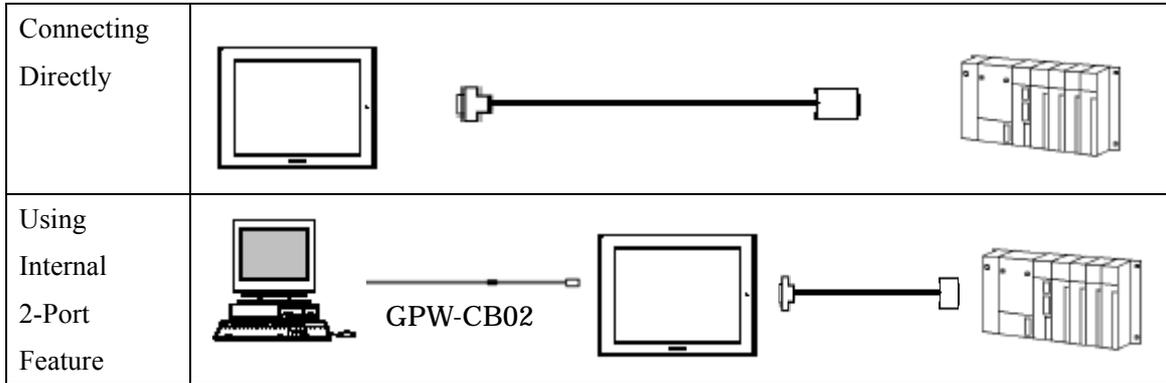


Mitsubishi <13> Mitsubishi Electric Corporation

PLC Q Series (Q Mode) CPU Direct Connection

System Structure



2-Port Adapter cannot be used.

GP

Machine 	Model	Remark
GP	GP70 Series GP77/77R Series GP2000 Series	Excepting for handy types. The internal 2-Port feature is supported by only GP77/77R Series and GP2000 Series.
GLC	GLC2000 Series	2-Port Adapter and the internal 2-Port feature are not supported.

PLC

CPU 	Communication Method	Connection Cable 	GP 
Q02, Q02H, Q06H, Q12H, Q25H	RS-232C	Connection Method	

Procedure to Connect PLC

Select PLC Type on GP-PRO/PB
C -Package.

Refer to

Selecting PLC Type



Set the GP and PLC settings as
the communication setting
sample.

Refer to

**Communication
Setting Sample**



Set GP communication.

There are 2 ways.

- Setting on GP-PRO/PB C-Package and transfer the data
- Setting on the Offline of the GP main unit.

Refer to

**Communication
Settings [GP]**



Set PLC communication.

Refer to

**Communication
Settings [PLC]**



Connect PLC to GP.

Please check the connection method
according to the connection type, or
distance.

Refer to

**Connection Method
& Recommended
Products**

Selecting PLC Type

Start up GP-PRO /PBIII.

Select the following PLC Type when creating the project file.



Communication Setting Sample

GP Setup		PLC Settings
Baud Rate	19200 bps	——
Data Length	8bit (fixed)	——
Stop Bit	1bit (fixed)	——
Parity Bit	Odd (fixed)	——
Data Flow Control	ER Control (fixed)	——
Communication Format	RS-232C (fixed)	——
Unit No.	0 (fixed)	——

NOTE

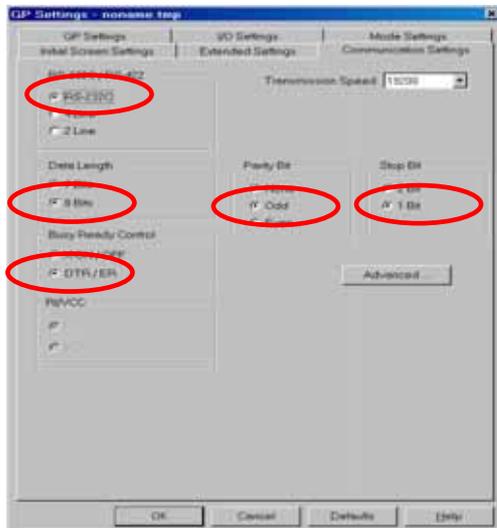
The range of data transmission speed is from 9,600bps to 15,200bps. However, the maximum speed available with GP70 series units (except for GP series) is 38,400bps.

Communication Settings [GP]

1 [GP-PRO/PB C-Package Setting]

Select [GP Setup] on Project Manager.

