

Sysmac Library for NJ/NX/NY Controller

SYSMAC-XR005

EtherCAT N-Smart Series Library

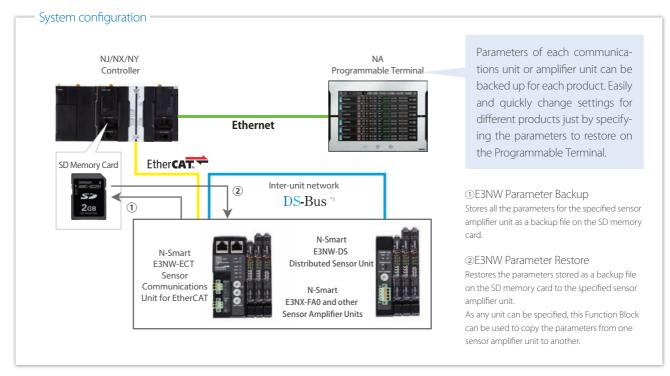


Reduce sensor setting and replacement work at setup, changeover, maintenance, and operation times.				
lssue 1	It takes time to set up many sensors.			
lssue 2	Operation rates are low because it takes time to change sensor settings.			
Issue 3	When a sensor is replaced, time is needed to change settings and setting errors may occur.			

EtherCAT N-Smart Series Library offers solution!

The Parameter Backup Function Block backs up the parameters for each sensor communications unit*1 or sensor amplifier unit*2 individually (upload settings from the unit), and the Parameter Restore Function Block restores them individually (download settings to the unit), without connecting to a PC.

You can easily change settings for sensor communications units and sensor amplifier units.



- *1. The Backup and Restore functions of the NJ/NX CPU Unit and the NY IPC Machine Controller can back up and restore the parameters for all the E3NW-ECT Sensor Communication Units at once. The addition of this library allows you to back up and restore the parameters for each node individually.
- *2. This library can be used to back up and restore parameters for each sensor amplifier unit individually, which is not possible with the Backup and Restore functions of the NJ/NX CPU Unit and the NY IPC Machine Controller.
- *3. The DS-Bus is an Omron inter-unit network communications protocol that connects the E3NW-ECT Sensor Communications Unit and E3NW-DS Distributed Sensor Units.



Downloading settings when replacing a sensor amplifier unit From 1) Manually record parameters to make a procedure manual ① Store parameters on an SD memory card 2 Replace a sensor amplifier unit 2 Replace a sensor amplifier unit 3 Set parameters manually according to the procedure manual 3 Restore the parameters stored on the SD memory card Parameters can be restored by SD Memory Card operating the programmable terminal. No PC, setting software, or complex procedures that may Sysmac Studio 1 cause errors is required. 3 E3NW-ECT Sensor Communications Unit E3NW-ECT Sensor Communications Unit NJ/NX/NY NI/NX/NY E3NX-FA0 and other Sensor Amplifier Units E3NX-FA0 and other Sensor Amplifier Units Controller Controller

Compatible Models

Name	Model	Version
	NX701-□□□□/NJ101-□□□□	Version 1.10 or later
Machine Automation Controller NJ/NX CPU Unit	NJ501-□□□□/NJ301-□□□□	Version 1.01 or later
NATION CLO OTHE	NX1P2-\(\Box\) \(\Omega \) \(\Omega \) \(\Omega \) \(\Omega \)	Version 1.13 or later
Industrial PC Platform NY IPC Machine Controller	NY5□□-1	Version 1.12 or later
Automation Software Sysmac Studio	SYSMAC-SE2	Version 1.14 or higher
Sensor Communications Unit (EtherCAT)		Version 1.03 or later (The E3NX-CA0 is supported for Ver.1.06 or later.)
Distributed Sensor Unit	E3NW-DS	_
Smart Laser Amplifier Unit	E3NC-LA0	_
Smart Laser Amplifier Unit (CMOS type)	E3NC-SA0	_
Smart Fiber Amplifier Unit	E3NX-FA0	_
Color Fiber Amplifier Unit	E3NX-CA0	_
Contact-Type Smart Amplifier Unit	E9NC-TA0	_
SD Memory Card	HMC-SD□□□	_

Function Block (FB) Specifications

Name	FB name	Description
E3NW Parameter Backup	Backup_E3NW	Backs up the parameters for the sensor amplifier unit that is connected to an E3NW-ECT Sensor Communications Unit or E3NW-DS Distributed Sensor Unit and stores them on the SD memory card inserted into the controller.
E3NW Parameter Restore	Restore_E3NW	Restores the backup data on the SD memory card to the sensor amplifier unit that is connected to an E3NW-ECT Sensor Communications Unit or E3NW-DS Distributed Sensor Unit.

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Note: Do not use this document to operate the Unit.

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