

OMRON Corporation PLC

SYSMAC C Series (1 to n) Connection

Selecting PLC Type

Start up GP-PRO /PBIII.

Select the following PLC Type when creating the project file.





Communication Setting Sample

GP/GLC Setup		PLC Setup	
Baudrate	9600 bps	Baud Rate	9600 bps
Data Length	7 bits	Data Length	7 bits
Stop Bit	2 bits	Stop Bit	2 bits
Parity Bit	Even	Parity Bit	Even
Data Flow Control	ER Control	-	-
Communication Format	4 Line	2 wire/4 wire [WIRE]	4 Wire
Unit No.	0	Station Number ^{*1}	0
-		Communication Conditions Format Settings	0
-		Serial Communication Mode Settings	Host Link
		Termination Resistance Switch [TERM]	Terminal Station: ON Intermediate

*1 Although No.00 to No.31 can be used for PLC station Number, the maximum number of PLCs that can communicate with the GP on the 1 to n communication basis is eight. Therefore, set up PLC station Numbers within the range of 00 to 07.

Communication Settings [GP]

1 [GP-PRO/PB C-Package Setting] Select [GP Setup] on Project Manager.

1) Communication Settings	1) Communication Settings
CP Statungs - Linna Annual Statungs CP Statungs - Annual Statungs PR0-528C / HS-42 PR0-528C	Transmission Speed: 9600bps Data Length: 7 Bits Stop Bit: 2 Bits Parity Bit: Even Busy Ready Control: DTR / ER RS-232C/ RS-422 RS-422 Connection: 4 Line



2) Mode Settings System Start Address: Arbitrary Address Link Protocol Type: 1:1 Substantiant in the start in the start

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

	Communications Port
GP System Screen	
Filing Data(CF card)	Comm Port COM1 Retry Count 5
Data Trans Func CSV Data(CF card)	Baud Rate 115.2K 💽 (bps)
	C Ethernet
Transfer Method	IP Address 0. 0. 0. 0 Port 8000
Send All Screens	
Automatically Send Changed Screens Send User Selected Screens	C Ethernet: Auto Acquistion
	C Memory Loader
Transfer Mode	
C Force System Setup IV Simu C Do NOT Perform Setup	em Screen

Transfer to GP after settings completed.



2 [GP Settings]

- Displaying Setting Screen -

Touch the top left of the screen within 10 second after powering on.

Or touch the top right and the bottom right of the screen at the same time. Keep 2 points touched and touch the bottom left. The menu bar will display on the bottom of the screen. Then touch [Offline].

1) Checking GP Type	1) Checking GP Type
MAIN MENU *03/00/00 00:00 1 INITIALIZE 2 SCREEN DATA TRANSFER 3 SELF-DIAGNOSIS 4 RUN 2 Ymax/2000 V4.10 Ymax/2000 V4.10 Ymax/2000 V4.10 2 SYSMAC-C 1:n V1.41 Ymax/2000 V4.10 Ymax/2000 V4.10	If you have selected OMRON SYSMAC-C 1:n Comm., following will be shown. "SYSMAC-C 1:n"





3) Setting up Operation Surroundings	3) Setting up Operation Surroundings
MAIN MENU INITIALIZE 1 SYSTEM ENVIRONMENT SETUP 2 SET UP LAD 3 PLC SETUP 4 INITIALIZE MEMORY 5 SET UP TIME 6 SET UP SOREEN	$[MAIN MENU] \downarrow [INITIALIZE] \downarrow [PLC SETUP] ↓ [PLC SETUP]$
SET UP OPERATION SURROUNDINGS SET CANCEL STARTING ADDRESS OF(0-255) DATA AREA [ODMODOD] SYSTEM AREA READING AREA SIZE (0-256) [0] RESET OP ON DATA HRITE ERROR ON OFF	Starting Address of System Data Area: Arbitrary Address
1 2 3 4 5 6 7 8 9 0 ↑ ↓ BS OCM 1DM 2DM 3DM 4DM 5DM 8CM 7DM ← →	



Communication Settings [PLC]

Word Address	Value	Setting Details
DM6650 *1	0001 (HEX)	Depending on the settings of DM6651 Mode Specification: Host Link
DM6651	0304 (HEX)	Baud Rate: 19200bps Data Length: 7 Bits Stop Bit: 2 Bits Parity Bit: Even
DM6653	0000 (HEX)	Host Link Station Number Settings: 0 *2

SYSMAC-CQM1H Series

*1 Leave the serial communication mode setting DM6550(Bit 12 to Bit 15) set to the default setting, 0.

*2 Although No. 00 to 31 can be used for SYSMAC-CQM1H station numbers, the maximum number of PLCs that can communicate with the GP on the 1 to n Communication basis is eight. Therefore, set up PLC station numbers within the rage of 00 to 07.

• Set the 2-wire/4-wire selector switch [WIRE] on the PLC to the "4" position. Set the termination resistance switch to ON in case of a terminal station, or OFF in case of an intermediate station.