Make Life Easy

User Manual for Communication

HMI

GP/LP Series (RS Automation(Samsung))

Thank you for purchasing an Autonics product.
This user manual contains information about the product and its proper use,
and should be kept in a place where it will be easy to access.

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Preface

Thank you for purchasing Autonics product.
Please familiarize yourself with the information contained in the Safety Considerations section before using this product.
This user manual contains information about the product and its proper use, and should be kept in a place where it will be easy to access.

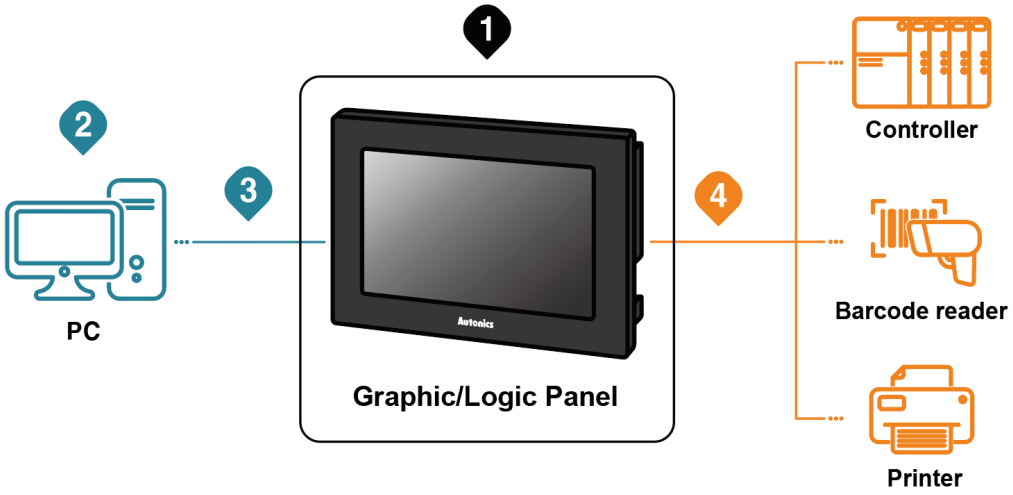
User Manual Guide

- Please familiarize yourself with the information in this manual before using the product.
- This manual provides detailed information on the product's features. It does not offer any guarantee concerning matters beyond the scope of this manual.
- This manual may not be edited or reproduced in either part or whole without permission.
- A user manual is not provided as part of the product package. Please visit our website (www.autonics.com) to download a copy.
- The manual's content may vary depending on changes to the product's software and other unforeseen developments within Autonics, and is subject to change without prior notice. Upgrade notice is provided through our website.
- We contrived to describe this manual more easily and correctly. However, if there are any corrections or questions, please notify us these on our website.
- Inner device of this user manual for communication is based on GP.
  If you use LP, refer to "LP user manual" for inner device of LP.

User Manual Symbols

Symbol	Description
 Note	Supplementary information for a particular feature.
 Warning	Failure to follow instructions can result in serious injury or death.
 Caution	Failure to follow instructions can lead to a minor injury or product damage.
 Ex.	An example of the concerned feature's use.
※1	Annotation mark.

Reference Manual for Each Configuration



1 Graphic/Logic panel device specification, installation, maintenance, management, firmware update and system configuration

Hardware Manual	A Series	GP-A Series User Manual, LP-A Series User Manual
	S Series	GP-S070 User Manual, GP-S044/057 User Manual, LP-S070 User Manual, LP-S044 User Manual

2 Project drawing, programming

Software Manual	Drawing	atDesigner User Manual, GP Editor User Manual
	Programming	atLogic User Manual, atLogic Programming Manual

3 Project Upload/Download

Hardware Manual	A Series	GP-A Series User Manual, LP-A Series User Manual
	S Series	GP-S070 User Manual, GP-S044/057 User Manual, LP-S070 User Manual, LP-S044 User Manual

4 Connected device setting, communication setting

Software Manual	Drawing	atDesigner User Manual, GP Editor User Manual
	Programming	atLogic User Manual, atLogic Programming Manual
Hardware Manual	A Series	GP-A Series User Manual, LP-A Series User Manual
	S Series	GP-S070 User Manual, GP-S044/057 User Manual, LP-S070 User Manual, LP-S044 User Manual

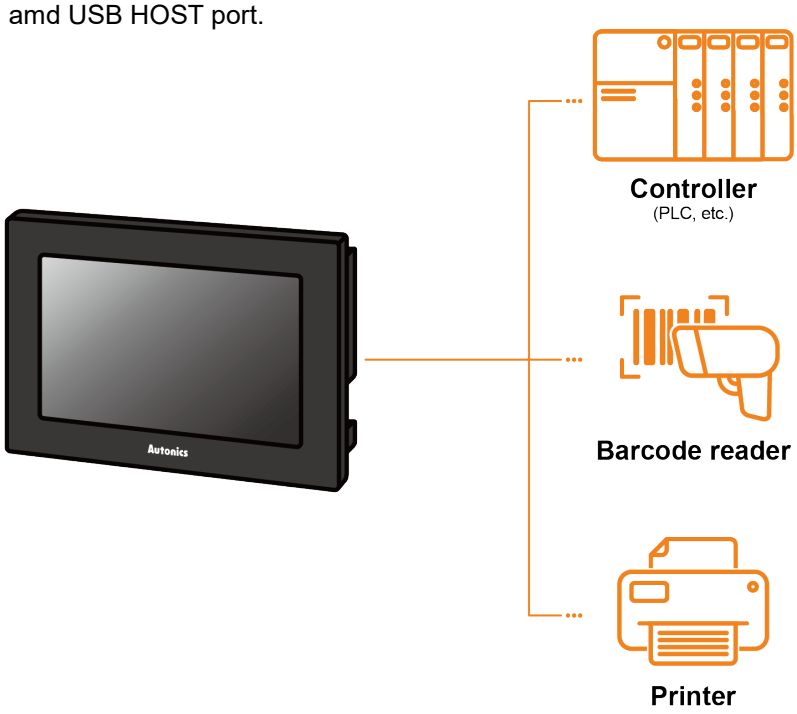
4 Check connectable device, connection cable model name and protocol

Communication Manual	GP/LP Communication Manual

Table of Contents

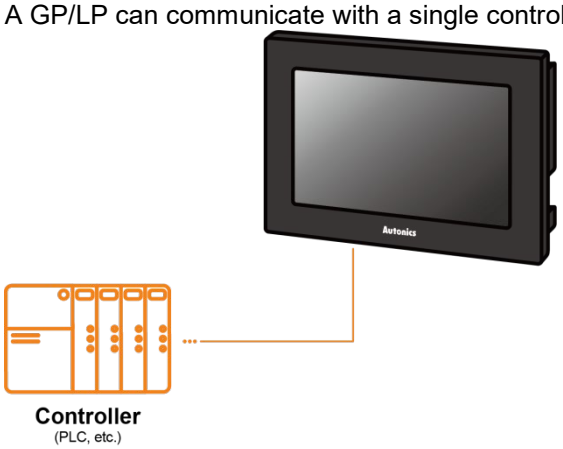
1 System Organization

GP/LP can be connected with various controller, barcode reader and printer via RS232C, RS422, Ethernet, CAN amd USB HOST port.



