Autonics

- Observe all 'Safety Considerations' for safe and proper operation to avoid hazards.
- ▲ symbol indicates caution due to special circumstances in which hazards may occur.

Warning Failure to follow instructions may result in serious injury or death.

- 01. Fail-safe device must be installed when using the unit with machinery that may cause serious injury or substantial economic loss. (e.g. nuclear power control, medical equipment, ships, vehicles, railways, aircraft, combustion apparatus, safety equipment, crime/disaster prevention devices, etc.) Failure to follow this instruction may result in personal injury, economic loss or fire
- 02. Do not use the unit in the place where flammable/explosive/corrosive gas, high humidity, direct sunlight, radiant heat, vibration, impact, or salinity may be present.
- . Failure to follow this instruction may result in explosion or fire 03. Use the unit within the rated specifications.

Safety Considerations

- Failure to follow this instruction may result in fire or shortening the life cycle of the product. 04. Do not connect, repair, or inspect the unit while connected to a power source.
- Failure to follow this instruction may result in fir Check 'Power Wiring' and 'Serial Interface' before wiring. Failure to follow this instruction may result in fire.
- 06. In preparation for product damage, communication error, or malfunction, install external limit switch, emergency stop switch, or other protection circuit. Failure to follow this instruction may result in personal injury, economic loss or fire. 07. Since Lithium battery is embedded in the product, do not disassemble or burn the
- unit.
- Failure to follow this instruction may result in fire.
- **08.** Do not disassemble or modify the unit. Failure to follow this instruction may result in fire.
- 09. Please contact to us for battery replacement. Using an unauthentic battery may result in fire or product damage

Caution Failure to follow instructions may result in injury or product damage.

- 01. Use dry cloth to clean the unit, and do not use water or organic solvent. ailure to follow this instruction may result in electric shock or fire
- 02. When connecting the power input, use AWG 23 cable or over and tighten the terminal screw with a tightening torque of 0.5 to 0.8 N·m.
 Failure to follow this instruction may result in fire or malfunction due to contact failure.
 03. Keep the product away from metal chip, dust, and wire residue which flow into the
- unit.
- Failure to follow this instruction may result in fire or product damage
- 04. Do not touch the front LCD screen over 2 points at the same time. Failure to follow this instruction may result in malfunction
- 05. Do not put any heavy object on the front screen. Failure to follow this instruction may result in malfunction due to deformation of LCD and touch panel.

Cautions during Use

- Follow instructions in 'Cautions during Use'. Otherwise, it may cause unexpected accidents.
 Power supply should be insulated and limited voltage/current or Class 2, SELV power supply device
- Install a power switch or circuit breaker in the easily accessible place for supplying or disconnecting the power.
- Operate the product after supplying power to the product, input/output equipment, and load. If operate product before supplying power, it may result in output error or malfunction. • Use a USB cable within 2 m.
- Keep away from high voltage lines or power lines to prevent inductive noise. Do not use near the equipment which generates strong magnetic force or high frequencies noise.
 Make a required space around the unit for radiation of heat, and do not block ventilation
- openings.
- . Do not push the touch panel with a hard and sharp object or push the panel with excessive force. It may result in fire or malfunction.
- When skin is smeared with liquid crystal from the broken LCD, rinse with running water for over 15 minutes. If it gets into the eyes, rinse eyes with running water for over 15 minutes and contact a doctor.

Color LCD Graphic Panel



GP-A Series PRODUCT MANUAL

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.

The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Features

- · Equipped with TFT LCD for realizing True color
- · Horizontal/Vertical installation according to environment
- Available to monitor device of the connected controllers even without user screen data
- Using user screen drawing program 'atDesigner'
- : More variety functions, objects and library image
- : Intuitive user interface
- : Multilingual table function: switching language of user screen by touching a button
- Various communication interface: RS232C, RS422, Ethernet, CAN

- When changing the battery, contact Autonics service center to change it. Using unauthentic This unit may be used in the following environments.
 Indoors (in the environment condition rated in 'Specifications')
- Altitude max. 2,000 m Pollution degree 2
- Installation category II

Cautions during Wiring

- Do not apply power before power line connection.
- Check power polarity.
- For power supply, use the wire of which cross section is at least 0.75 mm² and use the wire of which cross section is at least 1.25 mm² for grounding.
- Use ring crimp terminal with at least 3 mm of internal diameter and less than 6 mm of external diameter.
- Tighten the terminal screw with 0.5 to 0.8 N·m torque. Ground resistance should be less than 100 Ω and ground it separately.

