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 "Safety Considerations" in instruction manual before using.**   C E   KC

▣ 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-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 (2), USB HOST, USB DEVICE, Ethernet

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	152.4×91.44mm	
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 • 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℃	
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	
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/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	IP65 (front panel, IEC standard)	
Accessory	Fixing bracket: 4, battery (included)	
Approval	CE Ⓚ	
Weight※2	Approx. 680g (approx. 500g)	

※1: Supported language can be added.   ※2: The weight includes packaging. The weight in parenthesis is for unit only.
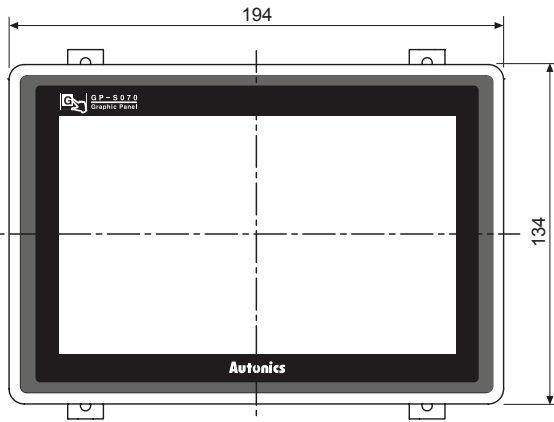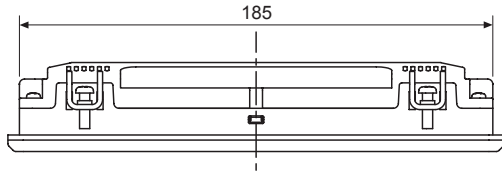※Environment resistance is rated at no freezing or condensation.

◨ Functional Description

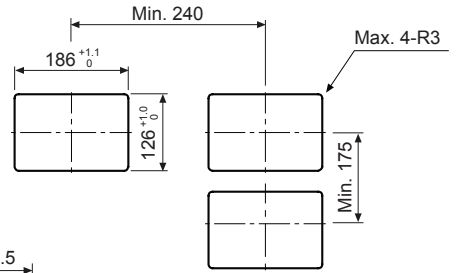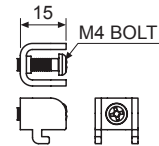|		
Figure display		Line, rectangle, circle, text, bitmap
Tags	Numeral display	Displays the designated device as numerical value. (decimal, hexadecimal, octal, binary, real number)
	ASCII display	Displays the designated device value as ASCII character.
	Time display	Displays current time or date.
	Alarm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

◼ Dimensions

(unit: mm)

185

● **Panel cut-out**
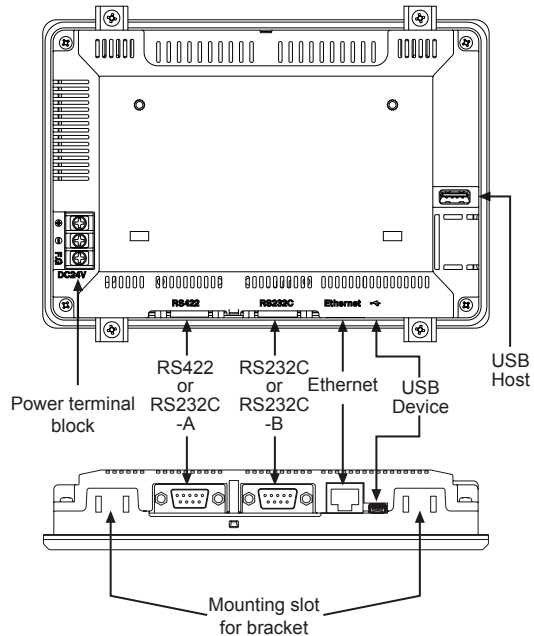
Min. 240

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

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

Max. 4-R3

Min. 175

194

6.5   28.5

※Panel thickness
: max. 4mm

G P - S 0 7 0
Graphic Panel

134

125

145.8

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● **Fixing bracket**

15

M4 BOLT

◼ Unit Description

G P - S 0 7 0
Graphic Panel

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DC24V

RS422   RS232C   Ethernet

LCD Screen

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

Power terminal
block

RS422
or
RS232C
-A

RS232C
or
RS232C
-B

Ethernet

USB
Device

USB
Host

Mounting slot
for bracket
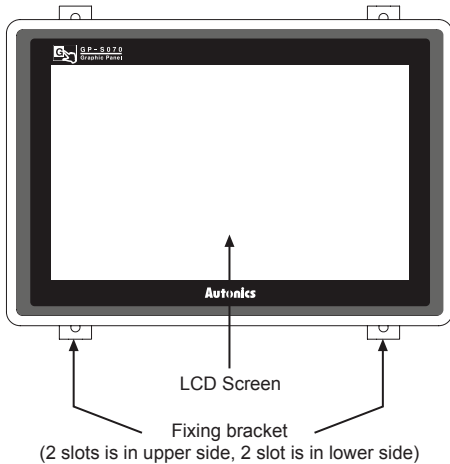
● Ethernet Port: For connecting LAN cable and hub, use direct cable, and for connecting PC directly, use cross cable.
● USB Device: When setting USB Device mode to HID mode in serial setting, it is for uploading/downloading GP Editor project. When setting to Storage mode, it is for transferring/coping 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.
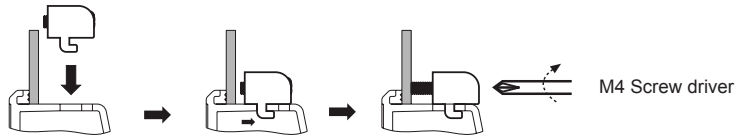● RS232C, RS422 ports: For more information, refer to '◼ Serial Interface' of GP/LP Common Features.

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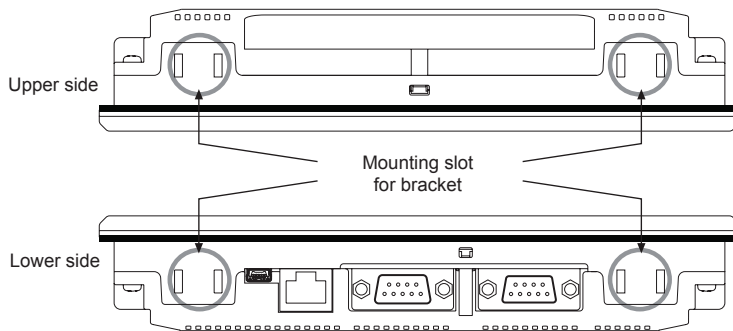
3. Tighten fixing bracket with M4 Screw driver and tightening torque is 0.3 to 0.5N·m.

M4 Screw driver

▣ 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".

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