

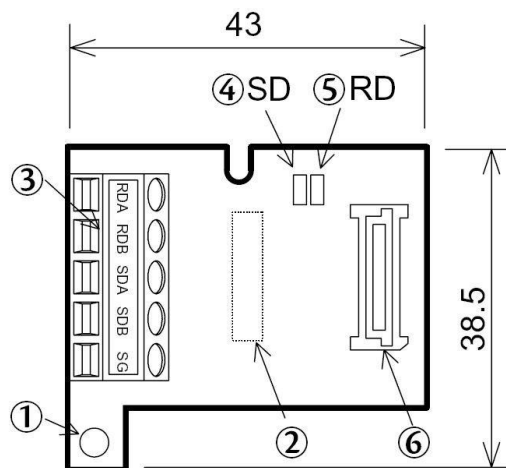
Advantech AE Technical Share Document

Date	2015 / 08 / 12	SR#	
Category	■ FAQ □ SOP	Related OS	
Abstract	How To Steup WebOP and FX485 BD Card		
Keyword	FX3U/ FX2U/ 485BD		
Related Product	WOP-2000 Series/ WOP-3000 Series/ Panel Express		

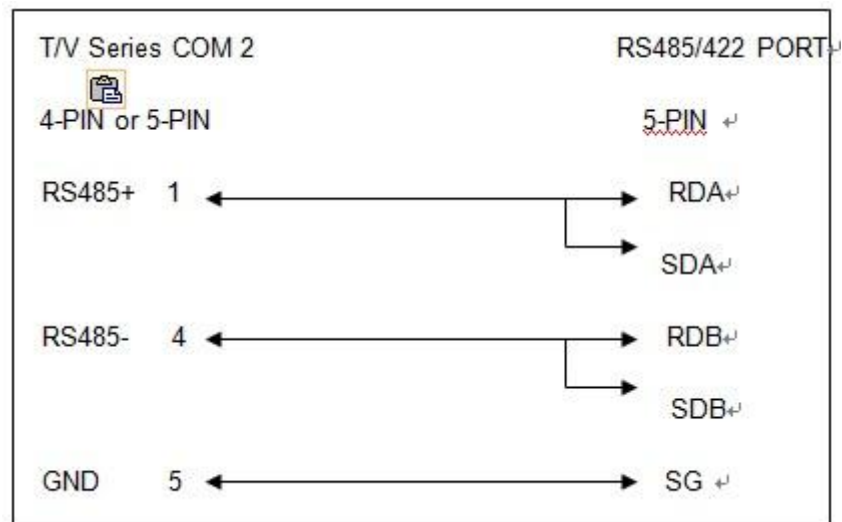
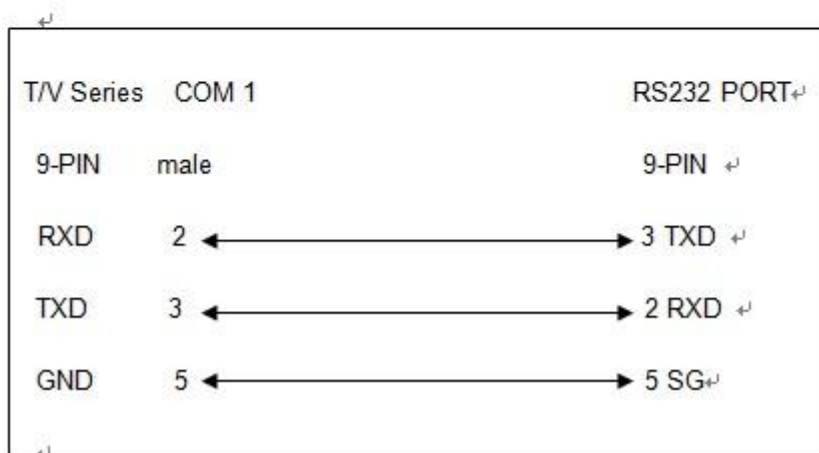
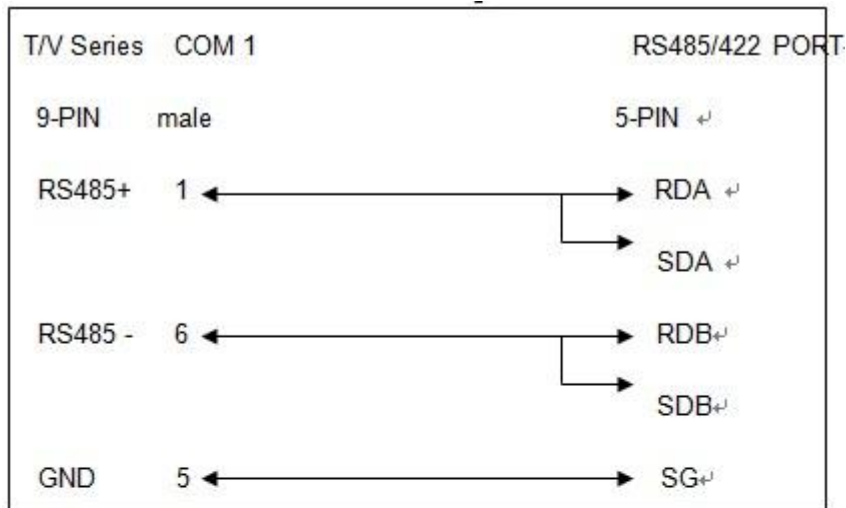
■ Problem Description:

