Computer Link SIO Driver

1	System Configuration	3
2	Selection of External Device	7
3	Example of Communication Setting	8
4	Setup Items	20
5	Cable Diagram	26
6	Supported Device	
7	Device Code and Address Code	47
8	Error Messages	54

PREFACE

This manual describes how to connect the Display and the External Device.

In this manual, the connection procedure will be described by following the sections below:



1 System Configuration

The system configuration in the case when the External Device of TOSHIBA Corporation and the Display are connected is shown.

Driver	CPU		Link I/F	SIO Type	Setting Example	Cable Diagram
	T2E		RS232C port for programming on CPU	RS232C	Setting Example 1 (page 8)	Cable Diagram 1 (page 26)
			CM231E	RS422/485 (4wire)	Setting Example 2 (page 10)	Cable Diagram 4 (page 33)
	T2N		RS232C/RS485 port for communication functions	RS232C	Setting Example 3 (page 12)	Cable Diagram 2 (page 27)
	1210		RS232C/RS485 port for communication functions	RS422/485 (4wire)	Setting Example 4 (page 14)	Cable Diagram 3 (page 28)
	Т3/Т3Н		RS485 port for computer link on CPU	RS422/485 (4wire)	Setting Example 2 (page 10)	Cable Diagram 3 (page 28)
T Series	S2T	PU662T	RS232C port for programming on CPU	RS232C	Setting Example 1 (page 8)	Cable Diagram 1 (page 26)
			Computer link port terminal block on CPU	RS422/485 (4wire)	Setting Example 2 (page 10)	Cable Diagram 4 (page 33)
		PU672T	RS232C port for programming on CPU	RS232C	Setting Example 1 (page 8)	Cable Diagram 1 (page 26)
			Computer link port terminal block on CPU	RS422/485 (4wire)	Setting Example 2 (page 10)	Cable Diagram 4 (page 33)
	S2E	2E PU612E	RS232C port for programming on CPU	RS232C	Setting Example 1 (page 8)	Cable Diagram 1 (page 26)
			Computer link port terminal block on CPU	RS422/485 (4wire)	Setting Example 2 (page 10)	Cable Diagram 4 (page 33)

Driver		CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
V Series	Model 2000	S2PU22A S2PU32A S2PU72A S2PU72D S2PU82	RS485 port for computer link on CPU	RS422/485 (4wire)	Setting Example 5 (page 16)	Cable Diagram 4 (page 33)
	Model 3000	S3PU45A S3PU55A S3PU55B S3PU65A	RS485 port for computer link on CPU	RS422/485 (4wire)	Setting Example 5 (page 16)	Cable Diagram 3 (page 28)
EX Series	EX2000		Computer link connection pin on CPU	RS422/485 (4wire)	Setting Example 6 (page 18)	Cable Diagram 4 (page 33)

Connection Configuration

• 1:1 connection



• 1:n Connection



- Available to connect max 16 units
- Available to connect max 32 units by simultaneous connection of COM1 and COM2

COM Port of IPC

When connecting IPC with External Device, the COM port which can be used changes with series and SIO type. Please refer to the manual of IPC for details.

Usable port

Driver	Usable port			
Diver	RS-232C	RS-422/485(4wire)	RS-422/485(2wire)	
PS-2000B	COM1 ^{*1} , COM2, COM3 ^{*1} , COM4	-	-	
PS-3650A, PS-3651A	COM1 ^{*1}	-	-	
PS-3700A (Pentium®4-M) PS-3710A	COM1 ^{*1} , COM2 ^{*1} , COM3 ^{*2} , COM4	COM3 ^{*2}	COM3 ^{*2}	
PS-3711A	COM1 ^{*1} , COM2 ^{*2}	COM2 ^{*2}	COM2 ^{*2}	

*1 The RI/5V can be switched. Please switch with the change switch of IPC.

*2 It is necessary to set up the SIO type with the Dip switch. Please set up as follows according to SIO type to be used.

Dip switch setting: RS-232C

DIP Switch	Setting Value	Setup Description	
1	OFF	Reserve (always OFF)	
2	OFF	SIO type: PS-232C	
3	OFF	510 type. K5-252C	
4	OFF	Output mode of SD(TXD) data: Always output	
5	OFF	Terminal resistance (220 Ω) insertion to SD(TXD): None	
6	OFF	Terminal resistance (220 Ω) insertion to RD(RXD): None	
7	OFF	Short-circuit of SDA(TXA) and RDA(RXA): Does not Exist	
8	OFF	Short-circuit of SDB(TXB) and RDB(RXB): Does not Exist	
9	OFF	RS(RTS) Auto control mode: Disable	
10	OFF	- KS(K13) Auto control mode. Disable	

Dip switch setting: RS-422/485 (4 wire)

DIP switch	Setting	Description	
1	OFF	Reserve (always OFF)	
2	ON	SIO type: PS 422/485	
3	ON	510 type. K5-422/405	
4	OFF	Output mode of SD(TXD) data: Always output	
5	OFF	Terminal resistance (220 Ω) insertion to SD(TXD): None	
6	OFF	Terminal resistance (220 Ω) insertion to RD(RXD): None	
7	OFF	Short-circuit of SDA(TXA) and RDA(RXA): Does not Exist	
8	OFF	Short-circuit of SDB(TXB) and RDB(RXB): Does not Exist	
9	OFF	- RS(RTS) Auto control mode: Disable	
10	OFF		

Dip switch setting: RS-422/485 (2 wire)

DIP switch	Setting	Description	
1	OFF	Reserve (always OFF)	
2	ON	SIO type: P.S. 422/485	
3	ON	510 type. K5-422/465	
4	OFF	Output mode of SD(TXD) data: Always output	
5	OFF	Terminal resistance (220 Ω) insertion to SD(TXD): None	
6	OFF	Terminal resistance (220 Ω) insertion to RD(RXD): None	
7	ON	Short-circuit of SDA(TXA) and RDA(RXA): Exist	
8	ON	Short-circuit of SDB(TXB) and RDB(RXB): Exist	
9	ON	PS(PTS) Auto control mode: Enable	
10	ON	- KS(K13) Auto control mode. Enable	

2 Selection of External Device

Select the External Device to be connected to the Display.

