

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.

Mitsubishi Electric Connectable Devices

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

■ PLCs

◆ 1:1 Connection

Series Name	CPU	Link Unit	Comments	Device type in Screen Editor	GP Series GLC 2000 Series	GLC 100 Series GLC 300 Series
MELSEC-A	A2A A3A A4U	AJ71C24-S6 AJ71C24-S8 AJ71UC24		mitsubishi MELSEC-AnA (LINK)	○	○
		CPU Direct Connection	Can use the A-series exclusive Programming Console I/F cable	mitsubishi MELSEC-AnA (CPU)	○	X
	A2U A3U	AJ71C24-S6 AJ71C24-S8 AJ71UC24		mitsubishi MELSEC-AnA (LINK)	○	○
	A2U-S1 A3U A2US-S1	CPU Direct Connection	Can use the A-series exclusive Programming Console I/F cable (GP430-IP10-O). (Sold separately.)	mitsubishi MELSEC-AnA (CPU)		
	A0J2 A0J2H	A0J2-C214-S1		mitsubishi MELSEC-AnN (LINK)		
	A0J2H	CPU Direct Connection	Can use the A-series exclusive Programming Console I/F cable (GP430-IP10-O). (Sold separately.)	mitsubishi MELSEC-AnN (CPU)		
	A1N A2N A3N	AJ71C24 AJ71C24-S3 AJ71C24-S6 AJ71C24-S8 AJ71UC24	The link unit, AJ71UC24 has been confirmed only with A2N CPU.	mitsubishi MELSEC-AnN (LINK)	○	X
		CPU Direct Connection	Can use the A-series exclusive Programming Console I/F cable	mitsubishi MELSEC-AnN (CPU)		
	A3H, A2CJ-S3	CPU Direct Connection				
	A1S	A1SJ71C24-R2 A1SJ71UC24-R2 A1SJ71C24-R4		mitsubishi MELSEC-AnN (LINK)		
		CPU Direct Connection	Can use the A-series exclusive Programming Console I/F cable (GP430-IP10-O). (Sold separately.)	mitsubishi MELSEC-AnN (CPU)		
	A2US	A1SJ71C24-R2 A1SJ71UC24-R2 A1SJ71C24-R4		mitsubishi MELSEC-AnA (LINK)	○	○
		CPU Direct Connection	Can use the A-series exclusive Programming Console I/F cable (GP430-IP10-O). (Sold separately.)	mitsubishi MELSEC-AnA (CPU)	○	X

