

# PLC Connection Guide

## *TN508D*

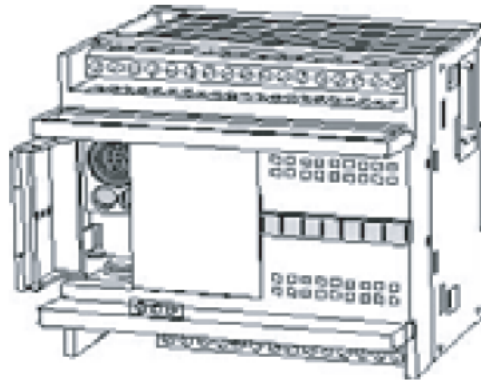
Communication settings between  
IDEC FC4A/FC5A and PanelMaster HMI



Designed to be Outstanding

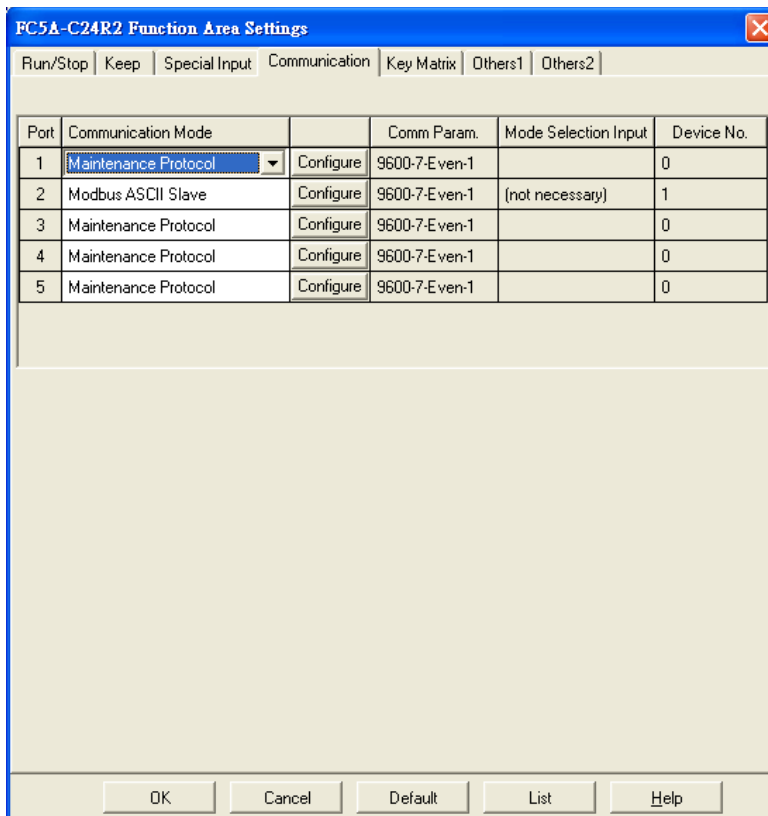
## Preface

This tech note introduces how to connect **IDEC FC4A/FC5A** PLC with PanelMaster HMI.

