GP-S070   Graphic Panel

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.** CE KC

▣ Manual

Visit our webwite (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

GP-S070

▣ 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×94.44mm		
Color	16,777,216 color		
LCD view angle	Within each 50°/ 60°/ 65°/ 65°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 • 8×16 ASCII characters, 16×16 character by each country (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		
	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℃		
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 — Mechnical	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/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		
Environ-ment — Ambient temperature	0 to 50℃, storage: -20 to 60℃		
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 ℾ		
Unit weight	Approx. 520g		

※1: Language could be added in the future.   ※Environment resistance is rated at no freezing or condensation.
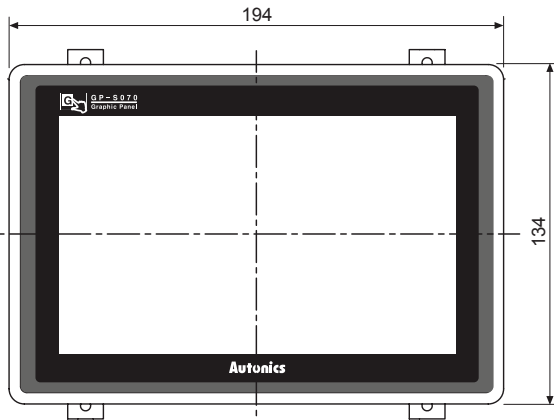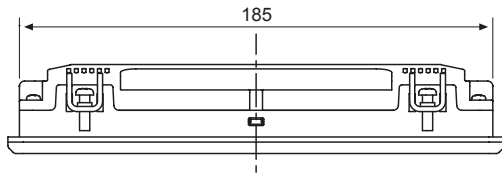
▣ Functional Description

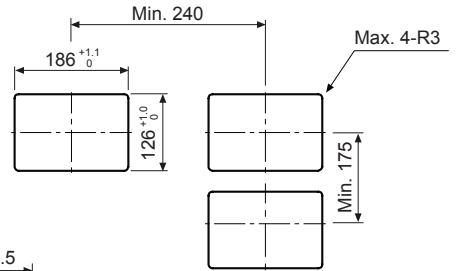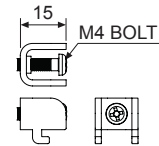| Figure display	Line, rectangle, circle, text, bitmap
Tags — Numeral display	Displays the designated device as numerical value. (decimal, hexadecimal, octal, binary, real number)
ASCII display	Displays the designated device value as ASCII character.
Time display	Displays current time or date.
Alarm 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.

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Graphic Panel

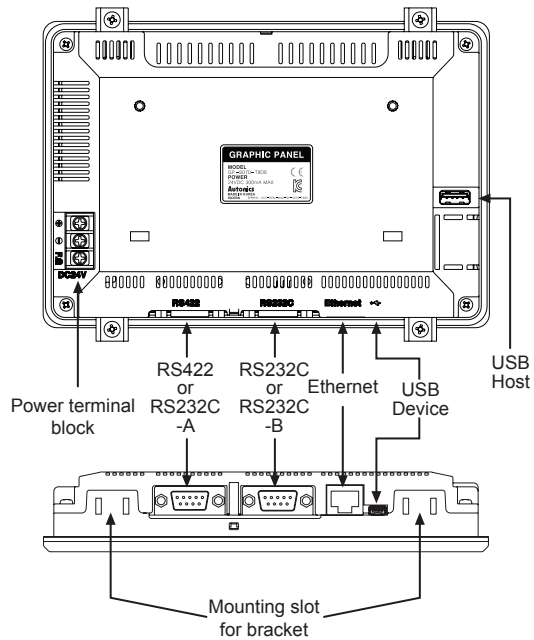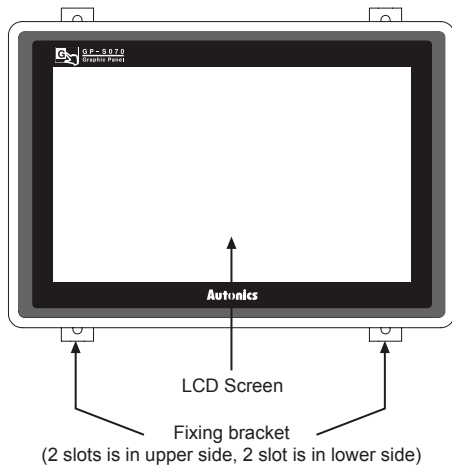## ◼ Dimensions

(unit: mm)

● Panel cut-out

Min. 240

$186^{+1.1}_{0}$

$126^{+1.0}_{0}$

Max. 4-R3

Min. 175

※Panel thickness : Max. 4mm

185

194

134

6.5 28.5

125 146

GP-S070
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● Fixing bracket

15

M4 BOLT

◼ Unit Description

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LCD Screen

Fixing bracket
(2 slots is in upper side, 2 slot is in lower side)

GRAPHIC PANEL

Power terminal block

RS422 or RS232C-A

RS232C or RS232C-B

Ethernet

USB Device

USB Host

Mounting slot for bracket

● 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.
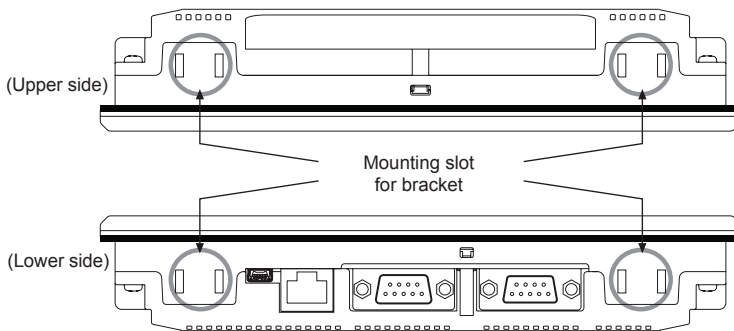
GP-S070
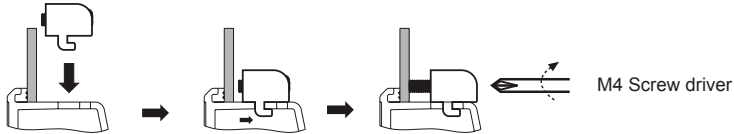
▣ Installation

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).

(Upper side)

Mounting slot
for bracket

(Lower side)

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

M4 Screw driver

▣ Sold Separately

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

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