💰 New Project File		×
G2-2ca	Device/PLC	
	Maker TOSHIBA Corporation	•
	Series Computer Link SID	-
	🔲 Use System Area	Refer to the manual of this Device/PLC
	Connection Method	
	Port COM1 💌	
		<u>Go to Device/PLC Manual</u>
Back	B) Communication Settings Ne	ew Logic New Screen Cancel

Setup Items	Setup Description			
Maker	Select the maker of the External Device to be connected. Select "TOSHIBA Corporation".			
Series	Select a model (series) of the External Device to be connected and connection method. Select "Computer Link SIO". Check the External Device which can be connected in "Computer Link SIO" in system configuration.			
Use System Area	 Check this option when you synchronize the system data area of the Display and the device (memory) of the External Device. When synchronized, you can use the ladder program of the External Device to switch the display or display the window on the Display. Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (only for direct access method)" This can be also set with GP-Pro EX or in off-line mode of the Display. Cf. GP-Pro EX Reference Manual "5.14.6 Setting Guide of [System Setting Window], Setting Guide of [Main Unit Settings], System Area Setting" Cf. Maintenance/Troubleshooting manual "2.14.1 Common to the Display", 			
Port	Select the Display port to be connected to the External Device.			

3 Example of Communication Setting

The following shows examples of communication settings of the Display and the External Device, which is recommended by Digital Electronics Corp.

3.1 Setting Example 1

Settings of GP-Pro EX

Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1					
Summary		Change Device/PLC			
Maker TOSH	IIBA Corporation	Series Computer Link SIO Port COM1			
Text Data Mode	2 <u>Change</u>				
Communication Setting	js				
SIO Type	RS232C	C RS422/485(2wire) O RS422/485(4wire)			
Speed	9600	•			
Data Length	C 7	• 8			
Parity	C NONE	O EVEN O ODD			
Stop Bit	© 1	O 2			
Flow Control	NONE	O ER(DTR/CTS) O XON/XOFF			
Timeout	3 📫 (se	ec)			
Retry	2 📫				
Wait To Send	0 📑 (ms	(3)			
RI / VCC	⊙ BI (C VCC			
In the case of F or VCC (5V Po Isolation Unit, p	RS232C, you can select t wer Supply). If you use th lease select it to VCC.	the 9th pin to RI (Input) the Digital's RS232C Default			
Device-Specific Settings					
Allowable Numbe	r of Devices/PLCs	16 📷			
Number Devic	e Name	Settings			
l i letti		ULL Joenes-Fractics, atom No F			

Device Setting

To display the setting screen, click I ([Setting]) of the External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💰 Individual Device Settings 🛛 🗙					
PLC1					
Series I Series I V Series I EX Series Please reconfirm all of address settings that you are using if you have changed the series.					
Station No.	1	-	Default		
		OK (<u>D)</u>	Cancel		

Settings of External Device

Use the ladder software (T-PDS for Windows) for communication settings. Please refer to the manual of the External Device for more details.

- 1 Start up the ladder software.
- 2 Select [Online/Offline] from the [PLC] menu and move to the online mode.
- **3** Select [I/O assign information]-[General I/O assign information] from the [PLC] menu.
- 4 Click [Auto assign] and register the input module installed in the slot, then click [OK].
- 5 Select [System information] from the [PLC] menu and click [Computer link settings].
- 6 Enter "1" in [Station No.] and click [Connection parameter].
- 7 Set as shown below in the connection type dialog box and click [OK].

Item Name	Settings
Baud Rate	9600
Parity	Odd
Data Length	8
Stop Bit	1

 $\mathbf{8}$ When the write confirmation message appears, click [OK].

The communication settings are completed.

3.2 Setting Example 2

Settings of GP-Pro EX

Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Devi	ce/PLC 1		
Sur	nmary		Change Device/PLC
	Maker TOSHIBA	Corporation	Series Computer Link SIO Port COM1
	Text Data Mode	2 <u>Change</u>	
Cor	nmunication Settings		
	SIO Type	C RS232C	C RS422/485(2wire) C RS422/485(4wire)
	Speed	9600	
	Data Length	C 7	• 8
	Parity	C NONE	○ EVEN
	Stop Bit	@ 1	© 2
	Flow Control	NONE	C ER(DTR/CTS) C XON/XOFF
	Timeout	3 <u>+</u> (s	sec)
	Retry	2 .	
	Wait To Send	0 🕂 (n	ns)
	RI / VCC	© BI	O VCC
	In the case of RS2 or VCC (5V Power Isolation Unit, pleas	32C, you can select Supply). If you use e select it to VCC.	t the 9th pin to RI (Input) the Digital's RS232C Default Default
Dev	vice-Specific Settings		
	Allowable Number of	Devices/PLCs	16 📑
	Number Device Na	ame	Settings
	PLC1		Series=1 Series,Station No.=1

Device Setting

To display the setting screen, click in [[Setting]]) of the External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💰 Individual Device Settings 🛛 🗙						
PLC1						
Series						
Station No. 1 Default						
	[OK (<u>D)</u>	Cancel			

Settings of External Device

Use the ladder software (T-PDS for Windows) for communication settings. Please refer to the manual of the External Device for more details.

- 1 Start up the ladder software.
- 2 Select [Online/Offline] from the [PLC] menu and move to the online mode.
- **3** Select [I/O assign information]-[General I/O assign information] from the [PLC] menu.
- 4 Click [Auto assign] and register the input module installed in the slot, then click [OK].
- 5 Select [System information] from the [PLC] menu and click [Computer link settings].
- 6 Enter "1" in [Station No.] and click [Connection parameter].
- 7 Set as shown below in the connection type dialog box and click [OK].

Item Name	Settings
Baud Rate	9600
Parity	Odd
Data Length	8
Stop Bit	1

 $\mathbf{8}$ When the write confirmation message appears, click [OK].

The communication settings are completed.

