





Device/PLC Connection Manuals



About the Device/PLC Connection Manuals

Prior to reading these manuals and setting up your device, be sure to read the "Important: Prior to reading the Device/PLC Connection manual" information. Also, be sure to download the "Preface for Trademark Rights, List of Units Supported, How to Read Manuals and Documentation Conventions" PDF file. Furthermore, be sure to keep all manual-related data in a safe, easy-to-find location.

Koyo Electronics Industries

System Structure

The following describes the system structure for connecting the GP to Koyo Electronics Industries PLCs.

Reference _

The Cable Diagrams mentioned in the following tables are listed in the section titled "2.12.2 Cable Diagrams".

■ KOSTAC SG Series (using Link I/F)

CPU	Link I/F	Cable Diagram	Target Machine
	Upper Link Module		
SG-8	G01-DM	RS-232C	GP/GLC Series
		(Cable Diagram 1)	ST401/ST403
		RS-422	GP/GLC Series
		(Cable Diagram 2)	ST400/ST403
	CPU Unit Upper Link	RS-232C	GP/GLC Series
	I/F *1	(Cable Diagram 1)	ST401/ST403
		RS-422	GP/GLC Series
		Cable Diagram 3	ST400/ST403

^{*1} Connect to the CPU module's generic communication port.

■ KOSTAC SU Series (using Link I/F)

CPU	Link I/F	Cable Diagram	Target Machine
	Upper Link Module		
SU-5	U01-DM	RS-232C	GP/GLC Series
		(Cable Diagram 1)	ST401/ST403
SU-6	U01-DM	RS-232C	GP/GLC Series
		(Cable Diagram 1)	ST401/ST403
	CPU Unit Upper Link	RS-232C	GP/GLC Series
	I/F *1	(Cable Diagram 1)	ST401/ST403
SU-6B	CPU Unit Upper Link	RS-232C	GP/GLC Series
	I/F *1	(Cable Diagram 1)	ST401/ST403
		RS-422	GP/GLC Series
		(Cable Diagram 3)	ST400/ST403
SU-5M	CPU Unit Upper Link I/F	RS-232C	GP/GLC Series
SU-6M	(General SIO Port 1)	(Cable Diagram 9)	ST401/ST403
		RS-422	GP/GLC Series
		(Cable Diagram 10)	ST400/ST403
	CPU Unit Upper Link I/F	RS-232C	GP/GLC Series
	(General SIO Port 2)	(Cable Diagram 11)	ST401/ST403
	CPU Unit Upper Link I/F	RS-422	GP/GLC Series
	(General SIO Port 3)	(Cable Diagram 12)	ST400/ST403

^{*1} Connect to the CPU module's generic communication port.

■ KOSTAC SZ Series (using Link I/F on CPU unit)

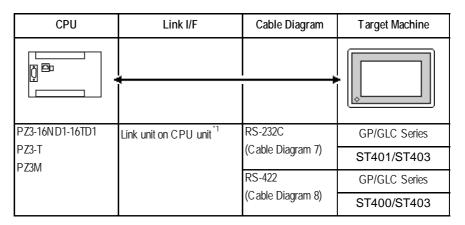
CPU	Cable Diagram	Target Machine
	,	
SZ-4 ^{*1}	RS-232C	GP/GLC Series
	(Cable Diagram 4)	ST401/ST403

^{* 1} Connect to the CPU module's generic communication port.

■ KOSTAC SR Series (using Link I/F)

CPU	Link I/F	Cable Diagram	Target Machine
	Upper Link VF		
SR-21	E-02DM-R1	RS-422	GP/GLC Series
SR-22		(Cable Diagram 2)	ST400/ST403

■ KOSTAC PZ3 Series (using Link I/F on CPU unit)



^{* 1} Connect to the CPU module's generic communication port.

■ DL-205 Series (using Link I/F on CPU unit)

СРИ	Cable Diagram	Target Machine
	·	
D2-240	RS-232C	GP/GLC Series
	(Cable Diagram 5)	ST401/ST403

^{* 1} Connect to the CPU module's generic communication port.

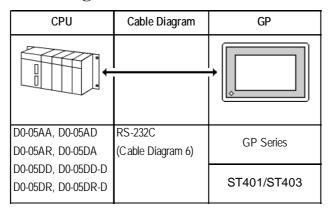
■ DL-305 Series (using Link I/F)

СРИ	Link I/F	Cable Diagram	Target Machine
	Upper Link VF	+	
D3-330	D3-DCM	RS-422 (Cable Diagram 2)	GP/GLC Series
			ST400/ST403

■ DL-405 Series (using Link I/F)

CPU	Link I/F	Cable Diagram	Target Machine
	Upper Link Module		•
D4-430	D4-DCM	RS-232C	GP/GLC Series
		(Cable Diagram 1)	ST401/ST403
D4-440	D4-DCM	RS-232C	GP/GLC Series
		(Cable Diagram 1)	ST401/ST403
	CPU Unit Upper Link	RS-232C	GP/GLC Series
	I/F ^{*1}	(Cable Diagram 1)	ST401/ST403

■ Direct Logic 05 Series



2.12.2 Cable Diagrams

The cable diagrams illustrated below and the cable diagrams recommended by Koyo Electronic Industries may differ, however, using these cables for your PLC operations will not cause any problems.



