Fuji Electric
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Utilization of System Device Memory ($s)

**Are you familiar with MONITOUCH's system device memory ($s) feature?
This feature is used to provide status updates and information, as well as control certain operations.
In this issue, we'll explain how to utilize the system device memory feature.**

1. $s167 (Battery Voltage Drop Detection)

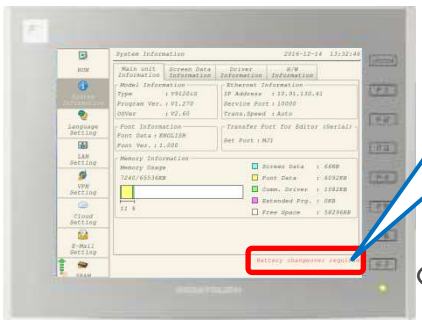
Before You must switch to "Local Mode" before battery status can be checked

RUN mode

No information about battery voltage

Switching to Local mode

Local mode



When the battery becomes weak, the message "Battery changeover required" is displayed at the bottom right of the screen.

<Magnified view>
Normal battery: no message

Weak battery: the warning message appears

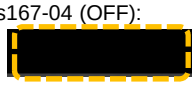
We cannot switch MONITOUCH in operation to local mode...

I wish I could check the battery status in run mode!

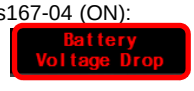
After $s167 Bit 4 allows you to solve the problem!

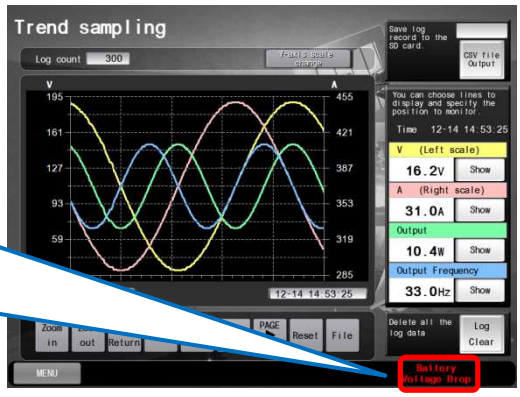
Example) Setting $s167-04 for a lamp
(Texts are displayed when the status of $s167-04 is ON (the battery is weak).)

<An example>
$s167-04 (OFF):



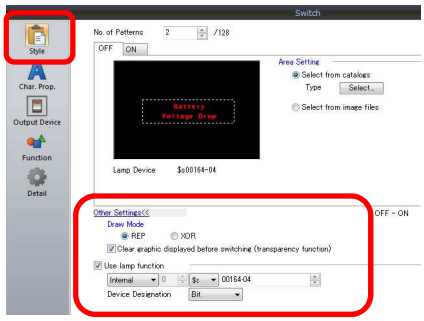
$s167-04 (ON):





<An example of setting the lamp>

(1) Set [Lamp Device], [Draw Mode] and so on in [Style] setting.



(2) Enter "ON" into [Text] in [Char. Prop.] setting.

It is useful to check the battery status in operation!

2. $s160 – 166 (Calendar Data)

Calendar data displayed on MONITOUCH is stored in $s160–166.

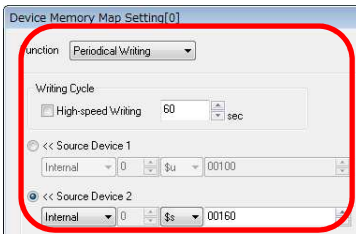
Device memory	Item	Device memory	Item
$s160	Year	$s164	Minute
$s161	Month	$s165	Second
$s162	Day	$s166	Day of the week (0: Sun, 1: Mon... 6: Sat)
$s163	Hour		

Using calendar data of MONITOUCH in transferring to PLC!

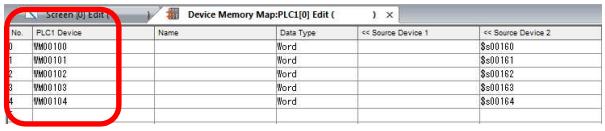
For example, in the case that calendar data is transferred into PLC device WM100 and the following devices every 60 seconds...

Method 1: Device Memory Map

(1) Set reading/writing cycle in [Device Memory Map] setting.



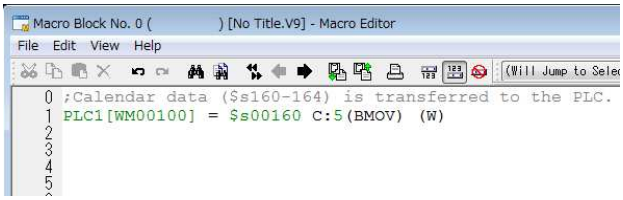
(2) Set the PLC device transferred from MONITOUCH in [Device Memory Map Edit].



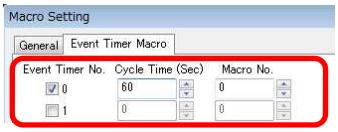
Method 2: Event Timer Macro

(1) Enter Macros in [Macro Block] ([Home] > [Registration] > [Macro Block]).

<Example>

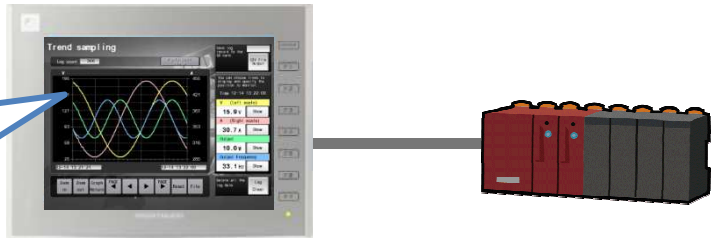


(2) Set the executing cycle and so on in [Event Timer Macro] setting ([System Setting] > [Macro Setting] > [Event Timer Macro]).



The transfer is executed every 60 seconds!

$s160 → WM100	2016	→	2016
$s161 → WM101	2	→	2
$s162 → WM102	8	→	8
$s163 → WM103	13	→	13
$s164 → WM104	13	→	14



You can easily access MONITOUCH calendar data on the PLC!

For the detail of the system device memory ($s), please refer to “1.3 List of Internal Device Memory” in “V9 series Reference Manual 1”.

Hakko Electronics Co., Ltd.
Overseas Sales Dept.
TEL: +81-76-274-2144 FAX: +81-76-274-5136
http://monitouch.fujielectric.com/