

OMRON Corporation PLC

SYSMAC α Series Connection

Selecting PLC Type

Start up GP-PRO /PBIII.

Select the following PLC Type when creating the project file.





Communication Setting Sample

GP Setup		Communicatio	Communication Board Setup	
Baud Rate	19200bps	Baud Rate	19200bps	
Data Length	7 Bits	Data Bit	7 Bits	
Stop Bit	2 Bits	Stop Bit	2 Bits	
Parity Bit	Even	Parity Bit	Even	
Data Flow Control	ER Control			
Communication Format (RS-232C)	RS-232C			
Communication Format (RS-422)	4-Wire Type	RS-422/485 Cable (2-Wire/4-Wire Type) Switching Settings (Dipswitch 1)	4	
Unit No.	0	Station Number	0	

SYSMAC α Series <Communication Board>

SYSMAC α Series <RS-232C Port on CPU Unit>

GP Setup		RS-232	RS-232C Port Setup	
Baud Rate	19200bps	Baud Rate	19200bps	
Data Length	7 Bits	Data Bit	7 Bits	
Stop Bit	2 Bits	Stop Bit	2 Bits	
Parity Bit	Even	Parity Bit	Even	
Data Flow Control	ER Conrtrol	-		
Communication Format	RS-232C	Mode	Host Link	
Unit No.	0	Station Number	0	



Communication Settings [GP]

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

Select [GP Setup] on Project Manager.

1) Communication Settings	1) Communication Settings
CIP Statistings - Kongel prov VO Statings Anode Statings CIP Statisting Extended Statings Conservation Statisting P ESSENT	Transmission Speed: 19200bps Data Length: 7 Bits Stop Bit: 2 Bits Parity Bit: Even Busy Ready Control: DTR / ER RS-232C/ RS-422 RS-232C Connection: RS-232C RS-422 Connection: 4 Line * Select one in .
2) Mode Settings	2) Mode Settings
CDP Stitlings = assessing prov Interface Interfaces Extended Extings CP Settings VD Settings PLC Type Interface Extings Systems Settings Interface Systems Settings Interface Machine Extended Extings Interface Systems Settings Interface Topics Settings Interface Topics Settings Interface State Interface	System Start Address: Arbitrary Address Machine Number: 0 Link Protocol Type: 1:1
OK. Cantal Defaults Einige	



<u> Fransfer Settings</u>			
<u>_</u>			
Transfer Settings	×		
Send Information	Communications Port		
GP System Screen	© COM		
Filing Data[CF card]	Comm Port CDM1 Retry Count 5		
Data Trans Func CSV Data(CF card)	Baud Rate 115.2K 💌 (bps)		
	C) Ethernet		
Transfer Method			
 Send All Screens 	IP Address 0. 0. 0. 0 Port 8000		
Automatically Send <u>Changed Screens</u>			
C Send User Selected Screens	C Ethernet: Auto Acquistion		
	O Memory Loader		
Transfer Mode			
Preparation for a transfer and a transfer are made simul	taneous.		
C It is transferred after preparation for a transfer is finished	d.		
Setup Use Exte	ended Program :		
○ Eorce System Setup	pulation		
C Do NOT Perform Setup			
Syst	tem Screen		
Setup CFG file :			
© English			
Japanese Selection C:\Program Files\pro-face\ProPBWin\	Aprotocol Browse		
	C Zelection For a regimma and race a real manufactorial Dimite		
OK	Cancel Help		
<u>Cransfer Settings</u> GP System Setting	ngs: Checked		

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

Transfer to GP after settings completed.

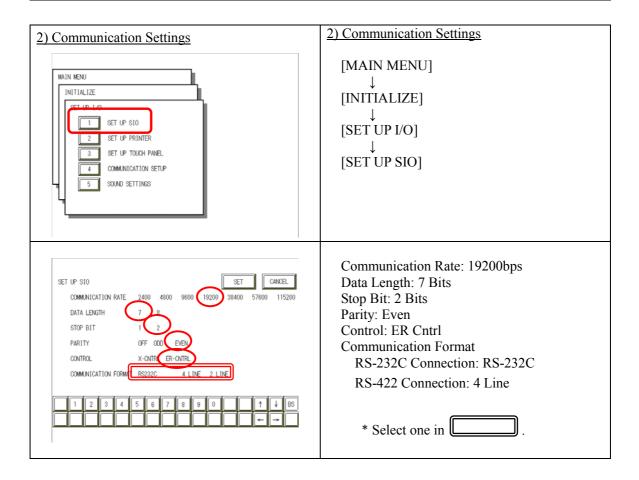


- 2. [GP Settings]
- Displaying Setting Screen -

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].