This tech note is to explicate how to connect RS485 communication board of Mitsubishi FX serial PLC with WebOP Designer as well as the related communication parameter settings.

Applied for all WebOP Designer software versions

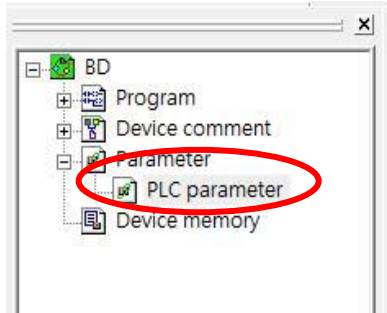

■ Brief Solution - Step by Step:

1) **Cable connection:** Connection diagram

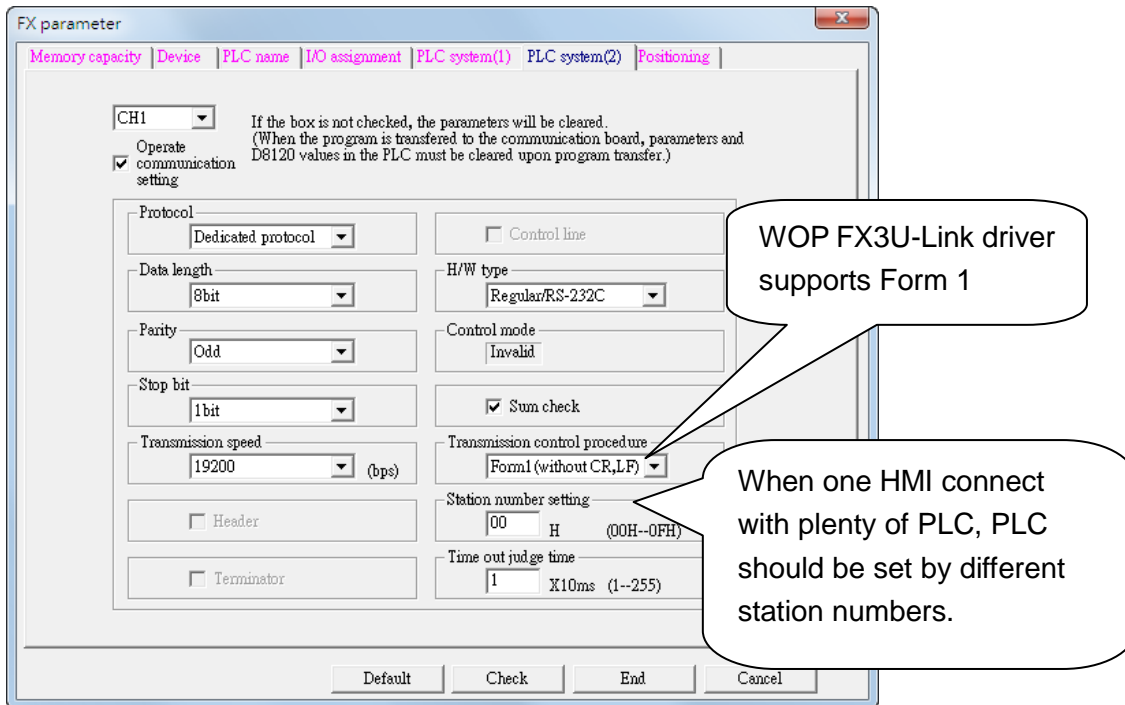


2) PLC Parameter setting:

Go to the Mitsubishi PLC programming screen, select PLC parameter



According to following FX parameter, set PLC communication parameter settings. "Station number setting" is the current PLC station number. Please correctly set the PLC communication parameter in accordance with practical situation. After finishing parameter setting, download this parameter to PLC; the settings will not take effect without re-booting the PLC.

