Autonics 7 inch TFT Color LCD type Graphic Panel **GP-A070** INSTRUCTION MANUAL **CE**

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.

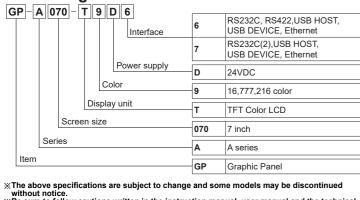
▲ Warning

- 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, medica 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. 2. 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.
- 3. Use the unit within the rated specifications.
- Failure to follow this instruction may result in fire or shortening the life cycle of the product. 4. Do not connect, repair, or inspect the unit while connected to a power source.
- Failure to follow this instruction may result in fire. 5. Check 'Power Wiring' and 'Serial Interface' before wiring
- Failure to follow this instruction may result in fire.
- 6. 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. 7. Since Lithium battery is embedded in the product, do not disassemble or burn the unit.
- Failure to follow this instruction may result in fire.
- 8. Do not disassemble or modify the unit. Failure to follow this instruction may result in fire.
- 9. Please contact to us for battery replacement.

▲ Caution

- 1. 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.
- 2. 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
- 3. 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.
- 4. Do not push over 2 point at the same time. Failure to follow this instruction may result in malfunction
- 5. 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

Ordering Information



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

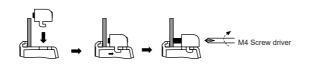
Power s		GP-A070-T9D6 GP-A070-T9D7		
	supply	24VDC		
Allowable range	e voltage	90 to 110% of power supply		
Power of	consumption	Max. 7.2W		
Serial in	iterface	Each of RS232C, RS422 Two ports of RS232C		
USB int	erface	Each of USB HOST, USB Device (USB2.0)		
Etherne	t interface	IEEE802.3(U), 10/100Base-T		
Real-tin	ne controller	RTC embedded		
Battery	life cycle	3 years at 25℃		
		Over 100MΩ (at 500VDC megger)		
Ground		3rd grounding (max. 100Ω)		
,		$\pm 0.5 kV$ the square wave noise (pulse width: 1µs) by the noise simulate		
Withstanding voltage		500VAC 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	in each X, Y, Z direction for 10 minutes		
Shock		300m/s ² (approx. 30G) in each X, Y, Z direction for 3 times		
		100m/s ² (approx. 10G) in each X, Y, Z direction for 3 times		
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: 4, battery (included)		
		C € [6] Approx. 706g (approx. 520g)		
≪Enviro		ides packaging. The weight in parenthesis is for unit only. ance is rated at no freezing or condensation.		
		nce		
●Displa	ay performa	nce		
Displation LCD typ	ay performa le	nce TFT Color LCD		
●Displa LCD typ Resolut	ay performa le ion	nce TFT Color LCD 800×480 dot		
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Display LCD typ Resolut Display Color LCD vie Backligh Luminar Luminar Graph Languag Text Memory screen Number Touch s eInterfet	ay performa ie ion area w angle nt nce ace adjustme ic drawing ge ^{≋1} of user of user screwitch ace type 0-T9D6	nce TFT Color LCD 800×480 dot 154.4×93.44mm 16,777,216 color Within 50°/60°/65°/65°of each top/bottom/left/right White LED Max. 300cd/m ² ent Adjustable by software performance Korean, English Bitmap ASCII and vector font 64MB en 100 pages Analog touch (resistive type)		

Installation

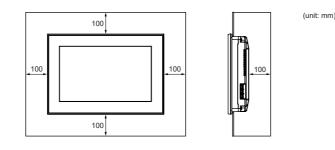
1. Set GP-A070 in panel

Specifications

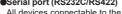
Set fixing brackets in 4 slots (2 slots is in upper side, 2 slots is in lower side). 3. Tighten fixing bracket with M4 Screw driver and tightening torque is 0.3 to 0.5N m.



When installing GP-A070 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.

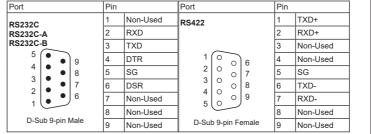


00000 (00000000 0000 00000) 000000 USB LCD Screen Power terminal RS422 RS232C block or or E RS232C-A RS232C B Ethernet USB Device Mounting slot for fixing bracket Serial port (RS232C/RS422) All devices connectable to the product including PC, PLC, serial printer, barcode reader, and



Unit Description

dedicated connectors can be connected in to both RS232C and RS422 ports



Ethernet port

For connecting LAN cable and hub, use direct cable, and for connecting PC directly, use cross cable

USB Host	USB Device
Transferring/Coping data be- tween storage and GP-A070 Firmware upgrade Bar-code reader Printer	Uploading/Downloading a atDesigner project file Used as external storage by connecting to PC
	tween storage and GP-A070 Firmware upgrade Bar-code reader

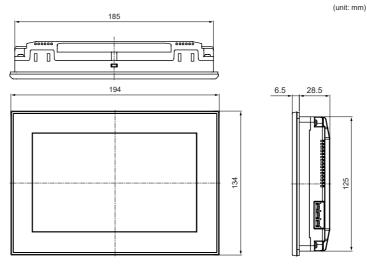
Dimension

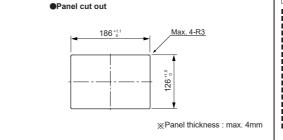
Fixing bracket

M4

6

₽ T











force.

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 torque. •Ground resistance should be less than 100Ω and ground it separately

Software

Visit our website (www.autonics.com) to download atDesigner or firmware.

atDesigner

atDesigner is for editing project and user screen. Computer specification for atDesigner is as below

Minimum spec Item Recommended spec Operating system Windows XP/Vista/7/8/10 CPU Pentium4 1.6GHz or above Intel Core i5-2nd generation 2500 or above Memory Min. 4GB Min. 8GB Hard disk Min. 4GB Min. 8GB Resolution Min. 1280×1024 Min. 1920×1080

Firmware

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

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, web-

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

•atDesigner user manual

It describes how to design user screen and contains information about GP-A070 HMI function and how to use it.

GP/LP user manual for communication

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

•GP-A Series user manual

It describes general information about installation and system of GP-A070.

Cable (sold separately)

Communication cables connectable into external devices such as PLC are sold separately. Please refer to 'GP/LP user manual for communication' for communication cable

Battery Replacement

Please contact our service center to replace 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.

5. 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 openinas.

. Do not push the touch panel with a hard and sharp object or push the panel with excessive

It may result in fire or malfunction.

8. 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. 9. 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

- ctric Sensors Temperature Cont
- er Optic Sensors Piber Optic Sensors
 Door Sensors
 Door Side Sensors
 Area Sensors
 Proximity Sensors
 - Timers Panel Meters
- Pressure Sensors Rotary Encoders
 - anning Consors ssure Sensors ary Encoders Inector/Sockets Sensor Controllers
- Connector/Sockets Sensor Controllers Switching Mode Power Supplies Control Switches/Lamps/Buzzers U/O Terminal Blocks & Cables Stepper Motors/Drivers/Motion Controllers Graphic/Logic Panels Field Network Devices Laser Marking System (Fiber, Co., Nd:yag) Laser Welding/Cutting System

Autonics Corporation http://v

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