High visibility with 5.7inch wide screen Graphic panel GP-S057

▣ Features

- Displays max. 1590 characters
- Enables to save max. 500 pages of user screen
- Easy software upgrade at website
  - (1) GP firmware file
  - (2) GP Editor(drawing program)
  - (3) Additional protocol
- Different devices monitoring function
- : PLC port allows to monitor and control the variables of additionally connected controllers
- Supports multilingual
- : Supports Korean, Japanese, English, Chinese, Russian, Vietnamese and Portuguese.
  Additional languages will be available by firmware.
- Supports multi-font
- : It provides various bitmap and user-selected fonts.
- Various multi-communication port
- : Both RS232C 2 port or RS232C/RS422 compound port are provided.
- Device monitoring function
- : It enables to monitor GP devices and connected controller devices by GP without graphic design data.
- Printer and barcode reader connection
- : It enables to print alarm history connecting a printer and read barcode connecting a barcode reader.
- Compact design
- : Minimizes module size and installation places by 5.7 inch display area
- Various display function
- : It displays data by various tags.

5.7 inch MONO

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

CE ℂ

▣ Manual

Visit our webwite(www.autonics.com) to download 'GP Editor user manual' or 'GP, LP user manual for communication', 'GP-S044/S057 user manual'.

- **GP Editor user manual**
  It describes how to write screen data, and is about related usage of GP-S057 HMI function.
- **GP, LP user manual for communication**
  It describes connection for external devices such as PLC.
- **GP-S044/S057 user manual**
  It describes general information on the installation and usage of GP-S057 and system contents.

▣ Ordering information

Model	Item	Series	Monitor size	Display unit	Color	Power supply	Interface
GP-S057-S1D0	Graphic panel	S series	5.7 inch	STN LCD	MONO (blue, white)	24VDC	RS232C, RS422 (1EA for each)
GP-S057-S1D1							RS232C (2EA)

■ Specifications

Model	GP-S057-S1D0	GP-S057-S1D1
Power supply	24VDC	
Allowable voltage range	90 to 110% of power supply	
Power consumption	Max. 3.6W	
Display performance — LCD type	5.7inch STN blue negative	
Display performance — Resolution	320×240 dots	
Display performance — Display area	119mm×91mm	
Display performance — Color	MONO(blue, white)	
Display performance — LCD view angle	Top/Bottom/Left/Right 30°in each direction	
Display performance — Backlight	White LED	
Display performance — Brightness	Adjustable by software	
Graphic drawing performance — Language※1	English, Korean, Japanese, Chinese, Russian, Vietnamese, Portuguese	
Graphic drawing performance — Text	• High resolution display up to 1590 letters(6×8 font) • 6×8, 8×8 ASCII character, high definition numbers • 8×16 ASCII characters, 16×16 regional characters(1-8 times bigger for width, 0.5-5 times bigger for height)	
Graphic drawing performance — Graphic drawing memory	512 KB	
Graphic drawing performance — Number of user screen	500 pages	
Graphic drawing performance — Touch switch	Width 16×Height 12 = 192	
Serial interface	Each port of RS232C, RS422(asynchronous method)	Two ports of RS232C(asynchronous method)
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	
Dielectric strength	500VAC(50/60Hz) for 1 min.	
Vibration — Mechanical	0.75mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 1 hour	
Vibration — Malfunction	0.5mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 10 min.	
Shock — Mechanical	300m/s² (approx. 30G) in each of X, Y, Z directions for 3 times	
Shock — Malfunction	100m/s² (approx. 10G) in each of X, Y, Z directions for 3 times	
Environ-ment — Ambient temperature	0 to 50℃, storage : -20 to 60℃	
Environ-ment — Ambient humidity	35 to 85%RH, storage : 35 to 85%RH	
Protection ratings	IP65F(for front panel)	
Accessory	Fixing bracket : 4EA, Rubber waterproof ring, Battery(included)	
Approval	CE ℃	
Weight※2	Approx. 555g(approx. 376g)	