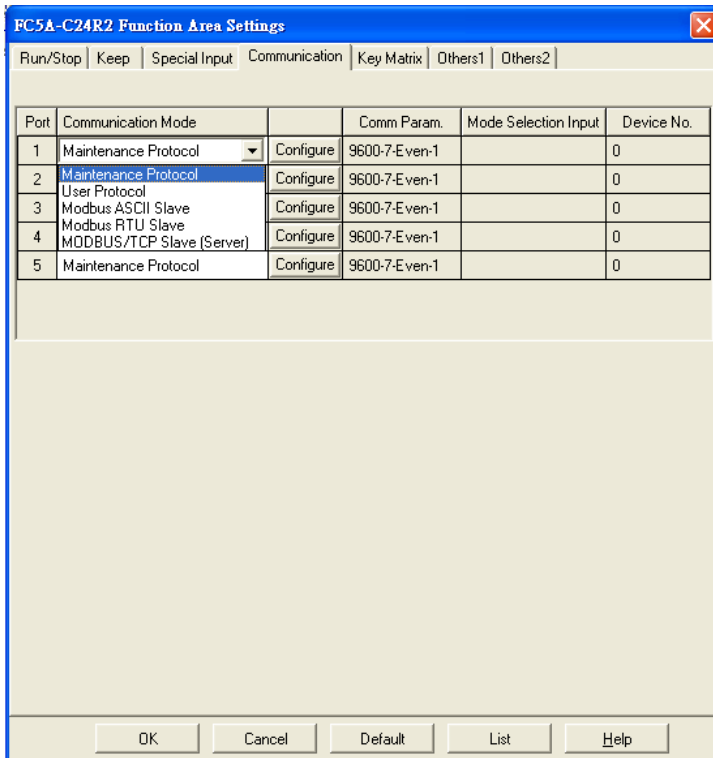


### 1) PLC Parameter setting:

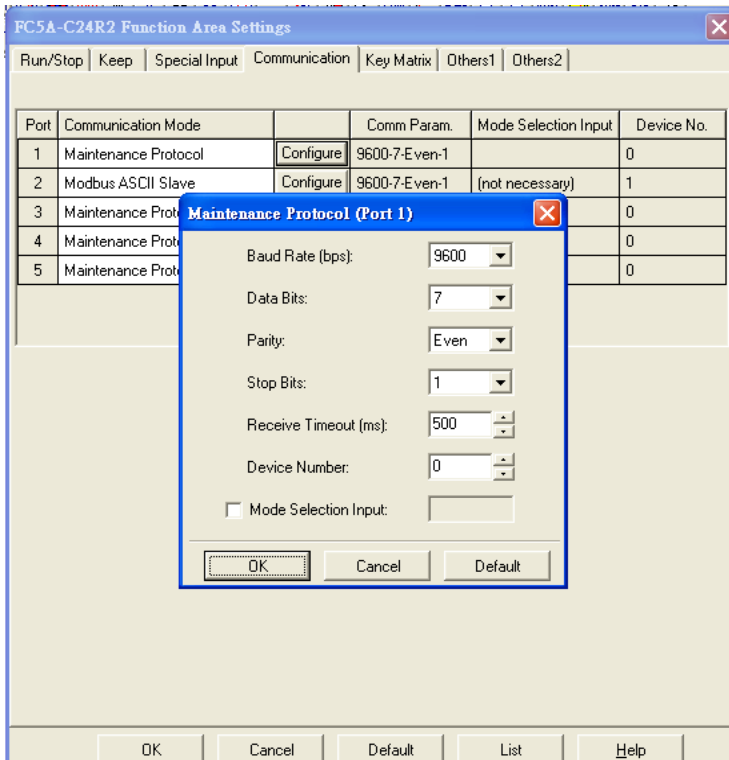
- (a) Use WINDLDR software to link the PLC via RS232 program cable, then click the menu “Configure”  
-> “Function Area Settings...”. There are 5 communication ports that you can define with the PLC model “FC5A-C24R2”.



- (b) Now, please select the protocol as “Maintenance Protocol” and this is the standard communication for the IDEC FA4C/FA5C PLC use.