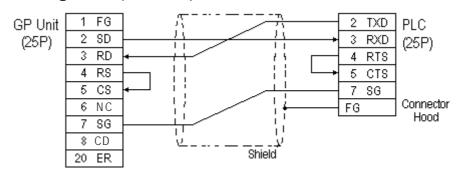
Ground your PLC's FG terminal according to your country's applicable standard. For details, refer to the corresponding PLC manual.



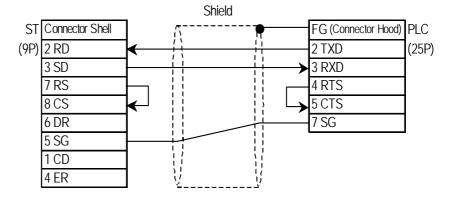
- Connect the FG line of the Shield cable to either the GP or PLC, depending on your environment. When using a connector hood and grounding the FG line, be sure to use an electrical conductor.
- For the RS-232C connection, use a cable length less than 15m.
- If a communications cable is used, it must be connected to the SG (signal ground).
- For the RS-422 connection, use a cable length less than 600m.

GP/GLC Series Units

Cable Diagram 1 (RS-232C)



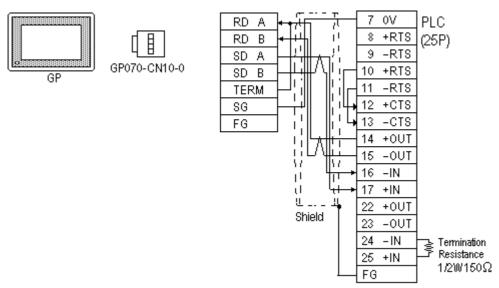
ST401/ST403 Unit



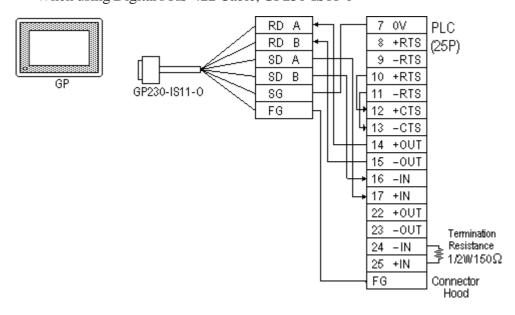
Cable Diagram 2 (RS-422)

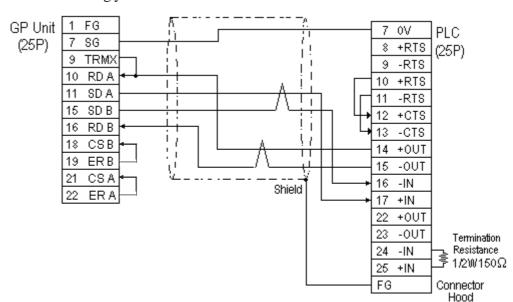
GP/GLC Series Units

• When using Digital's RS-422 connector terminal adapter GP070-CN10-0



• When using Digital's RS-422 Cable, GP230-IS11-0





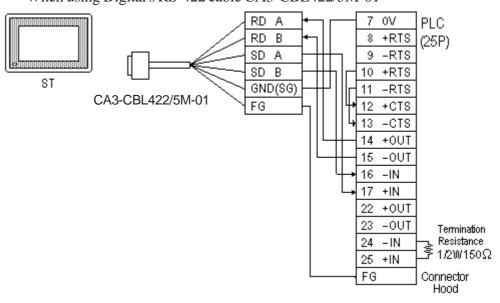
• When making your own cable connections



- When making your own connections, we recommend using Hitachi Densen's CO-SPEV-SB(A)3P*0.3SQ cable.
- When connecting the #9 and #10 pins in the GP Serial I/F, a termination resistance of 100Ω is added between RDA and RDB.
- When using RS-422 connection, the cable length must not be any longer than 600 meters.

ST400/ST403 Unit

• When using Digital's RS-422 cable CA3-CBL422/5M-01



Be sure to connect the FG line to the FG terminal. For information about FG connections, refer to page 1-5 note *1, in the "Connecting a Device/PLC to the ST unit."

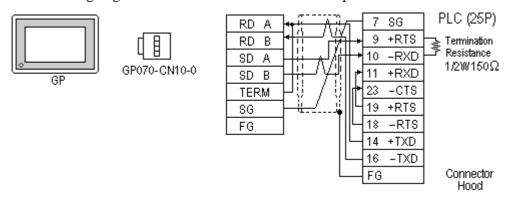
Shield ST (9P) Connector Shell 7 OV **PLC** 1 RDA +RTS (25P) Termination 2 RDB 9 -RTS Resistance 10 +RTS 100Ω 3 SDA 7 SDB 11 -RTS 5 SG 12 +CTS 6 CSB 13 -CTS 9 ERB 14 +OUT 15 -OUT 8 CSA 4 ERA 16 -IN 17 +IN 22 +OUT 23 -OUT **Termination** 24 -IN Resistance 25 +IN 150Ω 1/2W FG Connector Hood

• When making your own cable connections

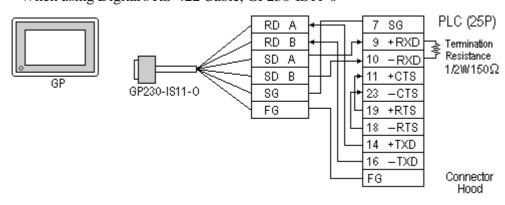
*1 Be sure to connect the shield to the Connector Shell. For information about FG connections, refer to page 1-2 "RS422 I/F (ST400/ST403)" section's Note, in the "Connecting a Device/PLC to the ST unit."

