

September 2007

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

MICREX-SX Series SPB

Notice of SX mode 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 SPB SX mode.

1. Main changes in SPB

Item	Type targeted	Item of function expansion
System software (Change of firmware)	SPB basic unit NW0P40 -3 NW0P60 -3	(1) Mode of <i>no detection of battery error</i>
	SPB basic unit NW0P40 -3 C NW0P60 -3 C	(2) Validating system memory of calendar information

Note:

- (1) Because the use of NW0P40 -3 C and NW0P60 -3 C requires rather much power consumption and leads to shorter backup time, the expanded function: Mode of ***no detection of battery error*** is out of target.
- (2) Because NW0P40 -3 and NW0P60 -3 are not equipped with calendar function, the expanded function: Validating system memory of calendar information is out of target.
- (3) Because NW0P20 -3 and NW0P30 -3 are not equipped with battery and calendar functions, the expanded function included in this notice is out of target.

2. Precautions with SPB's changes

(1) For the lots manufactured in June 2007 or later, SPB has been compliant.

(2) Delivery method

Because the SPB has been set to N mode at factory shipment, updating system software is required on customer side if change to SX mode is required.

Updating system software can be made using the system software utility, which is supplied with same packing of programming support tool.

(3) To use these functions, upgrading the programming support tool SX-Programmer is required.

- Expert (D300win) V3 (NP4H-SEDBV3) : V3.4.2.0 or later
- Standard (NP4H-SWN) : V2.3.3.0 or later

(4) Version supported

System software version : V03 or later
Hardware version : V20 or later

(5) The prices and type numbers are the same as the current models, remain unchanged.

3. Overview of function expansion items

(1) Mode of **no detection of battery error**

A mode of **no detection of battery error** has been added even if the battery has been disconnected.

(2) Validating system memory of calendar information

The calendar information built in the basic unit has been improved to calculate data per year, month, day, hour, minute, and second automatically and to set the results in the system memory. With this, each data can be obtained directly using various instruction.

Till now, application has to have called built-in calendar information with HW_RTC instruction and operating and disassembling to data per year, month, day, hour, minute, and second required.

Address		Name	Overview	Data value [BCD (word)]	
Expert	Standard			Model with calendar	Model without calendar
%MW10.446	WSM446	Year data	"Year data" of built-in calendar is set. (Last 2 digit of year)	0000 to 0099	0000
%MW10.447	WSM447	Month data	"Month data" of built-in calendar is set.	0001 to 0012	0000
%MW10.448	WSM448	Day data	"Day data" of built-in calendar is set.	0001 to 0031	0000
%MW10.449	WSM449	Hour data	"Hour data" of built-in calendar is set.	0000 to 0023	0000
%MW10.450	WSM450	Minute data	"Minute data" of built-in calendar is set.	0000 to 0059	0000
%MW10.451	WSM451	Second data	"Second data" of built-in calendar is set.	0000 to 0059	0000
%MW10.452	WSM452	Day of the week data	"Day of the week data" of built-in calendar is set.	0000: Sun, 0001: Mon, 0002: Tue, 0003: Wed, 0004: Thu, 0005: Fri, 0006: Sat	0000
%MX10.453.0	SM4530	Calendar write request	Write "year, month, day, hour, minute, and second" in system memory to built-in calendar by turning ON.	0/1	Not used