1) Communication Settings



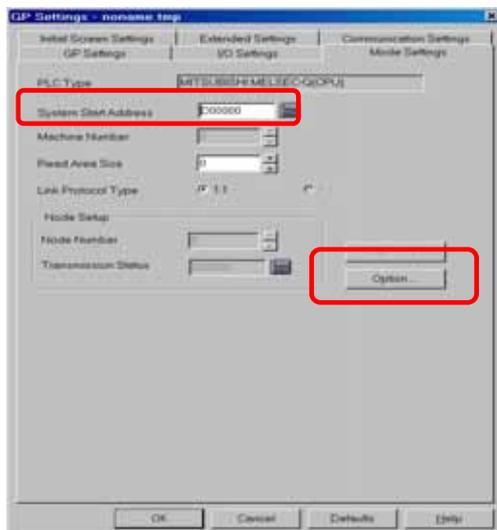
1) Communication Settings

Transmission Speed : 19200bps
Data Length : 8 Bits
Stop Bit: 1 Bit
Parity Bit: Odd
Busy Ready Control : DTR / ER
RS-232C/ RS-422 : RS-232C

NOTE

The range of data transmission speed is from 9,600bps to 15,200bps. However, the maximum speed available with GP70 series units (except for GP series) is 38,400 bps.

2) Mode Settings

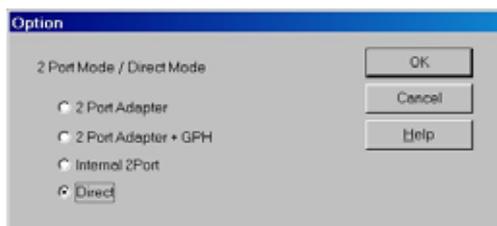


2) Mode Settings

System Start Address: Arbitrary Address

Select [Option...].

3) 2-Port Mode/Direct Mode Settings



3) 2-Port Mode/Direct Mode Settings

Connecting CPU Directly: Direct

Using Internal 2-Port Adapter:

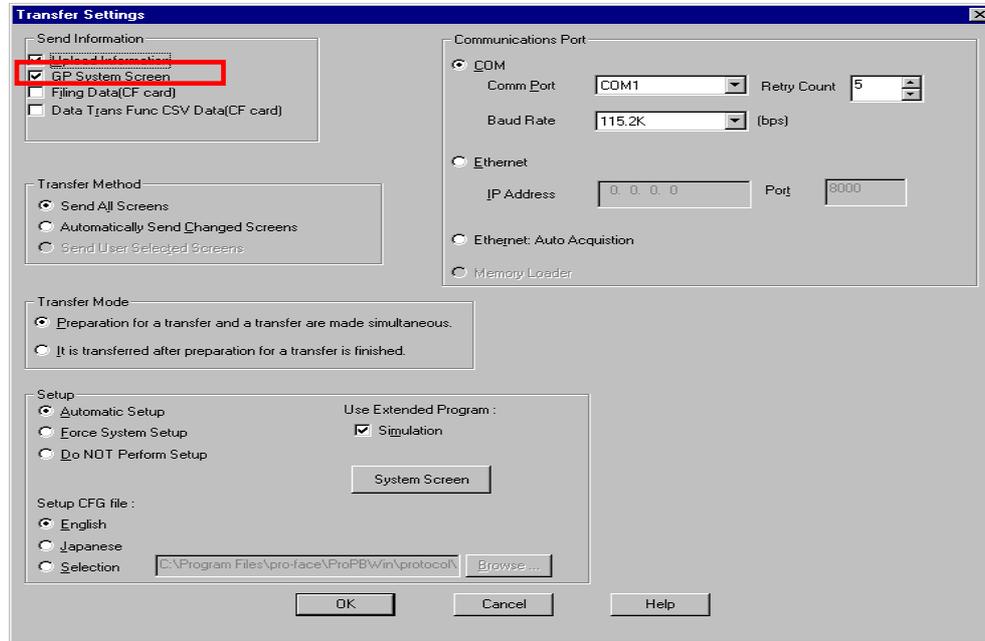
Internal 2-Port



The 2-Port Adapter cannot be used.

Select [Transfer] --> [Setup] --> [Transfer Settings].