1.1 1:1 Communication

A GP/LP can communicate with a single controller A.



(1) Communication configuration by GP/LP model

The communication configuration by GP/LP model is listed below.
For detailed information about the communication configuration, please refer to 'GP/LP User Manual'.

- GP/LP-S Series

Series	Chanel	Connecting port	Description
GP/LP-S044, GP-S057	CH1	RS232C/RS422	Direct communication available
	CH2	RS422/RS485	Link device※1 communication available
GP/LP-S070	CH1	RS232C/RS422	Direct communication available Link device※1 communication available
	CH2	RS422/RS485	Direct communication available Link device※1 communication available

- GP/LP-A Series

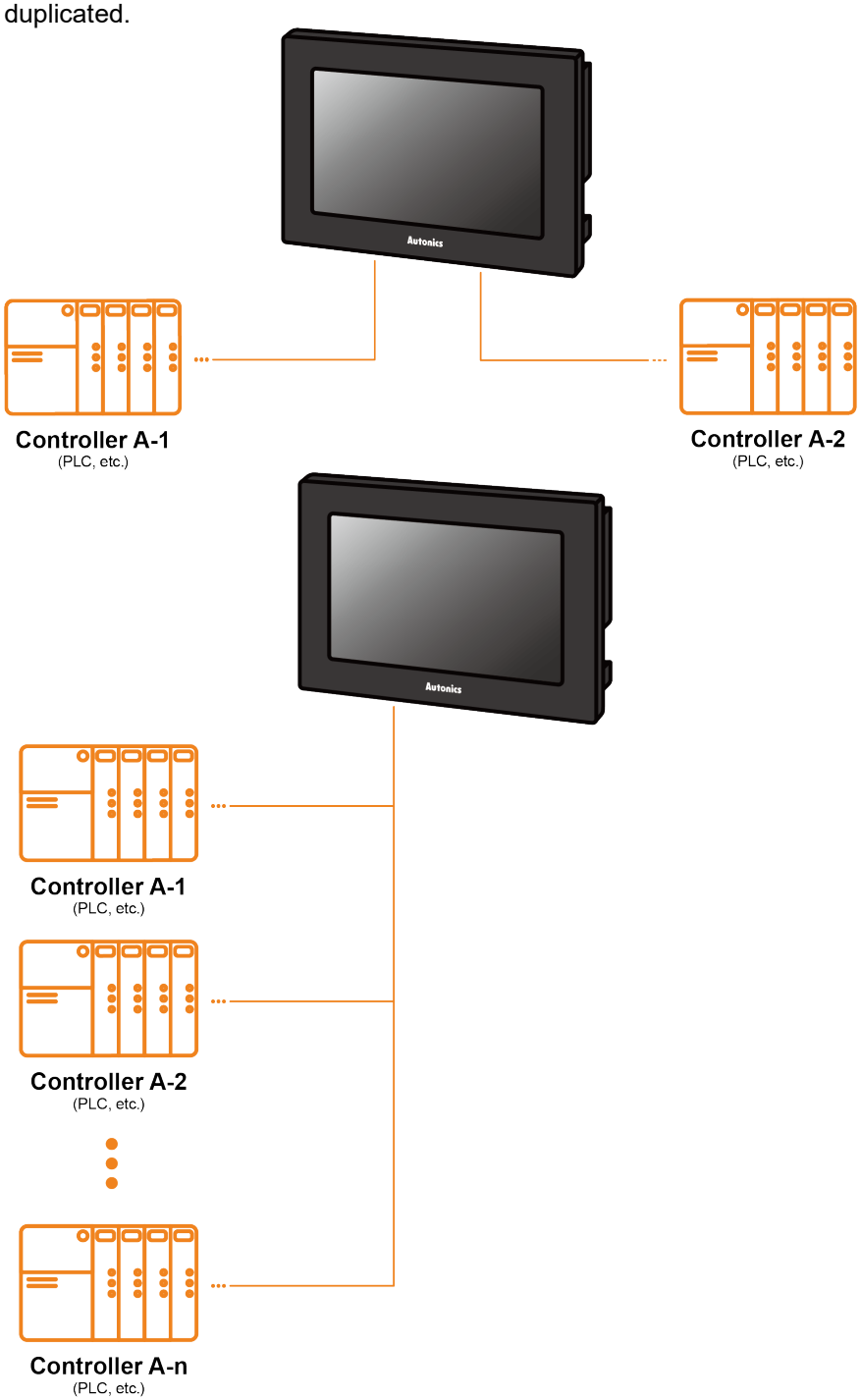
Series	Connecting port	Description
GP/LP-A070	RS422 or RS232C-A port, RS232C or RS232C-B port, Ethernet port	Direct communication available Link device※1 communication available
GP/LP-A104	RS422 or RS232C-A port, RS232C or RS232C-B port, Ethernet port, CAN※2 port	Direct communication available Link device※1 communication available

※1: Please refer to 'GP Editor User Manual' for Link device instruction.

※2: Only Autonics' ARD Series can be connected to CAN port.

1.2 1:N Communication of Same Controllers

1:N communication stands for one LP communicating with multiple of controllers.
The GP/LP observes the connected controllers or relays data between controllers.
A GP/LP can communicate with the multiple of controller As.
The controller has to be able to set address of each device, and the address should not be duplicated.



(1) Communication configuration by GP/LP model

The communication configuration by GP/LP model is listed below.
For detailed information about the communication configuration, please refer to 'GP/LP User Manual'.