MAIN MENU 1 INITIALIZE 2 SCREEN DATA TRANSFER 3 SELF-DIAGNOSIS 4 RLN	*03/00/00 00:00	If you have selected OMRON SYSMAC- Series, following will be shown. "SYSMAC-C"
2Wax2000 V4.10 SINATINY V2.22 SYSMAC-C V1.42		





3) Setting up Operation Surroundings	3) Setting up Operation Surroundings
MAIN MENU INITIALIZE 1 SYSTEM ENVIRONMENT SETUP 2 SET UP 1/0 3 PLC SETUP 4 INITIALIZE MEMORY 5 SET UP TIME 8 SET UP SCREEN	$[MAIN MENU] \downarrow [INITIALIZE] \downarrow [PLC SETUP] ↓ [PLC SETUP]$
SET UP OPERATION SURROUNDINGS MENU 1:1 n:1 1 SET UP OPERATION SURROUNDINGS	SET UP OPERATION SURROUNDINGS MENU: 1:1
SET UP OPERATION SURROUNDINGS STARTING ADDRESS OF SYSTEM DATA AREA [000000] UNIT NO. [0] SYSTEM AREA READING AREA SIZE (0-256) [0] RESET GP ON DATA HRITE EPROR ON OFF MONITOR RECORD MODE SET MODE1 MODE2 1 2 3 4 5 6 7 8 9 0 1 4 68 COMPARED ON OFF	Starting Address of System Data Area: Arbitrary Address Unit No.: 0



Communication Settings [PLC]

1. RS-232C Port on CPU Unit

Word Address	Value	Setting Contents
DM6645	0001 (HEX)	Depending on the settings of DM6646 Mode Setup: Host Link
DM6646	0304 (HEX)	Baud Rate: 19200bps Data Length: 7 Bits Stop Bit: 2 Bits Parity Bit: Even
DM6648	0000 (HEX)	Host Link Station No. Settings: Station No. 0

* Please make sure to turn OFF the mode setup switch SW5 on the CPU unit.

2-1 Communication Board C200HW-COM06 (RS-232C Connection)

Word Address	Value	Setting Contents
DM6550	0001 (HEX)	Depending on the settings of DM6551 Mode Setup: Host Link
DM6551	0304 (HEX)	Baud Rate: 19200bps Data Length: 7 Bits Stop Bit: 2 Bits Parity Bit: Even

* Please make sure to turn OFF the mode setup switch SW5 on the CPU unit.

2-2 Connection Board C200HW-COM06 (RS-422 Connection)

[Port A]

[Port B]

Word Address	Value	Setting Contents
DM6555	0001 (HEX)	Depending on the settings of DM6556 Mode Setup: Host Link
DM6556	0304 (HEX)	Baud Rate: 19200bps Data Length: 7 Bits Stop Bit: 2 Bits Parity Bit: Even

* Please make sure to turn OFF the mode setup switch SW5 on the CPU unit.

* Set the dipswitch on the communication board as below.

SW1 : 4

SW2 : ON



3. Host Link Unit C200H-LK201-V1

1) Front Switch Settings	1) Front Switch Settings
$\frac{SW1}{SW2}$ $\frac{\begin{array}{c} & & F \\ & & \\$	0: Station No. Settings (× 10) 0: Station No. Settings (× 1)
SW3	6: Baud Rate Settings (19200bps)
SW4	2: (Parity/Data/Stop Bit Settings) Parity Bit: Even Data Bit: 7 Bits Stop Bit: 2 Bits
2) Back Dipswitch Settings	2) Back Dipswitch Settings
Set the switches to the black.	
ON ← 01 02 03 04	SW1: Unused SW2: Unused SW3 (Relation): 1 to n SW4 (5V Power Supply): No
3) CTS Switch Settings	3) CTS Switch Settings
	ON (Turning CTS ON)



4. Host Link Unit C200H-LK202-V1

1) Front Switch Settings	1) Front Switch Settings
$ \begin{array}{c} \text{SW1} \\ \text{SW2} \\ \text{SW2} \\ \begin{array}{c} & \epsilon \\ & \epsilon \\ & 6 \\ & 8 \\ & 6 \\ & 8 \\ & 6 \\ & 8 \\ & 6 \\ & 8 \\ & 6$	0: Station No. Settings (× 10) 0: Station No. Settings (× 1)
SW3	6: Baud Rate Settings (19200bps)
SW4	2: (Parity/Data/Stop Bit Settings) Parity Bit: Even Data Bit: 7 Bits Stop Bit: 2 Bits
2) Relation Switch Settings	2) Relation Switch Settings
ON ← 01 02 03 04	OFF (1 to n Relation)
3) Termination Resistance Connection Switch Settings	3) Termination Resistance Connection Switch Settings
ON D OFF	ON (With Termination Resistance)