Product Components

· Graphic panel + built in battery Sold separately: communication cable • 4.6 / 5.7 / 7.0 inch: 4 fixing brackets • 10.4 inch: 6 fixing brackets, CAN connector

Software

Visit Autonics web site to download software and manuals.

atDesigner

atDesigner is a dedicated screen editor software used to create, edit, and monitor the screen data of LP/GP-A devices. All data arrangement, layout, shapes, properties can be edited using atDesigner. The screen data, project admin account, security level, language, and script can all.

Firmware

Please refer to 'GP-A Series user manual' for firmware upgrade.

Manuals

For the detailed information and instructions, please refer to the manuals, and be sure to follow cautions written in the technical descriptions.

Visit Autonics website to download manuals.

GP-A Series user manual

It describes general information about installation and system of GP-A Series.

atDesigner user manual

It describes how to design user screen and how to use HMI function.

GP/LP user manual for communication

It describes how to connect with external devices such as PLC.

Ordering Information

This is only for reference, the actual product does not support all combinations. For selecting the specified model, follow the Autonics website.

GP Α 0 т 2 D ß -

O Screen size

046: 4.6 inch 057: 5.7 inch

070: 7.0 inch

104: 10.4 inch

O Display color

8: 262.144 color 9: 16,777,216 color

Interface

Model	8	RS232C	RS422	CAN	Micro SD	USB Host	USB Device	Ethernet
GP-A	6	1	1	-	-	1 1		
046/057/070	7	2	-	-	-			
CD 4104	8	1	1	1	1		1	
GP-A104	9	2	-	1	1			

