FX Customer NEWS

MELSEC iQ-F series

Notice of Production Discontinuation

<FX2N Series Extension Blocks>

We would like to announce that production of the following models, which have been used over many years, will be discontinued. Since products and parts have finite service life, preventive maintenance before the occurrence of fault is important. We request you to please consider early replacement before the product fails.

Last order acceptance September 30, 2023

April 1, 2023	September 30, 2023	December 31, 2023	December 31, 2030
Start of make-to-order production	End of order acceptance	Production discontinuation	Repair acceptance period* (7 years)

*: Even during the repair acceptance period, the repair will not be supported if the parts run out of stock.

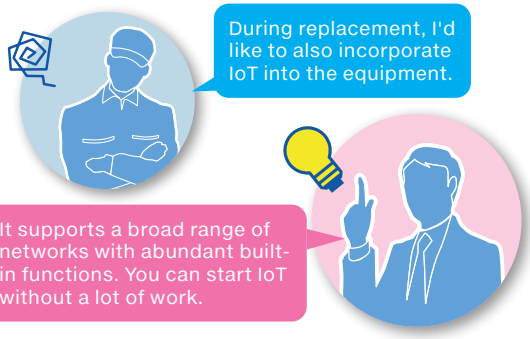
For details, refer to TECHNICAL BULLETIN (FAM-A-0054).

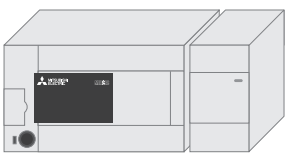
Models for which production will be discontinued

Recommended replacement models

Models for which production will be discontinued		MELSEC iQ-F Series	MELSEC-F Series
Analog input block 	FX2N-2AD	FX5-4A-ADP FX5-4AD-ADP FX5-4AD Built-in analog of FX5U CPU module	FX3U-3A-ADP FX3U-4AD-ADP FX3U-4AD
	FX2N-8AD	FX5-8AD	–
Analog output block 	FX2N-2DA	FX5-4A-ADP FX5-4DA-ADP FX5-4DA Built-in analog of FX5U CPU module	FX3U-3A-ADP FX3U-4DA-ADP FX3U-4DA
Analog input/output block 	FX2N-5A	FX5-4A-ADP FX5-4AD-ADP + FX5-4DA-ADP FX5-4AD + FX5-4DA	FX3U-3A-ADP FX3U-4AD-ADP + FX3U-4DA-ADP FX3U-4AD + FX3U-4DA
Pulse output block 	FX2N-10PG	FX5-20PG-D	–
CC-Link interface block 	FX2N-32CCL	FX5-CCL-MS	FX3U-64CCL

Since you're replacing the system, we recommend the MELSEC iQ-F Series that enables advanced manufacturing!





FX3U CPU + FX2N-2AD

For example, when doing this replacement

For example

Built-in analog of FX5U CPU module

For example

FX5U CPU module + FX5-4AD

Built-in functions of MELSEC iQ-F Series are updated in a timely manner. This time, the "PID control" built-in function of FX5U and FX5UC has been upgraded. Continued on other side.

FX Customer NEWS

MELSEC iQ-F series

FX5U | FX5UC | Supported in firmware version 1.280 or later.

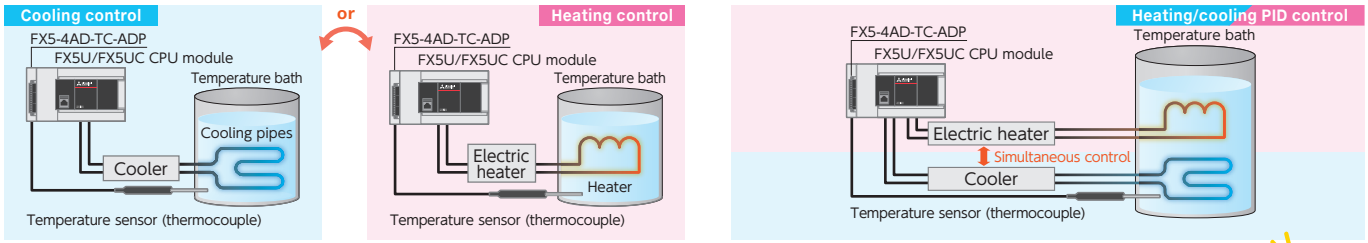
The built-in PID function has become even easier to use.

POINT 1 Function upgrade

The heating/cooling PID control function can control heating and cooling simultaneously.

The built-in PID functions now offer “Heating/cooling PID control” in addition to conventional standard PID control. Two system outputs for heating control and cooling control can be simultaneously operated to enable more precise temperature control than standard PID control.

Before (standard PID control) → **After (heating/cooling PID control)**



With standard PID control, you have to select either direct action (cooling operation) or reverse action (heating control).

If the temperature goes over the target value, there is nothing to do but to wait for natural cooling.

With heating/cooling PID control, you can perform direct action (cooling operation) and reverse action (heating control) simultaneously.

Speedy control to the target value. High-accuracy temperature control is possible.

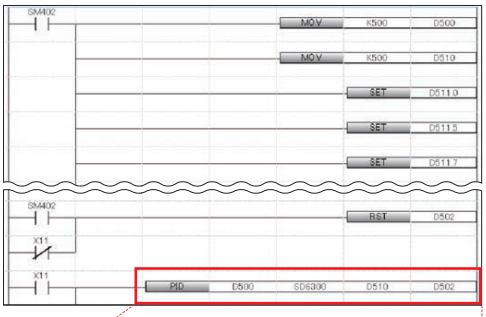
POINT 2 Setting is easy!

Simple setting using parameters. No need for programming.

Each item is set using CPU parameters in GX Works3. PID can be executed by operating the “ PID control execution commands” in the watch function or ladder.

Before → **After**

PID control by executing instructions



PID control sample program example

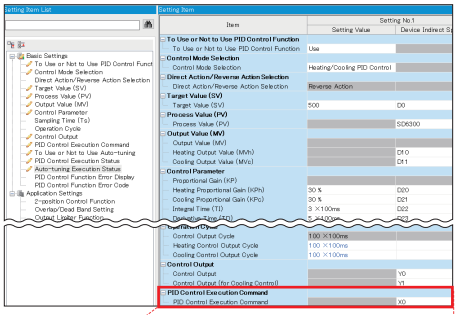
- Target value (SV)
- Measured value (PV)
- Sampling time (TS)
- Operation setting (ACT)

⋮

A lot of items need to be set to execute PID instruction.

PID instructions

Set PID control execution commands to ON.



Screen example for heating/cooling PID control

PID control execution commands

Settings can be performed intuitively in visually easy-to-understand screens. When the PID control execution commands are set to ON, PID control can be executed.

MITSUBISHI ELECTRIC CORPORATION

Please contact your nearest Mitsubishi Electric representative for more information.

L(NA)08875ENG-A 2303(MEE)

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