1. PLC Setting

1. Computer and PLC Connection

- 1) Connect to your PC and PLC to the Ethernet.
- Execute GX Works3, create new connection and select series FX5CPU. Model Type: FX5U.

Series	E FX5CPU	-
Туре	FX5U	•
Mode		Ŧ
Program Language	FBD/LD	•

Figure 3.1 New Connection

3) Select Online => Current Connection Destination

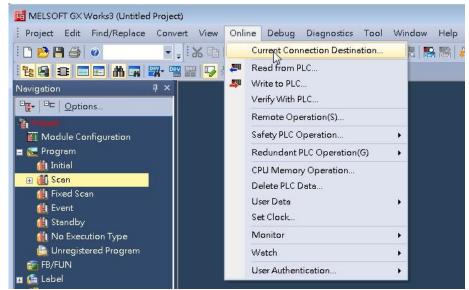


Figure 3.2 Current Connection Destination

Click "Connection Test" Button, test if your PC has connected to PLC. As figure
 3.3. If the connection goes down, please refer to the PLC manual.



	tion Destination Connection	2		X
PC side I/F	Serial Etherne USB Board			
PLC side I/F	PLC GOT			
	IP Address/Host Name	Ethernet Port Direct Connection	PI	LC Mode FX5CPU
Other Station Setting	No Specification	MELSOFT GX Works3	d with the FX5UCPU.	Connection Channel List CPU Module Direct Coupled Setting
Network	Time Out (Sec.) 30		確定	Connection Test PLC Type FX5U
Communication Route	CC IE Field			System Image
				ОК
				Cancel

Connection Test

2. Ethernet Port Connection

1. Configure IP Address.

- Double Click Navigation => Parameter => Module Parameter => Ethernet Port. And the IP Setting Page will show up.
- Set IP Address Subnet Mask and Default Gateway.
- Double Click Detailed Setting and it will show the protocol setting page.



👪 MELSOFT GX Works3 C:\Users\josepl	h.chiu\Documents\03-07.g×3 - [Module Pa	rameter Ethernet Port]		
Project Edit Find/Replace Com	vert View Online Debug Diagnosti	cs Tool Window Help		
i 🗅 🔁 💾 🎒 🕘 👻	. i 🔏 🗈 🖺 🗠 🛥 🖼 🖼 🙀 🗸	• 🔊 🔊 🛤 🛤 🛤 🖗	I 🗳 🚚 🛼 🛼 🛼 🕀 🗨 🗣	- , i 🕫 💷 🥝 🖉 N
	🛛 🎬 🔽 🎊 🏇 🐨 🖕			
Navigation 🛛 📮 🗙	A Module Parameter Ethernet P ×			4 ۵ 🗸
□ <u>[</u> + □□ <u>O</u> ptions	Setting Item List	Setting Item		
h Project	Input the Setting Item to Search	Item	Setting	
Module Configuration		😑 Own Node Settings		
🖬 🗺 Program		IP Address	170 10 0 000	
	E - C Basic Settings	- IP Address 	172.18.2.220 2 255.255.255.0	
🖬 🚰 Device	🗄 🚡 Application Settings	Default Gateway	255.255.0	
🖬 🛃 Parameter		Communication Data Code	Binary	
🔮 System Parameter = 🚱 FX5UCPU		😑 External Device Configuration		
CPU Parameter		External Device Configuratio	m <detailed setting=""> 3</detailed>	
🔳 🛃 Module Parameter 🔤				
Ethernet Port				
485 Serial Por				
🔮 High Speed I/O 🥑 Input Response Tim				
Analog Input		Explanation		
🜮 Analog Output		Set the information of the own node	e such as IP address.	*
🛃 Expansion Board				
Module Information				
Remote Password				-
		Check	D. J. B. D. C. B.C. H.	
	Item List Find Result	CRECK	Restore the Default Settings	
				Apply

Figure 3.4 IP Setting

 Configure Protocol and the Comport: In Module List. Move the SLMP Connection Module from 1 to 2, and enter the Port No.

	1.1		1. E b VC 6	st of real to	1 C 11					
	ernet	et Contri	guration Edit View C	lose with Discarding	g the Settin	g Close with R	Reflecting the Sett			Module List
										Ethernet Selection Find Module M 4
		1				Fixed Buffer	PLC	c	ensor/Devic	1221 12 日本 12 ×
		No.	Model Name	Communication Method	Protocol	Send/Receiv e Setting	IP Address	Port No.	MAC Address	Ethernet Device (General) MELSOFT Connection Module -
			Host Station	7			172.18.2.220		Hadress	SLMP Connection Module -
V	S	1	SLMP Connection Module	SLMP	TCP		172.18.2.220	1025		UDP Connection Module 1 -
	S	2	SLMP Connection Module	SLMP	TCP	-	172.18.2.220	6000		Active Connection Module -
										E Fullpassive Connection Module -
本函 Con 2	. < □	ed Count	TI Connection Connection No.1 No.2 t SLMP SLMP							Fullpassive Connection Module -

Figure 3.5 Module List Setting

3. RS-485 Serial Port Connection

1. Double Click Navigation => FX5UCPU => Module Parameter => 485 Serial Port.

Then the RS-485 setting page will show up. Basic Setting:



- Communication Protocol: Choose **MC Protocol**.
- Sum Check Code: Choose Added.
- Other Setting, Such as Data Length, Parity, Stop Bit, Baud Rate ..., etc. should be identical with Edgelink COM port setting.