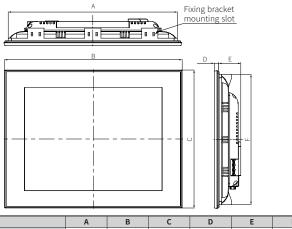
Specification	13										
Model		4046	GP-A057			P-A070		GP-A104			
Screen size	4.6 ir		5.7 inch	1	7.0 inch	1	1	0.4 iı	nch		
LCD type Resolution		Color LCD <320 pixel	640×480	nixel 8	300×48	80 nixe	1 8	00×	600 pixel		
Pixel pitch (W×H)		× 0.13 mm	0.18×0.1		0.19 × 0.19 mm				< 0.26 mm		
Display area	108>	<43.2 mm	115.2×86	.4 mm 🛽	154.4×	93.44 r	nm 2	11.2	×158.4 mr		
Display color	16,7	77,216 colors	262,144 co	olors 1	16,777,2	216 col	ors 1	6,77	7,216 colo		
LCD view angle (top/bottom/left/		in 75°/70°	Within 70°		Nithin 5				n 60°/70°		
right)	/80°/	80° of each	/80°/80° o	feach /	/65°/65	° of eac	:h /8	80%7	′0° of each		
Backlight		eLED),000 hours ⁰	1)								
Backlight life cycle Luminance adjust-											
ment	Adju	stable by soft	able by software								
Touch	Anal	og resistive film method									
Touch panel resolution	800	imes 320 cell	640 imes 48	0 cell 8	300×4	480 cel	.l 8	00 ×	600 cell		
Touch panel life	> 1	million times									
cycle Sound		netic buzzer (\geq 85 dB)									
Approval	CE [∠ 65 UB)								
Unit weight	≈ 27		≈ 489 g		≈ 520 g			≠ 1.0			
(packaged)		82 g)	(≈ 644 g)		≈ 706	g)	(:	≈ 1.6	62 kg)		
01) Based on 25 °C, time	until b	-			isly ON						
Serial interface		RS232C, RS4 Host: USB 2.			vice: L	58201	mini	B/ ~	1		
USB interface USB HOST power su	pply	Host. USB 2. 5 VDC== $\pm 5^{\circ}$		∧⊥,De	vice. US	od 2.0 (IUI-	о) X	1		
USB HOST output	1, 1, 1, 1										
current		500 mA									
USB comm. distance Ethernet interface	5	Host: < 2 m Ethernet: IEE			laco-T	conne	ctor"	DIVE			
CAN interface		24V CAN tra		, 10/100E	ase"I,	conne		.J40			
External storage		Micro SD ma		AT16/32)						
Printer		PCL3 GUI pr									
Processor		ATMEL ARM Cortex-A5 Single core (536 MHz)									
RAM Flash		DDR2 133 MHz 256 MB 256 MB									
Backup memory		SRAM 1MB (lithium battery(1/2 AA))									
Backuptype		Logging/alarm, non-volatile device									
Battery life cycle	5 years at 25°C										
Clock		RTC embedded erent up to model. For the detailed information, refer to 'Ordering Information'.									
		rent up to mode 64MB	el. For the de	tailed infor	mation,	reter to	Orderii	ng Inf	ormation'.		
Memory for user sc Number of user scr		100 pages									
System menu langı		Korean, Engl	ish								
Font		Bitmap font:			× 16, 3	2 × 32	pixel				
Font magnification		Vector font: 5 to 625 pixel Bitmap fonts: 1 to 8 times width / height									
		Characters Pixel GP-A046 GP-A057 GP-A070 GP-A104									
Number of display		English /	6 × 8	133 × 40 106 × 60		× 60	133 × 60 13		133×75		
Number of display characters		Numbers	8×8	100×4	0 80 ×	< 60	$100 \times$) × 60 100 × 7			
(character $ imes$ line)		Korean / Chinese	16×16	50 × 20	40 ×	30	50 ×	30	50 × 37		
		characters	10 ~ 10	50 ~ 20	40 ^	\$ 30 .		30	20 × 21		
Power supply		24 VDC==									
Allowable voltage r	ange		f power su	anlı							
				υριγ							
Allowable moment	ary	< 10 ms		эріу							
Allowable moment	ary	\leq 10 ms			10	00.00	7/0-	1.00			
Allowable moment	ary		· · ·	GP-A0		GP-A05					
Allowable moment	ary	Power cons	umption	GP-A0 ≤ 4.8	W	≤ 7.2 \		\leq	8 W		
Allowable moment outage time	-	Power const Excluding e supply pow	umption xternal er	GP-A0	W			\leq			
Allowable moment outage time	-	Power const Excluding e supply pow Backlight O	umption xternal er FF	GP-A0 ≤ 4.8	W /	≤ 7.2 \	N	≤ ≤	8 W		
Allowable moment outage time	-	Power const Excluding e supply pow	umption xternal er FF ode)	$GP-A0$ ≤ 4.8 $\leq 4 W$ ≤ 3.3	W / W	≤ 7.2 V ≤ 6 W ≤ 4.5 V	N		8 W 7 W 5 W		
Allowable moment outage time	-	Power conse Excluding e supply pow Backlight O (standby m	umption xternal er FF ode) N (based	GP-A0 ≤ 4.8 ≤ 4 W	W / W	\leq 7.2 V \leq 6 W	N		8 W 7 W		
Allowable moment outage time Power consumption Inrush current	n	Power consi Excluding e supply pow Backlight O (standby m Backlight O on 20% brig ≤ 20 A	umption xternal er FF ode) N (based ghtness)		W / W W	$\leq 7.2 \text{ V}$ $\leq 6 \text{ W}$ $\leq 4.5 \text{ V}$ $\leq 5 \text{ W}$	N	≤ ≤ ≤ ≤ ≤	8 W 7 W 5 W 5.5 W		
