Proposal for reduction of cost and man-hour

- **8-way built-in drivers connection between MONITOUCH and external devices**
- **Communication via dedicated built-in drivers to cut programming time**

Before

A communication module is needed on a PLC to connect an external device. You need to code PLC programs to communicate with the controllers.

V9 series

PLC

More external devices mean more comm modules. That means increasing the cost.
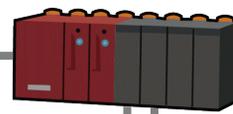
Coding PLC program takes so much works. It is difficult to review the program…

Inverter

Temperature controllers

Use 8-way communication!

After

Just add devices to connect to the V9 and set the communication parameters to establish communication!

V9 series

PLC

CN1
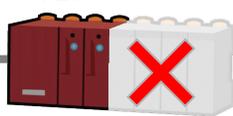
MJ1   MJ2

Inverter

Temperature controllers

Good

Point 1

Comm. module ✕

Direct connection, no comm module needed.
>> **Cost reduction!**

Point 2

No PLC program to communicate needed.
>> **Reduce application build time!**

Point 3

MONITOUCH acts as a gateway **to exchange data among the device!**

Point 4

Multiple brands and models supported!

Please turn over for data exchange function.

Device Memory Map to exchange data between the devices

By simply setting source and destination addresses, the device memory map exchanges data without PLC program.
Because this table runs in background, communication load on the MONITOUCH is reduced and as a result it does not affect screen refresh cycle.
Data can be exchanged cyclically or by a trigger bit (rising edge triggered) from a PLC.

E.g.) PV and SV of Fuji Electric's PXF are transferred to WM100-101 in the PLC every 5 seconds:

1:#PV	40 > 45
1:#SV	50 > 60

Temp. controller

V9 series

PLC

WM100	40 > 45
WM101	50 > 60

Write temperature data to the PLC every 5 seconds

<Example of Device Memory Map settings>

Double-click
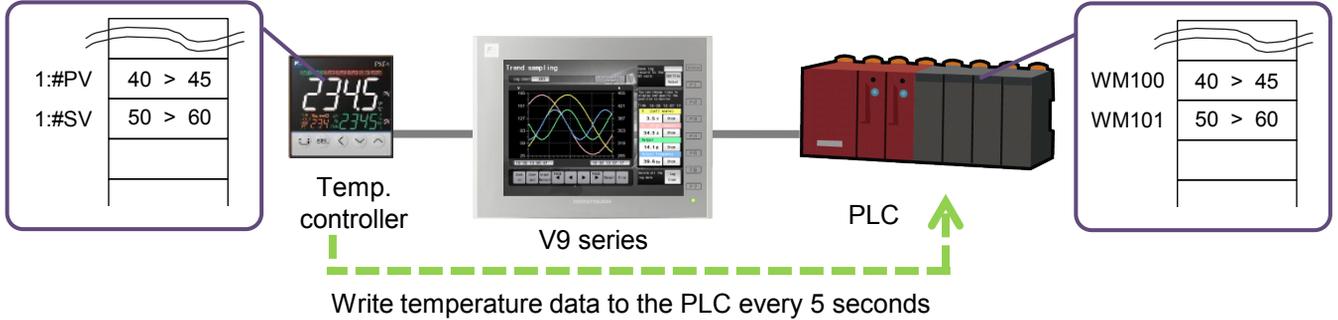
No.	PLC2 Device	Name	Data Type	>> Target Device 1	>> Target Device 2
0	1:#302001	PV (process value)(Engineering unit)	Word	WM00000100	
1	1:#402003	Front SV(Engineering unit)	Word	WM00000101	
2					
3					
4					
5					
6					

Device Memory Map Setting[0]

Function Periodical Reading

Reading Cycle
☐ High-speed Reading 5 sec

☑ >> Target Device 1
PLC1 0 WM 00000100

☐ >> Target Device 2

Settings

(1) System Settings > Hardware Settings

1) Register a device to connect.

2) Match communication parameters to the ones for the device.

(2) System Settings > Device Memory Map