

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.

Yokogawa Electric/Yokogawa M&C 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
FACTORY ACE	FA500	LC01-0N	A-type CPU MP*0/AP*0 are not supported. Use together with B-type or higher. Can also use together with A-type CPU MP*1/AP*1.	YOKOGAWA FACTORY ACE *1 1:1 Comm.	○	○
		LC02-0N				
	FA-M3	F3LC01-1N	Can communicate with F3SP10-0N CPU.			
		F3LC11-1N F3LC11-2N F3LC11-1F F3LC12-1F				
		CPU Direct Connection		○	x	
FACTORY ACE	FA500 (1:n connection)	LC02-0N	Instead of the FA500, the digital indication controller (UT37/38/2000) and the MR series recorder can be used in a multi-link connection, without programming.	YOKOGAWA FACTORY ACE *2 1:n Comm.		
FACTORY ACE	FA-M3 (1:n connection)	F3LC11-2N	Instead FA-M3, a digital indicating controller (UT37/38/2000) can be used with and recorder (mR Series) multi-link connections, without programming. Communication is tested with F3SP20-0N and F3SP35-5N CPUs.	YOKOGAWA FACTORY ACE *1 1:n Comm.	○	○
STARDOM Standalone Type Controller	FCN FCJ	COM. port on CPU unit		YOKOGAWA FACTORY ACE 1:1 Comm.		

*1 Previously titled "FA-500" software on the GP-PROII and GP-PRO III software.

*2 It was known as "FA-500M" software on the GP-PROII and GP-PROIII software.

◆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
FACTORY ACE	FA-M3	F3LC11-2N	CPU uses F3SP20-ON and F3SP35-5N to check connection.	YOKOGAWA ^{*1} FACTORY ACE 1:1 Comm.	○	X
	FA-M3 (n:m Connection)	F3LC11-2N	In addition to the FA-M3, multi-link connections using a digital Indicating Controller (UT37/38/2000) and recorder (mR series) can be made without programming. The CPU uses F3SP20-N and F3SP35-5 to check the connection.	YOKOGAWA ^{*2} FACTORY ACE 1:n Comm.		

*1 Previously titled "FA-500" software on the GP-PROII and GP-PRO III software.

*2 It was known as "FA-500M" software on the GP-PROII and GP-PROIII software.

◆Ethernet Communication

Series Name	CPU	Ethernet Unit	PLC type in PRO/PBIII
FACTORY ACE FA-M3	F3SP20-0N F3SP21-0N F3SP25-2N F3SP30-0N F3SP35-5N F3SP28-3N F3SP38-6N F3SP53-4H F3SP58-6H	F3LE01-5T	YOKOGAWA FA-M3 (ETHER)

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

Series Name		Product Name	Optional Ethernet I/F Unit	Built-in Ethernet Port
GP70 Series	GP-470 Series	GP-470E	○	x
	GP-570 Series	GP-570S	○	x
		GP-570T	○	x
		GP-57JS	○	x
		GP-570VM	○	x
	GP-571 Series	GP-571T	○	x
	GP-675 Series	GP-675S	○	x
		GP-675T	○	x
GP-870 Series	GP-870VM	○	x	
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 Seires	ST403	x	○	

*1 Only the Multi unit can be used.

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

*3 When using the 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
FA-3	F3SP20-0N F3SP21-0N F3SP25-2N F3SP28-3N F3SP30-0N F3SP35-5N F3SP38-6N F3SP53-4H F3SP58-6H F3SP36-3N	F3LD01-0N	Device Net Unit (GP070-DN41) is required.	Device Net Slave I/O

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

DeviceNet Unit (GP070-DN41) *1

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

■ Controller

Series	Controller *1	Device type in Screen Editor
UT100	UT130, UT150, UT152, UT155, UP150	YOKOGAWA FACTORY ACE 1:1 Comm. or YOKOGAWA FACTORY ACE 1:n Comm.
UT2000	UT2400-□ UT2800-□	
UT3000	UT3040-□□1 UT3080-□□1 UT3160-□□1	
GREEN SERIES	UT320-□1 UT350-□1 UT420-□7 UT450-□1 UT450-□2	

*1 The model data "□" will vary depending on the type of option.

For detailed temperature Controller information, refer to that unit's catalog.