Allowable moment outage time Power consumption Inrush current Insulated resistanc	n	Power consi Excluding e supply pow Backlight O (standby m Backlight O on 20% brig ≤ 20 A Between all 1	umption xternal er FF ode) N (based ghtness)		W / W W	$\leq 7.2 \text{ V}$ $\leq 6 \text{ W}$ $\leq 4.5 \text{ V}$ $\leq 5 \text{ W}$	N	≤ ≤ ≤ ≤ ≤	8 W 7 W 5 W 5.5 W		
Allowable moment outage time Power consumptio Inrush current Insulated resistanc Surge voltage	n	Power consi Excluding e supply pow Backlight O (standby m Backlight O on 20% brig ≤ 20 A Between all 1 ± 500 V	umption xternal er FF ode) N (based ghtness) terminals a	GP-A0 ≤ 4.8 ≤ 4 W ≤ 3.3 ≤ 3.5 nd case:	W / W W	$\leq 7.2 \text{ V}$ $\leq 6 \text{ W}$ $\leq 4.5 \text{ V}$ $\leq 5 \text{ W}$	N	≤ ≤ ≤ ≤ ≤	8 W 7 W 5 W 5.5 W		
Allowable moment outage time Power consumptio Inrush current Insulated resistanc Surge voltage Ground	n	Power consi Excluding e supply pow Backlight O (standby m Backlight O on 20% brig ≤ 20 A Between all 1	umption xternal er FF odde) N (based ghtness) et control and ghtness) et control and ghtness et control and ghtne	GP-A0 ≤ 4.8 ≤ 4 W ≤ 3.3 ≤ 3.5 nd case:	W / W W	$\leq 7.2 \text{ V}$ $\leq 6 \text{ W}$ $\leq 4.5 \text{ V}$ $\leq 5 \text{ W}$	N	≤ ≤ ≤ ≤ ≤	8 W 7 W 5 W 5.5 W		
Allowable moment outage time Power consumption Inrush current Insulated resistanc Surge voltage Ground Cooling method Noise immunity	n	Power consi Excluding e supply pow Backlight O (standby m Backlight O on 20% brig \$\$ 20 A Between all 1 ± 500 V 3rd groundir	umption xternal er FF odde) N (based ghtness) terminals a $rg (\leq 100 C ooling$		W / / W W ≥ 100	≤ 7.2 V ≤ 6 W ≤ 4.5 V ≤ 5 W M Ω (50	N N D0 VD0	≤ ≤ ≤ C== r	8 W 7 W 5 W 5.5 W negger)		
Allowable moment outage time Power consumption Inrush current Insulated resistanc Surge voltage Ground Cooling method Noise immunity Static discharge	n	Power consi Excluding e supply pow Backlight O (standby m Backlight O on 20% brig $\leq 20 A$ Between all t $\pm 500 V$ 3rd groundir Natural air c	umption xternal er FF ode) N (based ghtness) terminals a eg ($\leq 100 C$ ooling ave noise (p	$GP-A0$ ≤ 4.8 $\leq 4 W$ ≤ 3.3 ≤ 3.5 Ind case: (2)	W / / W W ≥ 100	≤ 7.2 V ≤ 6 W ≤ 4.5 V ≤ 5 W M Ω (50	N N D0 VD0	≤ ≤ ≤ C== r	8 W 7 W 5 W 5.5 W negger)		
Allowable moment outage time Power consumption Inrush current Insulated resistanc Surge voltage Ground Cooling method Noise immunity Static discharge endurance	n	Power consi Excluding e supply pow Backlight O (standby m Backlight O on 20% brig ≤ 20 A Between all f ± 500 V 3rd groundir Natural air c The square w Contact disc	umption xternal er FF ode) N (based ghtness) terminals a $rg (\leq 100 C$ ooling ave noise (p tharge ± 5	$GP-A0 \le 4.8 \le 4.8 \le 3.3 \le 3.5$ $Geodesical and case: (Constraints) and case (Constraints)$	W / W ≥ 100	$\leq 7.2 \text{ M}$ $\leq 6 \text{ W}$ $\leq 4.5 \text{ M}$ $\leq 5 \text{ W}$ $M\Omega (50)$ $= 0$ $= 0$	W W D0 VD0 Dise sin	≤ ≤ ≤ C==r	8 W 7 W 5 W 5.5 W negger) tor ± 0.5 k		
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Allowable moment outage time Power consumption Inrush current Insulated resistanc Surge voltage Ground Cooling method Noise immunity Static discharge endurance Dielectric strength	n	Power consi Excluding e supply pow Backlight O (standby m Backlight Q on 20% brig \leq 20 A Between all f \pm 500 V 3rd groundir Natural air c The square w Contact disc 500 VAC~ 50 0.75 double a direction for	umption xternal er FF ode) N (based ghtness) terminals a g($\leq 100 \text{ C}$ ooling ave noise (p charge ± 5)/60 Hz for 1 amplitude a 1 hour		W / W W ≥ 100 h: 1µs) b (betwee hcy of 1	$\leq 7.2 \text{ V}$ $\leq 6 \text{ W}$ $\leq 4.5 \text{ V}$ $\leq 5 \text{ W}$ $M\Omega (50)$ $= n all technology the noise of the technology the set of techn$	N N D00 VD0 D05e sin	≤ ≤ ≤ C== r mula	8 W 7 W 5 W 5.5 W tor ± 0.5 k tor ± 0.5 k		
