

## MICREX-SX Series SPH Notice of SPH300 Functional Expansion

We would like to thank you for your continued patronage of Fuji Programmable Controllers.

Please be informed that Fuji Electric Systems recently expanded the functions of the MICREX-SX Series SPH300 with a firmware upgrade.

### 1. Contents of SPH300 Change

Item	Applicable models	Expanded function
Firmware change	SPH300 CPU Module NP1PS-32R NP1PS-74R NP1PS-117R NP1PS-245R	(1) Improved error display of recognition errors for user ROM cards.

Note:

- (1) This functional expansion is not applicable to the NP1PS-32, NP1PS-74, and NP1PS-117, which do not support a user ROM card. Version numbers, however, were upgraded for these models for firmware version management.
- (2) This functional expansion is not applicable to the NP3PS-SX1SAS, NP3PS-SX1PCS32, NP3PS-SX1PCS74, NP1PS-74D, and NP1PS-117H.

### 2. Precautions for SHP300 Change

- (1) The change has been applied to products manufactured since August 2008.
- (2) Applicable versions  
 The expanded function is supported by firmware version V69 or higher.  
 Hardware versions V2\* or higher support the functional expansion. The version depends on the model as shown below. A version label is attached to each product.
  - NP1PS-32R: V26 69 or higher
  - NP1PS-74R: V26 69 or higher
  - NP1PS-117R: V26 69 or higher
  - NP1PS-245R: V20 69 or higher
  - NP1PS-32: V24 69 or higher
  - NP1PS-74: V23 69 or higher
  - NP1PS-117: V26 69 or higher
- (3) The prices and model numbers remain unchanged.
- (4) The version upgrade of the SX-Programmer Programming Support Tool is required to use the new functional upgrade.
  - Expert (D300win) V3 (NP4H-SEDBV3): V3.4.5.0 (Release scheduled for January 2009)
  - Standard (NP4H-SWN): V2.3.6.0 (Release scheduled for January 2009)

### 3. Functional Expansion

#### (1) Overview

If a user ROM card is installed and malfunctions, is not in FAT format, or is a commercially available ROM card that cannot be recognized, the UROM indicator of the previous CPU lights and the CPU operates as if the user ROM card has not been installed. The new function places the CPU into a nonfatal error state for an easier-to-understand error display.

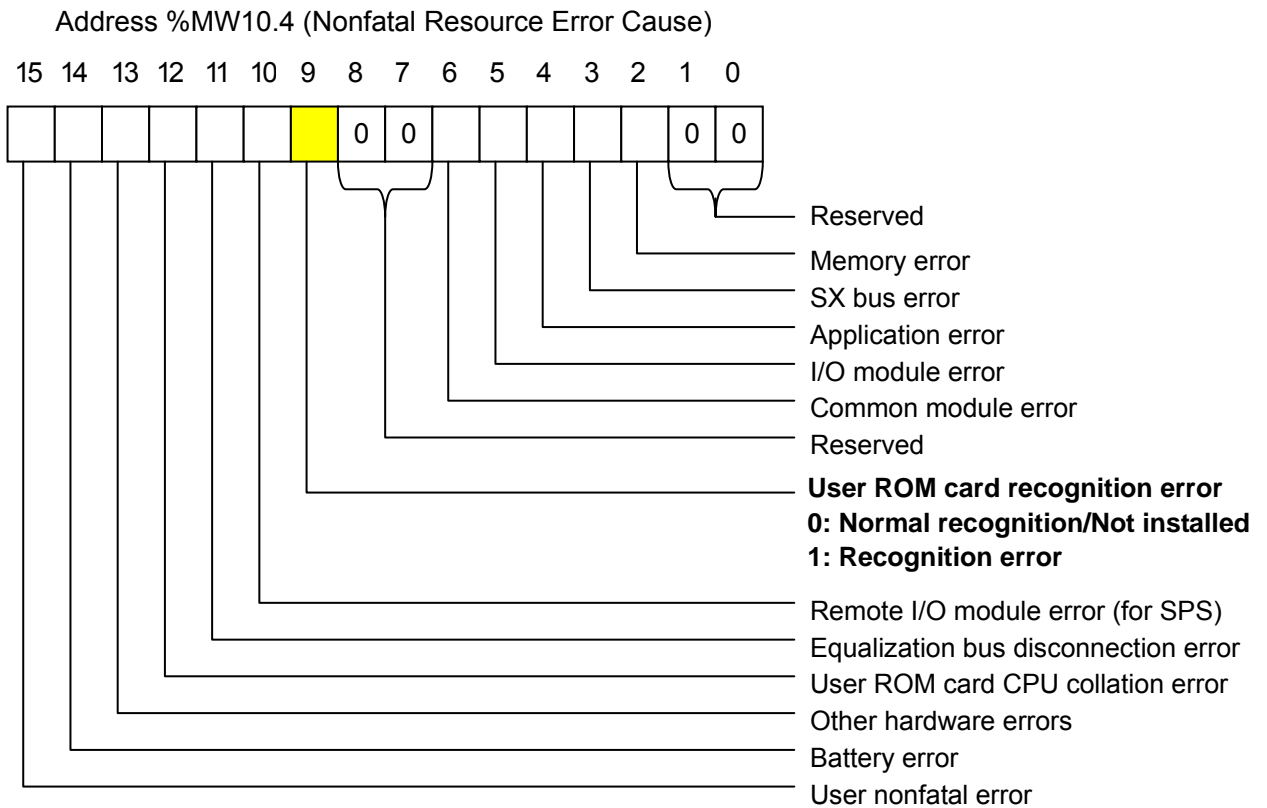
Note: Commercially available compact flash cards recently designed and manufactured include some cards that cannot be recognized by the SPH300. The use of NP8PCF-256 User ROM Cards, which can be recognized by the SPH300, is recommended.