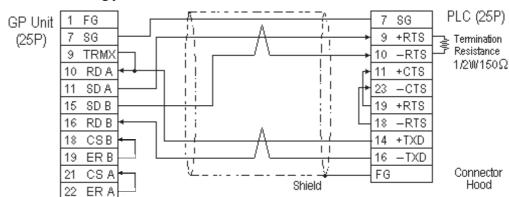
Cable Diagram 3 (RS-422) GP/GLC Series Units

• When using Digital's RS-422 connector terminal adapter GP070-CN10-0



• When using Digital's RS-422 Cable, GP230-IS11-0





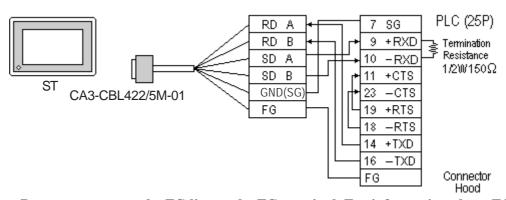
When making your own cable connections



- When making your own connections, we recommend using Hitachi Densen's CO-SPEV-SB(A)3P*0.3SQ cable.
- When connecting the #9 and #10 pins in the GP Serial I/F, a termination resistance of 100Ω is added between RDA and RDB.
- When using RS-422 connection, the cable length must not be any longer than 600 meters.

ST400/ST403 Unit

• When using Digital's RS-422 cable CA3-CBL422/5M-01





Be sure to connect the FG line to the FG terminal. For information about FG connections, refer to page 1-5 note *1, in the "Connecting a Device/PLC to the ST unit."

 100Ω

PLC ST Shield (25P)(9P) Connector Shell SG Termination & **Termination** 1 RDA +RXD 9 Resistance 10 -RXD 2 RDB 150Ω 1/2W 3 SDA 11 +CTS 7 SDB 23 -CTS 5 SG 19 +RTS

18 -RTS

14 +TXD

16 -TXD

FG (Connector Hood)

When making your own cable connections

*1 Be sure to connect the shield to the Connector Shell. For information about FG connections, refer to page 1-2 "RS422 I/F (ST400/ST403)" section's Note, in the "Connecting a Device/PLC to the ST unit."

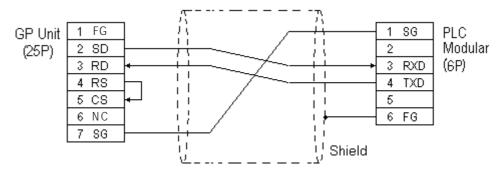
Cable Diagram 4 (RS-232C)

GP/GLC Series Units

6 CSB 9 ERB

8 CSA

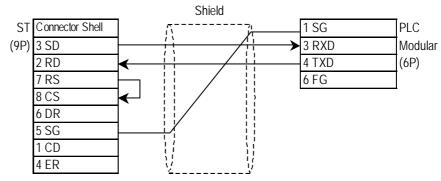
4 ERA





The GP connection uses SZ-4's Port 2 (generic SIO port). Port 1 is the program communication port (Programming Console S-20P).

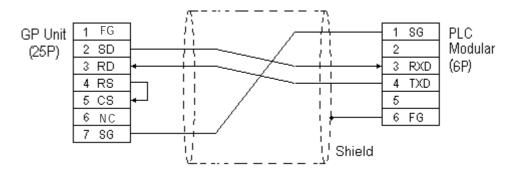
ST401/ST403 Unit





The GP connection uses SZ-4's Port 2 (generic SIO port). Port 1 is the program communication port (Programming Console S-20P).

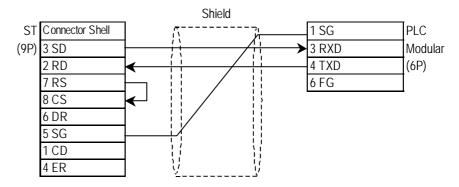
Cable Diagram 5 (RS-232C) GP/GLC Series Units





The GP connection uses D2-240's Port 2 (generic SIO port). Port 1 is the program communication port.

ST401/ST403 Unit

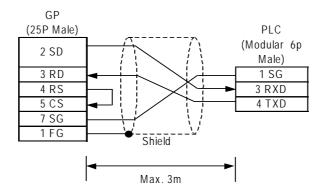




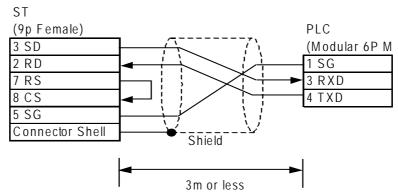
The GP connection uses D2-240's Port 2 (generic SIO port). Port 1 is the program communication port.

Cable Diagram 6 (RS-232C)

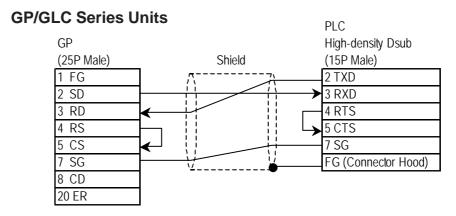
GP/GLC Series Units

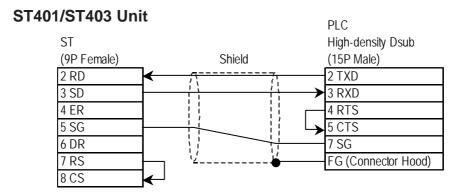


ST401/ST403 Unit



Cable Diagram 7 (RS-232C)

