

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.

Omron Connectable Devices

The following tables list the devices that can be connected and used with the GP.

■ PLCs

◆ 1:1 Connection, 1:n Connection

Series Name	CPU	Link Unit	Comments	Device type in Screen Editor	GP Series GLC 2000 Series	GLC 100 Series GLC 300 Series
SYSMAC C	C500 C500F C1000H C1000HF C2000 C2000H	C500-LK201-V1 C500-LK203	C1000HF can only use C500-LK203 link unit.	OMRON SYSMAC-C series	○	○
	C200H C200HS	C200H-LK201 C200H-LK202				
	C20H C28H C40H C200HS CQM1-CPU42 SRM1-C02 CPM2A	Link I/F on CPU unit (RS-232C Port)				
	C120 C120F C200H C500 C500F C1000H C2000 C2000H C1000HF	C120-LK201-V1 C120-LK202-V1 C500-LK203				
	SRM1-C02, CPM1-20CDR-A CPM2A	CPM1-CIF01 CPM1-CIF11				
	C200HS SRM1-C02 CQM1-CPU11 CQM1-CPU42 CPM1-20CDR-A CPM2A CQM1H-CPU21 CQM1H-CPU51 CQM1H-CPU61	CPU Direct Connection	Omron's isolation cable (CQM1-CIF01) is necessary.	OMRON SYSMAC-C series	○	○
	CQM1H-CPU21 CQM1H-CPU51 CQM1H-CPU61	Link I/F on CPU unit (RS-232C Port)				
	CPM2C	CPU Direct Connection	Omron's isolation cable CS1W-CN114 and CQM1-CIF01 are necessary.			
		CPM2C-CIF01				
		CQM1H-CPU51 CQM1H-CPU61	CQM1H-SCB41		OMRON SYSMAC-C 1:n Comm.	
SYSMAC-α	C200HX-CPU85-Z C200HX-CPU64 C200HX-CPU44 C200HE-CPU42 C200HG-CPU63 C200HG-CPU43	C200HW-COM06	RS422 can use only the 4-wire type.	OMRON SYSMAC-C series		
	C200HE-CPU42-Z	RS-232C Port on CPU unit				
		CH200H-LK202-V1				
	C200HX-CPU64-Z	C200H-LK201-V1				

Series Name	CPU	Link Unit	Comments	Device type in Screen Editor	GP Series GLC 2000 Series	GLC 100 Series GLC 300 Series
SYSMAC CV	CV500 CV1000 CVM1	Link I/F on CPU unit, CV500-LK201 (Host Link)	Tested with the CVM1-CPU01 for the CVM1 Series	OMRON SYSMAC-CV series		
SYSMAC CS1	CS1H-CPU67 CS1H-CPU66 CS1H-CPU65 CS1H-CPU64 CS1H-CPU63 CS1G-CPU45 CS1G-CPU44 CS1G-CPU43 CS1G-CPU42 CS1H-CPU67H CS1H-CPU66H CS1H-CPU65H	RS-232C Port on CPU unit		OMRON SYSMAC- CS1 series	○	x
		Peripheral port on CPU unit				
	CS1H-CPU64H CS1H-CPU63H CS1G-CPU45H CS1G-CPU44H CS1G-CPU43H CS1G-CPU42H	CS1W-SCB21 CS1W-SCB41 CS1W-SCU21				
SYSMAC CJ	CJ1G-CPU44 CJ1G-CPU45 CJ1G-CPU42H CJ1G-CPU43H CJ1G-CPU44H CJ1G-CPU45H	Peripheral port on CPU unit				
		RS-232C port on CPU unit				
		CJ1W-SCU41				
SYSMAC CJ1M	CJ1M-CPU12 CJ1M-CPU13 CJ1M-CPU22 CJ1M-CPU23	Peripheral port on CPU unit				
		RS-232C port on CPU unit				
		CJ1W-SCU41				