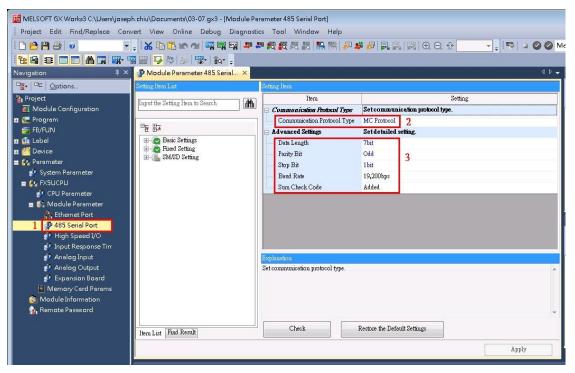


Figure 3.6 RS-485 Basic Setting

- 2. Fixed Setting:
- Set Station Number.
- Message Pattern: Choose Pattern 4.

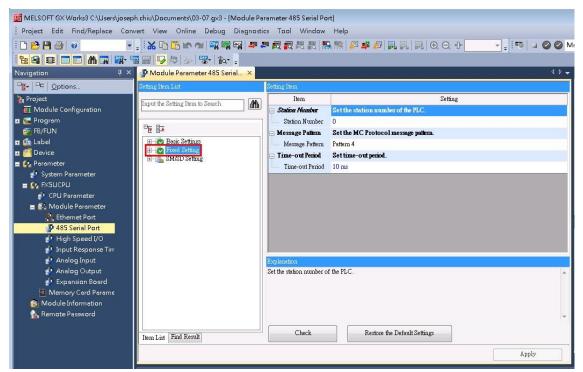




Figure 3.6 RS-485 Fixed Setting

3. Reboot the PLC after the setting is downloaded.

1. Edgelink Setting

2.1 Device Configuration

1) Ethernet

Name:	NewDevice	
Device Type:	Mitsubishi MELSEC-Fx5 Series	PLC (MC
Device Model	Double Click to Select Device	Template
Unit Number:	1	
Tag Write Type:	Single Write	Į
Description:		-
Add device name	as prefix to IO tags	Bulk Copy
Add device name	as prefix to IO tags	Bulk Copy
	as prefix to IO tags	Bulk Copy

- Device type: Select MELSEC-Fx5.
- Unit Number: Anything is OK. It is meaningless in Ethernet.

2) Serial



Name:	NewDevice		
Device Type:	Mitsubishi MELSEC-Fx5 Series PLC (MC	· •	
Device Model	Double Click to Select Device Templat	te ···	
Unit Number:	0		
Tag Write Type:	Single Write	•	
Description:		-	
		+	

- Device type: Select MELSEC-Fx5.
- Unit Number: Station number of PLC.

3.2 Add Tags

Basic			Advanced		
Name:	NewTag		ScalingType:	No	o Scale 🔹
Data Type:	Analog	•	Formula:		
Conversion	Unsigned Intege	r 🔹			
Address:			Scale:	0	
Start Bit:	0	Defects address for	Offset:	0	
Length(bit):	16	Default Address Cor	nguration		Clamp to span low
Span High:	1000	Address Template:	X000	•	Clamp to span high Clamp to zero
Span Low:	0	Address:	X000		
Initial Value:	0.0	Address:	X000		
Scan Rate:	1	ОК	Cancel		
Read Write:	Read/Write		1		
Description:		+			
		~			
			<u>.</u>		OK Close

We have address Template for customer to use. Below is the details.

Paramet er	Туре	Description
CN	Analog	Counter Current
D	Analog	Data Register



Paramet	Туре	Description
er		
R	Analog	File Register
SD	Analog	Special Register
SN	Analog	Retentive Timer Current
SW	Analog	Special Link Register
TN	Analog	Timer Current
W	Analog	Link Register
Z	Analog	Index Register
ZR	Analog	File Register
В	Digital	Link Relay
СС	Digital	Counter Coil
CS	Digital	Counter Contact
DX	Digital	Direct Inout
DY	Digital	Direct Output
F	Digital	Annunciator
L	Digital	Latch Relay
М	Digital	Internal Relay
S	Digital	Step Relay
SB	Digital	Special Link Relay
SC	Digital	Retentive TImer Coil
SM	Digital	Special Relay
SS	Digital	Rententive Timer Contact
тс	Digital	Timer Coil
TS	Digital	Timer Contact
V	Digital	Edge Relay
Х	Digital	Inout Relay
Y	Digital	Output Relay
TEXT	Text	TEXT

