, and surface treatment equipment, and the function of PLCs (programmable logic controllers) is to optimally control servo systems and motors that drive them.

Fuji Electric has recently launched PLC models SPH3300 and 2200, which feature improved control speed for processing machines such as packaging machines and printing machines.

These models have a function to record data such as the operation status of production facilities, and by using it to analyze data, customers can improve the operation rate of their facilities by detecting signs of facility abnormalities and by restoring facilities early in the event that an abnormality occurs.

They will be rolled out globally, with a focus on Japan and the Asian region, the latter of which is enjoying continued economic growth.

MICREX-SX Series SPH3300/2200

2. Product Features

1) A new calculation engine to achieve a 6.5-times higher control speed

PLCs perform machine control and system monitoring control by executing application programs created by customers. With these models, the calculation engine (including the processor and memory) has been revamped to improve the application program execution speed, achieving a control speed that is 6.5 times higher than FE's previous model.(*1)

This helps improve the efficiency of customer equipment.

(*1) Comparison between the new model SPH3300 and the conventional SPH3000

2) Fuji Electric's unique logging function keeps apps running faster when recording data

Promoting DX on manufacturing shop floors requires a logging function.(*2) With PLCs made by other companies, using the logging function may result in slower execution speeds in application programs for machine control and system monitoring control, possibly causing decreases in the

productivity and accuracy of customer facilities.

However, thanks to FE's proprietary software structure, these products can record data while maintaining the execution speed of application programs even when using the logging function.

(*2) A function to record facility operating status and other such data.

3) A simple model migration tool that reduces the time needed to switch models

Replacing a PLC with a different model requires a migration process, which involves rebuilding the previously used application programs to match the new model's specifications and verifying operation. For this product, Fuji Electric has developed a simple model migration tool to simplify this process.

Customers can automatically rebuild the application programs of existing FE models through a simple computer operation. This greatly reduces the time and effort needed to switch models.

3. Main Specifications and Suggested Retail Prices

Product name	Model number	Program memory	ROM card	Ethernet	Motion control function	Suggested retail price
SPH2200	NP1PM-048RN	48Kstep	SD	Not supported	Built-in	152,000 yen
	NP1PM-048EN	48Kstep	SD	Supported	Built-in	187,000 yen
SPH3300	NP1PU-048EN	48Kstep	SD	Supported	Built-in	241,000 yen
	NP1PU-096EN	96Kstep	SD	Supported	Built-in	306,000 yen
	NP1PU-128EN	128Kstep	SD	Supported	Built-in	481,000 yen
	NP1PU-256EN	256Kstep	SD	Supported	Built-in	530,000 yen

4. Launch Date

The date of this announcement

5. Product Inquiries

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The information conveyed in this release is accurate as of the date of this announcement.