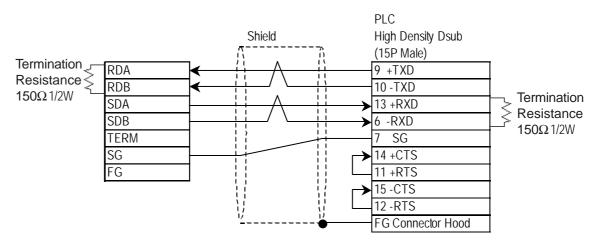




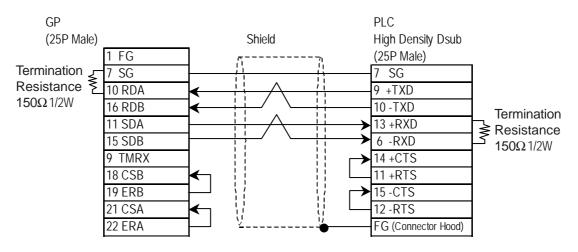
Cable Diagram 8 (RS-422)

GP/GLC Series Units

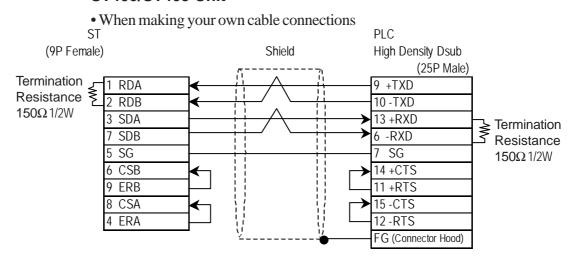
• When using Digital's RS-422 connector terminal adapter GP070-CN10-0



• When making your own cable connections

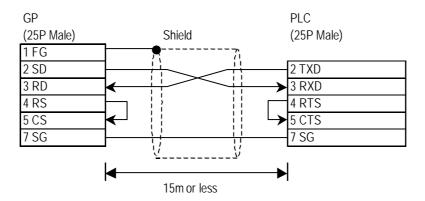


ST400/ST403 Unit

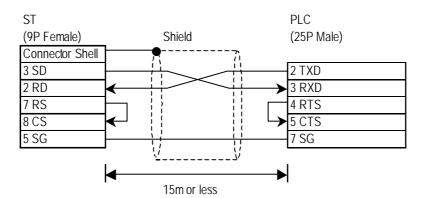


Cable Diagram 9 (RS-232C)

GP/GLC Series Units



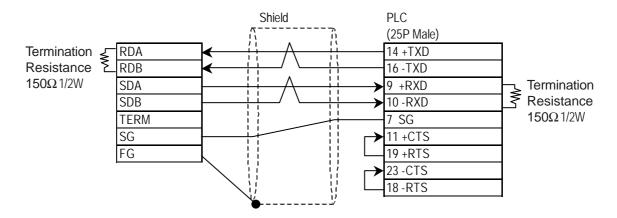
ST401/ST403 Unit



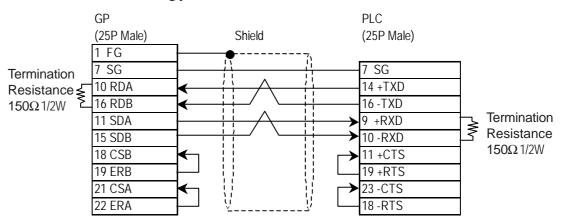
Cable Diagram 10 (RS-422)

GP/GLC Series Units

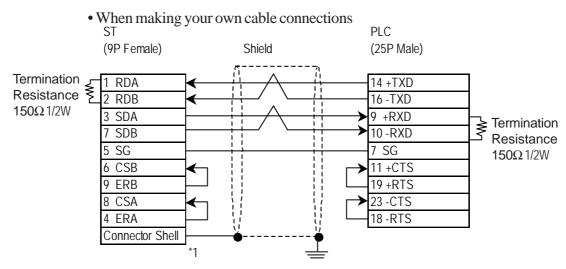
• When using Digital's RS-422 connector terminal adapter GP070-CN10-0



• When making your own cable connections



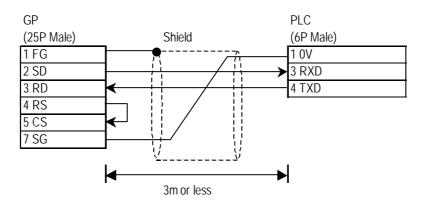
ST400/ST403 Unit



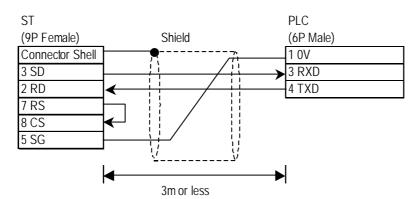
^{*1} Be sure to connect the shield to the Connector Shell. For information about FG connections, refer to page 1-2 "RS422 I/F (ST400/ST403)" section's Note, in the "Connecting a Device/PLC to the ST unit."

Cable Diagram 11 (RS-232C)

GP/GLC Series Units



ST401/ST403 Unit



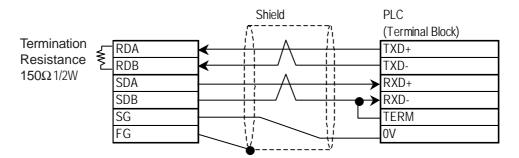
Cable Diagram 12 (RS-422)



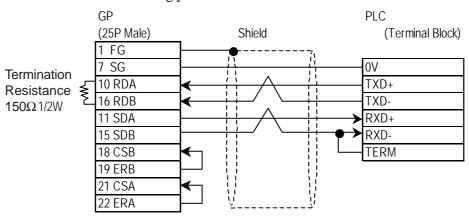
Connecting the RXD- to TERM on the PLC side causes termination resistance of 1/2W 180Ω to be inserted between the RXD+ and the RXD-.

