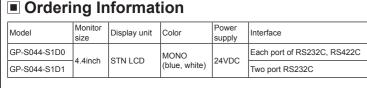
DRW171168AA Autonics **Graphic Panel GP-S044** INSTRUCTION MANUAL Thank you for choosing our Autonics product. Please read the following safety considerations before use. Safety Considerations *Please observe all safety considerations for safe and proper product operation to avoid hazards ** symbol represents caution due to special circumstances in which hazards may occur. **Warning** Failure to follow these instructions may result in serious injury or death. **Caution** Failure to follow these instructions may result in personal injury or product damage. 🛆 Warning 1. 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 fire, personal injury, or economic loss. 2. Use the unit within the rated specifications. Failure to follow this instruction may result in shortening the life cycle of the product or fire. 3. Do not connect, repair, or inspect the unit while connected to a power source. Failure to follow this instruction may result in fire. 4. Check 'Power Wiring' and 'Serial Interface' before wiring. Failure to follow this instruction may result in fire. 5. 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 fire, personal injury, or economic loss. 6. Since Lithium battery is embedded in the product, do not disassemble or burn the unit. Failure to follow this instruction may result in fire 7. Do not disassemble or modify the unit. Failure to follow this instruction may result in fire 8. Please contact to us for battery replacement. **▲** Caution 1. Do not use the unit in the place where flammable/explosive/corrosive gas, humidity, direct sunlight, radiant heat, vibration, impact, or salinity may be present. Failure to follow this instruction may result in fire or explosion. 2. Use dry cloth to clean the unit, and do not use water or organic solvent. Failure to follow this instruction may result in electric shock or fire. 3. When connecting the power input, use AWG 23 cable or over and tighten the terminal screw with a tightening torque of 0.5 to 0.8N.m. Failure to follow this instruction may result in fire or malfunction due to contact failure. 4. Keep metal chip, dust, and wire residue from flowing into the unit. Failure to follow this instruction may result in fire or product damage. 5. Do not push over 2 point at the same time. Failure to follow this instruction may result in malfunction.



The above specifications are subject to change and some models may be discontinued without notice.

※Be sure to follow cautions written in the instruction manual, user manual and the technical descriptions (catalog, homepage)

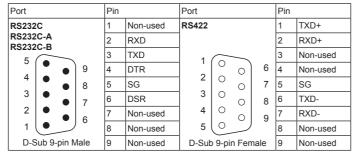
Model		GP-S044-S1D0 GP-S044-S1D1		
		24VDC		
Allowable voltage range		90 to 110% of power supply		
Power c	onsumption	Max. 3.6W		
		Each port of RS232C, RS422 (asynchronous method) Two ports of RS232C (asynchronous method)		
Real-time controller		RTC embedded		
Battery life cycle		3 years at 25°C		
Insulated resistance		Over 100MΩ (at 500VDC megger)		
Ground		3rd grounding (max. 100Ω)		
Noise immunity		$\pm 0.5 kV$ the square wave noise (pulse width: 1µs) by the noise simulator		
Dielectric strength		500VAC at 50/60Hz for 1 minute		
Vibration	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz (for 1 minute) in each X, Y, Z direction for 1 hour		
	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz (for 1 minute) in each X, Y, Z direction for 10 minutes		
Shock	Mechanical	300m/s ² (approx. 30G) in each X, Y, Z direction for 3 times		
	Malfunction	100m/s ² (approx. 10G) in each X, Y, Z direction for 3 times		
Environ ment	Ambient temperature	0 to 50°C, storage: -20 to 60°C		
	Ambient humidity	35 to 85%RH, storage: 35 to 85%RH		
		IP65 (front panel, IEC standard)		
		Fixing bracket: 4pcs, waterproof rubber ring, battery (included)		
		CE 🛙		
Weight*	2.1	Approx. 413g (approx.284g)		
0				
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x1: Th xEnvir Perfol Display LCD typ Resoluti Display Color LCD vie Backligh Brightne Graphic Languag Text Number	e weight in p onment resis performance e ion area w angle nt c drawing per ge ^{×1}	Adjustable by software Adjus		

