

User Manual for Communication

HMI

**GP/LP Series
(KONICS)**

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.

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.

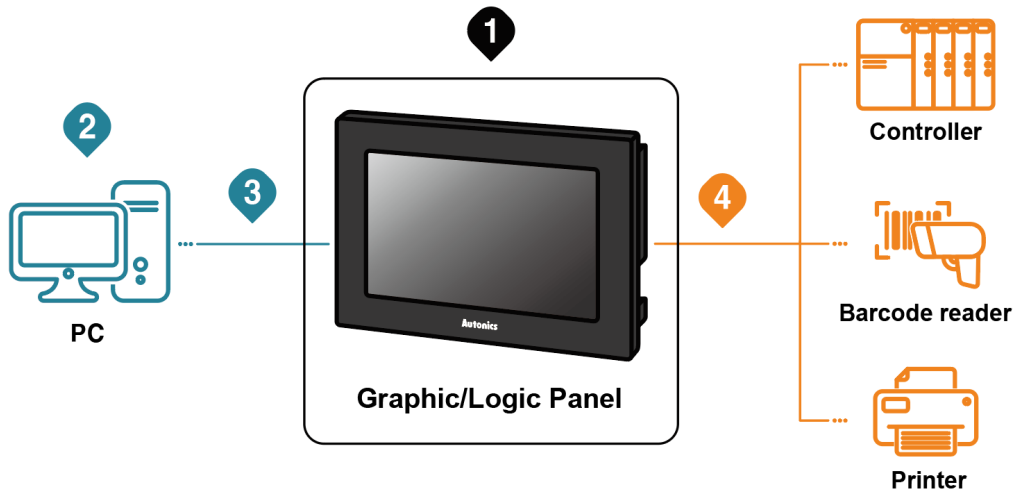
User Manual Guide

- 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

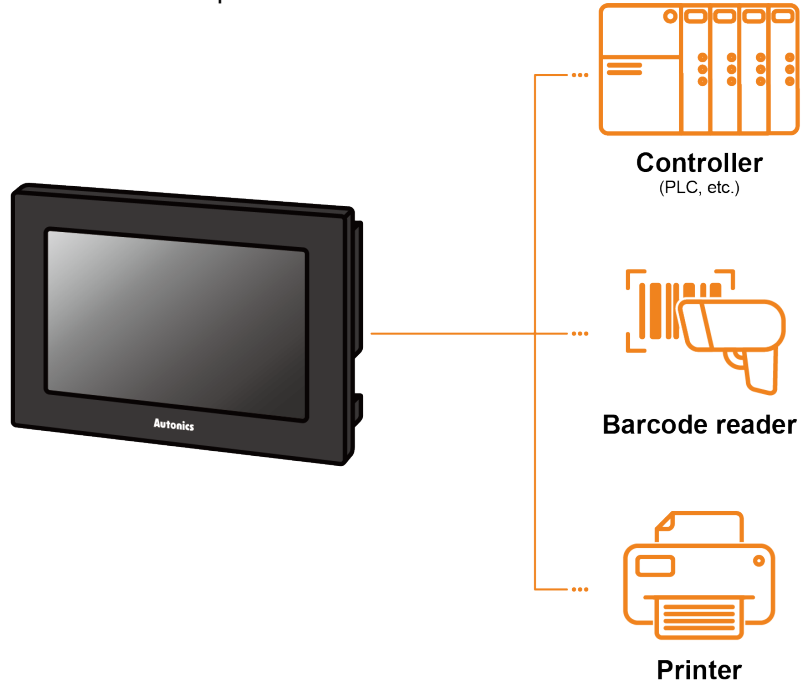
Communication Manual	GP/LP Communication Manual
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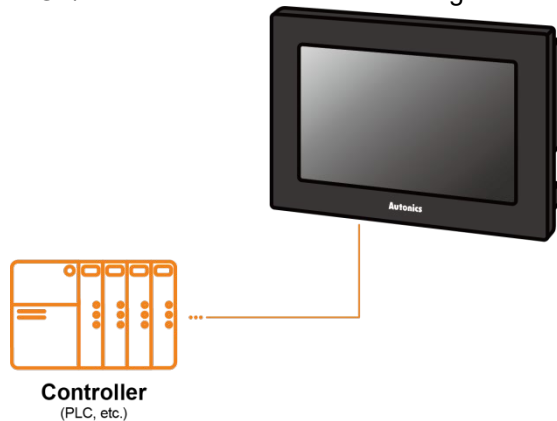
1 System Organization

GP/LP can be connected with various controller, barcode reader and printer via RS232C, RS422, Ethernet, CAN and 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