GP/GLC Series Units

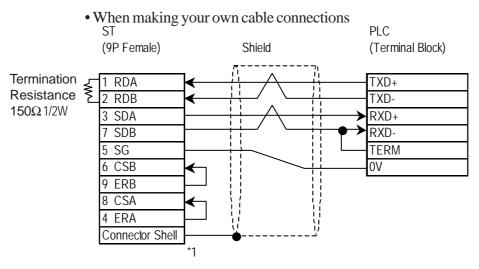
• When using Digital's RS-422 connector terminal adapter GP070-CN10-0



• When making your own cable connections



ST400/ST403 Unit



^{*1} Be sure to connect the shield to the Connector Shell. For information about FG connections, refer to page 1-2 "RS422 I/F (ST400/ST403)" section's Note, in the "Connecting a Device/PLC to the ST unit."

2.12.3 Supported Devices

The following describes the range of devices supported by the GP.

■ KOSTAC SG Series

Se	etup S	System	Area	here.
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Device	Bit Address	Word Address	Particulars	
Input Relay	10000 ~ I1777	R40400 ~ R40477	<u>ост8</u>)	
Output Relay	Q0000 ~ Q1777	R40500 ~ R40577	<u>ост8</u>)	
Control Relay	M0000 ~ M3777	R40600 ~ R40777	<u>ост8</u>]	
Stage	S0000 ~ S1777	R41000 ~ R41077	<u>ост8</u>)	
Link Relay (input)	Gl0000 ~ Gl3777	R40000 ~ R40177	<u>ост8</u>)	
Specified Transfer Relay (output)	GQ0000 ~ GQ3777	R40200 ~ R40377	<u>ост8</u>)	
Timer (contact)	T000 ~ T377	R41100 ~ R41117	<u>ост8</u>)	L/H
Counter (contact)	C000 ~ C377	R41140 ~ R41157	<u>ост8</u>]	
Timer (elapsed time)		R0000 ~ R0377	<u>ост8</u>)	
Counter (elapsed value)		R1000 ~ R1377	<u>ост8</u>)	
Variable Memory 1		R400 ~ R777	<u>ост8) віт1 5)</u>	
Variable Memory 2		R1400 ~ R7377	<u>ост8) вн1 5)</u>	
Variable Memory 3		R10000 ~ R37777	<u>ост8) віі 1 5)</u>	

■ KOSTAC SU Series (SU-5, SU-6, SU-6B)

Setup System Area here.

Device	Bit Address	Word Address	Particulars	
Input Relay	1000 ~ 1477	R40400 ~ R40423	<u>ост8</u>)	
Output Relay	Q000 ~ Q477	R40500 ~ R40523	<u>ост8</u>)	
Control Relay	M0000 ~ M1777	R40600 ~ R40677	<u>ост8</u>)	
Stage	S0000 ~ S1777	R41000 ~ R41077	<u>ост8</u>)	
Link Relay/Link Input	Gl0000 ~ Gl1777	R40000 ~ R40077	<u>ост8</u>]	
Special Relay	SP000 ~ SP137 SP320 ~ SP717	R41200 ~ R41205 R41215 ~ R41234	ост8)	
Timer (contact)	T000 ~ T377	R41100 ~ R41117	<u>ост8</u>)	L/H
Counter (contact)	C000 ~ C177	R41140 ~ R41157	<u>ост8</u>)	_,
Timer (elapsed time)		R0000 ~ R0377	<u>ост8</u>)	
Counter (elapsed value)		R1000 ~ R1177	<u>ост8</u>)	
Data Register		R1400 ~ R7377	<u>ост8) віі 15)</u>	
Special Register		R700 ~ R737 R7400 ~ R7777	ост8) <u>вії</u> 15)	
Expanded Register		R10000 ~ R17777	ост8) <u>Віт</u> 15)	

^{* 1} Only the SU-6B will check connections (Only the SU-6B can use special registers R700 to R737), however it cannot write data.

^{*2} Only the SU-6B can be used.

■ KOSTAC SU Series (SU-5M, SU-6M)

Device	Bit Address	Word Address	Particulars	
Input Relay	I0000~I1777	R4040~R40477	<u>ост8</u>)	
Output Relay	Q0000~Q1777	R40500~R40577	<u>ост8</u>]	
Link Relay	GI0000~GI3777	R40000~R40177	<u>ост8</u>]	
Link Output Relay	GQ0000~GQ3777	R40200~R40377	<u>ост8</u>]	
Internal Relay	M0000~M3777	R40600~R40777	<u>ост8</u> 1	
Stage	S0000~S1777	R41000~R41077	<u>ост8</u>]	
Special Relay 1	SP0000~SP0777	R41200~R41237	<u>ост8</u>] *1	
Timer (contact)	T000~T377	R41100~R41117	<u>ост8</u>]	
Counter (contact)	C000~C377	R41140~R41157	<u>ост8</u>]	L/H
Timer (elapsed time)		R0000~R0377	<u>ост8</u>]	
Preparatory Resister		R0400~R0677	<u>ост8) віі 1 5</u> 1	
Special Resister		R0700~R0777	<u>ост8) віт] 5</u>) *2	
Counter (elapsed value)		R1000~R1377	<u>ост8</u>]	
Data Resister 1		R1400~R7377	<u>ост8) вії 1 5</u> 1	
Special Resister 2		R7400~R7777	<u>ост8) віт] 5</u>] *2	
Data Resister 2		R10000~R36777	<u>ост8) віі 1 5</u> 1	
Special Resister 3		R37000~R37777	<u>ост8) віт1 51</u> *2	

^{*1} Not available for writes. (Even if you write data, no error will occur, but the value will not be changed.)