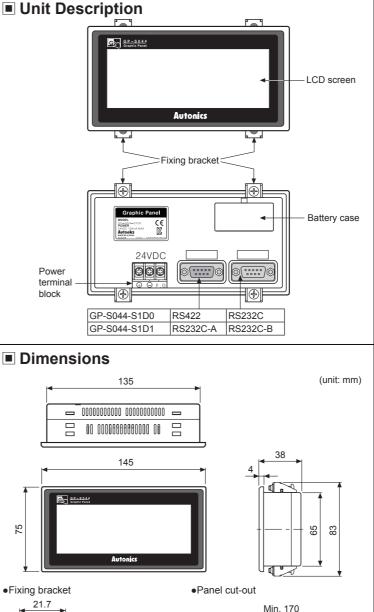
Power Wiring

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

•All devices connectable into GP-S044 including PC, PLC, serial printer, barcode reader and dedicated connectors can be connected into both RS232C and RS422 ports. •Device must be set for the port in system setting for GP-S044. For details, refer to 'GP Editor user manual

•For the method of wiring external devices of PLC, refer to 'GP, LP user manual for communication'.





136 0+0.5 %Panel thinckness: max. 4mm

Installation

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M4 BOLT

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0 0 9

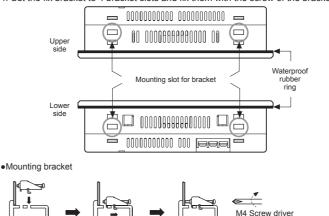
24VDC

1. Set a waterproof rubber ring after placing the joining part of the ring under the GP-S044.

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2. Adhere closely between each edge of the GP-S044 and the rings. 3. Set GP-S044 in panel.

4. Set the fix bracket to 4 bracket slots and fix them with the screw of the brackets



Software

Visit our homepage (www.autonics.com) to download GP Editor or firmware.

GP Editor

GP Editor is for editing shape, arrangement, default of tag data which is displayed on GP-S044 screen. For GP Editor software, computer specification is as below. Operating system: Windows XP/7/8/10

Operating system. Windows AF/1/6/10				
Item	Minimum specification	Recommended specification		
CPU	Pentium 4 or above	Pentium Dual Core		
Memory	256MB	512MB		
Hard disk	1GB (available space)	2GB (available space)		
Resolution	1024×768	1024×768		

Firmware

Please refer to 'GP-S044/S057 user manual' and 'GP Editor user manual'.

Manual

For the detail information and instructions, please refer to user manual and user manual for communication, and be sure to follow cautions written in the technical descriptions (catalog, homepage).

Visit our homepage (www.autonics.com) to download manuals.

•GP Editor user manual

It describes how to write screen data, and is about related usage of GP-S044 HMI function

•GP, LP user manual for communication

It describes connection for external devices such as PLC.

•GP-S044/S057 user manual

It describes general information on the installation and usage of GP-S044 and system control.

Cable (sold setarately)

Communication cables connectable into external devices such as PLC are sold sepa-

Please refer to 'GP. LP user manual for communication' for communication cable.

Battery Replacement

Please contact our service center to replace GP-S044 battery. It may cause an explosion or a fire when using improper battery.

Cautions during Use

1. Follow instructions in 'Cautions during Use'. Otherwise, it may cause unexpected accidents

2. 24VDC power supply should be insulated and limited voltage/current or Class 2, SELV power supply device.

3. Install a power switch or circuit breaker in the easily accessible place for supplying or disconnecting the power.

4. 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

. 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 frequency noise

6. 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

8. This unit may be used in the following environments.

()Indoors (in the environment condition rated in 'Specifications')

②Altitude max. 2,000m

③Pollution degree 2 ④Installation category II

Major Products



- Fiber Optic Sensors
 Temperature/Humidity Transduce:

 Door Sensors
 SSR/Power Controllers

 Door Side Sensors
 Counters

 Area Sensors
 Timers

 Proximity Sensors
 Panel Meters

 Prosumity Sensors
 Tachometer/Puse (Rate)Meters

 Rotary Encoders
 Display Units

 Connector/Sockets
 Sensor Controllers

 Switching Mode Power Supplies
 Control Switches/Lamps/Buzzers

 U/O Terminal Blocks & Cables
 Setper Motors/Drivers/Motion Controllers
 Control Switches:Lampsrout. I/O Terminal Blocks & Cables Stepper Motors/Drivers/Motion Controllers Graphic/Logic Panels Field Network Devices Laser Marking System (Fiber, Coz, Nd: yag) Laser Welding/Cutting System

TEL: 82-51-519-3232 **E-mail:** sales@autonic

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DRW171168AA

Autonics Corporation

http://www.auto