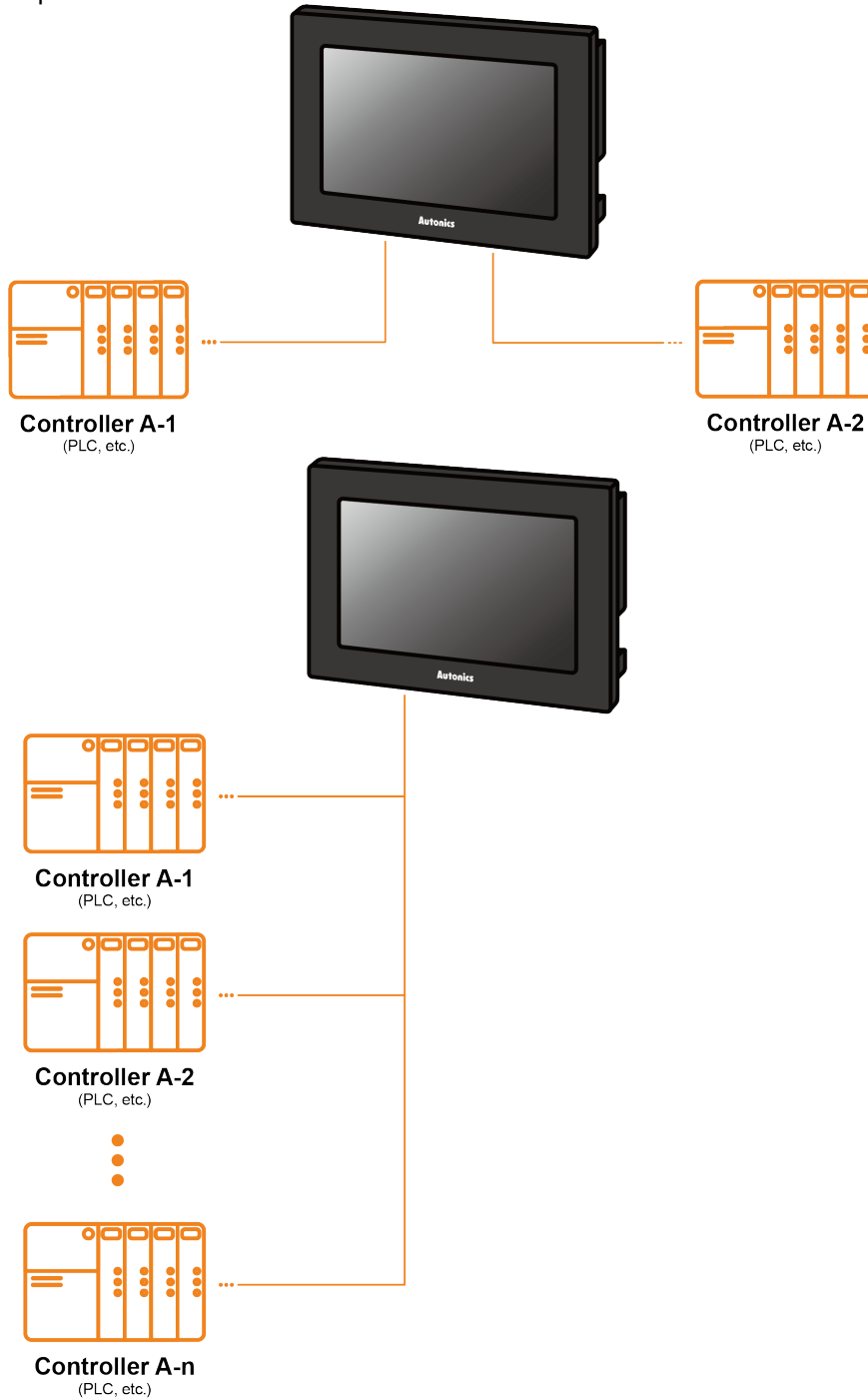
Series	Connecting port	Description
GP/LP-A070	RS422 or RS232C-A port, RS232C or RS232C-B port, Ethernet port	Direct communication available Link device ^{※1} communication available
GP/LP-A104	RS422 or RS232C-A port, RS232C or RS232C-B port, Ethernet port, CAN ^{※2} port	Direct communication available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

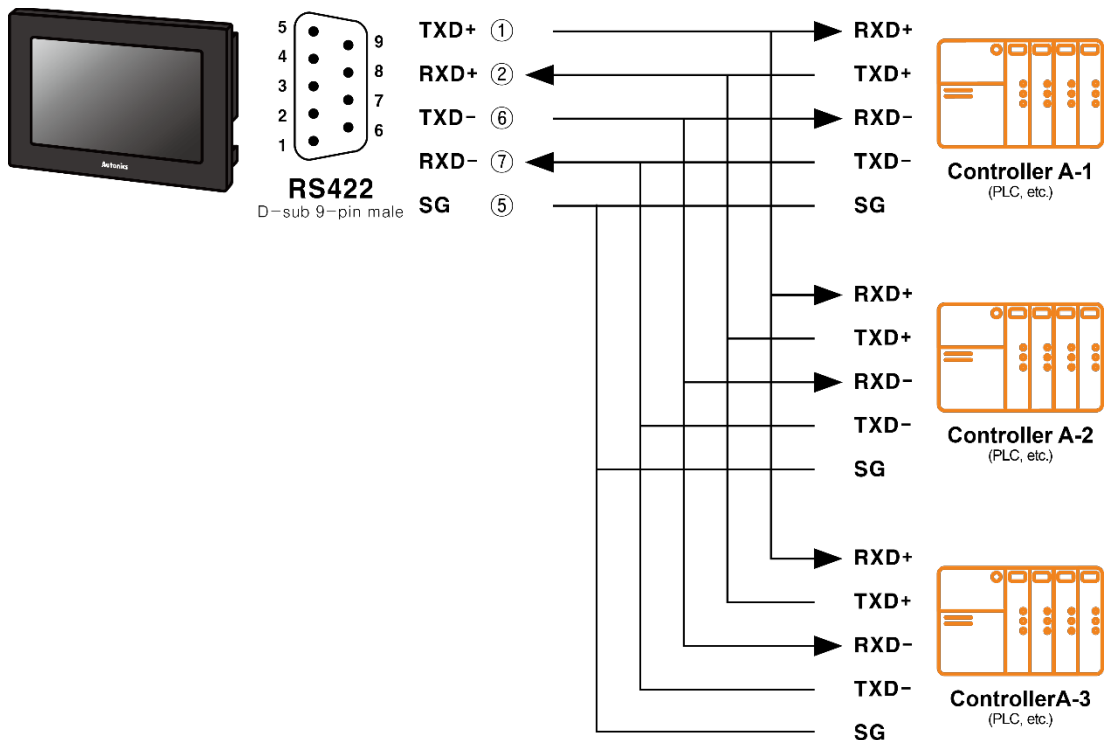
- GP/LP-A Series

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 ^{※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