3.3 Setting Example 3

Settings of GP-Pro EX

Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device	e/PLC 1		
Sum	nary		Change Device/PLC
	Maker TOSHIBA	Corporation	Series Computer Link SIO Port COM1
	Text Data Mode	2 <u>Change</u>	
Comr	munication Settings		
	SIO Type	• R\$232C	C RS422/485(2wire) C RS422/485(4wire)
	Speed	9600	×
	Data Length	O 7	• 8
	Parity	○ NONE	○ EVEN
	Stop Bit	⊙ 1	0 2
	Flow Control	NONE	C ER(DTR/CTS) C XON/XOFF
	Timeout	3 📫 ()	sec)
	Retry	2 .	
	Wait To Send	0 🔅 (r	ms)
	RI / VCC	• BI	O VCC
	In the case of RS23 or VCC (5V Power 9 Isolation Unit, please	32C, you can selec Supply). If you use e select it to VCC.	t the 9th pin to RI (Input) the Digital's RS232C Default
Devi	ce-Specific Settings		
	Allowable Number of [Devices/PLCs	16 📷
,	Number Device Na	ame	Settings
	👗 1 PLC1		Series=T Series,Station No.=1

Device Setting

To display the setting screen, click in ([Setting]) of the External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💰 Individual Device Settings 🛛 🗙						
PLC1						
Series						
Station No. 1 Default						
	[OK (<u>D)</u>	Cancel			

Settings of External Device

Use the DIP switch on the board and the ladder software (T-PDS for Windows) for communication settings. Please refer to the manual of the External Device for more details.

 DIP Switch (on the board) Settings 	5
--	---

SW	Settings	Setup Description	
01	ON	R\$232C	
02	OFF	K6252C	

Ladder Software Setting

1 Start up the ladder software.

- 2 Select [Online/Offline] from the [PLC] menu and move to the online mode.
- **3** Select [I/O assign information]-[General I/O assign information] from the [PLC] menu.
- 4 Click [Auto assign] and register the input module installed in the slot, then click [OK].
- 5 Select [System information] from the [PLC] menu and click [Computer link settings].
- 6 Enter "1" in [Station No.] and click [Connection parameter].
- 7 Set as shown below in the connection type dialog box and click [OK].

Item Name	Settings
Baud Rate	9600
Parity	Odd
Data Length	8
Stop Bit	1

8 When the write confirmation message appears, click [OK].

The communication settings are completed.

3.4 Setting Example 4

Settings of GP-Pro EX

Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Devid	e/PLC1		
Sum	mary		Change Device/PLC
	Maker TOSHIBA	Corporation	Series Computer Link SIO Port COM1
	Text Data Mode	2 <u>Change</u>	
Com	munication Settings		
	SIO Type	C RS232C	C RS422/485(2wire) © RS422/485(4wire)
	Speed	9600	
	Data Length	C 7	• 8
	Parity	C NONE	C EVEN ODD
	Stop Bit	€ 1	O 2
	Flow Control	NONE	C ER(DTR/CTS) C XON/XOFF
	Timeout	3 📫 (s	sec)
	Retry	2 +	
	Wait To Send	0 📑 (r	ns)
	RI / VCC	© BI	O VCC
	In the case of RS23 or VCC (5V Power Isolation Unit, pleas	32C, you can selec Supply). If you use e select it to VCC.	t the 9th pin to RI (Input) the Digital's RS232C Default
Dev	ice-Specific Settings		
	Allowable Number of I	Devices/PLCs	16 📊
	Number Device Na	ame	Settings
	JPLC1		Series=T Series,Station No.=1

Device Setting

To display the setting screen, click in [[Setting]]) of the External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💰 Individual Device Settings 🛛 🗙						
PLC1						
Series						
Station No. 1 Default						
	[OK (<u>D)</u>	Cancel			

Settings of External Device

Use the DIP switch on the board and the ladder software (T-PDS for Windows) for communication settings. Please refer to the manual of the External Device for more details.

٠	DIP	Switch	(on	the	board)	Settings
---	-----	--------	-----	-----	--------	----------

SW	Settings	Description	
01	OFF	R\$422	
02	OFF	N9722	

Ladder Software Setting

1 Start up the ladder software.

- 2 Select [Online/Offline] from the [PLC] menu and move to the online mode.
- **3** Select [I/O assign information]-[General I/O assign information] from the [PLC] menu.
- 4 Click [Auto assign] and register the input module installed in the slot, then click [OK].
- 5 Select [System information] from the [PLC] menu and click [Computer link settings].
- 6 Enter "1" in [Station No.] and click [Connection parameter].
- 7 Set as shown below in the connection type dialog box and click [OK].

Item Name	Settings
Baud Rate	9600
Parity	Odd
Data Length	8
Stop Bit	1

8 When the write confirmation message appears, click [OK].

The communication settings are completed.

3.5 Setting Example 5

Settings of GP-Pro EX

Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Devid	ce/PLC 1		
Sum	mary		Change Device/PLC
	Maker TOSHIBA	. Corporation	Series Computer Link SIO Port COM1
	Text Data Mode	2 <u>Change</u>	
Com	munication Settings		
	SIO Type	C RS232C	C RS422/485(2wire) C RS422/485(4wire)
	Speed	9600	•
	Data Length	C 7	• 8
	Parity	C NONE	○ EVEN
	Stop Bit	⊙ 1	© 2
	Flow Control	NONE	C ER(DTR/CTS) C XON/XOFF
	Timeout	3 📫 (;	sec)
	Retry	2	
	Wait To Send	0 📑 (ms)
	RI / VCC	© BI	O VCC
	In the case of RS23 or VCC (5V Power Isolation Unit, pleas	32C, you can selec Supply). If you use e select it to VCC.	t the 9th pin to RI (Input) • the Digital's RS232C Default
Dev	ice-Specific Settings		
	Allowable Number of I	Devices/PLCs	16 📷
	Number Device Na	ame	Settings
	👗 1 PLC1		JSeries=V Series,Station No.=1

Device Setting

To display the setting screen, click in ([Setting]) of the External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💰 Individua	l Device Settin	ngs	×
PLC1			
Series Please reconfi if you have ch	C T Series rm all of address se anged the series.	V Series ettings that you are	C EX Series e using
Station No.	1	-	Default
	[OK (<u>D)</u>	Cancel

Settings of External Device

Use the ladder software (V Series engineering tool 3) for communication settings. Please refer to the manual of the External Device for more details.