- GP/LP-S Series

Series	Chanel	Connecting port	Description
GP/LP-S044, GP-S057	CH1	-	Multiple connection unavailable
	CH2	RS422	Link device※1 communication available
GP/LP-S070	CH1 or CH2	RS422	Direct communication available Link device※1 communication available

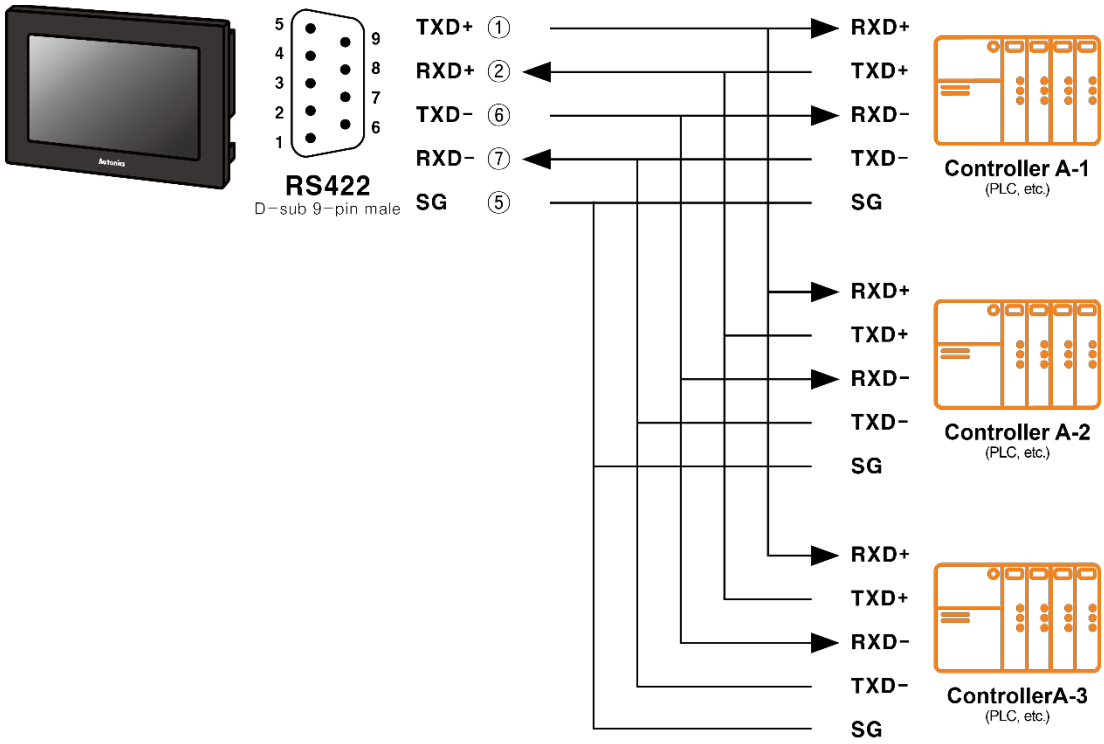
- GP/LP-A Series

Series	Connecting port	Description
GP/LP-A070	RS422 or RS232C-A port, RS232C or RS232C-B port, Ethernet port	Direct communication available Link device※1 communication available
GP/LP-A104	RS422 or RS232C-A port, RS232C or RS232C-B port, Ethernet port, CAN※2port	Direct communication available Link device※1 communication available

※1: Please refer to 'GP Editor User Manual' for Link device instruction.

※2: Only Autonics' ARD Series can be connected to CAN port.

(2) RS422 communication connection diagram

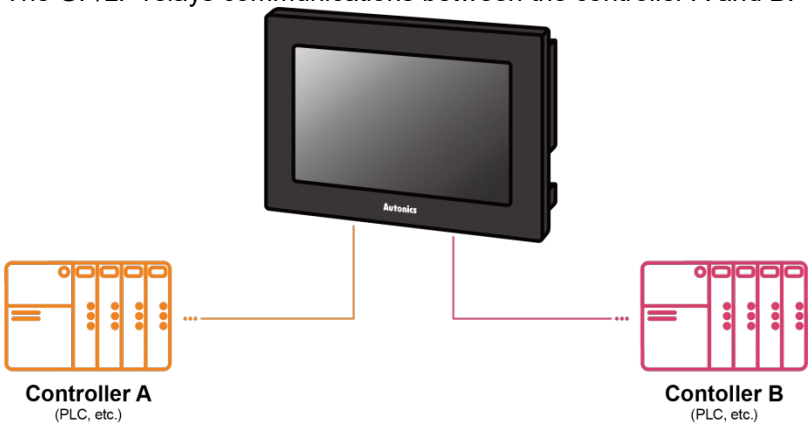


1.3 1:N Communication of Different Controllers

1:N communication stands for one GP/LP communicating with multiple of controllers.
The GP/LP observes the connected controllers or relays data between controllers.
The GP/LP can communicate with the multiple of different controllers.

1.3.1 1:1:1 Communication

A GP/LP can communicate with a signle controller A and a signle controller B.
The GP/LP relays communications between the controller A and B.



(1) Communication configuration by GP/LP model

The communication configuration by GP/LP model is listed below.
For detailed information about the communication configuration, please refer to 'GP/LP User Manual'.

- GP/LP-S Series

Series	Chanel	Connecting port	Description
GP/LP-S044, GP-S057	CH1	RS232C/RS422	Direct communication available
	CH2	RS422/RS485	Link device※1 communication available
GP/LP-S070	CH1 or CH2	RS422/RS485	Direct communication available Link device※1 communication available