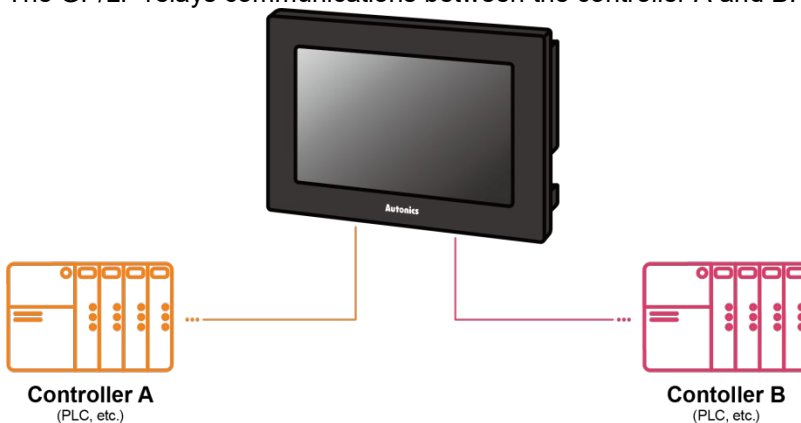


1.3 1:N Communication of Different Controllers

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 single controller A and a single 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

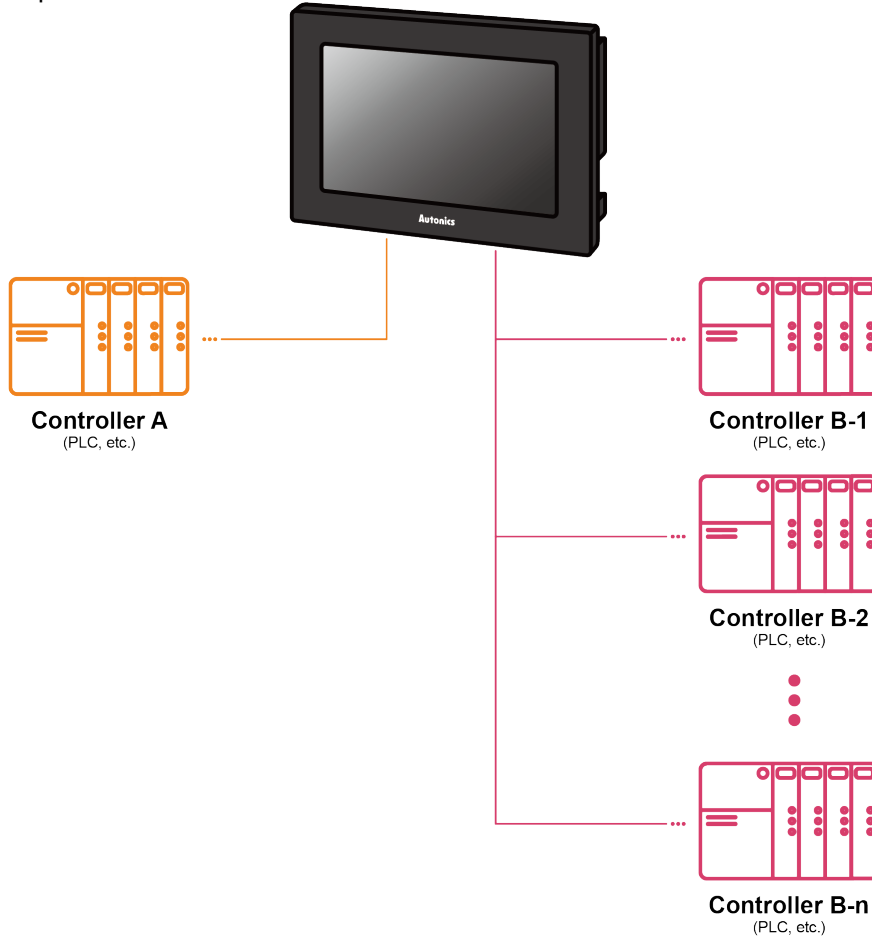
Series	Connecting port	Description
GP/LP-A070	RS422 or RS232C-A port, RS232C or RS232C-B port, Ethernet port	Direct communication available Link device*1 communication available
GP/LP-A104	RS422 or RS232C-A port, RS232C or RS232C-B port, Ethernet port, CAN*2 port	Direct communication available Link device*1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