#### (2) System Memory

If the user ROM card cannot be recognized, the newly installed system memory bit (%MX10.4.9) will turn ON and a nonfatal error state will result. The bit turns ON at the following times.

- When the user ROM card cannot be recognized when the key switch is changed to UROM TERM or UROM RUN
- When the user ROM card cannot be recognized when the CPU is reset or rebooted with the key switch set to UROM TERM or UROM RUN

The previous memory bit (%MX10.1.6) will turn OFF (i.e., the installation of the user ROM card will not be recognized) at the same time.



Address	Name	Description
%MX10.4.9	User ROM card recognition error	Turns ON if the installed user ROM card is not recognized.

(3) Relation to Related Flags

Address	Name	Status of user ROM card			
		Not installed	Installed		
			Normal recognition with write protection	Normal recognition with no write protection	Recognition error
%MX10.0.3	Nonfatal error	OFF	OFF	OFF	ON
%MX10.4.9	User ROM card recognition error	OFF	OFF	OFF	ON
%MX10.1.6	User ROM card installed	OFF	ON	ON	OFF
%MX10.1.7	User ROM card write-protected	OFF	ON	OFF	OFF

(4) LED Indicators

A user ROM card recognition error is treated as a nonfatal error.

The LED indicators turn ON or OFF according to the status as shown below.

■/■: Lit □: OFF

		Status of user ROM card		
		Not installed	Installed	
			Normal recognition	Error recognition
Previous version	LED indicators	(Normal operation) <ul style="list-style-type: none"> <li>■ ONL</li> <li>□ ERR</li> <li>□ UROM</li> <li>■ RUN</li> <li>□ ALM</li> <li>□ BAT</li> </ul>	(Normal operation) <ul style="list-style-type: none"> <li>■ ONL</li> <li>□ ERR</li> <li>■ UROM</li> <li>■ RUN</li> <li>□ ALM</li> <li>□ BAT</li> </ul>	(Normal operation) <ul style="list-style-type: none"> <li>■ ONL</li> <li>□ ERR</li> <li>□ UROM</li> <li>■ RUN</li> <li>□ ALM</li> <li>□ BAT</li> </ul>
	%MX10.0.3	OFF	OFF	OFF
	%MX10.4.9	OFF	OFF	OFF
	%MX10.1.6	OFF	ON	OFF
	%MX10.1.7	OFF	ON/OFF *1	OFF
After functional expansion	LED indicators	(Normal operation) <ul style="list-style-type: none"> <li>■ ONL</li> <li>□ ERR</li> <li>□ UROM</li> <li>■ RUN</li> <li>□ ALM</li> <li>□ BAT</li> </ul>	(Normal operation) <ul style="list-style-type: none"> <li>■ ONL</li> <li>□ ERR</li> <li>■ UROM</li> <li>■ RUN</li> <li>□ ALM</li> <li>□ BAT</li> </ul>	(Nonfatal error) <ul style="list-style-type: none"> <li>■ ONL</li> <li>□ ERR</li> <li>□ UROM</li> <li>■ RUN</li> <li>■ ALM</li> <li>□ BAT</li> </ul>
	%MX10.0.3	OFF	OFF	ON
	%MX10.4.9	OFF	OFF	ON
	%MX10.1.6	OFF	ON	OFF
	%MX10.1.7	OFF	ON/OFF *1	OFF

\*1: Write protected.