

September 2007

Fuji Electric FA Components & Systems Co., Ltd.
Control & Drive Systems Division

MICREX-SX Series SPH

Notice of SPH2000 function expansion

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

We would like to inform you that Fuji Electric FA has conducted the function expansion by the firmware upgrade in MICREX-SX Series SPH2000.

1. Main changes in SPH2000

Item	Type targeted	Item of function expansion
Change of firmware	SPH2000 CPU module NP1PM-48R NP1PM-48E NP1PM-256E (NP1PM-256H)	(1) I/O function expansion (256E/256H) (2) Redundant + I/O function expansion (256H) (3) FTP/SNTP client (48E/256E/256H) (4) Double-precision floating decimal point arithmetic instruction (5) CF long file name

Note: NP1PM-256H released in June 2007

2. Precautions with SPH2000' changes

- (1) For the lots manufactured in July 2007 or later, SPH2000 has been compliant.
- (2) Version supported
Firmware version V08 or later will support.
- (3) The prices and type numbers are the same as the current models, remain unchanged.
- (4) To use these functions, upgrading the programming support tool SX-Programmer is required.
 - Expert (D300win) V3 (NP4H-SEDBV3) :V3.4.1.0 or later

3. Overview of function expansion items

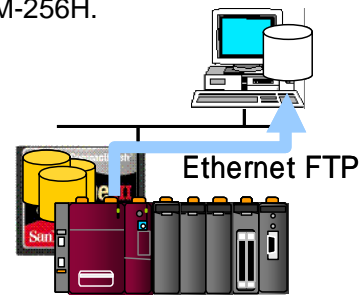
- (1) I/O function expansion
The target types are NP1PM-256E and NP1PM-256H.
This conforms to I/O function expansion (max. 512 words to 4096 words) which has been already compliant in SPH300.
- (2) Redundant + I/O function expansion
The target type is NP1PM-256H.
Although the redundancy function and I/O expansion function were unable to be used simultaneously in SPH300, both functions can be used simultaneously in NP1PM-256H.
The remote master applicable to the functions is a PROFIBUS-DP master module (type NP1L-PD1 version V34 or later).

(3) FTP/SNTP function

The target types are NP1PM-48E, NP1PM-256E, and NP1PM-256H.

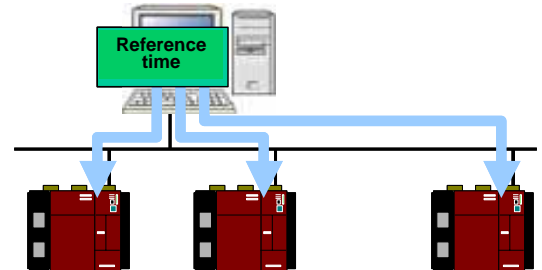
1) FTP client

The FTP client function supports the function that transmits and receives data files stored in a Compact Flash Card to the external FTP server by its FTP communication using built-in Ethernet.



2) SNTP client

The SNTP function supports the clock setting function that synchronizes an external SNTP server using built-in Ethernet.



(4) Double-precision floating decimal point arithmetic instruction

The target types are NP1PM-48R, NP1PM-48E, NP1PM-256E, and NP1PM-256H.

These modules support 31 types of double-precision floating decimal point arithmetic instructions, in addition to the single precision floating decimal point arithmetic instructions which have been supported in SPH300.

(5) CF long file name

The target types are NP1PM-48R, NP1PM-48E, NP1PM-256E, and NP1PM-256H.

These modules supports the file name of long file name (type VFAT), based on 6 types of access instructions for Compact Flash (CF) Card.