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

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

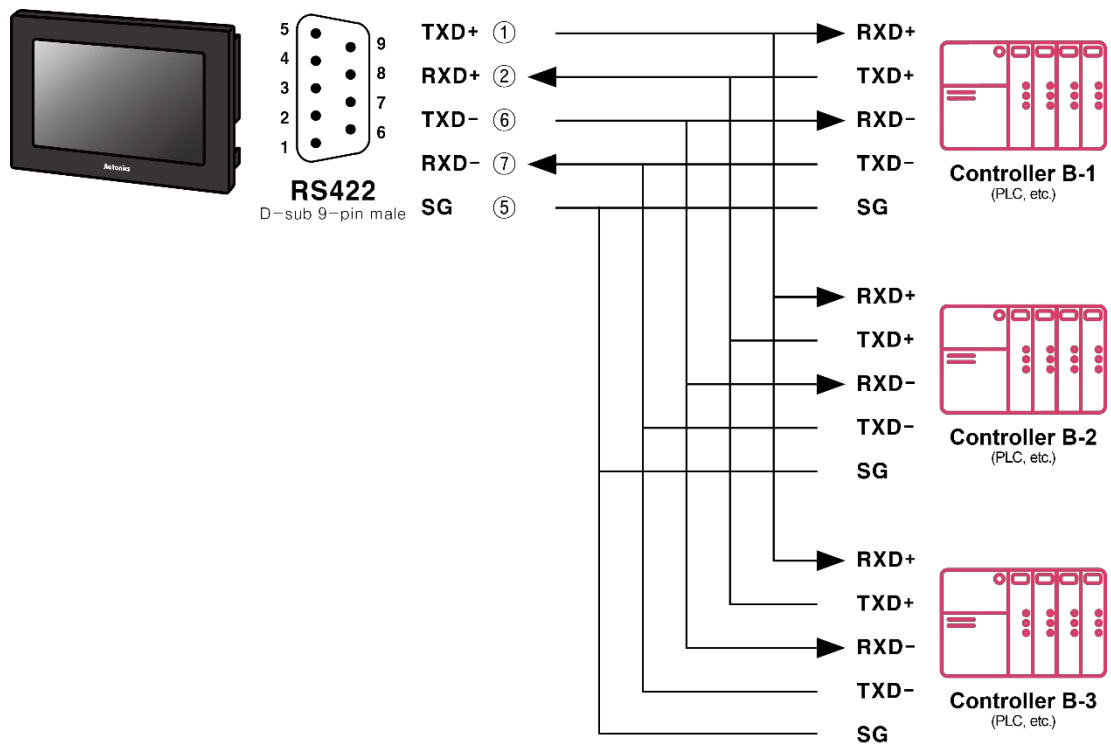
- GP/LP-A Series

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.

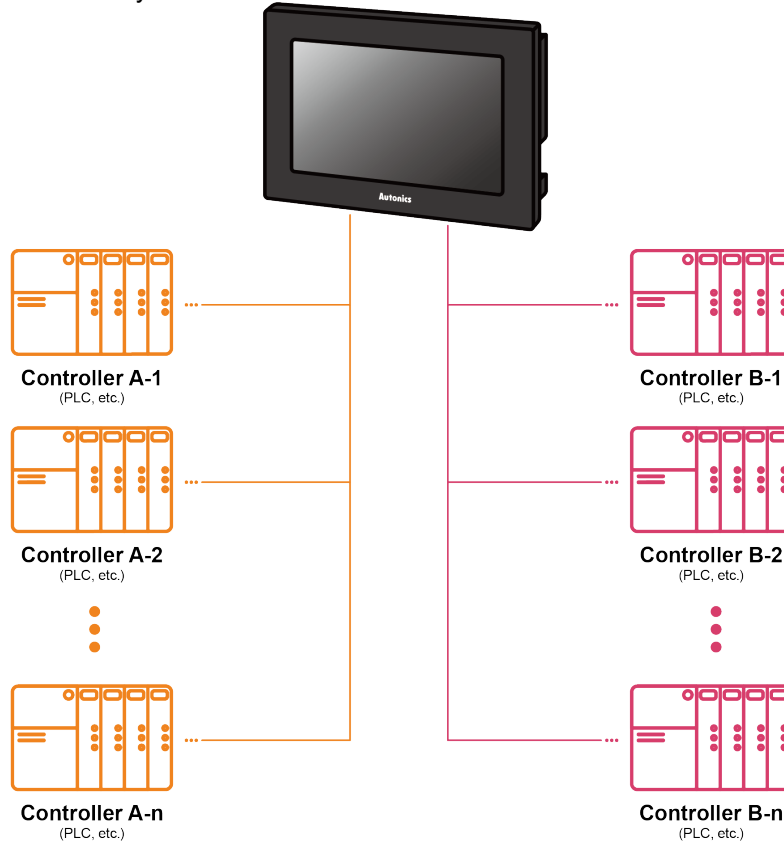
※2: Only Autonics' ARD Series can be connected to CAN port.

(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 communication 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

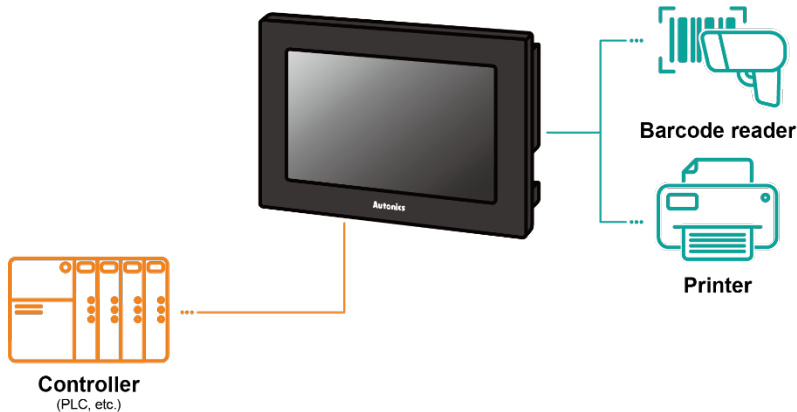
※1: Please refer to 'GP Editor User Manual' for Link device instruction.

※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 KONICS Product Connection

GP/LP is able to communicate with KONICS digital power thyristor unit DPU Series and recorder KRN50.

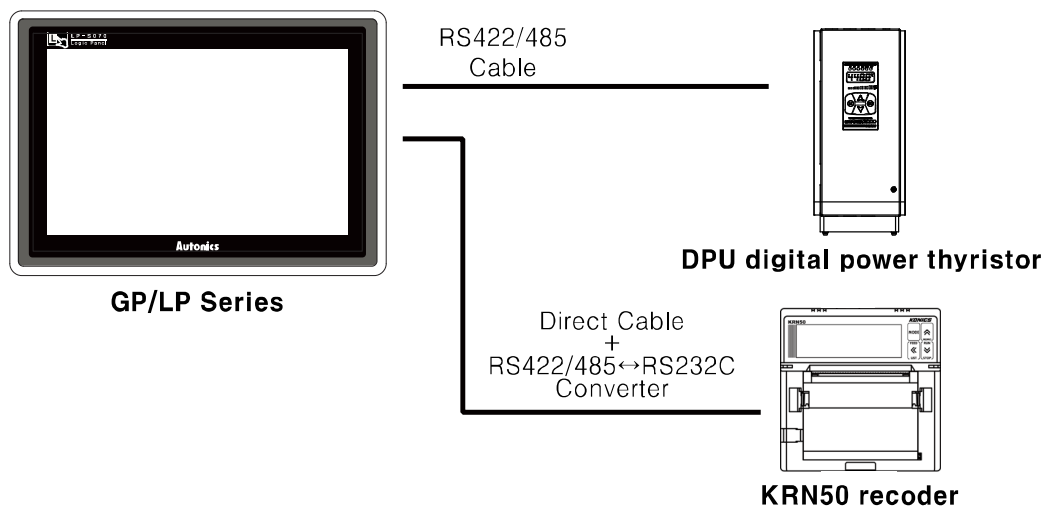
2.1.1 Connection Support Products

Controller type	Communication method	Communication type
DPU	RS485	CPU direct(Loader)
KRN50	RS485	CPU direct(Loader)