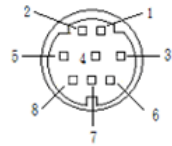
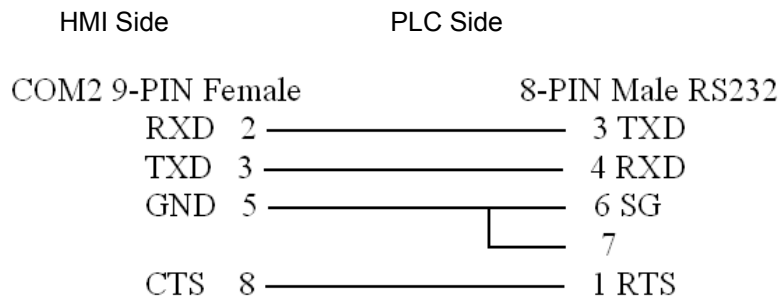
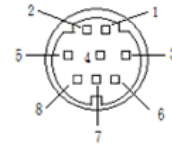
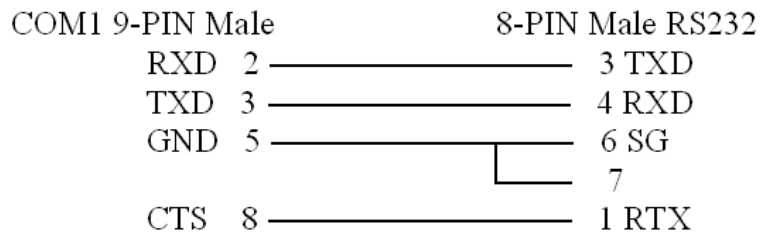
(c) If you wish to change the communication format, press the “Configure” button to set them.