■ KOSTAC SZ Series

Setup System Area here.

Device	Bit Address	Word Address	Particulars	
Input Relay	10000 ~ 10477	R40400 ~ R40423	<u>ост8</u>)	
Output Relay	Q0000 ~ Q0477	R40500 ~ R40523	<u>ост8</u>)	
Control Relay	M0000 ~ Q0377	R40600 ~ R40617	<u>ост8</u>]	
Stage		R41000 ~ R41037	<u>ост8</u>)	
Timer (contact)	T000 ~ T177	R41100 ~ R41107	<u>ост8</u>)	L/H
Counter (contact)	C000 ~ C177	R41140 ~ R41147	<u>ост8</u>)	
Timer (elapsed time)		R0000 ~ R0177	<u>ост8</u>)	
Counter (elapsed value)		R1000 ~ R1177	<u>ост8</u>]	
Variable Memory 2		R2000 ~ R3777	<u>ост8) вн1 5)</u>	

^{*2} Use is determined on the PLC side. Do not write data from the GP.

■ KOSTAC SR Series

Setup System Area here.

Device	Bit Address	Word Address	Particulars	
Input/Output	000 ~ 157 700 ~ 767	R000 ~ R014 R070	<u>ост8</u>]	
Control Relay	160 ~ 377 770 ~ 777	R016 ~ R036 R076	<u>ост8</u>)	
Shift Register	400 ~ 577	R040 ~ R056	<u>ост8</u>)	1.711
Timer/Counter (contact)	600 ~ 677	R060 ~ R066	<u>ост8</u>)	L/H
Timer/Counter (elapsed value)		R600 ~ R677	<u>ост8</u> 1	
Data Register		R400 ~ R577	<u>ост8) віі 1 5)</u> ÷2 П	



Bit write operation of bit devices

When the GP writes to the PLC's bit addresses, it reads the data including the bit address to be written by a unit, word (as word data) first. After that, the GP changes only that bit to be written of the read out data and writes it to the PLC as word data. Therefore writing to the bit addresses before/after the bit address to be written from the ladder program in the middle of the bit write operation might cause the incorrect data to be written.

■ DL-405 Series

Setup System Area here.

Device	Bit Address	Word Address	Particulars	
Input Relay	X000 ~ X477	V40400 ~ V40423	<u>ост8</u>)	
Output Relay	Y000 ~ Y477	V40500 ~ V40523	<u>ост8</u>]	
Internal Relay	C0000 ~ C1777	V40600 ~ V40677	<u>ост8</u>]	
Stage	S0000 ~ S1777	V41000 ~ V41077	<u>ост8</u>]	
Link Relay/Link Input	GX0000 ~ GX1777	V40000 ~ V40077	<u>ост8</u>]	
Special Relay	SP000 ~ SP137 SP320 ~ SP717	V41200 ~ V41205 V41215 ~ V41234	<u>ост8</u> 1	L/H
Timer (contact)	T000 ~ T377	V41100 ~ V41117	<u>ост8</u>]	
Counter (contact)	CT000 ~ CT177	V41140 ~ V41147	<u>ост8</u>]	
Timer (elapsed time)		V0000 ~ V0377	<u>ост8</u>]	
Counter (elapsed value)		V1000 ~ V1177	<u>ост8</u>)	
Data Register		V1400 ~ V7377	<u>ост8) віі 1 5)</u>	
Special Register		V7400 ~ V7777	<u>ост8) віі 15)</u>	

■ DL-205 Series

	Setup	System A	Area	here.
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Device	Bit Address	Word Address	Particulars	
Input Relay	X0000 ~ X0477	V40400 ~ V40423	<u>ост8</u>)	
Output Relay	Y0000 ~ Y0477	V40500 ~ V40523	<u>ост8</u>)	
Control Relay	C0000 ~ C0377	V40600 ~ V40617	<u>ост8</u>)	
Stage		V41000 ~ V41037	<u>ост8</u>)	
Timer (contact)	T000 ~ 177	V41100 ~ V41107	<u>ост8</u>)	L/H
Counter (contact)	CT000 ~ CT177	V41140 ~ V41147	<u>ост8</u>)	,
Timer (elapsed time)		V0000 ~ V0177	<u>ост8</u>]	,
Counter (elapsed value)		V1000 ~ V1177	<u>ост8</u>)	,
Variable Memory 2		V2000 ~ V3777	<u>ост8) вн</u> 1 5)	

■ DL-305 Series

Setup System Area here	٤.
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Device	Bit Address	Word Address	Particulars	
Input/Output	000 ~ 157 700 ~ 767	V000 ~ V014 V070	<u>ост8</u>)	
Control Relay	160 ~ 377 770 ~ 777	V016 ~ V036 V076	<u>ост8</u>]	
Shift Register	400 ~ 577	V040 ~ V056	<u>ост8</u>)	
Timer/Counter (contact)	600 ~ 677	V060 ~ V066	<u>ост8</u>)	L/H
Timer/Counter (elapsed value)		V600 ~ V677	<u>ост8</u>]	
Data Register		V400 ~ V577	<u>ост8)ві15)</u> ;÷2⊃	