- GP/LP-A Series

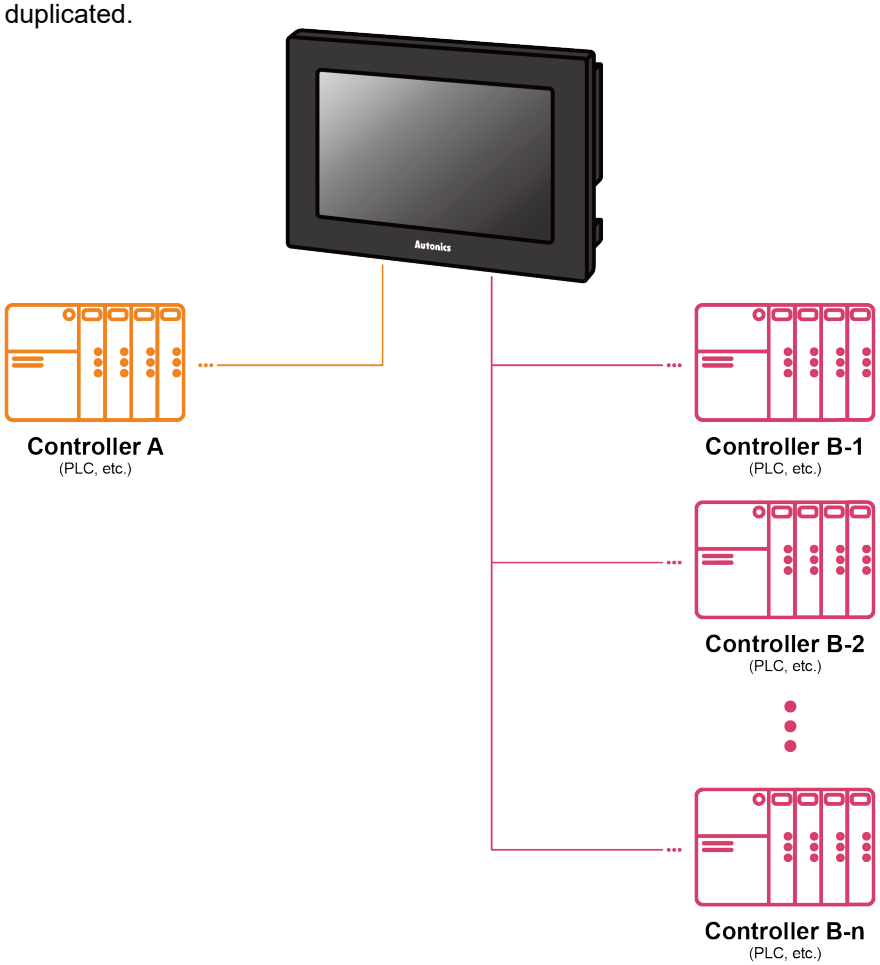
Series	Connecting port	Description
GP/LP-A070	RS422 or RS232C-A port, RS232C or RS232C-B port, Ethernet port	Direct communication available Link device※1 communication available
GP/LP-A104	RS422 or RS232C-A port, RS232C or RS232C-B port, Ethernet port, CAN※2 port	Direct communication available Link device※1 communication available

※1: Please refer to 'GP Editor User Manual' for Link device instruction.

※2: Only Autonics' ARD Series can be connected to CAN port.

1.3.2 1:1:N Communication

A GP/LP can communicate with a single controller A and the multiple of controller Bs..
The GP/LP relays communication between the controller A and B.
The controller has to be able to set address of each device, and the address should not be duplicated.



(1) Communication configuration by GP/LP model

The communication configuration by GP/LP model is listed below.
For detailed information about the communication configuration, please refer to 'GP/LP User Manual'.

- GP/LP-S Series

Series	Chanel	Connecting port	Description
GP/LP-S044, GP-S057	CH1	RS232C	Single direct communication available
	CH2	RS422/RS485	Link device※1 multiple communication available
GP/LP-S070	CH1 or CH2	RS232C	Single direct communication available Link device※1 single communication available
		RS422/RS485	Multiple direct communication available Link device※1 multiple communication available

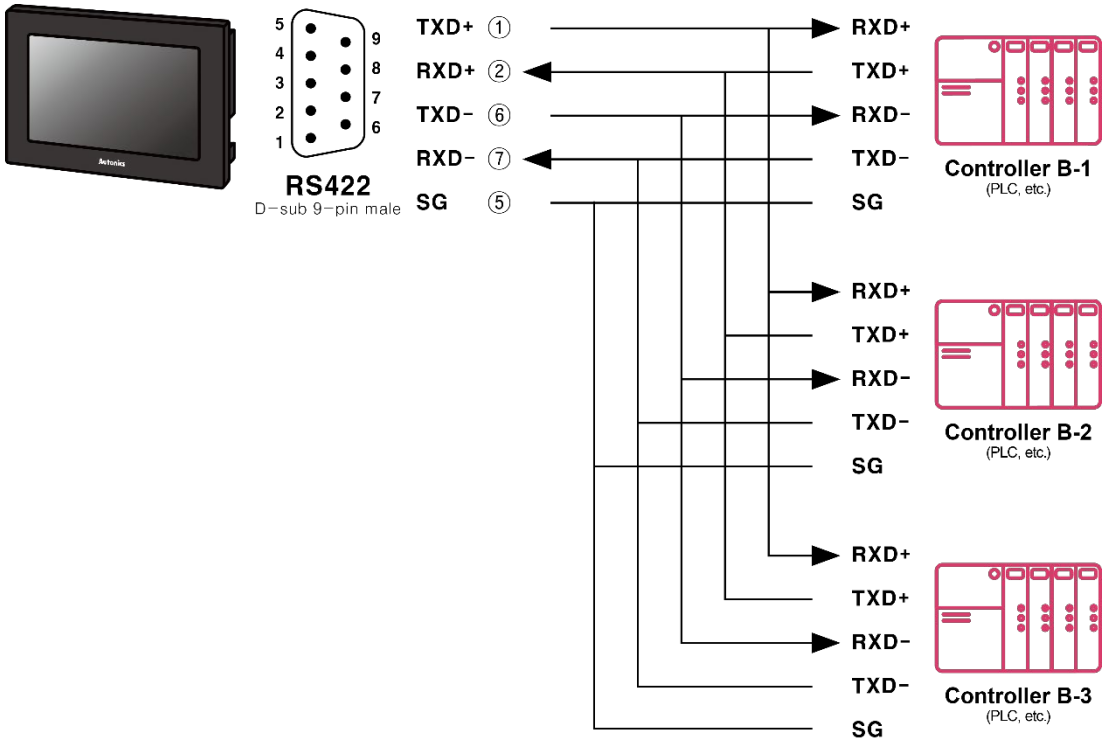
- GP/LP-A Series

Series	Connecting port	Description
GP/LP-A070	RS422 or RS232C-A port, RS232C or RS232C-B port, Ethernet port	Direct communication available Link device※1 communication available
GP/LP-A104	RS422 or RS232C-A port, RS232C or RS232C-B port, Ethernet port, CAN※2 port	Direct communication available Link device※1 communication available

※1: Please refer to 'GP Editor User Manual' for Link device instruction.