◆ **n:1 (Multi-link) Connection**

Series Name	CPU	Link I/F	Comments	Device type in Screen Editor	GP Series GLC2000 Series	GLC100 Series GLC300 Series
SYSMAC C	C500 C500F C1000H C1000HF C2000 C2000H	C500-LK201-V1 C500-LK203	C1000HF can only use C500- LK203 link unit.	OMRON SYSMAC-C series	○	○
	C200H C200HS	C200H-LK202				
	C120 C120F C200H C500 C500F C1000H C2000 C2000H	C120-LK202-V1				
	SRM1-CO2 CPM1-20CDR-A CPM2A	CPM1-CIF11				
SYSMAC-α	C200HX-CPU64 C200HG-CPU43 C200HE-CPU42	C200HW- COM06	CPU64 checks the connection. Only the 4-wire type can be used.	OMRON SYSMAC-CV series	○	○
	C200HX-CPU64-Z	C200H-LK202- V1				
SYSMAC CV	CV500 CV1000 CVM1	Link I/F on CPU unit CV500-LK201		OMRON SYSMAC-CV series		
SYSMAC CS1	CS1H-CPU67 CS1H-CPU66 CS1H-CPU65 CS1H-CPU64 CS1H-CPU63 CS1G-CPU45 CS1G-CPU44 CS1G-CPU43 CS1G-CPU42 CS1H-CPU67H CS1H-CPU66H CS1H-CPU65H CS1H-CPU64H CS1H-CPU63H CS1G-CPU45H CS1G-CPU44H CS1G-CPU43H CS1G-CPU42H	CSW-SCB41	RS-422 (Port 2)	OMRON SYSMAC- CS1 series	○	X
SYSMAC CJ	CJ1G-CPU44 CJ1G-CPU45 CJ1G-CPU42H CJ1G-CPU43H CJ1G-CPU44H CJ1G-CPU45H	CJ1W-SCU41				
SYSMAC CJ1M	CJ1M-CPU12 CJ1M-CPU13 CJ1M-CPU22 CJ1M-CPU23					

◆ Ethernet Communication

Series Name	CPU	Ethernet Unit	Device type in Screen Editor
SYSMAC CS1	CS1H-CPU67	CS1W-ETN01	OMRON SYSMAC-CS1 (ETHER)
	CS1H-CPU66		
	CS1H-CPU65		
	CS1H-CPU64		
	CS1H-CPU63		
	CS1G-CPU45		
	CS1G-CPU44		
	CS1G-CPU43		
	CS1G-CPU42		
	CS1H-CPU67H		
	CS1H-CPU66H		
	CS1H-CPU65H		
	CS1H-CPU64H		
	CS1H-CPU63H		
	CS1G-CPU45H		
	CS1G-CPU44H		
CS1G-CPU43H			
CS1G-CPU42H			
SYSMAC CJ	CJ1G-CPU44	CJ1W-ETN11	
	CJ1G-CPU45	CJ1W-ETN21	
	CJ1G-CPU42H		
	CJ1G-CPU43H		
	CJ1G-CPU44H		
SYSMAC CJ 1M	CJ1G-CPU12	CJ1W-ETN11	
	CJ1G-CPU13		
	CJ1G-CPU22		
	CJ1G-CPU23		

The GP/GLC series applicable for Ethernet are listed below:

Series Name		Product Name	Optional Ethernet I/F Unit	Built-in Ethernet Port
GP77R Series	GP-377R Series	GP-377RT	○ ^{*1 *2}	x
	GP-477R Series	GP-477RE	○ ^{*2}	x
	GP-577R Series	GP-577RS	○ ^{*2}	x
		GP-577RT	○ ^{*2}	x
GP2000 Series	GP-2300 Series	GP-2300L	x	○
		GP-2300S	x	○
		GP-2300T	x	○
	GP-2400 Series	GP-2400T	x	○
	GP-2500 Series	GP-2500L	○ ^{*3 *4}	○
		GP-2500S	○ ^{*3 *4}	○
		GP-2500T	○ ^{*3 *4}	○
	GP-2501 Series	GP-2501L	○ ^{*2 *3}	x
		GP-2501S	○ ^{*2 *3}	x
		GP-2501T	○ ^{*2 *3}	x
	GP-2600 Series	GP-2600T	○ ^{*3 *4}	○
	GP-2601 Series	GP-2601T	○ ^{*2 *3}	x
GLC2000 Series	GLC-2300 Series	GLC-2300L	x	○
		GLC-2300T	x	○
	GLC-2400 Series	GLC-2400T	x	○
	GLC-2500 Series	GLC-2500T	○ ^{*3 *4}	○
	GLC-2600 Series	GLC-2600T	○ ^{*3 *4}	○
ST Series		ST403	x	○

**1 Only Multi unit can be used.*

**2 The 2-Way Driver (Pro-Server, GP-Web and others) cannot be used.*

**3 When using optional Ethernet I/F unit, a bus conversion unit (PSL-CONV00) is required.*

**4 Using the optional Ethernet I/F Unit allows you to set up separate Class and Net No.s for 2-Way Driver applications (Pro-Server, GP-Web and others) and the PLC. When doing this, data transfer with the PLC is performed through the optional Ethernet I/F Unit.*

◆ **DeviceNet Communication**

Series Name	CPU	Link Unit	Comments	Device type in Screen Editor
SYSMAC CS1	CS1H-CPU67	C200HW- DRM21-V1	Device Net Unit (GP070-DN41) is required.	Device Net Slave I/O
	CS1H-CPU66			
	CS1H-CPU65			
	CS1H-CPU64			
	CS1H-CPU63			
	CS1G-CPU45			
	CS1G-CPU44			
	CS1G-CPU43			
	CS1G-CPU42			
	CS1H-CPU67H	CS1W-DRM21		
	CS1H-CPU66H			
	CS1H-CPU65H			
	CS1H-CPU64H			
	CS1H-CPU63H			
	CS1G-CPU45H			
	CS1G-CPU44H			
	CS1G-CPU43H			
CS1G-CPU42H				
SYSMAC CJ	CJ1G-CPU44			
	CJ1G-CPU45			
SYSMAC CJ1M	CJ1M-CPU12			
	CJ1M-CPU13			
	CJ1M-CPU22			
	CJ1M-CPU23			

The following table lists the GPs units that can be connected and used with DeviceNet.

Series Name	Product Name	Unit
GP70 Series	GP-470 Series	GP-470E
	GP-570 Series	GP-570S
		GP-570T
		GP-57JS
		GP-570VM
	GP-571 Series	GP-571T
	GP-675 Series	GP-675S
		GP-675T
GP-870 Series	GP-870VM	
GP77R Series	GP-477R Series	GP-477RE
	GP-577R Series	GP-577RS
		GP-577RT
GP2000 Series	GP-2500 Series	GP-2500L
		GP-2500S
		GP-2500T
	GP-2501 Series	GP-2501S
		GP-2501T
	GP-2600 Series	GP-2600T
GP-2601 Series	GP-2601T	
GLC2000 Series	GLC2500 Series	GLC2500T
	GLC2600 Series	GLC2600T

*1 When using GP2000/GLC2000 series units, a bus conversion unit (PSL-CONV00) is required.

■ Controller

Series	Controller	Device type in Screen Editor
THERMAC NEO Electronic Temperature Controller	E5EN-□□□□□-FLK ^{*1} E5CN-□□□□□-FLK E5GN-□□□□□-FLK E5AN-□□□□□-FLK	OMRON THERMAC NEO
In-Panel NEO Temperature Controller	E5ZN-□□□□□-FLK ^{*1}	

^{*1} Omron Controller's model number consists of the following items.

Standard No. - □□□□□-□

