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

▣ Features

7 inch TFT Color LCD

- 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

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

▣ 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

■ 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 • 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 K	
Unit weight		Approx. 520g	

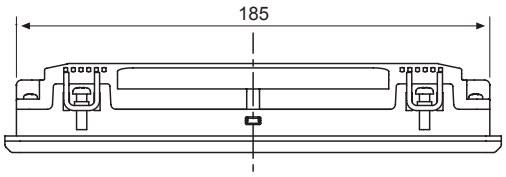
※1: Language could be added in the future. ※Environment resistance is rated at no freezing or condensation.

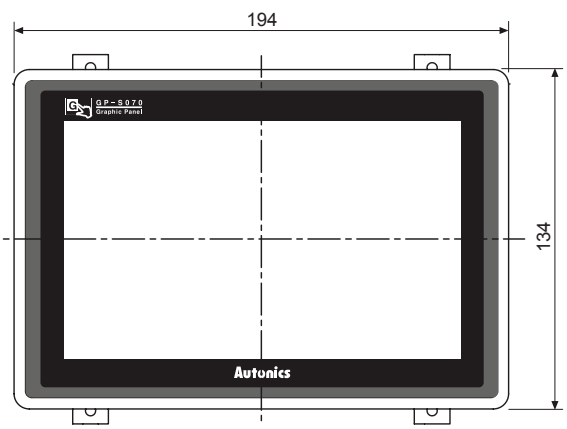
■ Functional Description

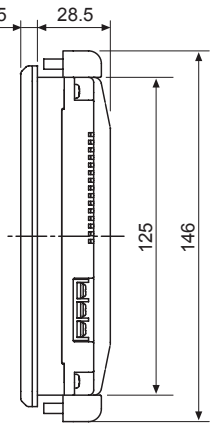
Figure display		Line, rectangle, circle, text, bitmap
Tags	Numeral display	Displays the designated device as numerical value. (decimal, hexadecimal, octal, binary, real number)
	ASCII display	Displays the designated device value as ASCII character.
	Time display	Displays current time or date.
	Alarm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

▣ Dimensions

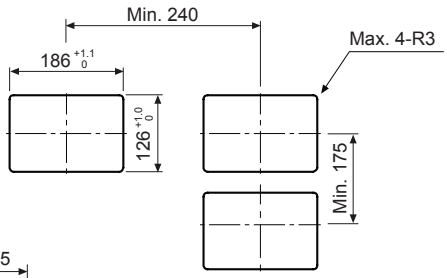
(unit: mm)





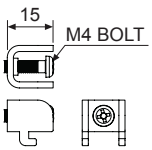


● **Panel cut-out**

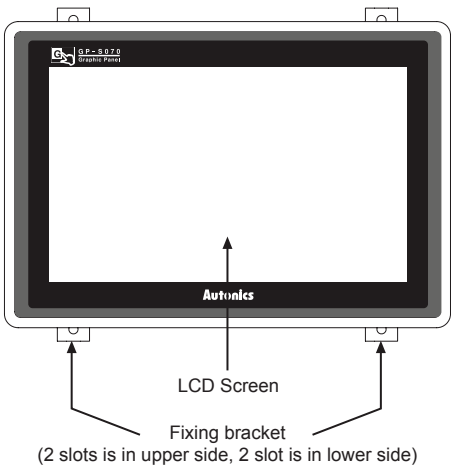


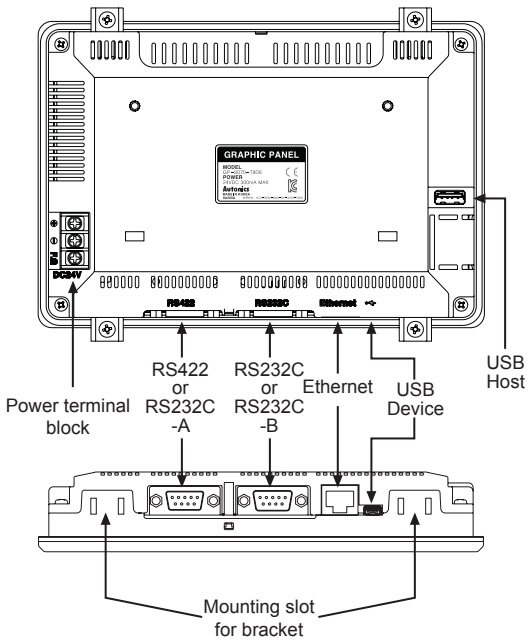
※Panel thickness
: Max. 4mm

● **Fixing bracket**



▣ Unit Description

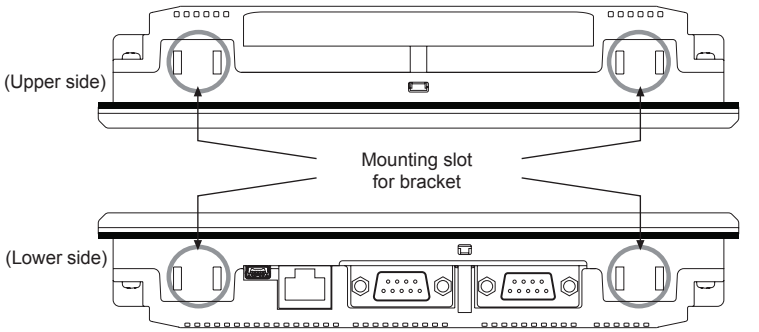




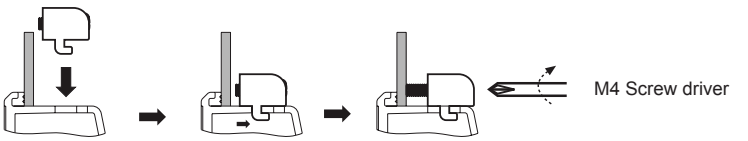
- Ethernet Port: For connecting LAN cable and hub, use direct cable, and for connecting PC directly, use cross cable.
- USB Device: It is used to upload and download project (it is required to install USB driver on PC), and when connecting to PC, it can be used as a USB memory (PC recognizes it as a 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.

▣ 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".)