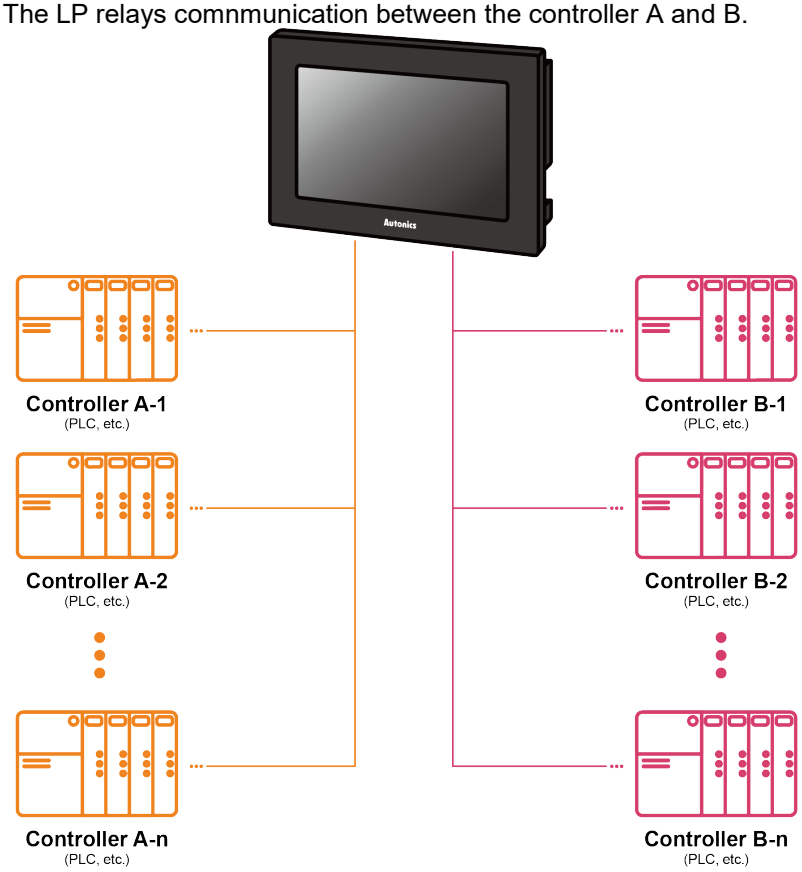
※2: Only Autonics' ARD Series can be connected to CAN port.

(2) RS422 communication connection diagram



1.3.3 N:1:N Communication

A GP/LP can communicate with the multiple of controller As and Bs.
The LP relays comnmunication between the controller A and B.



(1) Communication configuration by GP/LP model

The communication configuration by GP/LP model is listed below.
For detailed information about the communication configuration, please refer to 'GP/LP User Manual'.

- GP/LP-S Series

Series	Chanel	Connecting port	Description
GP/LP-S070	CH1 or CH2	RS232C/RS422	Multiple direct communication available Link device※1 multiple communication available

- GP/LP-A Series

Series	Connecting port	Description
GP/LP-A070	RS422 or RS232C-A port, RS232C or RS232C-B port, Ethernet port	Direct communication available Link device※1 communication available
GP/LP-A104	RS422 or RS232C-A port, RS232C or RS232C-B port, Ethernet port, CAN※2 port	Direct communication available Link device※1 communication available

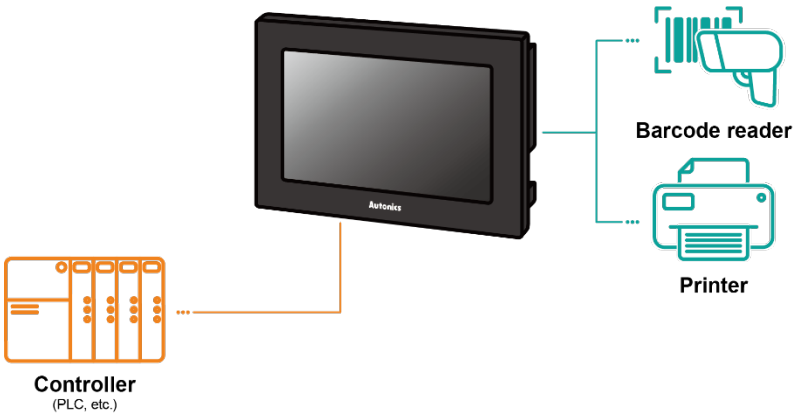
※1: Please refer to 'GP Editor User Manual' for Link device instruction.

※2: Only Autonics' ARD Series can be connected to CAN port.

1.4 Barcode Reader, Printer Communication

A GP/LP can communicate with the barcode reader and printer.
Connect the barcode reader to utilize the barcode data.
Connect the printer to print the alarm log or the screen.

- GP/LP-S Series: printing alarm log
- GP/LP-A Series: print alarm log and screen



1.4.1 Communication Configuration

1.4.1.1 Barcode Reader

(1) Connected communication port

- GP/LP-S Series

Series	Connected device	Communication port		
		RS232C※	RS422※	USB Host
GP/LP-S044, GP-S057	Controller	○	○	-
	Barcode reader	○	○	-
GP/LP-S070	Controller	○	○	-
	Barcode reader	○	○	-

- GP/LP-A Series

Series	Connected device	Communication port		
		RS232C※	RS422※	USB Host
GP/LP-A070 GP/LP-A104	Controller	○	○	-
	Barcode reader	○	○	○

※RS232C/422 converter allows to opposite communication.

(2) Configuration method

1st Set the items related to the use of bar codes in the project in the drawing program, GP Editor/atDesigner.

Series	Description	Drawing program menu
GP/LP-S	Device setting for data storage	Common > Barcode
	System device setting for action control	Common > System Information > System Signal 1
GP/LP-A	Device setting for connection port/data storage	Project > Project Property > Special Device Setting

※For detailed information about system device setting, please refer to 'GP Editor/atDesigner User Manual'.

2nd Download the set project in the drawing program , GP Editor/atDesigner, to GP/LP device.

3rd Make communication settings for each port in the GP/LP system menu.

※For detailed information about communication setting, please refer to 'GP/LP User Manual'.

(3) Communication specification

Item	Specification
Baud rate	300, 600, 1200, 3200, 4800, 9600, 19200, 38400, 57600, 115200bps
Data length	7, 8 bit
Parity	None, Odd, Even
Stop bit	1, 2 bit
Flow control	DSR/DTR, XON/XOFF

1.4.1.2 Printer

(1) Connected communication port

- GP/LP-S Series

Series	Connected device	Communication port		
		RS232C※	RS422※	USB Host
GP/LP-S044, GP-S057	Controller	○	○	-
	Printer	○	○	-
GP/LP-S070	Controller	○	○	-
	Printer	○	○	-

- GP/LP-A Series

Series	Connected device	Communication port		
		RS232C※	RS422※	USB Host
GP/LP-A070, GP/LP-A104	Controller	○	○	-
	Printer	-	-	○

(2) Configuration method

1st Set screen printing/alarm log printing device and touch key/switch in drawing program, GP Editor/atDesigner.