d. Connection Cable diagram

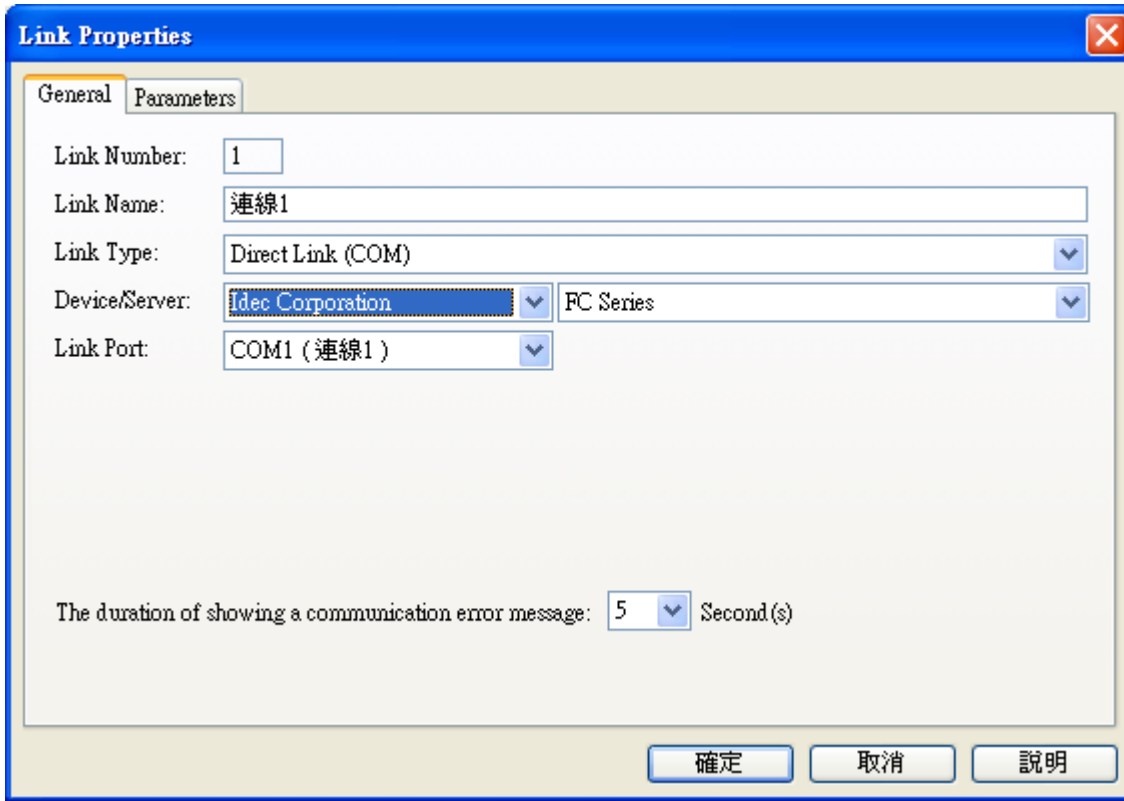
HMI Side

PLC Side



## 2) HMI setting:

Select 【Device/Server : Idec Corporation→ FC Series】



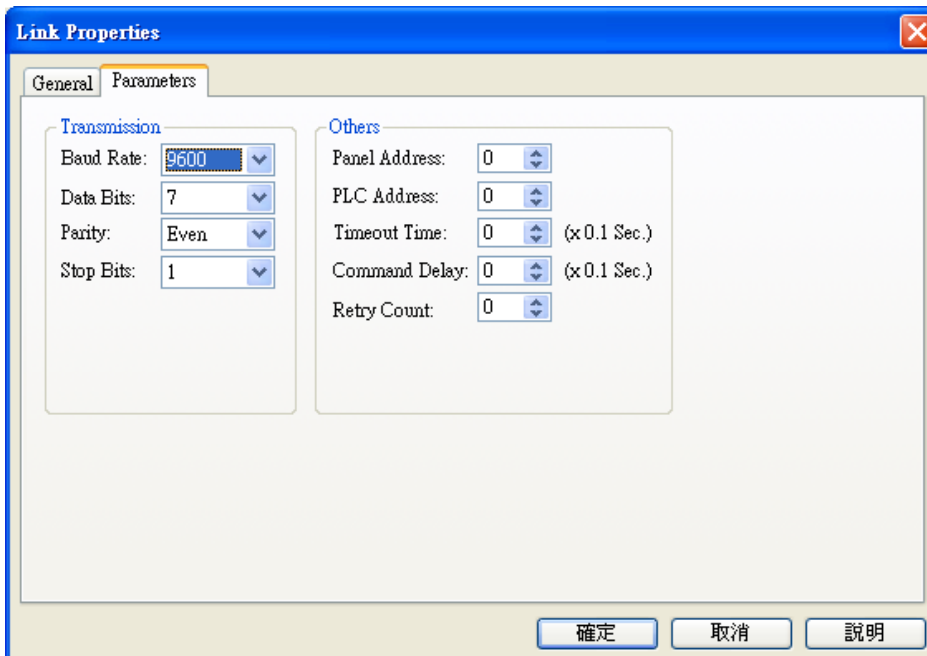
The screenshot shows the 'Link Properties' dialog box with the 'General' tab selected. The fields are as follows:

Link Number:	1
Link Name:	連線1
Link Type:	Direct Link (COM)
Device/Server:	Idec Corporation
FC Series:	FC Series
Link Port:	COM1 (連線1)

The duration of showing a communication error message: 5 Second(s)

Buttons: 確定, 取消, 說明

Set the HMI link port parameter identical with PLC communication parameter



The screenshot shows the 'Link Properties' dialog box with the 'Parameters' tab selected. The fields are as follows:

Transmission		Others	
Baud Rate:	9600	Panel Address:	0
Data Bits:	7	PLC Address:	0
Parity:	Even	Timeout Time:	0 (x 0.1 Sec.)
Stop Bits:	1	Command Delay:	0 (x 0.1 Sec.)
		Retry Count:	0

Buttons: 確定, 取消, 說明

## 3) PLC Memory Address

Bit Devices:

**Bit Device (FC Series)**

Bit Device	Address Range	Block Addr...	Com
Inb	n: 0~62; b: 0~7	b=0	
Qnb	n: 0~62; b: 0~7	b=0	
Mnb	n: 0~255; b: 0~7	b=0	
SMnb	n: 800~831; b: 0~7	b=0	
Rn	n: 0~255	b=0	

Close

Word Devices:

**Word Device (FC Series)**

Word Device	Address Range	Size	Comment
IWn	n: 0~62	Byte	
QWn	n: 0~62	Byte	
MWn	n: 0~255	Byte	
SMWn	n: 800~831	Byte	
RWn	n: 0~255; n=16q	Word	
Tn	n: 0~255	Word	
Cn	n: 0~255	Word	
Dn	n: 0~1999	Word	
EDn	n: 2000~7999	Word	
SDn	n: 8000~8499	Word	
EXDn	n: 10000~49999	Word	

Close