- 1 Start up the product manager of "V Series engineering tool 3 (for administration)" and specify the user product path.
- 2 Click [Login security setting]. Enter [User name] and [Password], and click [OK].
- **3** Start up the ladder software. Right-click on the "System" folder and select [New].
- 4 Enter [System name] and click [OK]. The system with the entered name is created in the "System" folder.
- 5 Double-click the system name.
- 6 Right-click on the "Station" folder among the three created folders ("Library", "Network", "Station"), and select [New].
- 7 Enter the station name and select the station model name. Then, click [OK].
- 8 Right-click on the "Unit" folder created in the "Station" folder, and select [New].
- 9 Enter "0" in [Unit No] and select your unit base model from [Unit model name].
- 10 Right-click on the "Module" folder under the "Unit" folder, and select [New].
- 11 Enter "0" in [Slot No] and select your module model from [Module model name]. Then, click [OK].
- 12 Right-click on the CPU module and select [Module parameter].
- 13 Set as shown below in the module parameter dialog box and click [Update].

Item Name	Settings
RS485 Station No	1
RS485 Transmission Speed (bit/s)	9600
RS485 Parity Setting	Odd
RS485 Data Length	8 bits
RS485 Stop Bit	1 bit

- 14 Click [Close] and close the module parameter dialog box.
- **15** Configure the transfer setting and collectively download the communication settings you have set in the ladder software to the External Device.

The communication settings are completed.

3.6 Setting Example 6

Settings of GP-Pro EX

Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Devi	ice/PLC 1		
Sur	nmary	Change Device/PL	<u>.c</u>
	Maker TOSHIBA	Corporation Series Computer Link SIO Port COM1	
	Text Data Mode	2 Change	
Cor	mmunication Settings		
	SIO Type	○ RS232C ○ RS422/485(2wire) ④ RS422/485(4wire)	
	Speed	9600 💌	
	Data Length	C 7 C 8	
	Parity	O NONE O EVEN O ODD	
	Stop Bit	© 1 © 2	
	Flow Control	NONE O ER(DTR/CTS) O XON/XOFF	
	Timeout	3 🕂 (sec)	
	Retry	2 📑	
	Wait To Send	0 (ms)	
	RI / VCC	© RI O VCC	
	In the case of RS2 or VCC (5V Power Isolation Unit, pleas	2C, you can select the 9th pin to RI (Input) jupply). If you use the Digital's RS232C s select it to VCC, Default	
De	vice-Specific Settings		
	Allowable Number of)evices/PLCs 16	
	Number Device N	me Settings	
	PLC1	Series=EX Series,Station No.=1	

Device Setting

To display the setting screen, click in [[Setting]]) of the External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

💰 Individua	l Device Sett	ings	×
PLC1			
Series Please reconfi if you have ch	C T Series irm all of address s anged the series.	C V Series settings that you ar	EX Series e using
Station No.	1	*	Default
		OK (<u>0)</u>	Cancel

Settings of External Device

Use the RAM-6624 key switch, rotary switch and ladder software (EX-PDS/SDT) for communication settings. Please refer to the manual of the External Device for more details.

Key Switch Settings

Key Switch	Settings	Description
PROGRAM	OFF	Available for both read/write
DATA	OFF	Available for bour read, write

Rotary Switch Settings

Rotary Switch	Settings	Description
Data protect	0	Without protect

- ◆ Ladder Software Setting
- 1 Start up the ladder software.
- 2 Select [F5 (ENVIRONMENTTAL INFORMATION)] on the menu screen.
- $\mathbf{3}$ Select [F1 (COMMUNICATION TARGET)] on the ENVIRONMENTAL INFORMATION screen.
- 4 In the EDIT mode, use the [Prev]key and [Next]key to display [EX2000] for "1. PC TYPE" at the bottom of the screen, and select [F4 (EX2000 16K)].
- 5 Move the cursor on [COMMUNICATION METHOD] and select [F4 (CLOOP)].
 (When ERR is displayed on the upper left screen, press the [Shift] key + [F1] and select [CLEAR ERRRST] using [F8]. After that, press the [Enter] key and release the ERR display.)
- **6** When you press [F1 SETUP], "CONFIRM>ENT" is displayed on the upper right. Press the [Enter] key.
- 7 If there is no error, "COMPLETE" is displayed. Then, repeatedly press the [Shift]key + [F10] three times to return to the original menu screen.
- ${\bf 8}$ Select [F1 (SYSTEM AND CONTROL INFORMATION)] on the menu screen.
- 9 Select [F1 (SYSTEM INFORMATION)] on the SYSTEM AND CONTROL INFORMATION screen.
- 10 On the SYSTEM INFORMATION screen, select [F1 (EDIT)] first, then [F2 (NEXT)].
- **11** Set as shown below in the COMPUTER LINK setting.

Item Name	Settings
STATION NO.	01
BAUD RATE	9600 (bps)
PARITY	1
DATA LENGTH	8 (bit)
STOP BIT	1 (bit)

- 12 When you select [F1 (PROG)], "CONFIRM>ENT" is displayed. Press the [Enter] key.
- **13** The communication settings are completed.

Press the [Esc] key to display "CONFIRM>ENT". Press the [Enter] key to return to the menu screen.

