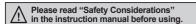
Basic Type 7 inch Color LCD Graphic Panel

Features

- Adopts 7 inch wide TFT LCD for realizing True Color with 16.777.216 colors
- Analog touch method
- : Free tag arrangement
- Data logger function
 - : Supports data gathering and backup of controller
- Supports variable image library
- Enables to monitor multi stations and multi channels at the same time
- Supports several interface
- : Supports USB Host/Device to high speed download and manage files
- : Easy to connect various external devices with RS232C 2 ports and RS232C/RS422 multi-communication port
- Supports several fonts
 - : Supports window true type and several bitmap fonts (selectable)
- Device monitoring function
- : Enables to monitor/control variable of connected control through communication port
- Easy S/W upgrade available on website
 - (1) GP firmware file
 - (2) GP Editor (drawing program)
 - (3) Additional protocol
 - (4) Language and font, etc
- Connects printer/barcode reader: Enables to print out alarm history, to read barcode





■ 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, website).

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

• GP Editor user manual

It describes how to write screen data, and is about related usage of GP-S070 HMI function.

• GP/LP user manual for communication

It describes connection for external devices such as PLC.

• GP-S070 user manual

It describes general information of the installation and usage of GP-S070 and system contents.

Ordering Information

Model	Item	Series	Monitor size	Display unit	Color	Power supply	Interface
GP-S070-T9D6	Graphic	0	7 :	7 inch TFT Color 16,777,216 color 24VDC=	16,777,216		RS232C, RS422, USB HOST, USB DEVICE, Ethernet
GP-S070-T9D7	panel	S series	/ Inch			RS232C (2), USB HOST, USB DEVICE, Ethernet	









(J) Temperature Controllers

SENSORS

CONTROLLERS

MOTION DEVICES

SOFTWARE

SSRs

(L) Power Controllers

Counters

(N) Timers

(O) Digital Panel Meters

(P) Indicators

(Q) Converters

(R) Digital Display Units

(S) Sensor Controllers

Controllers

(T) Switching Mode Power Supplies

(U) Recorders

(V) HMIs

(W) Panel PC

(X) Field Network

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Specifications

Model		GP-S070-T9D6	GP-S070-T9D7			
Power supply		24VDC==				
Allowable voltage range		90 to 110% of power supply				
Power consumption		Max. 7.2W				
ce	LCD type	7 inch TFT Color LCD				
performance	Resolution	800×480 dots				
	Display area	152.4×91.44mm				
erf	Color	16,777,216 color				
> b	LCD view angle	Within each 60°/ 45°/ 60°/ 60° of top/bottom/left/right				
l eld	Backlight	White LED				
Display p	Brightness	Adjustable by software				
	Language ^{×1}	English, Korean				
Graphic drawing performance	Text	Vector font				
hic	Graphic drawing memory	16MB				
Graph	Number of user screen	500 pages				
	Touch switch	Analog touch				
Soria	l interface	Asynchronous method: each port of RS232C, RS422				
		Each port of RS232C, RS422	Two ports of RS232C			
_	interface	Each of USB HOST, USB Device (Version 1.1)				
Ethernet interface		IEEE802.3 (U), 10/100Base-T				
Real-time controller		RTC embedded				
Battery life cycle		Approx. 3 years at 25°C				
Insulation resistance		Over 100MΩ (at 500VDC megger)				
Ground		3rd grounding (max. 100Ω)				
Noise immunity		± 0.5kV the square wave noise (pulse width: 1μs) by the noise simulator				
Withstanding voltage		500VAC 50/60Hz for 1 min				
Vibrat	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 1 hour				
	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 10 min				
Shoc	Mechanical	300m/s² (approx. 30G) in each X, Y, Z direction for 3 times				
	Malfunction	100m/s² (approx. 10G) in each X, Y, Z direction for 3 times				
Envir		0 to 50°C, storage: -20 to 60°C				
-men	t Ambient humidity	35 to 85% RH, storage: 35 to 85%RH				
Protection structure		IP65 (front panel, IEC standard)				
Accessory		Fixing bracket: 4, battery (included)				
Approval		C€ №				
Weig	ht×2	Approx. 680g (approx. 500g)				
×1.5	Supported language can b	e added %2: The weight includes pack	raging. The weight in parenthesis is for unit only			

Function

_					
Fiç	jure display	Line, rectangle, circle, text, bitmap			
	Numeral display	Displays the designated device as numerical value. (decimal, hexadecimal, octal, binary, real number)			
	ASCII display	Displays the designated device value as ASCII character.			
	Time display	Displays current time or date.			
	Alarm history	Registers alarm history.			
	Alarm list	Displays generated (not backed up) alarm.			
	Comment display	Displays the designated comment as device status or value.			
	Lamp	Displays lamp as device status.			
gs	Part display	Displays the designated parts as device status and value.			
Ā	Line graph	Displays several device values with a graph of broken line.			
	Trend graph	Displays change of device value for time with a graph of broken line.			
	Bar graph	Displays a device value with a bar graph.			
	Statistic graph	Displays a ratio of several device values with pie graph.			
	Panel meter	Displays a device value as panel meter.			
	Touch key	Screen is switched, word/bit device values are set when it touched.			
	Numeral input	Configures user input value in device.			
	ASCII input	Configures user input ASCII code value in device.			
Sy	stem information function	Monitors/Controls GP operation from PLC.			
Recipe function		Reads/Writes several PLC device collectively.			
Security function		Only acceptable user can observe/operate important data.			
Barcode read function		Connects barcode reader, read barcode.			
Floating alarm function		Warning message is floated when alarm is generated.			
Time operation		Specific bit device is ON/OFF for designated day and time.			
Overlap window		Available to form dynamically overlapping another base screen on the base one.			
Observe status function		Changes PLC device status/value of PLC when trigger is generated.			