Allowable moment outage time Power consumption Inrush current Insulated resistanc Surge voltage Ground Cooling method Noise immunity Static discharge endurance Dielectric strength Vibration	e	Power consi Excluding e supply pow Backlight O (standby m Backlight O on 20% brig \leq 20 A Between all f \pm 500 V 3rd groundir Natural air c The square w Contact disc 500 VAC~ 50 0.75 double a 0.55 double an	umption xternal er FF ode) N (based phtness) terminals a eg (≤ 100 C ooling ave noise (p sharge \pm 5 //60 Hz for 1 amplitude a hour		W / W W ≥ 100 h: 1µs) b (betwee hcy of 1	$\leq 7.2 \text{ V}$ $\leq 6 \text{ W}$ $\leq 4.5 \text{ V}$ $\leq 5 \text{ W}$ $M\Omega (50)$ $= n all technology the noise of the technology the set of techn$	N N D00 VD0 D05e sin	≤ ≤ ≤ C== r mula	8 W 7 W 5 W 5.5 W tor ± 0.5 k tor ± 0.5 k		
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Allowable moment outage time Power consumption Inrush current Insulated resistanc Surge voltage Ground Cooling method Noise immunity Static discharge endurance Dielectric strength Vibration Vibration (malfunct Shock Shock (malfunction	n e 	Power consi Excluding e supply pow Backlight O (standby m Backlight O on 20% brig \leq 20 A Between all 1 \pm 500 V 3rd groundir Natural air c The square w Contact disc 500 VAC~ 50 0.75 double a direction for 0.5 double a direction for 147 m/s ² (ap) 100 m/s ² (ap) 0 to 50°C, stc	umption xternal er FF ode) N (based ghtness) terminals a eg ($\leq 100 \text{ C}$ ooling ave noise (p tharge ± 5 //60 Hz for 1 mplitude a 10 minutes prox. 15G) prox. 15G) rage: -20 tc		W / W W W W ≥ 100	≤ 7.2 (≤ 6 W ≤ 4.5 h) ≤ 5 W M Ω (50 ≤ 5 W mov the number of the section of the secti	N N DOO VDO DOSE SIN HZ IN 6 HZ IN 6 IZ IN 6 Tor 3 til for 3 til	≤ ≤ ≤ C== r mula als ar each ach >	8 W 7 W 5.5 W negger) tor ± 0.5 k nd case) X, Y, Z		
Allowable moment outage time Power consumption Inrush current Insulated resistanc Surge voltage Ground Cooling method Noise immunity Static discharge endurance Dielectric strength Vibration Vibration (malfunct Shock Shock (malfunctior Ambient temperatu	n e 	Power consi Excluding e supply pow Backlight O (standby m Backlight O on 20% brig \leq 20 A Between all f \pm 500 V 3rd groundir Natural air c The square w Contact disc 500 VAC~ 50C 0.75 double a direction for 0.5 double and direction for 147 m/s ² (ap) 100 m/s ² (ap) 0 to 50°C, stc environment	umption xternal er FF ode) N (based phtness) terminals a er er ing ($\leq 100 \text{ C}$ ooling ave noise (p iharge ± 5 i/60 Hz for 1 amplitude a 10 minutes prox. 15 G) prox. 10 G) rage: -20 tc t)		W / / W W W ≥ 100 // betweet // betweet // cy of 1 // y,Z dim Y,Z dim // y,Z dim	≤ 7.2 (≤ 6 W ≤ 4.5) ≤ 5 W M Ω (50 ≤ 5 W ≤ 5 W ≤ 100 (≤ 100) ≤ 100 (≤ 100) ≤ 100 (≤ 100) ≤ 100) ≤ 100 (≤ 100) ≤ 100) ≤ 100 (≤ 100) ≤ 100 (≤ 100) ≤ 100) ≤ 100 (≤ 1000) ≤ 100 (≤ 100) ≤ 100 (≤ 1000) ≤ 100 (≤ 100	W W D0 VD0 D0 vD0 Prmina Hz in e for 3 ti for 3 ti for 3 ti	Service Servic	8 W 7 W 5 W 5.5 W tor ± 0.5 k tor ± 0.5 k x, y, Z (, y, Z		
Allowable moment outage time Power consumption Inrush current Insulated resistanc Surge voltage Ground Cooling method Noise immunity Static discharge endurance Dielectric strength Vibration Vibration Vibration (malfunction Shock Shock (malfunctior Ambient temperatu Ambient humidity Protection structur	n e cion) i) irre	Power consi Excluding e supply pow Backlight O (standby m Backlight O on 20% brig \leq 20 A Between all 1 \pm 500 V 3rd groundir Natural air c The square w Contact disc 500 VAC~ 50 0.75 double a direction for 0.5 double a direction for 147 m/s ² (ap) 100 m/s ² (ap) 0 to 50°C, stc	umption xternal er FF ode) N (based ghtness) terminals a $g(\leq 100 C$ ooling ave noise (p cooling ave noise (p cooling cooling ave noise (p cooling cooling ave noise (p cooling cooling cooling ave noise (p cooling cool	$\begin{array}{ c c c c }\hline & GP-A0 \\ & \leq 4.8 \\ & \leq 4.8 \\ & \leq 3.3 \\ & \leq 3.5 \\ \hline & \\ & \leq 3.5 \\ \hline & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\$	W / / W W W ≥ 100 // betweet // betweet // cy of 1 // y,Z dim Y,Z dim // y,Z dim	≤ 7.2 (≤ 6 W ≤ 4.5) ≤ 5 W M Ω (50 ≤ 5 W ≤ 5 W ≤ 100 (≤ 100) ≤ 100 (≤ 100) ≤ 100 (≤ 100) ≤ 100) ≤ 100 (≤ 100) ≤ 100) ≤ 100 (≤ 100) ≤ 100 (≤ 100) ≤ 100) ≤ 100 (≤ 1000) ≤ 100 (≤ 100) ≤ 100 (≤ 1000) ≤ 100 (≤ 100	W W D0 VD0 D0 vD0 Prmina Hz in e for 3 ti for 3 ti for 3 ti	Service Servic	8 W 7 W 5 W 5.5 W tor ± 0.5 kt tor ± 0.5 kt tor ± 0.5 kt tor ± 0,5 kt tor ± 0,5 kt tor ± 0,5 kt		