4 Setup Items

Set communication settings of the Display with GP-Pro Ex or in off-line mode of the Display. The setting of each parameter must be identical to that of the External Device. "3 Example of Communication Setting" (page 8)

4.1 Setup Items in GP-Pro EX

Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC1	
Summary	Change Device/PLC
Maker TOSHIBA Corporation Series Computer Link SIO	Port COM1
Text Data Mode 2 Change	
Communication Settings	
SID Type C RS232C C RS422/485(2wire) © RS422/485(4wire)	
Speed 9600 💌	
Data Length O 7 💿 8	
Parity ONONE O EVEN O ODD	
Stop Bit 💿 1 💿 2	
Flow Control O NONE O ER(DTR/CTS) O XON/XOFF	
Timeout 3 💼 (sec)	
Retry 2	
Wait To Send 0 💉 (ms)	
RI / VCC © RI O VCC	
In the case of RS232C, you can select the 9th pin to RI (Input)	
Isolation Unit, please select it to VCC. Default	
Device-Specific Settings	
Allowable Number of Devices/PLCs 16	
Number Device Name Settings	
JSeries=T Series,Station No.=1	

Setup Items	Setup Description
SIO Type	Select the SIO type to communicate with the External Device.
Speed	Select the communication speed between the External Device and the Display.
Data Length	Select data length.
Parity	Select how to check parity.
Stop Bit	Select stop bit length.
Flow Control	Select the communication control method to prevent overflow of transmission and reception data.
Timeout	Use an integer from 1 to 127 to enter the time (s) for which the Display waits for the response from the External Device.

Continued to next page.

Setup Items	Setup Description
Retry	In case of no response from the External Device, use an integer from "0 to 255" to enter how many times the Display retransmits the command.
Wait To Send	Use an integer from "0 to 255" to enter standby time (ms) for the Display from receiving packets to transmitting next commands.
RI/VCC	You can switch RI/VCC of the 9th pin when you select RS232C for SIO type. When you connect to IPC, you need to use the IPC change switch to change RI/5V. Please refer to the manual of IPC for details.

Device Setting

To display the setting screen, click I ([Setting]) of the External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When connecting multiple External Devices, you can click if from [Device-Specific Settings] of [Device/PLC Settings] to add the External Device which is available to set.

💰 Individua	al Device Set	tings	×
PLC1			
Series Please reconi if you have ch	 T Series firm all of address hanged the series. 	C V Series settings that you ar	C EX Series e using
Station No.	1	<u>×</u>	Default
		OK (<u>D</u>)	Cancel

Setup Items	Setup Description
Series	Select the series of the External Device.
StationNo.	Enter the unit No. of the External Device with "1 to 32".

4.2 Settings in Off-Line Mode

MEMO

• Please refer to the Maintenance/Troubleshooting manual for more information on how to enter off-line mode or about the operation.

Cf. "2.2 Off-line Mode", Maintenance/Troubleshooting manual

Communication Settings

To display the setting screen, touch [Device/PLC Settings] from [Peripheral Equipment Settings] in the off-line mode. Touch the External Device you want to set from the displayed list.

Comm.	Device	Option	-	
		,		
Computer Link S	IO		[COM1]	Page 1/1
	SIO Type Speed Data Length Parity Stop Bit Flow Control Timeout(s) Retry Wait To Send(ms)	RS422/48 9600 7 NONE 1 NONE	5(4wire)) ODD
	Exit		Back	2007/03/09 21:17:33

Setup Items	Setup Description
SIO Type	Select the SIO type to communicate with the External Device. MPORTANT In the communication setting, confirm the serial interface specifications of the Display and set [SIO Type] correctly. If you select the SIO type the serial interface does not support, we cannot guarantee the operation. Please refer to the manual of the Display for more detail on the serial interface specifications.
Speed	Select the communication speed between the External Device and the Display.
Data Length	Select data length.
Parity	Select how to check parity.
Stop Bit	Select stop bit length.

Setup Items	Setup Description
Flow Control	Select the communication control method to prevent overflow of transmission and reception data.
Timeout	Use an integer from 1 to 127 to enter the time (s) for which the Display waits for the response from the External Device.
Retry	In case of no response from the External Device, use an integer from "0 to 255" to enter how many times the Display retransmits the command.
Wait To Send	Use an integer from "0 to 255" to enter standby time (ms) for the Display from receiving packets to transmitting next commands.

Device Setting

To display the setting screen, touch [Device/PLC Settings] from [Peripheral Equipment Settings]. Touch the External Device you want to set from the displayed list, and touch [Device Settings].

Comm.	Device	Option	-	
Computer Link S	IO		[COM1]	Page 1/1
Devic	e/PLC Name 🛛 🛛 🏼 🏾 🏾 PI	.01		
Serie	s T	Series		
Stati	on No.		1 🔻 🔺	
	Exit		Back	2007/03/09 21:17:37

Setup Items	Setup Description
Device/PLC Name	Select the External Device to set. Device name is a title of the External Device set with GP- Pro EX. (Initial value [PLC1])
StationNo.	Enter the station No. of the External Device with "1 to 32".

Option

To display the setting screen, touch [Device/PLC Settings] from [Peripheral Equipment Settings]. Touch the External Device you want to set from the displayed list, and touch [Option].

Comm.	Device	Option	- -	
				-
Computer Link S	IO RI / VCC	• RI	[COM1]	Page 1/1
	In the case the 9th pin Power Suppl RS232C Isol it to VCC.	e of RS232C, you i to RI(Input) or y).If you use th ation Unit, plea	can select • VCC(5V e Digital's se select	
	Exit		Back	2007/03/09 21:17:44

Setup Items	Setup Description
RI/VCC	You can switch RI/VCC of the 9th pin when you select RS232C for SIO type. When you connect to IPC, you need to use the IPC change switch to change RI/5V. Please refer to the manual of IPC for details.

The cable diagram shown below may be different from the cable diagram recommended by TOSHIBA Corporation. Please be assured there is no operational problem in applying the cable diagram shown in this manual.

- The FG pin of the main body of the External Device must be D-class grounded. Please refer to the manual of the External Device for more details.
- SG and FG are connected inside the Display. When connecting SG to the External Device, design the system not to form short-circuit loop.
- If the communication is not stable due to the noise or other factors, connect the isolation unit.