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
DPU Series	Modbus	x	○	○	○	x	x	x	x	x
	Modbus (TYPE A) ^{*1}	x	x	○	○	○	○	○	○	○
KRN50	Modbus	x	○	○	○	x	x	x	x	x
	Modbus (TYPE A) ^{*1}	x	x	○	○	○	○	○	○	○

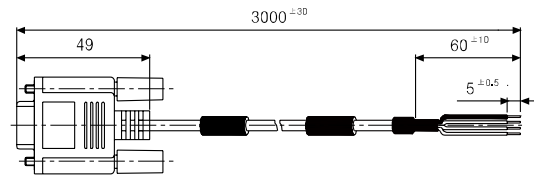
2.1.3 System Organization



KONICS DPU Series executes RS485 communication and it executes also RS232C communication with RS232/422 converter.

2.1.4 Communication Cable

- Applied cable: C3M5P03-D9M0-W4*0



2.1.5 Communication Configuration

(1) Power controller unit DPU

No	Item	Description	Note	
1	Communication mode	Modbus RTU		
2	Baud rate	38400 bps (factory default)	Selectable	
3	Data type	Data length	8 bit	Selectable
		Parity	EVEN	Selectable
		Stop bit	1 bit	Selectable
4	Address	0 to 31	Selectable	

(2) Recorder KRN50

No	Item	Description	Note	
1	Communication mode	Modbus RTU		
2	Baud rate	9600 bps (factory default)	Selectable	
3	Data type	Data length	8 bit	Selectable
		Parity	None	Selectable
		Stop bit	2 bit	Selectable
4	Address	0 to 31	Selectable	

Configure the address in GP/LP according to the above settings.

Please refer to the user manual of corresponding GP/LP product for the address configuration.

2.1.6 Available Device

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'.

2.1.6.1 Device Structure

UB	00	0
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① Device name ② Word address ③ Bit address

Type	①	②	③
Word	DP(DPU), KR(KRN50)	Word address(Hexadecimal)	

2.1.6.2 Device List

(1) Power controller unit DPU

- Modbus (DPU_Mod)

Type	Device	Mark	Range	
			Start	End
Word	Word device area	DP	DP30001	DP30005
	Word device area	DP	DP30101	DP30125
	Word device area	DP	DP40001	DP40043

Device	Description	Enable Read/Write
DP30001	Output voltage	Read
DP30002	Load current	Read
DP30003	Electric power	Read
DP30004	Load resistance	Read
DP30005	Power frequency	Read
DP30101	Product number H	Read
DP30102	Product number L	Read
DP30103	Hardware version	Read
DP30104	Software version	Read
DP30105	Model name 1	Read
DP30106	Model name 2	Read
DP30107	Model name 3	Read
DP30108	Model name 4	Read
DP30109	Model name 5	Read
DP30110	Model name 6	Read
DP30111	Model name 7	Read
DP30112	Model name 8	Read
DP30113	Model name 9	Read
DP30114	Model name 10	Read
DP30115	Reserved	Read

Device	Description	Enable Read/Write
DP30116	Reserved	Read
DP30117	Reserved	Read
DP30118	Reserved	Read
DP30118	Coil start address	Read
DP30119	Coil quantity	Read
DP30120	Input start address	Read
DP30121	Input quantity	Read
DP30122	Holding REG start address	Read
DP30123	Holding REG quantity	Read
DP30124	Input REG start address	Read
DP30125	Input REG quantity	Read

Device	Description	Enable Read/Write
DP40001	Reference Value	Read/Write
DP40002	Start Time	Read/Write
DP40003	Start Limit	Read/Write
DP40004	Soft Start Time	Read/Write
DP40005	Output upper limit	Read/Write
DP40006	Output lower limit	Read/Write
DP40007	Remote Sp1 value	Read/Write
DP40008	Remote Sp2 value	Read/Write
DP40009	Remote Sp3 value	Read/Write
DP40010	Remote Sp4 value	Read/Write
DP40011	Remote Sp5 value	Read/Write
DP40012	Remote Sp6 value	Read/Write
DP40013	Slow up time	Read/Write
DP40014	Slow stop time	Read/Write
DP40015	CL value	Read/Write
DP40016	OC value	Read/Write
DP40017	OC time	Read/Write
DP40018	OV value	Read/Write
DP40019	OV time	Read/Write
DP40020	Load detector alarm value	Read/Write
DP40021	Select display regular value	Read/Write
DP40022	Bar display mode	Read/Write
DP40023	Control integer KP value	Read/Write
DP40024	Control integer KI value	Read/Write
DP40025	Output control mode	Read/Write
DP40026	Event input 1 mode	Read/Write
DP40027	Event input 2 mode	Read/Write
DP40028	Event input 3 mode	Read/Write
DP40029	Auto ref input selector	Read/Write