Series	Description	Drawing program menu
GP/LP-S	System device setting for action control	Common > System Information > System Signal
GP/LP-A	Device setting for screen print control	Project window > Right-click menu of the screen to print > Screen Printer Setting
	Device setting for alarm log print	Project window > Alarm History > Use Print

2nd Download the set project in the drawing program , GP Editor/atDesigner, to GP/LP device.

3rd Make communication settings for each port in the GP/LP system menu.

※ For detailed information about communication setting, please refer to 'GP/LP User Manual'.

(3) Communication specification

Item	Specification
Baud rate	300, 600, 1200, 3200, 4800, 9600, 19200, 38400, 57600 bps
Data length	7, 8 bit
Parity	None, Odd, Even
Stop bit	1, 2 bit
Flow control	DSR/DTR, XON/XOFF

2 Communication Configuration by Devices

2.1 RS Automation(Samsung) OEMax FARA Series Connection

GP/LP is able to communicate with RS Automation OEMax (Samsung) FARA Series.

2.1.1 Connection Support PLC Model

PLC type		Communication method	Communication type	Baud rate (bps)
FARA	N70	RS232C	CPU direct Loader	19200
	N70plus	RS232C	CPU direct Loader	38400
	NX7	RS232C	CPU direct Loader	38400
	NX70	RS232C	CPU direct Loader	38400

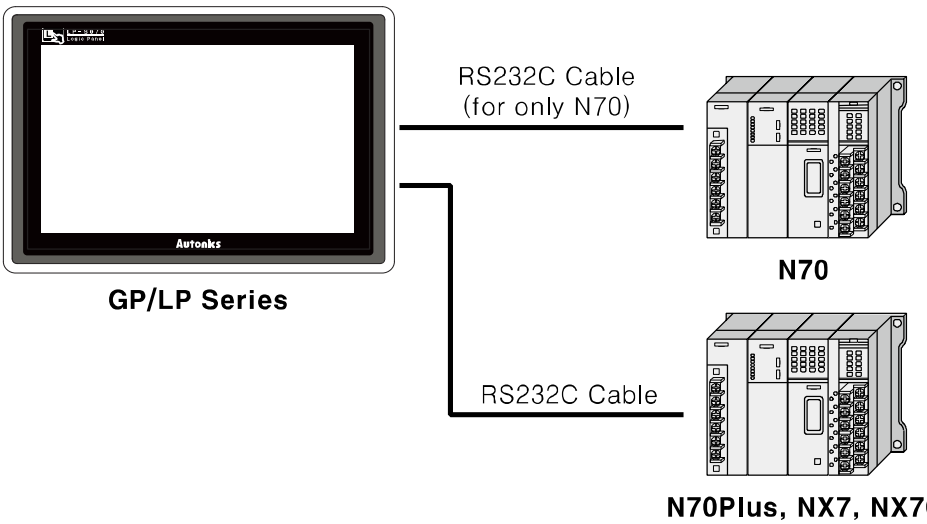
Note

The baudrate of each PLC must be set same as the table above. The baudrate can be designated by DIP switch of each PLC CPU module.

2.1.2 Connectable GP/LP Model

Connected devices	Connection method	GP/LP Model								
		GP-2480 (under V2.70)	GP-2480 (over V3.00)	GP-S057	GP/LP-S044	GP/LP-S070	GP-S057 (V2)	GP/LP-S044 (V2)	GP/LP-S070 (V2)	GP/LP-A Series
N70	CPU direct Loader	○	○	○	○	○	○	○	○	○
N70Plus	CPU direct Loader	○	○	○	○	○	○	○	○	○
NX7	CPU direct Loader	×	○	○	○	○	○	○	○	○
NX70	CPU direct Loader	×	○	○	○	○	○	○	○	○

2.1.3 System Organization

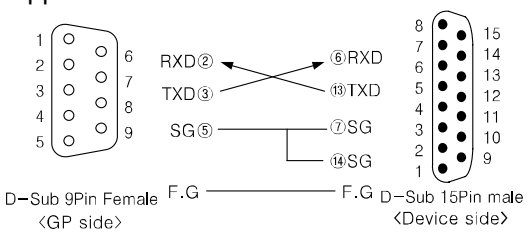


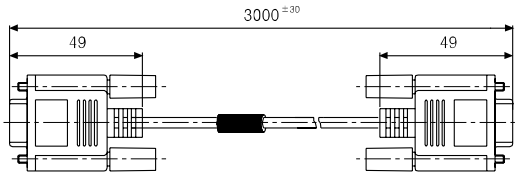
RS Automation OEMax (Samsung) FARA Series executes RS232C commnication. If PLC has embeded RS422 loader port or you use RS232/422 converter, RS422 communication is also available.

2.1.4 Communication Cable

(1) N70

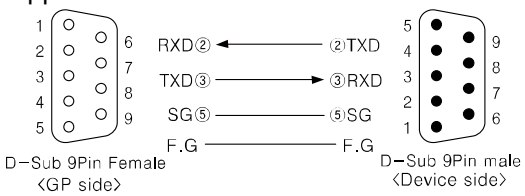
- Applied cable: C3M5P06-D9F0-D15M0

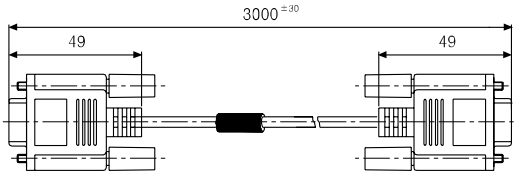




(2) N70plus, NX7, NX70

- Applied cable: C3M5P07-D9F0-D9M0





2.1.5 Available Device

2.1.5.1 FARA N70

The device range differs depending on the PLC model and the number of I/O contacts.
The available PLC model in GP/LP are as follows.
For detailed information about each device, please refer to the manuals provided by each manufacturer and

For detailed information about GP/LP internal device, please refer to 'atLogic Programing Manual'.