Cable Diagram 1

Display (Connection Port)	Cable	Remarks
GP (COM1) IPC ^{*1}	Your own cable	Cable length: 15m or less



Your own cable

Display (Connection Port)	Cable	Remarks
GP (COM1) IPC ^{*1}	Your own cable	Cable length: 15m or less

> External Device D-Sub 9 pin (socket) D-Sub 15 pin (socket) Shield Pin Signal name Pin Signal name 5 TXD RD(RXD) 2 12 3 SD(TXD) RXD Display 7 SG 5 SG 7 14 CTS RS(RTS) 8 CS(CTS) 6 RTS 4 ER(DTR) FG 6 DR(DSR)

Your own cable

Display (Connection Port)		Cable	Remarks
GP ^{*1} (COM1) AGP-3302B(COM2) IPC ^{*2}	А	COM port conversion adapter by Digital Electronics Corp. CA3-ADPCOM-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable	
	В	Your own cable	
GP*3 (COM2)	С	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable	Cable length: 1,000m or less
	D	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Your own cable	1

*1 All GP models except AGP-3302B

*3 All GP models except GP-3200 Series and AGP-3302B

- A.When using the COM port conversion adapter (CA3-ADPCOM-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection



• When IPC is used as the Display, the terminal resistance of 220Ω can be inserted by the fact that the dip switch 5, 6 of IPC is turned to ON.

B.When your own cable is used

1:1 Connection



Your own cable

1:n Connection



that the dip switch 5, 6 of IPC is turned to ON.

- C.When using the online adapter (CA4-ADPONL-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection



1:n Connection



D.When using the online adapter (CA4-ADPONL-01) by Digital Electronics Corp. and your own cable

• 1:1 Connection



Display (Connection Port)		Cable	Remarks
GP ^{*1} (COM1) AGP-3302B(COM2)	А	COM port conversion adapter by Digital Electronics Corp. CA3-ADPCOM-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable	
IPC ⁺²	В	Your own cable	
	С	COM port conversion adapter by Digital Electronics Corp. CA3-ADPCOM-01 + RS422 cable by Digital Electronics Corp. CA3-CBL422-01	
	D	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Connector terminal block conversion adapter by Digital Electronics Corp. CA3-ADPTRM-01 + Your own cable	Cable length: 1,000m or less
GP ^{*3} (COM2)	Е	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + Your own cable	
	F	Online adapter by Digital Electronics Corp. CA4-ADPONL-01 + RS422 cable by Digital Electronics Corp. CA3-CBL422-01	

*1 All GP models except AGP-3302B

*3 All GP models except GP-3200 Series and AGP-3302B

- A.When using the COM port conversion adapter (CA3-ADPCOM-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Digital Electronics Corp. and your own cable
- 1:1 Connection



1:n Connection



МЕМО

When IPC is used as the Display, the terminal resistance of 220Ω can be inserted by the fact that the dip switch 5, 6 of IPC is turned to ON.

B.When your own cable is used

• 1:1 Connection

٠



• 1:n Connection



• When IPC is used as the Display, the terminal resistance of 220Ω can be inserted by the fact that the dip switch 5, 6 of IPC is turned to ON.

C.When using the COM port conversion adapter (CA3-ADPCOM-01) and the RS422 cable (CA3-CBL422-01) by Digital Electronics Corp.



D.When using the online adapter (CA4-ADPONL-01), the connector terminal block conversion adapter (CA3-ADPTRM-01) by Digital Electronics Corp. and your own cable

• 1:1 Connection



• 1:n Connection



E.When your own cable is used

• 1:1 Connection



Your own cable

• 1:n Connection



F.When using the online adapter (CA4-ADPONL-01) and the RS422 cable (CA3-CBL422-01) by Digital Electronics Corp.



• Available only in the EX Series due to the different connector type.

6 Supported Device

Range of supported device address is shown in the table below. Available type and range of device vary depending on CPU. Be sure to check them in each CPU manual before using.

Γ

6.1 T Series

T2E

: This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Input	X00000-X0063F	XW0000-XW0063		
Output	Y00000-Y0063F	YW0000-YW0063		
Auxiliary Relay	R00000-R0127F	RW0000-RW0127		
Special Relay	S00000-S0255F	SW0000-SW0255		
Timer Register	-	T0000-T0255		
Timer Device	Т.0000-Т.0255	-	[L / H]	*1
Counter Register	-	C0000-C0255		
Counter Device	C.0000-C.0255	-		*1
Link Relay	L00000-L0255F	LW0000-LW0255		
Link Register Relay	Z00000-Z0511F	-		
Data Register	-	D00000-D04095		Bit F
Link Register	-	W00000-W01023	4	Bit F
File Register	-	F00000-F01023		_{віt} F

*1 Write disable

MEMO

• Please refer to the GP-Pro EX Reference Manual for system data area.

- Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (only for direct access method)"
- Please refer to the precautions on manual notation for icons in the table.

☐ :This address can be specified as system data area.

T2N

Device	Bit Address	Word Address	32 bits	Remarks
Input	X00000-X0127F	XW0000-XW0127		
Output	Y00000-Y0127F	YW0000-YW0127		
Auxiliary Relay	R00000-R0255F	RW0000-RW0255		
Special Relay	S00000-S0255F	SW0000-SW0255		
Link Relay	L00000-L0255F	LW0000-LW0255		
Timer Register	-	T0000-T0511	[L/H]	
Timer Device	Т.0000-Т.0511	-		*1
Counter Register	-	C0000-C0511		
Counter Device	C.0000-C.0511	-		*1
Link Register Relay	Z00000-Z0999F	-		
Data Register	-	D00000-D08191		вit
Link Register	-	W00000-W02047	4	вit F
File Register	-	F00000-F01023		Bit F

E

*1 Write disable

MEMO

• Please refer to the GP-Pro EX Reference Manual for system data area.

Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (only for direct access method)"

• Please refer to the precautions on manual notation for icons in the table.

 \Box : This address can be specified as system data area.