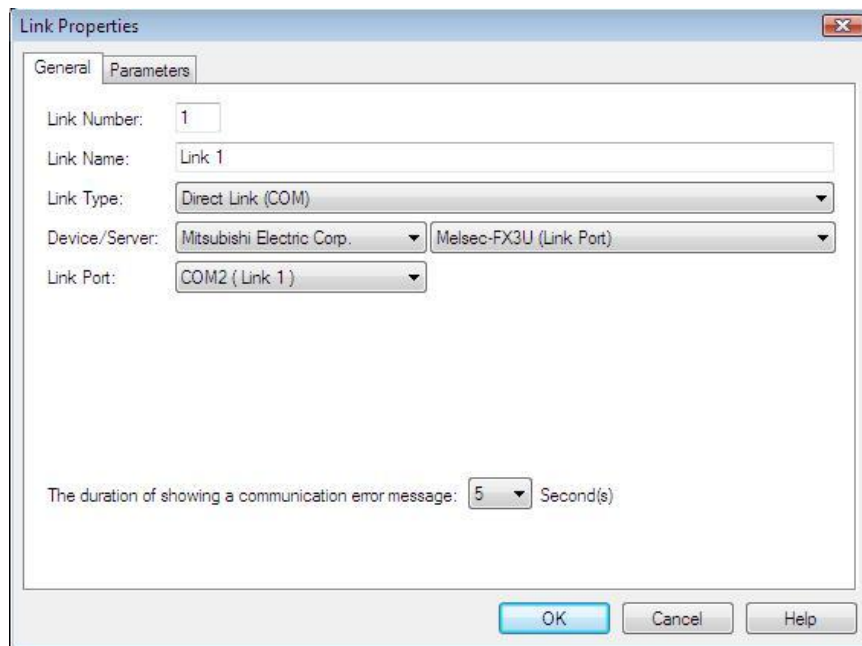


3) PanelMaster link settings

Add a new link



Select **【Device/Server】** → Mitsubishi Electric Corp. → Melse-FX2n (Link Port)
【Device/Server】 → Mitsubishi Electric Corp. → Melse-FX3U (Link Port)

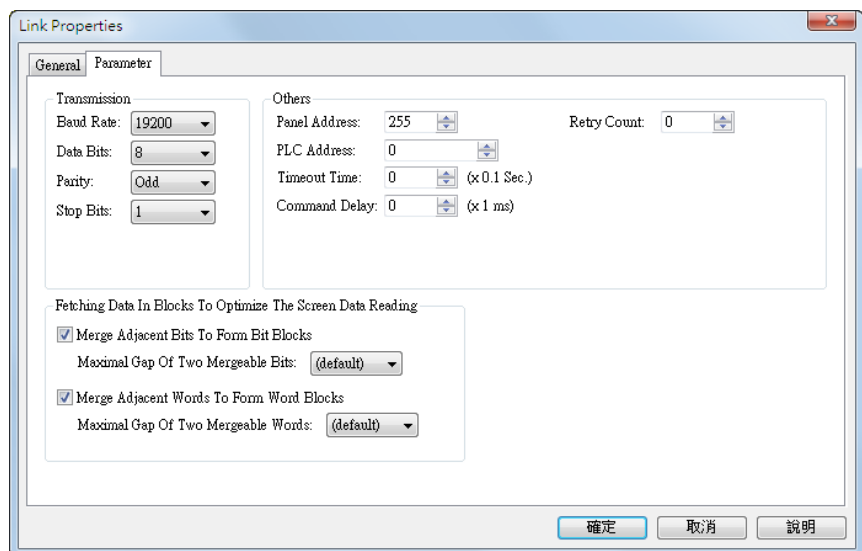


The Link Properties dialog box, General tab, is shown. It contains the following fields and options:

- Link Number: 1
- Link Name: Link 1
- Link Type: Direct Link (COM)
- Device/Server: Mitsubishi Electric Corp. (selected), Melsec-FX3U (Link Port) (selected)
- Link Port: COM2 (Link 1)
- The duration of showing a communication error message: 5 Second(s)

Buttons at the bottom: OK, Cancel, Help.