(1) Device structure

X	00	0

① Device name ② Word address ③ Bit address

Type	①	②	③
Bit	X	Decimal	Hexadecimal
	Y	Decimal	Hexadecimal
	R	Decimal	Hexadecimal
	L	Decimal	Hexadecimal
	T	Bit address (Decimal)	
	C	Bit address (Decimal)	
Word	WX	Word address (Decimal)	None
	WY	Word address (Decimal)	None
	WR	Word address (Decimal)	None
	WL	Word address (Decimal)	None
	EV	Word address (Decimal)	
	SV	Word address (Decimal)	
	DT	Word address (Decimal)	
	LD	Word address (Decimal)	

(2) Device Range

Type	Device	Mark	Range	
			Start	End
Bit	Input relay	X	X0	X127F
	Output relay	Y	Y0	Y127F
	Internal auxiliary relay	R	R0	R97F
	Special relay	R	R9000	R910F
	Link relay	L	L0	L127F
	Timer contact [10ms]	T	T0	T199
	Timer contact [100ms]	T	T0	T199
	Timer contact [1000ms]	T	T0	T199
	Counter contact [16 bit]	C	C200	C255
Word	Input relay	WX	WX0	WX127
	Output relay	WY	WY0	WY127
	Internal auxiliary relay	WR	WR0	WR97
	Link relay	WL	WL0	WL127
	Timer current value [10ms]	EV	EV0	EV199
	Timer current value [100ms]	EV	EV0	EV199
	Timer current value [1000ms]	EV	EV0	EV199
	Timer setting value [10ms]	SV	SV0	SV199
	Timer setting value [100ms]	SV	SV0	SV199
	Timer setting value [1000ms]	SV	SV0	SV199
	Counter current value [16 bit]	EV	EV200	EV255
	Counter setting value [16 bit]	SV	SV200	SV255
	Data register	DT	DT0	DT2047
	File register	FL	FL0	FL22524
	Special register	DT	DT9000	DT9255
	Link register	LD	LD0	LD255

2.1.5.2 FARA N70 Plus

The device range differs depending on the PLC model and the number of I/O contacts.
Bit device; R, M, K, F, L are not used as general word at PLC. However, it is able to switch into word UW device binding 16 units in GP/LP.
The available PLC model in GP/LP are as follows.
For detailed information about each device, please refer to the manuals provided by each manufacturer and

For detailed information about GP/LP internal device, please refer to 'atLogic Programing Manual'.

(1) Device structure

R	00	0

① Device name ② Word address ③ Bit address

Type	①	②	③	Note
Bit	R	Decimal	Decimal(0 to 15)	R##.## of '.' is not used
	M	Decimal	Decimal(0 to 15)	M##.## of '.' is not used
	K	Decimal	Decimal(0 to 15)	K##.## of '.' is not used
	F	Decimal	Decimal(0 to 15)	F##.## of '.' is not used
	L	Decimal	Decimal(0 to 15)	L##.## of '.' is not used
	TC	Bit address (Decimal)		
Word	R	Word address (Decimal)	None	
	M	Word address (Decimal)	None	
	K	Word address (Decimal)	None	
	F	Word address (Decimal)	None	
	L	Word address (Decimal)	None	
	PV	Word address (Decimal)		
	SV	Word address (Decimal)		
	W	Word address (Decimal)		
	SR	Word address (Decimal)		

Ex.

Word R1 = bit R100 to R115 , Word UW10 = UB100 to UB10F
There is difference for mark of bit R, M, K, F, L between general mark and GP/LP mark. General mark is displayed as R##.##, GP/LP mark is displayed without middle of distinguisher.
For example, R10.10 is displayed as 'R1010' in GP/LP.
Be sure that GP/LP does not use distinguisher, it uses virtual distinguisher cutting two digits from the backward of input bit R, M, K, F, L address.
Bit R1 = R0.01 , bit M10 = M0.10 , bit K101 = K1.0

(2) Device Range

Type	Device	Mark	Range	
			Start	End
Bit	Input relay	R	R0	R12715
	Output relay	R	R0	R12715
	Internal auxiliary relay	M	M0	M12715
	Memory protection relay	K	K0	K12715
	Special relay	F	F0	F1515
	Link relay	L	L0	L6315
	Timer contact [10ms]	TC	TC0	TC63
	Timer contact [100ms]	TC	TC64	TC255
	Counter contact [16 bit]	TC	TC0	TC255
Word	Input relay	R	R0	R127
	Output relay	R	R0	R127
	Internal auxiliary relay	M	M0	M127
	Memory protection relay	K	K0	K127
	Special relay	F	F0	F15
	Link relay	L	L0	L63
	Timer current value [10ms]	PV	PV0	PV63
	Timer current value [100ms]	PV	PV63	PV255
	Timer setting value [10ms]	SV	SV0	SV63
	Timer setting value [100ms]	SV	SV64	SV255
	Counter current value [16 bit]	PV	PV0	PV255
	Counter setting value [16 bit]	SV	SV0	SV255
	Data register※1	W	W0	W2047
	Special register	SR	SR0	SR511

※1. Depending on CPU type, that range is fluid.
In case of CPL9215A, the range is W0 to W2047. In case of CPL9216A, the range is W0 to W4095.

2.1.5.3 FARA NX7

The device range differs depending on the PLC model and the number of I/O contacts.
Bit device; R, M, K, F, L are not used as general word at PLC. However, it is able to switch into word UW device binding 16 units in GP/LP.
The available PLC model in GP/LP are as follows.
For detailed information about each device, please refer to the manuals provided by each manufacturer and

For detailed information about GP/LP internal device, please refer to 'atLogic Programing Manual'.

(1) Device structure

R	00	0

①Device name ②Word address ③Bit address

Type	①	②	③	Note
Bit	R	Decimal	Decimal(0 to 15)	R##.## of '.' is not used
	M	Decimal	Decimal(0 to 15)	M##.## of '.' is not used
	K	Decimal	Decimal(0 to 15)	K##.## of '.' is not used
	F	Decimal	Decimal(0 to 15)	F##.## of '.' is not used
	L	Decimal	Decimal(0 to 15)	L##.## of '.' is not used
	TC	Bit address (Decimal)		
Word	R	Word address (Decimal)	None	
	M	Word address (Decimal)	None	
	K	Word address (Decimal)	None	
	F	Word address (Decimal)	None	
	L	Word address (Decimal)	None	
	PV	Word address (Decimal)		
	SV	Word address (Decimal)		
	W	Word address (Decimal)		
	SR	Word address (Decimal)		

Ex.

