

## 7 Inch Wide Screen, TFT Color LCD Type Graphic Touch Panel GP-S070

### ■ 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



7 inch TFT Color LCD

 Please read "Caution for your safety" in operation manual before using.



### ■ Manual

Visit our website ([www.autonics.com](http://www.autonics.com)) to download 'GP Editor user manual' or 'GP, LP user manual for communication', 'GP-S070 user manual'.

- **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 panel | S series | 7 inch       | TFT Color LCD | 16,777,216 color | 24VDC        | RS232C, RS422, USB HOST, USB DEVICE, Ethernet |
| GP-S070-T9D7 |               |          |              |               |                  |              | RS232C (2EA), USB HOST USB DEVICE, Ethernet   |

- (A) Photoelectric Sensors
- (B) Fiber Optic Sensors
- (C) Door/Area Sensors
- (D) Proximity Sensors
- (E) Pressure Sensors
- (F) Rotary Encoders
- (G) Connectors/ Sockets
- (H) Temperature Controllers
- (I) SSRs / Power Controllers
- (J) Counters
- (K) Timers
- (L) Panel Meters
- (M) Tacho / Speed / Pulse Meters
- (N) Display Units
- (O) Sensor Controllers
- (P) Switching Mode Power Supplies
- (Q) Stepper Motors & Drivers & Controllers
- (R) Graphic/ Logic Panels
- (S) Field Network Devices
- (T) Software

## ■ 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  |   |
| Display performance         | LCD type   | 7 inch TFT Color LCD  |
|                             | Resolution   | 800×480 dots  |
|                             | Display area   | 152.4mm×91.44mm   |
|                             | Color  | 16,777,216 color  |
|                             | LCD view angle   | Within each 60°/ 45°/ 60°/ 60° of top/bottom/left/right   |
|                             | Backlight  | White LED   |
|                             | Brightness   | Adjustable by software  |
| Graphic drawing performance | Language※1   | English, Korean   |
|                             | Text   | • Vector font      • 6×8, 8×8 ASCII character, high definition numbers<br>• 8×16 ASCII characters, 16×16 character by each country<br>(1 to 8 times bigger for width, 0.5 to 5 times bigger for height) |
|                             | Graphic drawing memory   | 16MB  |
|                             | Number of user screen  | 500 pages   |
|                             | Touch switch   | Analog touch  |
| Serial interface            | Asynchronous method: Each port of RS232C, RS422<br>Each port of RS232C, RS422      Two ports of RS232C |   |
| USB 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  |   |
| Insulated resistance        | Min. 100MΩ (at 500VDC megger)  |   |
| Ground                      | 3rd grounding (max. 100Ω)  |   |
| Noise resistance            | ± 0.5kV the square wave noise (pulse width: 1μs) by the noise simulator                                |   |
| Withstanding voltage        | 500VAC 50/60Hz for a minute  |   |
| Vibration                   | 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.   |
| Shock                       | Mechanical   | 300m/s <sup>2</sup> (approx. 30G) in each X, Y, Z direction for 3 times   |
|                             | Malfunction  | 100m/s <sup>2</sup> (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  |
| Protection structure        | IP65F for front panel  |   |
| Accessory                   | Fixing bracket: 4EA, Battery (included)  |   |
| Approval                    | CE                  |   |
| Unit weight                 | Approx. 520g   |   |

※1: Language could be added in the future.

※Environment resistance is rated at no freezing or condensation.

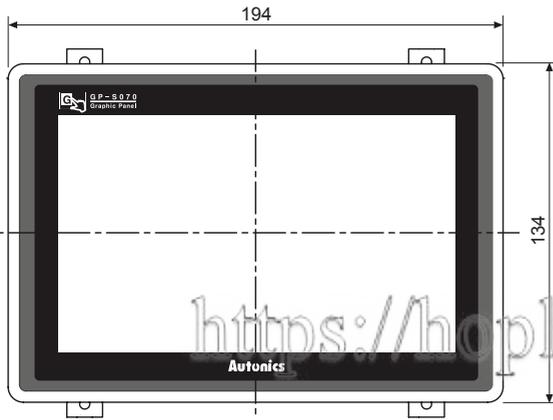
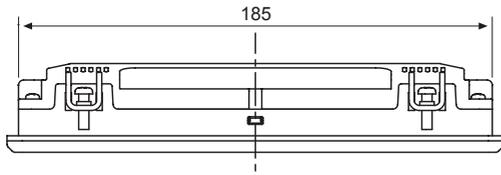
## ■ Functional Description

|                             |  |   |
|-----------------------------|--|---|
| Figure display              | Line, rectangle, circle, text, bitmap  |   |
| Tags                        | 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.   |
|                             | Part display   | Displays the designated parts as device status and value.   |
|                             | 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.                              |   |
| System 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.              |   |