Series Name	CPU	Link Unit	Comments	Device type in Screen Editor	GP Series GLC 2000 Series	GLC 100 Series GLC 300 Series
MELSEC-A	A1SJ A2SH A1SH	A1SJ71UC24-R4 A1SJ71UC24-R2		MITSUBISHI MELSEC-AnN (LINK)	○	X
		CPU Direct Connection	Can use the A-series exclusive Programming Console I/F cable (GP430-IP10-O). (Sold separately.)	MITSUBISHI MELSEC-AnN (CPU)		
	A2USH-S1	A1SJ71UC24-R4 A1SJ71UC24-R2		MITSUBISHI MELSEC-AnA (LINK)	○	○
		CPU Direct Connection	Can use the A-series exclusive Programming Console I/F cable (GP430-IP10-O). (Sold separately.)	MITSUBISHI MELSEC-AnA (CPU)		
	A2CCPU24	Link I/F on CPU unit		MITSUBISHI MELSEC-AnN (LINK)		
		CPU Direct Connection	Can use the A-series exclusive Programming Console I/F cable (GP430-IP10-O). (Sold separately.)	MITSUBISHI MELSEC-AnN (CPU)		
MELSEC-F ₂	F ₂ -20M F ₂ -40M F ₂ -60M	F ₂ -232GF		MITSUBISHI MELSEC-F2 series		
MELSEC-FX	FX ₀ FX ₁ FX ₂ FX _{2C} FX _{0S} FX _{0N} FX _{1S} FX _{1N} , FX _{2N} FX _{1NC} , FX _{2NC} FX _{3UC} , FX _{3U}	CPU Direct Connection	* When using a RS-232C connection, an FX-232AW interface unit is necessary with the RS-232C/RS-422 adapter. * If you use the FX Series' exclusive Programing Console Interface cable (GP430-IP11-O), you can connect directly to the CPU unit without having to use the adapter.	MITSUBISHI MELSEC-FX (CPU)	○	X
	FX _{3UC} FX _{3U}	FX3U-485-BD				
	FX _{1S} FX _{1N}	FX1N-232-BD FX1N-422-BD				
	FX _{2N}	FX2N-232-BD FX2N-422-BD				
	FX _{3UC} FX _{3U}	FX3U-232-BD FX3U-232ADP				
	FX _{0S} FX _{0N} FX _{1S} FX _{1N} , FX _{1NC} FX _{2N} , FX _{2NC} FX _{3UC} , FX _{3U}	CPU Direct Connection	Use this protocol when using Digital's FX direct connection cable GP2000-CBLFX/5M-01 or GP2000-CBLFX/1M-01.	MITSUBISHI MELSEC-FX(CPU2)		
	FX _{3UC} FX _{3U}	FX3U-485-BD				
	FX _{3UC} FX _{3U}	FX3U-232-BD FX3U-232ADP				
	A1FX	CPU Direct Connection	You can use the A Series' exclusive Programing Console I/F Interface cable (GP430-IP10-O)	MITSUBISHI MELSEC-AnN (CPU)		
	FX _{2N}	FX2N-232-BD FX2N-485-BD FX0N-485ADP+ FX1N-CNV-BD	PLC's system must be Ver.1.06 or later.	MITSUBISHI MELSEC-FX2 (LINK)		
	FX _{2NC} FX _{1NC}	FX0N-232ADP FX0N-485ADP				
	FX _{3UC} FX _{3U}	FX3U-232-BD FX3U-232ADP FX3U-485-BD FX3U-485ADP				
	FX _{1N}	FX1N-232-BD FX1N-485-BD FX0N-485ADP+ FX1N-CNV-BD				

Series Name	CPU	Link Unit	Comments	Device type in Screen Editor	GP Series GLC 2000 Series	GLC 100 Series GLC 300 Series
MELSEC-FX	FX _{1N}	FX1N-485-BD FX0N-485ADP+ FX1N-CNV-BD		MITSUBISHI MELSEC-FX 1:N COMM	○	X
	FX _{1NC}	FX0N-485ADP				
	FX _{2N}	FX2N-485-BD FX0N-485ADP+ FX2N-CNV-BD	PLC's system must be Ver.1.06 or later.			
	FX _{2NC}	FX0N-485ADP				
	FX _{3UC} FX _{3U}	FX3U-485-BD FX3U-485ADP				
MELSEC-QnA	Q2A Q2A-S1 Q4A	AJ71QC24		MITSUBISHI MELSEC-QnA (LINK)	○	○
		AJ71UC24	Usable Device are limited.	MITSUBISHI MELSEC-AnA (LINK)		
	Q2AS Q2ASH	A1SJ71QC24		MITSUBISHI MELSEC-QnA (LINK)		
		A1SJ71UC24	Usable Device are limited.	MITSUBISHI MELSEC-AnA (LINK)		
	Q2AS-S1	A1SJ71QC24N		MITSUBISHI MELSEC-QnA (LINK)		
		A1SJ71QC24N1		MITSUBISHI MELSEC-QnA (LINK)		
		A1SJ71UC24-R2 A1SJ71UC24-R4	Usable Device are limited.	MITSUBISHI MELSEC-AnA (LINK)		
	Q2A Q4A Q2AS Q2AS-S1 Q2A-S1 Q2ASH Q4AR	CPU Direct Connection	Can use the separately sold A-Series Programming Console I/F Cable (GP430-IP10-O)	MITSUBISHI MELSEC-QnA (CPU)		
		Q4AR	AJ71QC24N	MITSUBISHI MELSEC-QnA (LINK)		
	MELSEC-Q	Q02CPU-A Q02HCPU-A Q06HCPU-A	A1SJ71UC24-R2 A1SJ71UC24-R4			
CPU Direct Connection				MITSUBISHI MELSEC-AnA (CPU)		
Q02CPU Q02HCPU Q06HCPU Q12HCPU Q25HCPU		QJ71C24		MITSUBISHI MELSEC-QnA (LINK)		
		QJ71C24-R2 QJ71C24N		MITSUBISHI MELSEC-QnA (LINK)		
		QJ71C24N-R2 QJ71C24N-R4		MITSUBISHI MELSEC-QnA (LINK)		
		CPU Direct Connection	Cannot be connected to CPU unit's USB Port.	MITSUBISHI MELSEC-Q (CPU)		
Q00CPU Q01CPU Q00JCPU		QJ71C24		MITSUBISHI MELSEC-QnA (LINK)		
		QJ71C24-R2 QJ71C24N QJ71C24N-R2 QJ71C24N-R4		MITSUBISHI MELSEC-QnA (LINK)		
Q00CPU Q01CPU	CPU Direct Connection	Cannot be connected to CPU unit's USB Port.	MITSUBISHI MELSEC-QnA (LINK)			
Q00CPU Q01CPU Q00JCPU	CPU Direct Connection	Cannot be connected to CPU unit's USB Port.	MITSUBISHI MELSEC-QUTE (CPU)			

