

OMRON Corporation PLC

SYSMAC C Series Connection

Selecting PLC Type

Start up GP-PRO /PBIII.

Select the following PLC Type when creating the project file.





Communication Setting Sample

■ SYSMAC-C Series

GP Set	up	PLC Se	tup
Baud Rate	19200bps	Baud Rate	19200bps
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 (RS-232)	RS-232C	Communication Format *1	RS-232C
Communication Format (RS-422)	4 Line	Communication Format *1	RS-422
	<u> </u>	Command Level *1	Level 1,2,and 3 are valid.
		Relation *1	1 to n
		5V Power Supply *1	No
		CTS Setup *1	Normally ON
		Mode Setup *2	Host Link
Unit No.	0	Station Number	0

*1 This setup is unavailable for the RS-232C port of C200HS.

*2 This setup is available only for the RS-232C port of C200HS.



Communication Settings [GP]

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

Select [GP Setup] on Project Manager.

1) Communication Settings	1) Communication Settings
CIP Stationgs = keepple prov V) Statings Audit Statings Feel Statings Extended Statings Convencention Statings IP R5-2100 Theremounts Space Total Internet Statings IP R5-2100 Packy Dis Statis Dis IP R5-2100 Packy Dis Advance IP R5-2100 Packy Dis Dis IP R5-2100 <	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
CIP Solition() = excloped () Exclored Sectors Solition() Communication Solition() Initial Sectors Solition() Initial Solition() Communication Solition() IPS.C.Type INITIAL COMPACE Distance System Solitic Address Image of the solition of the solitic of the so	System Start Address: Arbitrary Address Machine Number: 0 Link Protocol Type: 1:1
Concent Detector Enter	



Let's Connect to PLC! OMRON SYSMAC C Series (C200H C200HS)

Select [Transfer]> [Setup]> [Transfer Settings].		
3) Transfer Settings		
Transfer Settings Image: Communications Port		
Inload Information © COM © GP System Screen Comm Port Flimg Data(LF card) Comm Port Data Trans Func CSV Data(CF card) Baud Rate		
Transfer Method IP Address 0. 0. 0. 0 Port 3000		
C Automatically Send Changed Screens C Ethernet: Auto Acquisition		
C Memory Loader		
Transfer Mode © Preparation for a transfer and a transfer are made simultaneous. [1 is transferred after preparation for a transfer is finished.		
Setup Use Extended Program : C Automatic Setup Errore System Setup Simulation O Do NOT Perform Setup System Screen System Screen Setup CFG file : System Screen © English C Japanese © Selection C:\Program Files\pro-face\ProPBWin\protocol\		
OK Cancel Help		
3) Transfer Settings GP System Settings: Checked		

Transfer to GP after settings completed.

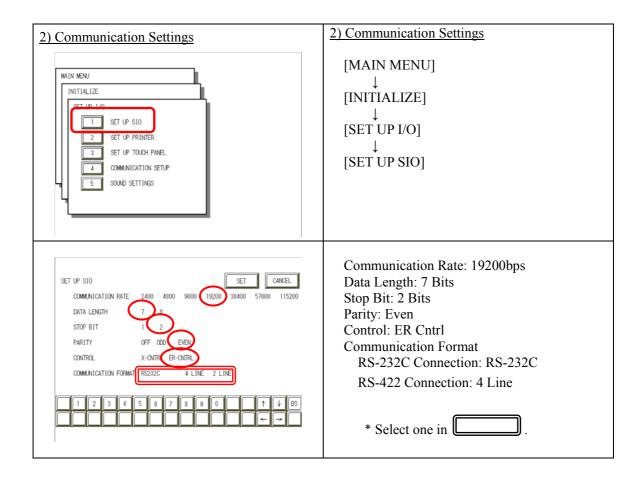


- 2. [GP Settings]
- Displaying Setting Screen -

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 RUN	*03/00/00 00:00	<u>1) Checking GP Type</u> If you have selected OMRON SYSMAC-C Series, following will be shown. "SYSMAC-C"
2002/2000 V4.10 Stu-110/ 02.24 SYSMAC-C V1.42		





2) Setting and One metion Second states	2) Setting and Organizian Summer dia as
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] ↓ [INITIALIZE] ↓ [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 ERROR ON OFF MONITOR RECORD MODE SET MODE1 MODE2 1 2 3 4 5 8 7 8 8 0 1 4 85 1 2 3 4 5 8 7 8 8 0 1 4 85	Starting Address of System Data Area: Arbitrary Address Unit No.: 0



Communication Settings [PLC]

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

1. RS-232C Port on CPU Unit

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



2. Host Link Unit C200H-LK201	
1) Front Switch Settings	1) Front Switch Settings
$ \begin{array}{c} \text{SW1}\\ \text{SW2} \end{array} $	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.	
	SW1: Unused
α	SW2: Unused
ne	SW3 (Relation): 1 to n
03 4	SW4 (5V Power Supply): No
3) CTS Switch Settings	3) CTS Switch Settings
	ON (Turning CTS ON)

2. Host Link Unit C200H-LK201



1) Front Switch Settings 1) Front Switch Settings 0 SW1 0: Station No. Settings (× 10) SW2 0: Station No. Settings (\times 1) 0 SW3 6: Baud Rate Settings (19200bps) 2: (Parity/Data/Stop Bit Settings) SW4 Parity Bit: Even Data Bit: 7 Bits Stop Bit: 2 Bits 2) Relation Switch Settings 2) Relation Switch Settings ON OFF (1 to n Relation) 3) Termination Resistance Connection Switch Settings 3) Termination Resistance Connection Switch Settings ON ON (With Termination Resistance)

3. Host Link Unit C200H-LK202



1) Dipswitch 1 Settings	1) Dipswitch 1 Settings
Set the switches to the black.	
	SW1 – 5 (Station No.): 0
	SW6 – 7: Unused
	SW8 (Run/Stop): Run
2) Dipswitch 2 Settings	2) Dipswitch 2 Settings
<u>Set the switches to the black.</u>	<u></u>
Set the switches to the black.	SW1 4 (David Pata): 10200hmg
	SW1 – 4 (Baud Rate): 19200bps
	SW5: Unused
	SW6 (Relation): 1 to n
1 2 3 4 5 6 7 8	SW7 – 8 (Level Settings):
	Level 1, 2, and 3 are valid.
3) Dipswitch 3 Settings	3) Dipswitch 3 Settings
Set the switches to the black.	
	SW1 – 2 (CTS Signal): Always ON
	SW3 – 6 (Sync): Internal Sync
	SW7 – 8: Unused
1 2 3 4 5 6 7 8	

4. Host Link Unit C120-LK201-V1



- 6) Dipswitch 1 Settings 6) Dipswitch 1 Settings Set the switches to the black. SW1 - 5 (Station No.): 0 ON SW6 – 7: Unused 1 SW8 (Run/Stop): Run 0 3 4 5 2) Dipswitch 2 Settings 2) Dipswitch 2 Settings Set the switches to the black. SW1 - 4 (Baud Rate): 19200bps ON 1 SW5: Unused SW6 (Relation): 1 to n n SW7 – 8 (Level Settings): 3 5 Level 1, 2, and 3 are valid. 3) Dipswitch 3 Settings 3) Dipswitch 3 Settings Set the switches to the black. SW1-6 (Terminal Resistance): On ON 1 SW7 - 8: Unused 0
- 5. Host Link Unit C120-LK202-V1