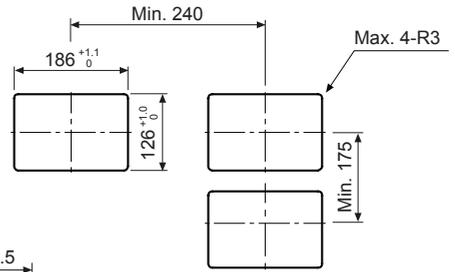
# Graphic Panel

## ■ Dimensions

(unit: mm)

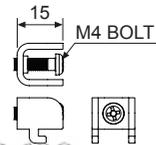


### ● Panel cut-out



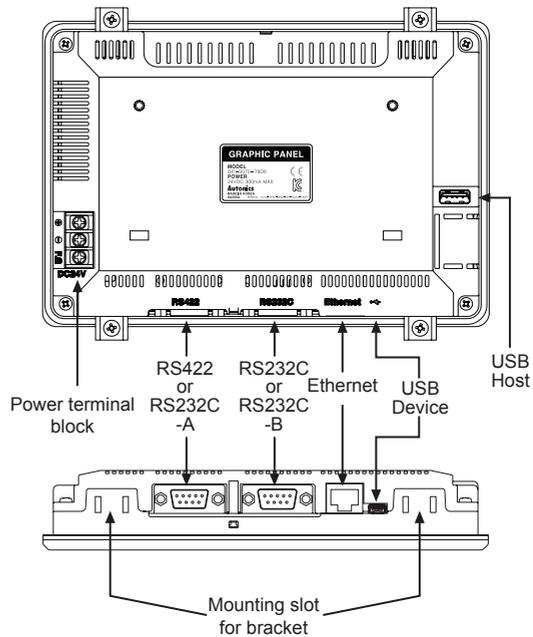
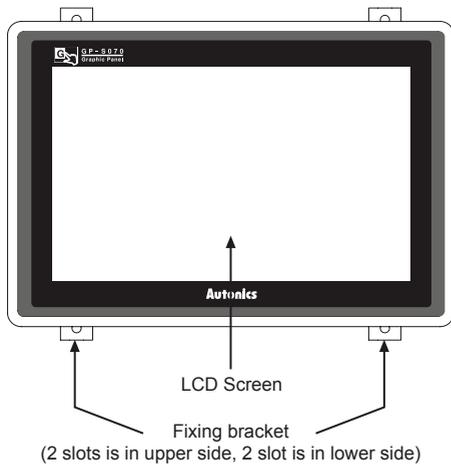
※Panel thickness  
: Max. 4mm

### ● Fixing bracket



<https://hoplongtech.com>

## ■ Unit Description



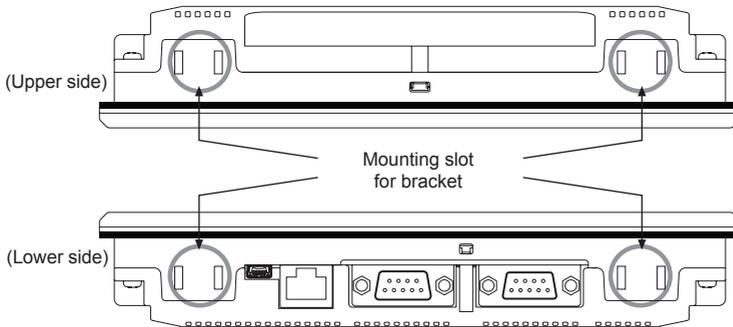
- Ethernet Port: For connecting LAN cable and hub, use direct cable, and for connecting PC directly, use cross cable.
- USB Device: It is used to upload and download project (it is required to install USB driver on PC), and when connecting to PC, it can be used as a USB memory (PC recognizes it as a removable disk).
- USB Host: It is used to manage data and upgrade firmware.
- RS232C, RS422 ports: For more information, refer to page R-32 and 'Serial Interface' of GP/LP Common Features.

|     |  |
|-----|--|
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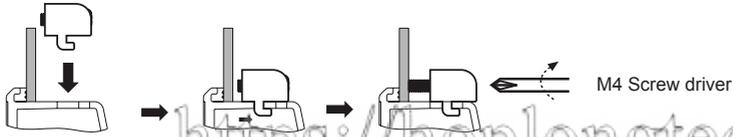
# GP-S070

## ■ 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.



## ■ Sold Separately

Transmission cables connectable with external devices such as PLC are sold separately. (refer to page R-32 for "GP/LP Communication Cables".)