Device	Description	Enable Read/Write
DP40030	Select load resistance display direction	Read/Write
DP40031	Operation status 0x000	Read/Write
DP40032	Output gradient setting (%)	Read/Write
DP40033	When input is 0%, output quantity setting (%)	Read/Write
DP40034	Input correction	Read/Write
DP40035	Input gradient correction	Read/Write
DP40036	Overcurrent alarm output setting	Read/Write
DP40037	Current alarm output setting	Read/Write
DP40038	Overvoltage alarm output setting	Read/Write
DP40039	Fuse break alarm output setting	Read/Write
DP40040	Frequency error alarm output setting	Read/Write
DP40041	Heatsink overheating alarm output setting	Read/Write
DP40042	Element error alarm output setting	Read/Write
DP40043	Heater break alarm output setting	Read/Write

- Modbus TYPE A (DPU_Mod_A)

Type	Device	Mark	Range	
			Start	End
Word	Word device area	3	300001	300005
	Word device area	3	300101	300125
	Word device area	4	400001	400043

Device	Description	Enable Read/Write
300001	Output voltage	Read
300002	Load current	Read
300003	Electric power	Read
300004	Load resistance	Read
300005	Power frequency	Read
300101	Product number H	Read
300102	Product number L	Read
300103	Hardware version	Read
300104	Software version	Read
300105	Model name 1	Read
300106	Model name 2	Read
300107	Model name 3	Read
300108	Model name 4	Read
300109	Model name 5	Read
300110	Model name 6	Read
300111	Model name 7	Read
300112	Model name 8	Read
300113	Model name 9	Read

Device	Description	Enable Read/Write
300114	Model name 10	Read
300115	Reserved	Read
300116	Reserved	Read
300117	Reserved	Read
300118	Reserved	Read
300118	Coil Start Address	Read
300119	Coil quantity	Read
300120	Input start address	Read
300121	Input quantity	Read
300122	Holding REG start address	Read
300123	Holding REG quantity	Read
300124	Input REG start address	Read
300125	Input REG quantity	Read

Device	Description	Enable Read/Write
400001	Reference Value	Read/Write
400002	Start Time	Read/Write
400003	Start Limit	Read/Write
400004	Soft Start Time	Read/Write
400005	Output upper limit	Read/Write
400006	Output lower limit	Read/Write
400007	Remote Sp1 value	Read/Write
400008	Remote Sp2 value	Read/Write
400009	Remote Sp3 value	Read/Write
400010	Remote Sp4 value	Read/Write
400011	Remote Sp5 value	Read/Write
400012	Remote Sp6 value	Read/Write
400013	Slow up time	Read/Write
400014	Slow stop time	Read/Write
400015	CL value	Read/Write
400016	OC value	Read/Write
400017	OC time	Read/Write
400018	OV value	Read/Write
400019	OV time	Read/Write
400020	Load detector alarm value	Read/Write
400021	Select display regular value	Read/Write
400022	Bar display mode	Read/Write
400023	Control integer KP value	Read/Write
400024	Control integer KI value	Read/Write
400025	Output control mode	Read/Write
400026	Event input 1 mode	Read/Write
400027	Event input 2 mode	Read/Write

Device	Description	Enable Read/Write
400028	Event input 3 mode	Read/Write
400029	Auto ref input selector	Read/Write
400030	Select load resistance display direction	Read/Write
400031	Operation status 0x000	Read/Write
400032	Output gradient setting (%)	Read/Write
400033	When input is 0%, output quantity setting (%)	Read/Write
400034	Input correction	Read/Write
400035	Input gradient correction	Read/Write
400036	Overcurrent alarm output setting	Read/Write
400037	Current alarm output setting	Read/Write
400038	Overvoltage alarm output setting	Read/Write
400039	Fuse break alarm output setting	Read/Write
400040	Frequency error alarm output setting	Read/Write
400041	Heatsink overheating alarm output setting	Read/Write
400042	Element error alarm output setting	Read/Write
400043	Heater break alarm output setting	Read/Write

(2) Recorder KRN50

- Modbus (KRN50 Mod)

Device	Description	Enable Read/Write
KR1	Starts/Stops record	Read/Write
KR2	At power ON, starts/stops record	Read/Write
KR3	When recording, whether printing setting list or not	Read/Write
KR4	Initializes setting value (Parameter initialization) * ¹	Read/Write
KR5	Memo function(Memo)	Read/Write
KR11	DI-1 input terminal function	Read/Write
KR12	DI-2 input terminal function	Read/Write
KR51	Paper feed function	Read/Write
KR52	Paper list print function	Read/Write
KR101	CH 1 display mode	Read/Write
KR102	CH 2 display mode	Read/Write
KR103	Display standard mode* ¹	Read/Write

Device	Description	Enable Read/Write
KR10001	Paper status	Read
KR10101	CH1 AL1 status	Read
KR10102	CH1 AL2 status	Read
KR10103	CH2 AL1 status	Read
KR10104	CH2 AL2 status	Read
KR10301	Digital input 1 status(DI1-Status)	Read
KR10302	Digital input 2 status(DI2-Status)	Read

Device	Description	Enable Read/Write	
KR30001	CH1-present value (PV)	Read	
KR30002	CH1	Bit position	Read
	Unit	15 to 10	Read
	Unit group	9 to 4	Read
	Status	3 to 2	Read
	Decimal point position of display value	1 to 0	Read
KR30003	CH2-present value(PV)	Read	
KR30004	CH2	Bit position	Read
	Unit	15 to 10	Read
	Unit group	9 to 4	Read
	Status	3 to 2	Read
	Decimal point position of display value	1 to 0	Read

Device	Description	Enable Read/Write
KR30101	Serial No H	Read
KR30102	Serial No L	Read
KR30103	Software Version	Read
KR30104	Hardware Version	Read
KR30105	Model Name1	Read
KR30106	Model Name2	Read
KR30107	Model Name3	Read
KR30108	Model Name4	Read
KR30109	Model Name5	Read
KR30110	Model Name6	Read
KR30111	Model Name7	Read
KR30112	Model Name8	Read
KR30113	Model Name9	Read
KR30114	Model Name10	Read
KR30118	Coil start address	Read
KR30119	Coil quantity	Read
KR30120	Input start address	Read
KR30121	Input quantity	Read
KR30122	Holding REG start address	Read
KR30123	Holding REG quantity	Read
KR30124	Input REG start address	Read
KR30125	Input REG quantity	Read