Case ABS flame retardant

Material

Dimensions

• Unit: mm, For the detailed dimensions of the product, follow the Autonics web site.

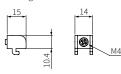


	~				-	
4.6 inch	135	143.5	75.5	6.5	36	67
5.7 inch	160	168.5	128.5	6.5	36	120
7.0 inch	185	194	134	6.5	28.5	125
10.4 inch	260	273	212	7.2	34	200

• Panel cut-out

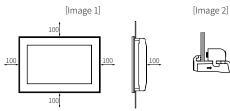
	Α	В	С
4.6 inch	135.5 ^{+1.1}	67.5 ^{+1.1}	\leq 4-R3
5.7 inch	160.5 ^{+1.0}	120.5+1.0	\leq 4-R3
7.0 inch	186'0	126+1.0	\leq 4-R3
10.4 inch	260.5 ^{*1.1}	200.5 0 10	\leq 4-R3

• Fixing bracket



Installation

- 1. Set the product in panel. (panel thickness: \leq 4mm)
- When installing GP-A104 on panel, make 100mm of space from upper, lower, right, left side of the product on the panel and back side of panel. It is for preventing effect of electromagnetic waves and heat from other controllers. [Image 1]
- 2. Set fixing brackets in the fixing bracket mounting slots. [Image 2]
- 3. Tighten the fixing bracket with M4 Screw driver and tightening torque is 0.5 to 0.6N · m.





(unit: mm)

Interface

Interface is different up to the model.

For the detailed information about each interface, refer to the GP-A Series user manual and GP/LP user manual for communication.

Serial port (RS232C/RS422)

S232C	232C			RS422				
ort	ort		function	Port Pin	Pin function			
		1	N/A	1	TXD+			
5	2	2	RXD	$1 \circ 2$	RXD+			
4	9	3	TXD	$2 \circ 6 3$	N/A			
3	8	4	DTR	0 7 4	N/A			
	7	5	SG	O O O O O O O O O O	SG			
2	6	6	DSR		TXD-			
)	7	N/A		RXD-			
		8	N/A	8	N/A			
D-sub 9 Pin Male		9	N/A	D-sub 9 Pin Female 9	N/A			

USB port

Туре	Port	Function
USB Host		 Coping data between storage and GP Firmware upgrade Connecting external device (bar-code reader, printer, etc.) External memory: max. 32GB (supported file system: FAT16, FAT32)
USB Device		 atDesigner project upload/download

Use a USB cable within 2 m.

Ethernet port

It is available to upload/download project file by connecting PC and atDesigner, and monitor PLC which supports Ethernet communication protocol.

CAN port

Number	Color	Function	Configuration
1	Black	24VDC==(-)	/-\ I V-
2	Blue	CAN_L	CAN L
3	None	SHIELD	SHIELD (.
4	White	CAN_H] _/ ☆ □ can_H (•
5	Red	24VDC==(+)	

Micro SD

External memory: max. 32GB (supported file system: FAT16, FAT32)