■ Direct Logic 05 Series

Device	Bit Address	Word Address	Particulars	
Input Relay	10000 ~ 10377	R40400 ~ R40417	*1	
Output Relay	Q0000 ~ Q0377	R40500 ~ R40517	*1	
Internal Relay	M0000 ~ M0777	R40600 ~ R40637	*1	
Stage	S0000 ~ S0377	R41000 ~ R41017	*1	
Special Relay	SP0000 ~ SP0777	R41200 ~ R41237	*1	
Timer (status bit)	T000 ~ T177	R41100 ~ R41147	*1	L/H
Counter (status bit)	C000 ~ C177	R41140 ~ R41147	*1	L/П
Timer (elapsed time)		R0000 ~ R0177	*1	
Counter (calculate)		R1000 ~ R1177	*1	
V-Memory		R1200 ~ R7377	Bit 1 5 11.2	
V-Memory (non-volatile)		R7400 ~ R7577	Bit 1 5 1	
System Parameter		R7600 ~ R7777	<u>Bit 51</u> "1	

^{*1} Octal data address.

^{*2} R1200 to R1377 cannot be designated using bits. (R1400 - R7377 can.)

■ KOSTAC PZ3 Series

Device	Bit Address	Word Address	Remarks	
Input Relay	10000 to 10777	R40400 to R40437	<u>ост8)</u> "1	
Output Relay	Q0000 to Q0777	R40500 to R40537	<u>ост8</u>)	
Internal Relay	M0000 to M1777	R40600 to R40677	<u>ост8</u>)	
Stage	S0000 to S1777	R41000 to R41037	<u>ост8</u>)	
Timer (Contact)	T000 to T377	R41100 to R41117	<u>ост8</u>)	
Counter (Contact)	C000 to C177	R41140 to R41147	<u>ост8</u>)	
Special Relay	SP000 to SP777	R41200 to R41237	<u>ост8</u>) ^{*2} L/	/H
Timer (Elapsed time)		R0000 to R0377	<u>ост8</u>)	
Counter (Elapsed time)		R1000 to R1177	<u>ост8</u>)	
Data Register		R1400 to R7377	<u>ост8) віт 1 5 і</u>	
Data Register		R10000 to R17777	<u>ост8) вн1 51</u>	
Charled Dagistor		R7400 to R7777	<u>ост8) віт1 51 °2</u>	
Special Register		R37000 to R37777	<u>ост8) віт1 51 °2</u>	

^{*1} Addresses allocated to the PZ3 or the I/O units cannot be written to.

^{*2} Depending on the address, data write is not permitted. (Even if data is written it will be ignored.)

2.12.4 Environment Setup

The following tables list Digital's recommended PLC and GP communication settings.

■ KOSTAC SG Series (using Upper Link I/F)

GP Setup		Upper L	Upper Link Module Setup	
Baud Rate	19200 bps	Baud Rate	19200 bps	
Data Length	8 bits			
Stop Bit	1 bit			
Parity Bit	Odd	Parity Bit	Odd	
Data Flow Control	ER Control			
Communication Format (RS-232C)	RS-232C			
Communication Format (RS-422)	4-wire type			
	•	Master/Slave Setup	Slave	
		Transfer Mode	Hex	
Unit No.	1	Station Number	1	

■ KOSTAC SG Series (using General SIO Port)

GP Setup		Generic SIO Port Setup	
Baud Rate	19200 bps (fixed)	Baud Rate	19200 bps (fix ed)
Data Length	8 bits (fix ed)	Data Length	8 bits (fixed)
Stop Bit	1 bit (fix ed)	Stop Bit	1 bit (fixed)
Parity Bit	Odd (fix ed)	Parity Bit	Odd (fixed)
Data Flow Control	ER Control		
Communication Format	RS-232C	Communication Format	Dipswitch 1 (CCM SIO
(RS-232C)		(RS-232C)	Port) is ON
Communication Format	4-wire type	Communication Format	Dipswitch 4 (CCM SIO
(RS-422)		(RS-422)	Port) is Off
	•	Transfer Mode *1	Hex
Unit No.	1	CCM Number *1	1

^{*1} Turn Dip Switch 2 (CCM Station No.) OFF, and run Transfer mode and CCM Station Number setup with the programmer. Communication will not occur when Dip Switch 2 is ON and the transfer Mode is not designated as Hex.

■ KOSTAC SU Series (using Upper Link I/F (U01-DM))

GP Setup		Generic Link Module Setup	
Baud Rate	19200 bps	Baud Rate	19200 bps
Data Length	8 bits (fixed)		
Stop Bit	1 bit (fixed)		
Parity Bit	Odd	Parity Bit	Odd
Data Flow Control	ER Control		-
Communication Format	RS-232C		-
Unit No.	1	Station Number	1

■ KOSTAC SU Series (using General SIO Port (SU-6,SU-6B))

GP Setup		Generic S	Generic SIO Port Setup	
Baud Rate	19200 bps	Baud Rate	19200 bps	
Data Length	8 bits (fixed)			
Stop Bit	1 bit (fix ed)			
Parity Bit	Odd	Parity Bit	Odd	
Data Flow Control	ER Control			
Communication Format (RS-232C)	RS-232C			
Communication Format (RS-422)	4-wire type			
		Data Format *1	Hex	
Unit No.	1	Station Number	1	

^{*1} Turn Dip Switch 2 (CCM Station No.) OFF, and run Transfer mode and CCM Station Number setup with the programmer. Communication will not occur when Dip Switch 2 is ON and the transfer Mode is not designated as Hex.