■ T3

32 Device Bit Address Word Address Remarks bits X00000-X0255F XW0000-XW0255 Input Output Y00000-Y0255F YW0000-YW0255 Auxiliary Relay R00000-R0511F RW0000-RW0511 Special Relay S00000-S0255F SW0000-SW0255 Link Relay L00000-L0255F LW0000-LW0255 **Timer Register** rL/H) T0000-T0511 -*1 **Timer Device** T.0000-T.0511 -**Counter Register** _ C0000-C0511 *1 Counter Device C.0000-C.0511 -Link Register Relay Z00000-Z0511F _ вit F) Data Register -D00000-D08191 Link Register W00000-W01023 Bit F] -Bit F] File Register F00000-F08191 _

*1 Write disable

мемо

• Please refer to the GP-Pro EX Reference Manual for system data area.

Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (only for direct access method)"

• Please refer to the precautions on manual notation for icons in the table.

■ T3H/S2T/S2E

: This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Input	X00000-X0511F	XW0000-XW0511		
Output	Y00000-Y0511F	YW0000-YW0511		
Auxiliary Relay	R00000-R0999F	RW0000-RW0999		
Special Relay	S00000-S0255F	SW0000-SW0255		
Link Relay	L00000-L0255F	LW0000-LW0255		
Timer Register	-	Т0000-Т0999	[L / H]	
Timer Device	Т.0000-Т.0999	-		*1
Counter Register	-	C0000-C0511		
Counter Device	C.0000-C.0511	-		*1
Link Register Relay	Z00000-Z0999F	-		
Data Register	-	D00000-D08191		_{Bit} F
Link Register	-	W00000-W02047	1	_{вit} F
File Register	-	F00000-F32767		вit F

E

*1 Write disable

MEMO

• Please refer to the GP-Pro EX Reference Manual for system data area.

Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (only for direct access method)"

• Please refer to the precautions on manual notation for icons in the table.

6.2 V Series

■ Model2000(S2PU22/S2PU32/S2PU72/S2PU82)

: This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
I Variable	IX00000-IX3071F	IW0000-IW3071		
O Variable	QX00000-QX3071F	QW0000-QW3071		
System	S00000-S0511F	SW0000-SW0511		
Data	-	DW0000-DW4095		<u>віt</u> F)*1
Data	R00000-R4095F	RW0000-RW4095	-	*1
User Register	-	F00000-F32767		Bit F

*1 R, RW device and D device use the same area. Designate the R device when doing bit write from the Display.

MEMO

• Although local variables, control global variables and station global variables exist outside of the above-mentioned device, they are not accessible from the Display.

- Please refer to the GP-Pro EX Reference Manual for system data area.
- Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (only for direct access method)"
- Please refer to the precautions on manual notation for icons in the table.

Model3000(S3PU21)

МЕМО

: This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
I Variable	IX00000-IX3071F	IW0000-IW3071		
O Variable	QX00000-QX3071F	QW0000-QW3071		
System	S00000-S0511F	SW0000-SW0511		
Data	-	DW0000-DW4095		Bit F]*1
Data	R00000-R4095F	RW0000-RW4095	ſ	*1
User Register	-	F00000-F32767		_{Bit} F

E

*1 R, RW device and D device use the same area. Designate the R device when doing bit write from the Display.

• Although local variables, control global variables and station global variables exist outside of the above-mentioned device, they are not accessible from the Display.

• Please refer to the GP-Pro EX Reference Manual for system data area.

- Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (only for direct access method)"
- Please refer to the precautions on manual notation for icons in the table.

Model3000(S3PU45)

МЕМО

: This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
I Variable	IX00000-IX5119F	IW0000-IW5119		
O Variable	QX00000-QX5119F	QW0000-QW5119		
System	S00000-S0511F	SW0000-SW0511		
Data	-	DW0000-DW4095		<u>віt</u> F) *1
Data	R00000-R4095F	RW0000-RW4095	•	*1
User Register	-	F00000-F32767		_{Bit} F

E

*1 R, RW device and D device use the same area. Designate the R device when doing bit write from the Display.

• Although local variables, control global variables and station global variables exist outside of the above-mentioned device, they are not accessible from the Display.

• Please refer to the GP-Pro EX Reference Manual for system data area.

- Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (only for direct access method)"
- Please refer to the precautions on manual notation for icons in the table.

Model3000(S3PU55/S3PU65)

МЕМО

: This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
I Variable	IX00000-IX8191F	IW0000-IW8191		
O Variable	QX00000-QX8191F	QW0000-QW8191		
System	S00000-S0511F	SW0000-SW0511		
Data	-	DW0000-DW4095		B i t F *1
Data	R00000-R4095F	RW0000-RW4095	ſ	*1
User Register	-	F00000-F32767		_{Bit} F

E

*1 R, RW device and D device use the same area. Designate the R device when doing bit write from the Display.

• Although local variables, control global variables and station global variables exist outside of the above-mentioned device, they are not accessible from the Display.

• Please refer to the GP-Pro EX Reference Manual for system data area.

- Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (only for direct access method)"
- Please refer to the precautions on manual notation for icons in the table.

6.3 **EX Series**

■ EX2000

: This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
External Input	X00000-X0499F	XW0000-XW0499		
External Output	Y00000-Y0499F	YW0000-YW0499		
Auxiliary Relay	R00000-R0999F	RW0000-RW0999	[H/L]	
Link Relay	Z00000-Z0999F	ZW0000-ZW1999		
Timer Device	Т.0000-Т.0499	-		*1
Counter Device	C.0000-C.0499	-		*1
Data Register	-	D00000-D16383		Bit
Timer Register	-	T00000-T00499		
Counter Register	-	C00000-C00499		

*1 Write disable

MEMO

• Please refer to the GP-Pro EX Reference Manual for system data area.

- Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (only for direct access method)"
- Please refer to the precautions on manual notation for icons in the table.

7 Device Code and Address Code

Use device code and address code when you select "Device Type & Address" for the address type in data displays.