Set the HMI link port parameter identical with PLC communication parameter



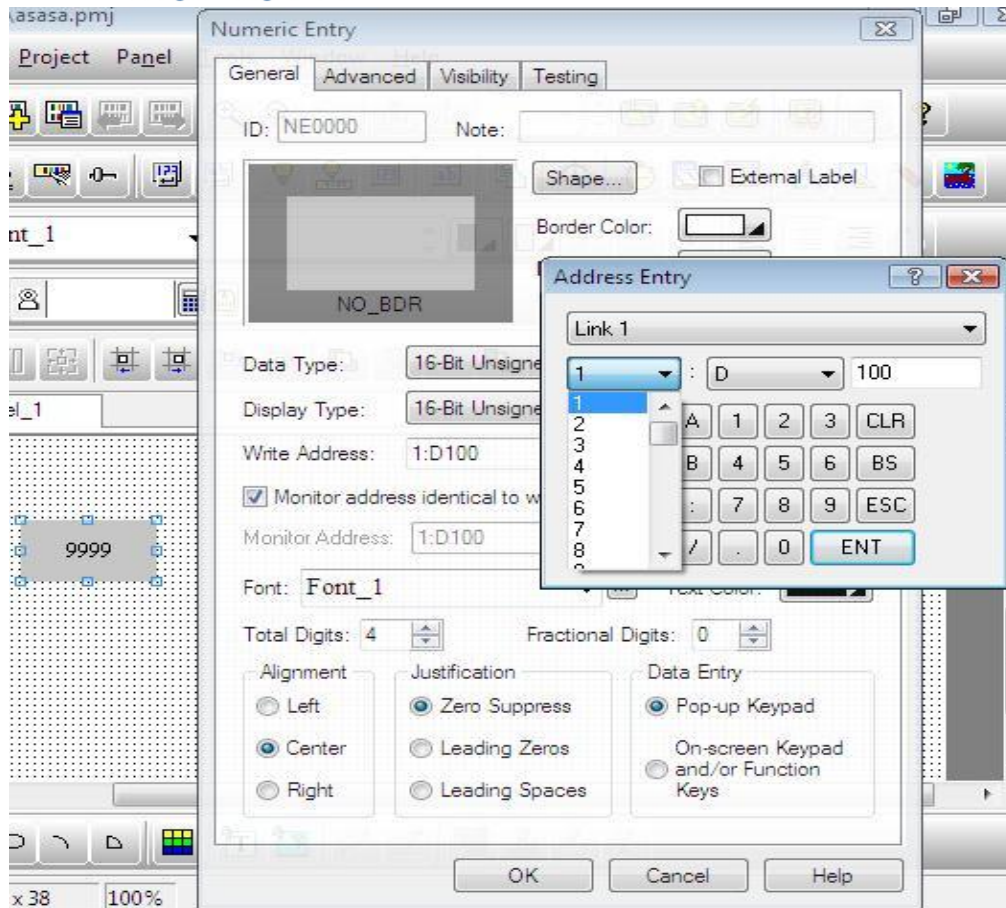
The Link Properties dialog box, Parameter tab, is shown. It contains the following fields and options:

- Transmission:
 - Baud Rate: 19200
 - Data Bits: 8
 - Parity: Odd
 - Stop Bits: 1
- Others:
 - Panel Address: 255
 - PLC Address: 0
 - Timeout Time: 0 (x 0.1 Sec.)
 - Command Delay: 0 (x 1 ms)
 - Retry Count: 0
- Fetching Data In Blocks To Optimize The Screen Data Reading:
 - ☒ Merge Adjacent Bits To Form Bit Blocks
 - Maximal Gap Of Two Mergeable Bits: (default)
 - ☒ Merge Adjacent Words To Form Word Blocks
 - Maximal Gap Of Two Mergeable Words: (default)

Buttons at the bottom: 確定, 取消, 説明.

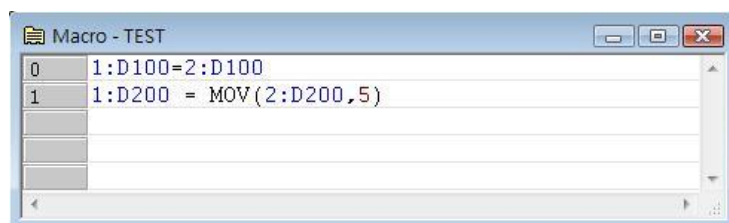
4) Multiple PLC stations communication setting

If PV HMI needs to monitor and to set the D100 of PLC station 1, you can directly enter 1:D100. Similarly, if PLC station number is 2, you enter 2:D100. By means of this setting, PV HMI can monitor and set the same register values with the different stations



5) Description of macro instruction

If you need to perform data exchange, you can use macro instructions to do so.
For example:



The first is to move the D100 of station 2 to the D100 of station 1. The second is to move the D200 、 D201 、 D202 、 D203 、 D204 of station 2 to D200~D204 of station 1. That is to say, you don't have to buy a very expensive gateway module. PV HMI can perform the router function and complete exchanging the data among plenty of PLC.

■ Reference:

N/A