■ KOSTAC SU Series (SU-5M, SU-6M)

GP Setup		Generic SI	Generic SIO Port Setup	
Baud Rate	19200 bps	Baud Rate	19200 bps	
Data Length	8 bits (fixed)			
Stop Bit	1 bit	Stop Bit	1 bit	
Parity Bit	Odd	Parity Bit	Odd	
Data Flow Control	ER Control			
		Communication Settings	CCM or Auto	
Communication Format (RS-232C)	RS-232C			
Communication Format (RS-422)	4-wire type			
Unit No.	1	Station Number	1	

^{*1} Changing values of Special Register enables you to make PLC's system settings. For setting method, refer to KOSRAC SU Series Users Manual.

■ KOSTAC SZ Series

GP Setup		Generic SIO Port Setup	
Baud Rate	9600 bps	Baud Rate	9600 bps
Data Length	8 bits	Data Length	8 bits
Stop Bit	1 bit	Stop Bit	1 bit
Parity Bit	Odd	Parity Bit	Odd
Data Flow Control	ER Control		
Communication Format	RS-232C		
		Data Format *1	Нех
Unit No.	1	Station Number	1

■ KOSTAC SR Series

GP Setup		CPU Module Setup	
Baud Rate	19200 bps	Baud Rate	19200 bps
Data Length	8 bits		
Stop Bit	1 bit		
Parity Bit	None	Parity Bit	None
Data Flow Control	ER Control		
Communication Format	4-line		
		Tum Around Relay	No delay
		Power Up Mode	RUN mode
		Transmission Mode	Нех
Unit No.	1	Station Number	1

■ DL405 Series (using Upper Link I/F)

GP Setup		Upper Link Module Setup	
Baud Rate	19200 bps	Baud Rate	19200 bps
Data Length	8 bits (fixed)		
Stop Bit	1 bit (fixed)		
Parity Bit	Odd	Parity Bit	Odd
Data Flow Control	ER Control		
Communication Format	RS-232C		
Unit No.	1	Station Number	1

■ DL-405 Series (using General SIO Port)

GP Setup		Generic SIO Port Setup	
Baud Rate	19200 bps	Baud Rate	19200 bps
Data Length	8 bits (fixed)		
Stop Bit	1 bit (fixed)		
Parity Bit	Odd	Parity Bit	Odd
Data Flow Control	ER Control		
Communication Format (RS-232C)	RS-232C		
Communication Format (RS-422)	4-wire type		
		Data Format ^{*1} Hex	
Unit No.	1	Station Number	1

^{*1} Turn Dip Switch 2 (CCM Station No.) OFF, and run Transfer mode and CCM Station Number setup with the programmer. Communication will not occur when Dip Switch 2 is ON and the transfer Mode is not designated as Hex.

■ DL-205 Series

GP Setup		Generic SIO Port Setup	
Baud Rate	9600 bps	Baud Rate	9600 bps
Data Length	8 bits	Data Length	8 bits
Stop Bit	1 bit	Stop Bit	1 bit
Parity Bit	Odd	Parity Bit	Odd
Data Flow Control	ER Control		
Communication Format	RS-232C		
		Data Format *1	Hex
Unit No.	1	Station Number	1

^{*1} Turn Dip Switch 2 (CCM Station No.) OFF, and run Transfer mode and CCM Station Number setup with the programmer. Communication will not occur when Dip Switch 2 is ON and the transfer Mode is not designated as Hex.

■ DL-305 Series

GP Setup		CPU Module Setup	
Baud Rate	19200 bps	Baud Rate	19200 bps
Data Length	8 bits		
Stop Bit	1 bit		
Parity Bit	None	Parity Bit	None
Data Flow Control	ER Control		
Communication Format	4-wire type		
		Turn Around Relay No delay	
		Power Up Mode	RUN mode
		Data Format *1	Hex
Unit No.	1	Station Number	1

^{*1} Turn Dip Switch 2 (CCM Station No.) OFF, and run Transfer mode and CCM Station Number setup with the programmer. Communication will not occur when Dip Switch 2 is ON and the transfer Mode is not designated as Hex.

■ Direct Logic 05 Series

GP Setup		CPU Module Setup	
Baud Rate	19200 bps	Baud Rate	19200 bps
Data Length	8 bits	Data Length	8 bits
Stop Bit	1 bit	Stop Bit	1 bit
Parity Bit	odd	Parity Bit	odd
Data Flow Control	ER Control		
Communication Format	RS-232C		
		Protocol	CCM2 (CCM Net)
		Data Transfer Mode	HEX
Unit No.	1	Station Number	1

^{*1} The Baud Rate setting is for PORT2 only. PORT1 is fixed at 9600bps.

■ KOSTAC PZ3 Series (using General SIO Port)

GP/GLC Settings		Ge	General SIO Port	
Baud Rate	9600 bps	Baud Rate	9600 bps	
Data Length	8 bits	Data Length	8 bits (fixed)	
Stop Bit	1 bit	Stop Bit	1 bit ¹	
Parity Bit	Odd	Parity Bit	Odd	
Data Flow Control	ER Control	_		
Communication Format	RS-232C	_		
Communication Format	4-wire	_		
Unit No.	1 to 90	Station Number	1 to 90	
		Protocol	CCMNet (Direct NET)	
		Data Type	Нех	