7.1 T Series

T2E

Device	Device Name	Device Code (HEX)	Address Code
Input Register	XW	0000	Word Address
Input Device	Х	0080	Word Address
Output Register	YW	0081	Word Address
Output Device	Y	0081	Word Address
Auxiliary Register	RW	0084	Word Address
Auxiliary Relay	R	0084	Word Address
Special Register	SW	0085	Word Address
Special Relay	S	0085	Word Address
Timer Register	Т	0060	Word Address
Counter Register	С	0061	Word Address
Data Register	D	0000	Word Address
Link Register	W	0001	Word Address
Link Relay Register	LW	00%6	Word Address
Link Relay Device	L	0000	Word Address
File Register	F	0002	Word Address

T2N

Device	Device Name	Device Code (HEX)	Address Code
Input Register	XW	0080	Word Address
Input Device	Х	0080	Word Address
Output Register	YW	0081	Word Address
Output Device	Y	0081	Word Address
Auxiliary Register	RW	0084	Word Address
Auxiliary Relay	R	0084	Word Address
Special Register	SW	0085	Word Address
Special Relay	S	0085	Word Address
Timer Register	Т	0060	Word Address
Counter Register	С	0061	Word Address
Data Register	D	0000	Word Address
Link Register	W	0001	Word Address
Link Relay Register	LW	0096	Word Address
Link Relay Device	L	0080	Word Address
File Register	F	0002	Word Address

■ T3

Device	Device Name	Device Code (HEX)	Address Code
Input Register	XW	0080	Word Address
Input Device	Х	0080	Word Address
Output Register	YW	0081	Word Address
Output Device	Y	0081	Word Address
Auxiliary Register	RW	0094	Word Address
Auxiliary Relay	R	0084	Word Address
Special Register	SW	0085	Word Address
Special Relay	S	0085	Word Address
Timer Register	Т	0060	Word Address
Counter Register	С	0061	Word Address
Data Register	D	0000	Word Address
Link Register	W	0001	Word Address
Link Relay Register	LW	0086	Word Address
Link Relay Device	L	0080	Word Address
File Register	F	0002	Word Address

■ T3H/S2TS2E

Device	Device Name	Device Code (HEX)	Address Code
Input Register	XW	0000	Word Address
Input Device	Х	0080	Word Address
Output Register	YW	0081	Word Address
Output Device	Y		Word Address
Auxiliary Register	RW	0084	Word Address
Auxiliary Relay	R		Word Address
Special Register	SW	0085	Word Address
Special Relay	S		Word Address
Timer Register	Т	0060	Word Address
Counter Register	С	0061	Word Address
Data Register	D	0000	Word Address
Link Register	W	0001	Word Address
Link Relay Register	LW	0086	Word Address
Link Relay Device	L		Word Address
File Register	F	0002	Word Address

7.2 V Series

Model2000(S2PU82)

Device	Device Name	Device Code (HEX)	Address Code
I Variable Register	IW	0080	Word Address
I Variable Device	IX		Word Address
O Variable Register	QW	0081	Word Address
O Variable Device	QX		Word Address
System Register	SW	0085	Word Address
System Device	S		Word Address
Data Register	DW	0000	Word Address
User Register	F	0002	Word Address
Data Register	RW	0084	Word Address
Data Device	R		Word Address

Model2000(S2PU22/S2PU32/S2PU72)

Device	Device Name	Device Code (HEX)	Address Code
I Variable Register	IW	0080	Word Address
I Variable Device	IX		Word Address
O Variable Register	QW	0081	Word Address
O Variable Device	QX		Word Address
System Register	SW	0085	Word Address
System Device	S		Word Address
Data	DW	0000	Word Address
Data Register	RW	0084	Word Address
Data Device	R		Word Address

■ Model3000(S3PU45)

Device	Device Name	Device Code (HEX)	Address Code
I Variable Register	IW	0080	Word Address
I Variable Device	IX		Word Address
O Variable Register	QW	0081	Word Address
O Variable Device	QX		Word Address
System Register	SW	0085	Word Address
System Device	S		Word Address
Data Register	DW	0000	Word Address
User Register	F	0002	Word Address
Data Register	RW	0084	Word Address
Data Device	R		Word Address

Model3000(S3PU55/S3PU65)

Device	Device Name	Device Code (HEX)	Address Code
I Variable Register	IW	0080	Word Address
I Variable Device	IX		Word Address
O Variable Register	QW	0081	Word Address
O Variable Device	QX		Word Address
System Register	SW	0085	Word Address
System Device	S		Word Address
Data Register	DW	0000	Word Address
User Register	F	0002	Word Address
Data Register	RW	0084	Word Address
Data Device	R		Word Address

7.3 EX Series

Device	Device Name	Device Code (HEX)	Address Code
Input Register	XW	0090	Word Address
Input Device	Х	0080	Word Address
Output Register	YW	0081	Word Address
Output Device	Y		Word Address
Auxiliary Register	RW	0084	Word Address
Auxiliary Relay	R		Word Address
Timer Register	Т	0060	Word Address
Counter Register	С	0061	Word Address
Data Register	D	0000	Word Address
Link Relay Register	ZW	0086	Word Address
Link Relay Device	Z		Word Address

8 Error Messages

Error messages are displayed on the Display screen as follows: "No. : Device Name: Error Message(Error Occurrence Area)". Each description is shown below.

Item	Description	
No.	Error No.	
Device Name	Name of the External Device where an error occurs. Device name is a title of the External Device set with GP-Pro EX. (Initial value [PLC1])	
Error Message	Displays messages related to the error that has occurred.	
	Displays IP address or device address of the External Device where an error occurs, or error codes received from the External Device.	
Error Occurrence Area	 MEMO IP address is displayed such as "IP address (Decimal): MAC address (Hex)". Device address is displayed as "Address: Device address". Received error codes are displayed such as "Decimal [Hex]". 	

Display Examples of Error Messages

"RHAA035: PLC1: Error has been responded for device write command (Error Code: 1[01H])"

MEMO

Please refer to the manual of the External Device for more detail of received error codes.
Please refer to "When an error is displayed (Error Code List)" in "Maintenance/ Troubleshooting manual" for more detail on the error messages common to the driver.

Error Codes Specific to the External Device

Error codes specific to the External Device are shown below.

Error Code	Description
115(73H)	Register No/Size error. This error occurs when you access the address beyond the range in T Series or V Series.
9(9H)	Register No/Size error.This error occurs when you access the address beyond the range in EX Series.
2(2H)	Transmission format error. This error occurs when you access a nonexistent device.