Word R1 = bit R100 to R115 , Word UW10 = UB100 to UB10F
There is difference for mark of bit R, M, K, F, L between general mark and GP/LP mark. General mark is displayed as R##.##, GP/LP mark is displayed without middle of distinguisher.
For example, R10.10 is displayed as 'R1010' in GP/LP.
Be sure that GP/LP does not use distinguisher, it uses virtual distinguisher cutting two digits from the backward of input bit R, M, K, F, L address.
Bit R1 = R0.01 , Bit M10 = M0.10 , Bit K101 = K1.0

(2) Device Range

Type	Device	Mark	Range	
			Start	End
Bit	Input relay	R	R0	R3115
	Output relay	R	R0	R3115
	Internal auxiliary relay	M	M0	M12715
	Memory protection relay	K	K0	K12715
	Special relay	F	F0	F1515
	Link relay	L	L0	L6315
	Timer contact [10ms]	TC	TC0	TC63
	Timer contact [100ms]	TC	TC64	TC255
	Counter contact [16 bit]	TC	TC0	TC255
Word	Input relay	R	R0	R127
	Output relay	R	R0	R127
	Internal auxiliary relay	M	M0	M127
	Memory protection relay	K	K0	K127
	Special relay	F	F0	F15
	Link relay	L	L0	L63
	Timer current value [10ms]	PV	PV0	PV63
	Timer current value [100ms]	PV	PV63	PV255
	Timer setting value [10ms]	SV	SV0	SV63
	Timer setting value [100ms]	SV	SV64	SV255
	Counter current value [16 bit]	PV	PV0	PV255
	Counter setting value [16 bit]	SV	SV0	SV255
	Data register※1	W	W0	W2047
	Special register	SR	SR0	SR511

※1. Depending on CPU type, that range is fluid.
In case of CPL9215A, the range is W0 to W2047. In case of CPL9216A, the range is W0 to W4095.

2.1.5.4 FARA NX70 (CPU70)

The device range differs depending on the PLC model and the number of I/O contacts.
Bit device; R, M, K, F, L are not used as general word at PLC. However, it is able to switch into word UW device binding 16 units in GP/LP.
The available PLC model in GP/LP are as follows.
For detailed information about each device, please refer to the manuals provided by each manufacturer and

For detailed information about GP/LP internal device, please refer to 'atLogic Programing Manual'.

(1) Device structure

X	00	0

①Device name ②Word address ③Bit address

Type	①	②	③
Bit	X	Decimal	Hexadecimal
	Y	Decimal	Hexadecimal
	R	Decimal	Hexadecimal
	L	Decimal	Hexadecimal
	T	Bit address (Decimal)	
	C	Bit address (Decimal)	
Word	WX	Word address (Decimal)	None
	WY	Word address (Decimal)	None
	WR	Word address (Decimal)	None
	WL	Word address (Decimal)	None
	EV	Word address (Decimal)	
	SV	Word address (Decimal)	
	DT	Word address (Decimal)	
	LD	Word address (Decimal)	

Ex.

Word R1 = bit R100 to R115 , Word UW10 = UB100 to UB10F
There is difference for mark of bit R, M, K, F, L between general mark and GP/LP mark. General mark is displayed as R##.##, GP/LP mark is displayed without middle of distinguisher.
For example, R10.10 is displayed as 'R1010' in GP/LP.
Be sure that GP/LP does not use distinguisher, it uses virtual distinguisher cutting two digits from the backward of input bit R, M, K, F, L address.
Bit R1 = R0.01 , Bit M10 = M0.10 , Bit K101 = K1.01

(2) Device Range

Type	Device	Mark	Range	
			Start	End
Bit	Input relay	X	X0	X127F
	Output relay	Y	Y0	Y127F
	Internal auxiliary relay	R	R0	R97F
	Special relay	R	R9000	R910F
	Link relay	L	L0	L127F
	Timer contact [10ms]	T	T0	T199
	Timer contact [100ms]	T	T0	T199
	Timer contact [1000ms]	T	T0	T199
	Counter contact [16 bit]	C	C200	C255
Word	Input relay	WX	WX0	WX127
	Output relay	WY	WY0	WY127
	Internal auxiliary relay	WR	WR0	WR97
	Link relay	WL	WL0	WL127
	Timer current value [10ms]	EV	EV0	EV199
	Timer current value [100ms]	EV	EV0	EV199
	Timer current value [1000ms]	EV	EV0	EV199
	Timer setting value [10ms]	SV	SV0	SV199
	Timer setting value [100ms]	SV	SV0	SV199
	Timer setting value [1000ms]	SV	SV0	SV199
	Counter current value [16 bit]	EV	EV200	EV255
	Counter setting value [16 bit]	SV	SV200	SV255
	Data register	DT	DT0	DT2047
	File register	FL	FL0	FL22524
	Special register	DT	DT9000	DT9255
	Link register	LD	LD0	LD255

※1. Depending on CPU type that range is fluid.
In case of CPL9215A, the range is W0 to W2047. In case of CPL9216A, the range is W0 to W4095.

2.1.6 Monitorable Device in GP/LP

GP/LP is able to monitor PLC device and change the status.
The following is avilable device list of this menu, please refer to 'Available device' for available device range.

2.1.6.1 FARA N70 / FARA NX70(CPU 70)

Type	Mark	Device	Note
Bit	X	Input relay	
	Y	Output relay	
	R	Internal auxiliary relay, Special relay	
	T	Timer contact	
	C	Counter contact	
Word	WX	Input relay	
	WY	Output relay	
	WR	Internal auxiliary relay, Special relay	
	WL	Link relay	
	EV	Timer current value	
	SV	Counter setting value	
	DT16	Data/File/Special register	16 bit
	DT32	Data/File/Special register	32 bit type combining designated number of device and next number of device
	FL	File register	

2.1.6.2 FARA N70 Plus / FARA NX7

Type	Mark	Device	Note
Bit	R	Input/Output relay	
	M	Internal auxiliary relay	
	K	Memory protection relay	
	F	Special relay	
	TC	Counter/Counter contact	
Word	R	Input/Output relay	
	M	Internal auxiliary relay	
	K	Memory protection relay	
	F	Special relay	
	PV	Timer/Counter current value	
	SV	Timer/Counter setting value	
	W16	Data/File/Special register	16 bit
	W32	Data/File/Special register	32 bit type combining designated number of device and next number of device
	SR	Special register	

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* Dimensions or specifications on this manual are subject to change and some models may be discontinued without notice.

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