◆ **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		
MELSEC-A	A2A A3A A4U	AJ71C24-S6 AJ71C24-S8 AJ71UC24		Mitsubishi's MELSEC-AnA (LINK)	○	○		
	A2U	AJ71UC24						
	A2US	A1SJ71C24-R4 A1SJ71UC24-RS						
	A2USH-S1	A1SJ71UC24-R4						
	A1N A2N A3N	AJ71C24 AJ71C24-S3 AJ71C24-S6 AJ71C24-S8 AJ71UC24		Mitsubishi's MELSEC-AnN (LINK)				
	AOJ2 AOJ2H	AOJ2-C214-S1						
	A1SJ	A1SJ71UC24-R4						
	A1S A1SH A2SH	A1SJ71C24-R4						
	A2CCPUC24	Link I/F on CPU Link		Mitsubishi's MELSEC-AnN (LINK)				
	MELSEC-FX	FX _{2N}	FX2N-485-BD	PLC unit's system version must be 1.06 or higher.			Mitsubishi's MELSEC-FX2 (LINK)	
FX _{3UC}		FX3U-485-BD						
MELSEC- QnA	Q2A Q2A-S1 Q4A	AJ71QC24 AJ71QC24N-R4 AJ71UC24		Mitsubishi's MELSEC-QnA (LINK)			○	X
	Q2AS	A1JS71QC24		Mitsubishi's MELSEC-QnA (LINK)				
		A1JS71UC24	Usable device type limited	Mitsubishi's MELSEC-AnA (LINK)				
	Q2AS-S1	A1SJ71QC24N A1SJ71QC24N1		Mitsubishi's MELSEC-QnA (LINK)				
		A1SJ71UC24-R4	Usable device type limited	Mitsubishi's MELSEC-AnA (LINK)				
	Q4AR	AJ71QC24N		Mitsubishi's MELSEC-QnA (LINK)				
MELSEC-Q	Q02CPU-A Q02HCPU-A Q06HCPU-A	A1SJ71UC24-R4		Mitsubishi's MELSEC-AnA (LINK)				
	Q02CPU Q02HCPU Q06HCPU Q12HCPU Q25HCPU Q00CPU Q01CPU Q00JCPU	QJ71C24 QJ71C24N QJ71C24N-R4		Mitsubishi's MELSEC-QnA (LINK)				

◆ Ethernet Communication

Series Names	CPU	Ethernet Unit	Comments	Device type in Screen Editor
MELSEC-A	A2A A3A A2U-S1 A2N	AJ71E71	<GP/GLC List 1>	MITSUBISHI MELSEC-A (ETHER)
	A2US	A1SJ71E71		
MELSEC-Q (Q mode CPU)	Q00CPU Q01CPU Q00JCPU Q02CPU Q02HCPU Q06HCPU Q12HCPU Q25HCPU	QJ71E71 QJ71E71-B2 QJ71E71-100	<GP/GLC List 2>	MITSUBISHI MELSEC-Q (ETHER)
MELSEC- QnA	Q2A Q2A-S1 Q3A Q4A Q4AR	AJ71QE71 AJ71QE71-B5		
	Q2AS Q2ASH Q2AS-S1 Q2ASH-S1	A1SJ71QE71-B2 A1SJ71QE71-B5		

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

<GP/GLC List 1>

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 Series	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.