Device	Description	Enable Read/Write
KR40001	Communication address	Read/Write
KR40002	Baudrate	Read/Write
KR40003	Parity bit	Read/Write
KR40004	Stop bit	Read/Write
KR40005	Respond time	Read/Write
KR40006	Allows/Restricts communication write	Read/Write
KR40052	Year	Read/Write
KR40053	Month	Read/Write
KR40054	Day	Read/Write
KR40055	Hour	Read/Write
KR40056	Minute	Read/Write
KR40057	Second	Read/Write
KR40066	Lock setting	Read/Write
KR40067	Backlight turn ON method	Read/Write
KR40070	Using reserved record function or not	Read/Write
KR40071	Record start hour	Read/Write
KR40072	Record start minute	Read/Write
KR40073	Record end hour	Read/Write

Device	Description	Enable Read/Write
KR40074	Record end minute	Read/Write
KR40080	Record mode	Read/Write
KR40081	Record speed	Read/Write
KR40082	Digital memo cycle	Read/Write
KR40083	Record cycle	Read/Write
KR40084	Record font	Read/Write
KR40085	When alarming, record speed	Read/Write
KR40101	CH1 alarm output 1 operation mode	Read/Write
KR40102	CH1 alarm output 1 option	Read/Write
KR40103	CH1 alarm output 1 lower limit setting value	Read/Write
KR40104	CH1 alarm output 1 upper limit setting value	Read/Write
KR40105	CH1 alarm output 2 operation mode	Read/Write
KR40106	CH1 alarm output 2 option	Read/Write
KR40107	CH1 alarm output 2 lower limit setting value	Read/Write
KR40108	CH1 alarm output 2 upper limit setting value	Read/Write
KR40109	CH1 alarm output hysteresis	Read/Write
KR40110	CH2 alarm output 1 operation mode	Read/Write
KR40111	CH2 alarm output 1 option	Read/Write
KR40112	CH2 alarm output 1 lower limit setting value	Read/Write
KR40113	CH2 alarm output 1 upper limit setting value	Read/Write
KR40114	CH2 alarm output 2 operation mode	Read/Write
KR40115	CH2 alarm output 2 option	Read/Write
KR40116	CH2 alarm output 2 lower limit setting value	Read/Write
KR40117	CH2 alarm output 2 upper limit setting value	Read/Write
KR40118	CH2 alarm output hysteresis	Read/Write
KR42001~16	User unit font0	Read/Write
KR42017~32	User unit font1	Read/Write
KR42033~48	User unit font2	Read/Write
KR42049~64	User unit font3	Read/Write
KR42065~80	User unit font4	Read/Write
KR42081~96	User unit font5	Read/Write
KR42097~112	User unit font6	Read/Write
KR420113~128	User unit font7	Read/Write
KR420129~144	User unit font8	Read/Write
KR420145~160	User unit font9	Read/Write
KR40301	CH1 use/recording or not	Read/Write
KR40302	CH1 input specification	Read/Write
KR40303	CH1 temperature unit	Read/Write
KR40304	CH1 graph lower limit scale value	Read/Write
KR40305	CH1 graph upper limit scale value	Read/Write
KR40306	CH1 lower limit input value	Read/Write
KR40307	CH1 upper limit input value	Read/Write

Device	Description	Enable Read/Write
KR40308	None	Read/Write
KR40309	CH1 lower limit scale display value	Read/Write
KR40310	CH1 upper limit scale display value	Read/Write
KR40311	CH1 decimal point position of scale	Read/Write
KR40312	CH1 record display unit	Read/Write
KR40313	CH1 temperature unit	Read/Write
KR40314	CH1 CH name □□□□	Read/Write
KR40315		
KR40319	CH2 use/recording or not	Read/Write
KR40320	CH2 input specification	Read/Write
KR40321	CH2 temperature unit	Read/Write
KR40322	CH2 graph lower limit scale value	Read/Write
KR40323	CH2 graph upper limit scale value	Read/Write
KR40324	CH2 lower limit input value	Read/Write
KR40325	CH2 upper limit input value	Read/Write
KR40326	None	Read/Write
KR40327	CH2 lower limit scale display value	Read/Write
KR40328	CH2 upper limit scale display value	Read/Write
KR40329	CH1 decimal point position of scale	Read/Write
KR40330	CH2 record display unit	Read/Write
KR40331	CH2 input correction	Read/Write
KR40332~40333	CH2 CH name	Read/Write
KR50001~52048	User Logo	

- Modbus TYPE A (KRN50 Mod A)

Device	Description	Enable Read/Write
000001	Starts/Stops record	Read/Write
000002	At power ON, starts/stops record	Read/Write
000003	When recording, whether printing setting list or not	Read/Write
000004	Initializes setting value (Parameter initialization) ※ ¹	Read/Write
000005	Memo function(Memo)	Read/Write
000011	DI-1 input terminal function	Read/Write
000012	DI-2 input terminal function	Read/Write
000051	Paper feed function	Read/Write
000052	Paper list print function	Read/Write
000101	CH 1 display mode	Read/Write
000102	CH 2 display mode	Read/Write
000103	Display standard mode※ ¹	Read/Write

Device	Description	Enable Read/Write
100001	Paper status	Read
100101	CH1 AL1 status	Read
100102	CH1 AL2 status	Read
100103	CH2 AL1 status	Read
100104	CH2 AL2 status	Read
100301	Digital input 1 status(DI1-Status)	Read
100302	Digital input 2 status(DI2-Status)	Read