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Basic Type 7 inch Color Graphic Panel

SENSORS

CONTROLLERS

MOTION DEVICES

SOFTWARE

(J) Temperature Controllers

(L) Power Controllers

(N) Timers

(O) Digital Panel Meters

(P) Indicators

(Q) Converters

(R) Digital Display Units

(S) Sensor Controllers

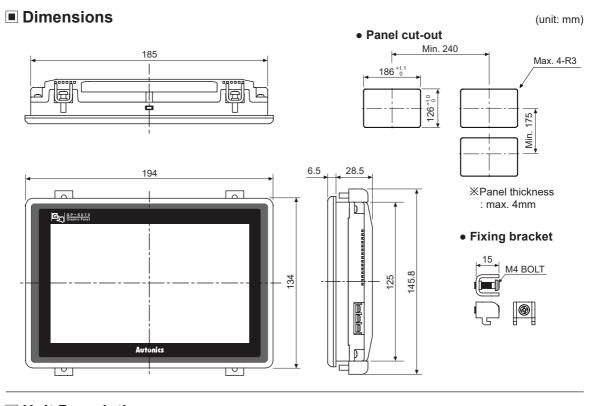
(T) Switching Mode Power

Supplies

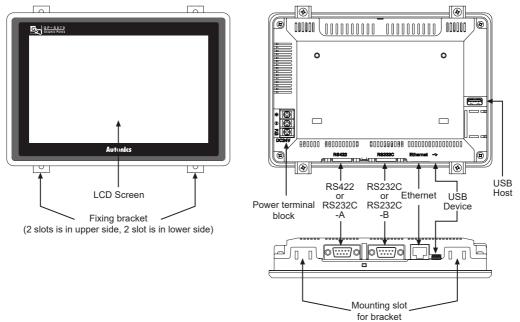
(U) Recorders

(X) Field Network

(V) HMIs



Unit Description

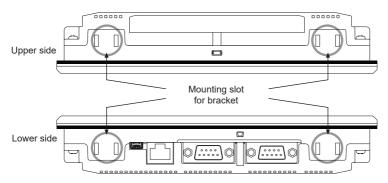


- Ethernet Port: For connecting LAN cable and hub, use direct cable, and for connecting PC directly, use cross cable.
- USB Device: When setting USB Device mode to HID mode in serial setting, it is for uploading/downloading GP Editor
 project. When setting to Storage mode, it is for transferring/coping data between PC and GP-S070 with
 recognition as a storage device by PC.
 For details, please refer to 'GP-S070 user manual'.
- USB Host: It is for transferring/coping data between USB storage device and GP-S070 and upgrading firmware.
- RS232C, RS422 ports: For more information, refer to '■ Serial Interface' of GP/LP Common Features.

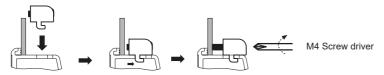
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Installation

- 1. Set GP-S070 in panel.
- 2. Set fixing brackets in 4 slots (2 slots is in upper side, 2 slots is in lower side).

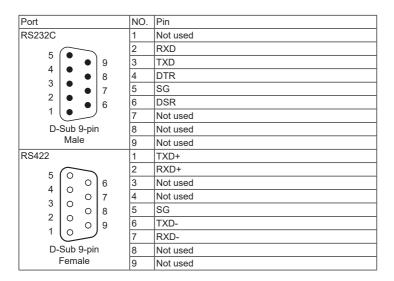


3. Tighten fixing bracket with M4 Screw driver and tightening torque is 0.3 to 0.5N·m.



Serial Interface

- All devices are connectable with GP-S070 including PC, PLC, serial printer, barcode reader and dedicated connectors can be connected with both RS232C and RS422 ports.
- Use the dedicated communication cable for the each connected device. (Refer to the "GP/LP Communication Cables")
- For the method of wiring external devices like PLC, refer to "GP/LP communication manual".



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Basic Type 7 inch Color Graphic Panel

Cable (sold separately)

Serial connection cables which connect GP/LP with PLC or other external devices are sold separately. Refer to "GP/LP Communication Cables".

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.
- \bullet Ground resistance should be less than 100 Ω and ground it separately.

SENSORS

CONTROLLERS

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SOFTWARE

Battery Replacement

Please contact out distributor to replace battery.

It may cause an explosion or a fire when improper battery is used.

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 openings.
- 7. 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.
- 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.
 - (in the environment condition rated in 'Specifications')
 - ②Altitude max. 2,000m
 - ③Pollution degree 2
 - 4 Installation category II

(J) Temperature Controllers

> () SRs

(L) Power Controllers

(M) Counters

(N)

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(P) Indicators

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(R) Digital Display Units

(S) Sensor Controllers

(T) Switching Mode Powe Supplies

> (U) Recorders

(V) HMIs

(W) Panel Po

(X) Field Network Devices

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