<GP/GLC List 2>

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.

◆ **CC-Link Remote Device Station**

Series Name	CPU	Link I/F Unit or CPU Direct Connection	Special Conditions	Device type in Screen Editor
A Series	A2A A3A A3N A2U-S1	CC-Link Unit A Series AJ61BT11	CC-Link Compatible unit is required	CC-Link Type
	A2US A2USH-S1	A Series A1SJ61BT11		
QnA Series	Q3A Q4A	QnA Series AJ61QBT11		

The GP/GLC series applicable for CC-Link Remote Device Station listed below:

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

Units Applicable to CC-Link *1

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

◆CC-Link Intelligent Device Station

Series Name	CPU	CC-Link Unit	Special Conditions	Device type in Screen Editor		
MELSEC-A	A1S A1SH A1SJ A1SJH A1SCPUC24-R2 A2S A2SH A2US A2US-S1 A2USH-S1	A1SJ61BT11	(PLC) CC-Link unit's software version J or higher	CC-Link intelligent device		
	A0J2H A1N A2N A2N-S1 A3N A3H A2A A2A-S1 A3A A2U A2U-S1 A3U A4U	AJ61BT11				
MELSEC-QnA	Q2AS Q2ASH	A1SJ61QBT11	(PLC) CC-Link unit's software version J or higher		CC-Link intelligent device	
	Q2A Q2A-S1 Q3A Q4A Q4AR	AJ61QBT11				
MELSEC-Q	Q00CPU ^{*1} Q01CPU ^{*1} Q00JCPU ^{*1} Q02CPU Q02HCPU Q06HCPU Q12HCPU Q25HCPU	QJ61BT11				CC-Link intelligent device
	Q02CPU-A Q02HCPU-A Q06HCPU-A	A1SJ61BT11	A Mode CPU			

**1 CC-Link unit's software version B or higher.*

The GP/GLC series applicable for CC-Link Intelligent Device Station listed below:

Series Name		Product Name	Unit
GP70 Series	GP-377 Series	GP-377L	CC-Link Compatible Unit*1
		GP-377S	
GP77R Series	GP-377R Series	GP-377RT	
	GP-477R Series	GP-477RE	
	GP-577R Series	GP-577RS	
		GP-577RT	
GP2000 Series	GP-2300 Series	GP-2300L	
		GP-2300T	
	GP-2301 Series	GP-2301L	
		GP-2301S	
		GP-2301T	
	GP-2400 Series	GP-2400T	
	GP-2401 Series	GP2401T	
	GP-2500 Series	GP-2500T	
	GP-2501 Series	GP-2501S	
		GP-2501T	
GP-2600 Series	GP-2600T		
GP-2601 Series	GP-2601T		
GLC2000 Series	GLC-2300 Series	GLC-2300L	
		GLC-2300T	
	GLC-2400 Series	GLC-2400T	
	GLC-2500 Series	GLC-2500T	
	GLC-2600 Series	GLC-2600T	

**1 When using GP-477R/GP-577R series units, the GLC bus conversion unit (GLC300-BCB11) is required.*

When using GP2000/GLC2000 Series units, the Bus CONversion Unit (PSM-CONV00) is required.

■ Inverter

Series	Inverter *1	Device type in Screen Editor
FREQROL-A500	FR-A520-□K FR-A540-□K	MITSUBISHI FREQROL SERIES
FREQROL-A500L	FR-A520L-□K FR-A540L-□K	
FREQROL-E500	FR-E520-□K FR-E540-□K FR-E520S-□K FR-E510W-□K	
FREQROL-F500	FR-F520-□K FR-F540-□K	
FREQROL-F500L	FR-F520L-□K FR-F540L-□K	
FREQROL-S500	FR-S510W-□K-R FR-S520-□K-R FR-S520S-□K-R	
FREQROL-B,B3	FR-B-□K FR-B3-□□□K	

**1 The “□” characters in the inverter model codes reflect available options.*