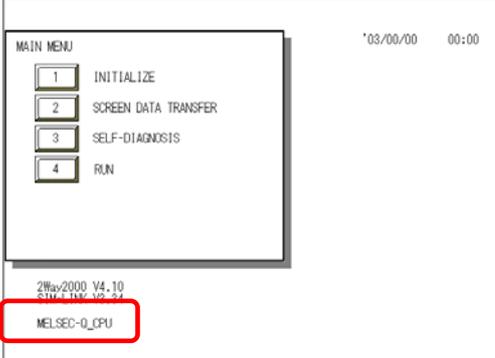
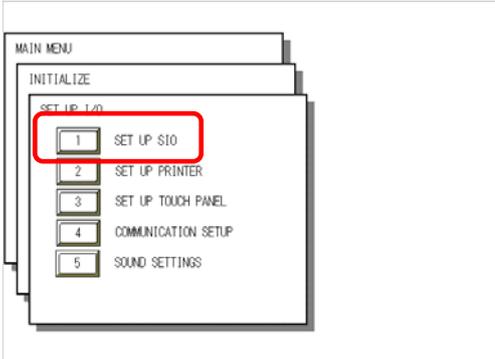
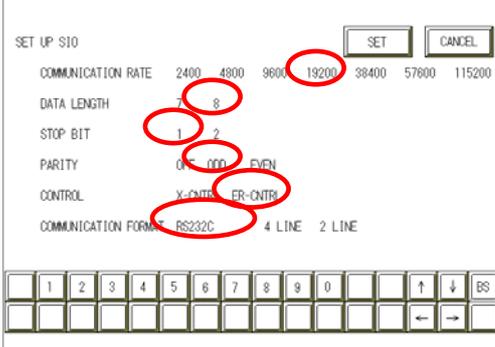
4) Transfer Settings

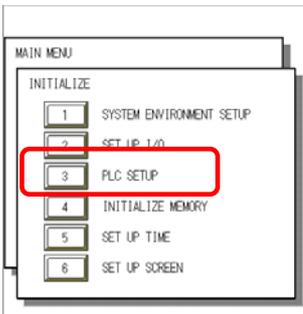
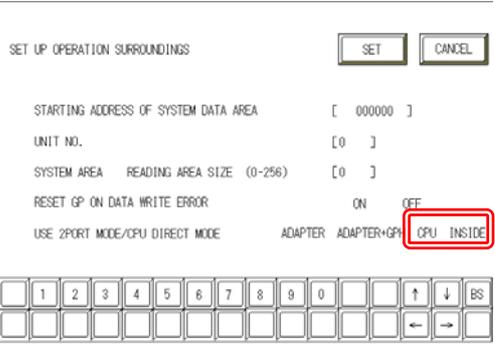


4) Transfer Settings GP System Settings: Checked

Transfer to GP after settings completed.

2 [GP Settings]

<p>1) Checking GP Type</p> 	<p>1) Checking GP Type</p> <p>If you have selected Mitsubishi MELSEC-Q (CPU), the following will be shown.</p> <p>”MELSEC-Q_CPU”</p>
<p>2) Communication Settings</p> 	<p>2) Communication Settings</p> <p>[MAIN MENU] ↓ [INITIALIZE] ↓ [SET UP I/O] ↓ [SET UP SIO]</p>
	<p>Communication Rate: 19200bps Data Length: 8 Bits Stop Bit: 1Bit Parity: Odd Control: ER Cntrl Communication Format: RS-232C</p>

<p><u>3) Setting up Operation Surroundings</u></p> 	<p><u>3) Setting up Operation Surroundings</u></p> <p>[MAIN MENU] ↓ [INITIALIZE] ↓ [PLC SETUP] ↓ [PLC SETUP]</p>
	<p>Starting Address of System Data Area: Arbitrary Address</p> <p>Unit No . : 0</p> <p>Use 2-Port Mode/CPU Direct Mode Connecting CPU Directly: CPU</p> <p>Using Internal 2-Port Adapter: Inside</p> <p>The 2-Port Adapter cannot be used.</p> <p>* Select one in <input type="checkbox"/> .</p>

Communication Settings [PLC]

1 [Using Direct Connection / Internal 2-Port Feature]

There are no items to set on the PLC.



The transmission speed is changed automatically depending on the GP settings.
 (9600bps - 115.2kbps)
 Other settings excepting for the transmission speed are fixed (not changeable).

[Creating a 9-25 pin Conversion Adapter]

Connector/Cover for GP	D-sub 25 pin Plug	XM2A-2501 <OMRON Co.>
	Cover for D-sub 25 pin	XM2S-2511 <OMRON Co.>
	Jack Screw	XM2Z-0071 <OMRON Co.>
Setscrew	Metric Coarse Screw Tread : M2.6 × 0.45	
Diagram	<p>D-sub 25 pin Male D-sub 9 pin Male</p> <p>Lock-screw(mm) Lock nut (inch)</p>	