Device	Description	Enable Read/Write	
300001	CH1- present value (PV)	Read	
300002	CH1	Bit position	Read
	Unit	15 to 10	Read
	Unit group	9 to 4	Read
	Status	3 to 2	Read
	Decimal point position of display value	1 to 0	Read
300003	CH2- present value (PV)	Read	
300004	CH2	Bit position	Read
	Unit	15 to 10	Read
	Unit group	9 to 4	Read
	Status	3 to 2	Read
	Decimal point position of display value	1 to 0	Read
300101	Serial No H	Read	
300102	Serial No L	Read	
300103	Software Version	Read	
300104	Hardware Version	Read	
300105	Model Name1	Read	
300106	Model Name2	Read	
300107	Model Name3	Read	
300108	Model Name4	Read	
300109	Model Name5	Read	
300110	Model Name6	Read	
300111	Model Name7	Read	
300112	Model Name8	Read	
300113	Model Name9	Read	
300114	Model Name10	Read	
300118	Coil start address	Read	
300119	Coil quantity	Read	
300120	Input start address	Read	
300121	Input quantity	Read	
300122	Holding REG start address	Read	
300123	Holding REG quantity	Read	

Device	Description	Enable Read/Write
300124	Input REG start address	Read
300125	Input REG quantity	Read

Device	Description	Enable Read/Write
400001	Communication address	Read/Write
400002	Baudrate	Read/Write
400003	Parity bit	Read/Write
400004	Stop bit	Read/Write
400005	Respond time	Read/Write
400006	Allows/Restricts communication write	Read/Write
400052	Year	Read/Write
400053	Month	Read/Write
400054	Day	Read/Write
400055	Hour	Read/Write
400056	Minute	Read/Write
400057	Second	Read/Write
400066	Lock setting	Read/Write
400067	Backlight turn ON method	Read/Write
400070	Using reserved record function or not	Read/Write
400071	Record start hour	Read/Write
400072	Record start minute	Read/Write
400073	Record end hour	Read/Write
400074	Record end minute	Read/Write
400080	Record mode	Read/Write
400081	Record speed	Read/Write
400082	Digital memo cycle	Read/Write
400083	Record cycle	Read/Write
400084	Record font	Read/Write
400085	When alarming, record speed	Read/Write
400101	CH1 alarm output 1 operation mode	Read/Write
400102	CH1 alarm output 1 option	Read/Write
400103	CH1 alarm output 1 lower limit setting value	Read/Write
400104	CH1 alarm output 1 upper limit setting value	Read/Write
400105	CH1 alarm output 2 operation mode	Read/Write
400106	CH1 alarm output 2 option	Read/Write
400107	CH1 alarm output 2 lower limit setting value	Read/Write
400108	CH1 alarm output 2 upper limit setting value	Read/Write
400109	CH1 alarm output hysteresis	Read/Write
400110	CH2 alarm output 1 operation mode	Read/Write

Device	Description	Enable Read/Write
400111	CH2 alarm output 1 option	Read/Write
400112	CH2 alarm output 1 lower limit setting value	Read/Write
400113	CH2 alarm output 1 upper limit setting value	Read/Write
400114	CH2 alarm output 2 operation mode	Read/Write
400115	CH2 alarm output 2 option	Read/Write
400116	CH2 alarm output 2 lower limit setting value	Read/Write
400117	CH2 alarm output 2 upper limit setting value	Read/Write
400118	CH2 alarm output hysteresis	Read/Write
402001~16	User unit font0	Read/Write
402017~32	User unit font1	Read/Write
402033~48	User unit font2	Read/Write
402049~64	User unit font3	Read/Write
402065~80	User unit font4	Read/Write
402081~96	User unit font5	Read/Write
402097~112	User unit font6	Read/Write
402113~128	User unit font7	Read/Write
402129~144	User unit font8	Read/Write
402145~160	User unit font9	Read/Write
400301	CH1 use/recording or not	Read/Write
400302	CH1 input specification	Read/Write
400303	CH1 temperature unit	Read/Write
400304	CH1 graph lower limit scale value	Read/Write
400305	CH1 graph upper limit scale value	Read/Write
400306	CH1 lower limit input value	Read/Write
400307	CH1 upper limit input value	Read/Write
400308	None	Read/Write
400309	CH1 lower limit scale display value	Read/Write
400310	CH1 upper limit scale display value	Read/Write
400311	CH1 decimal point position of scale	Read/Write
400312	CH1 record display unit	Read/Write
400313	CH1 temperature unit	Read/Write
400314	CH1 CH name □□□□	Read/Write
400315		
400319	CH2 use/recording or not	Read/Write
400320	CH2 input specification	Read/Write
400321	CH2 temperature unit	Read/Write
400322	CH2 graph lower limit scale value	Read/Write
400323	CH2 graph upper limit scale value	Read/Write
400324	CH2 lower limit input value	Read/Write
400325	CH2 upper limit input value	Read/Write

Device	Description	Enable Read/Write
400326	None	Read/Write
400327	CH2 lower limit scale display value	Read/Write
400328	CH2 upper limit scale display value	Read/Write
400329	CH1 decimal point position of scale	Read/Write
400330	CH2 record display unit	Read/Write
400331	CH2 input correction	Read/Write
400332~400333	CH2 CH name	Read/Write
450001~452048	User Logo	

2.1.7 Monitorable Device in GP/LP

GP/LP is able to monitor PLC device and change the status.

The following is available device list of this menu, please refer to 'Available device' for available device range.

2.1.7.1 Power controller unit DPU

(1) Modbus

Type	Mark	Device
Word	DP	Word device area

(2) Modbus TYPE A

Type	Mark	Device
Word	3	Word device area
	4	Word device area

2.1.7.2 Recorder KRN50

(1) Modbus

Type	Mark	Device
Bit	KR	Bit device area
Word	KR	Word device area

(2) Modbus TYPE A

Type	Mark	Device
Bit	0	Bit device area
	1	Bit device area
Word	3	Word device area
	4	Word device area

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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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