※1: Language can be customized.
※2: This weight is with packaging and the weight in parentheses is only unit weight.
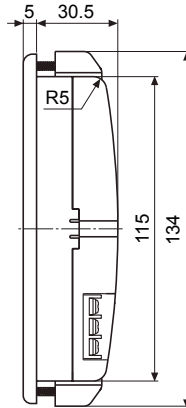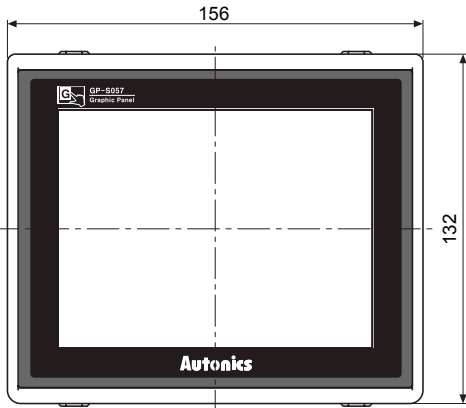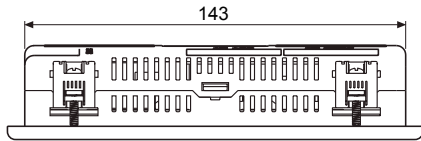※Environment resistance is rated at no freezing or condensation.

■ Functional description

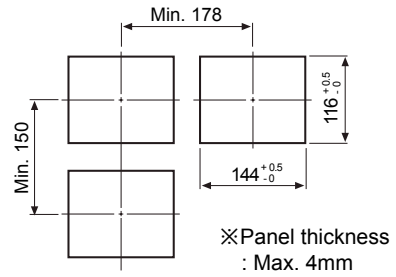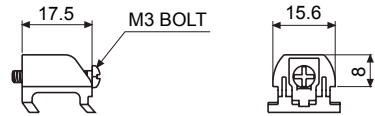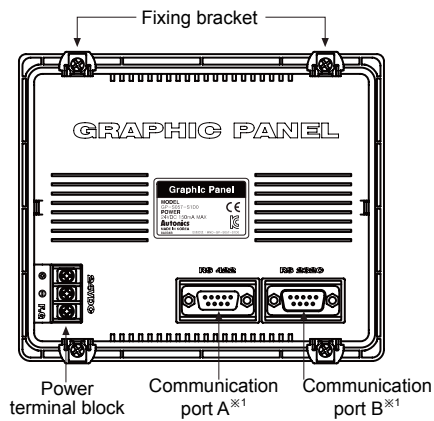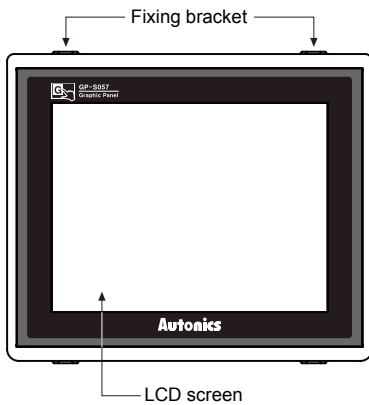| Figure display	Line, rectangle, circle, text, bitmap
Tags — Numeral display	Displays the designated device as numerical value. (decimal, hexadecimal, octal, binary, real number)
Tags — ASCII display	Displays the designated device value as ASCII character.
Tags — Time display	Displays current time or date.
Tags — Alarm history	Registers alarm history.
Tags — Alarm list	Displays generated (not backed up) alarm.
Tags — Comment display	Displays the designated comment as device status or value.
Tags — Lamp	Displays lamp as device status.
Tags — Part display	Displays the designated parts as device status and value.
Tags — Line graph	Displays several device values with a graph of broken line.
Tags — Trend graph	Displays change of device value for time with a graph of broken line.
Tags — Bar graph	Displays a device value with a bar graph.
Tags — Statistic graph	Displays a ratio of several device values with pie graph.
Tags — Panel meter	Displays a device value as panel meter.
Tags — Touch key	Screen is switched, word/bit device values are set when it touched.
Tags — Numeral input	Configures user input value in device.
Tags — 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)

143

156

132

5 30.5

R5

115

134

● **Panel cut-out**

Min. 178

116 $^{+0.5}_{-0}$

Min. 150

144 $^{+0.5}_{-0}$

※Panel thickness
: Max. 4mm

● **Fixing bracket**

17.5   M3 BOLT

15.6

8

GP-S057
Graphic Panel

Autonics

▣ Part description

Fixing bracket

GP-S057
Graphic Panel

Autonics

LCD screen

Fixing bracket

GRAPHIC PANEL

Graphic Panel

MODEL
GP-S057-S100
POWER
24VDC 190mA MAX
Autonics
made in korea

Power
terminal block

Communication
port A ※1

Communication
port B ※1

※1: Communication port

Communication port / Model	Port A	Port B
GP-S057-S1D0	RS422	RS232C
GP-S057-S1D1	RS232C-A	RS232C-B

※For more information, refer to R-32 page
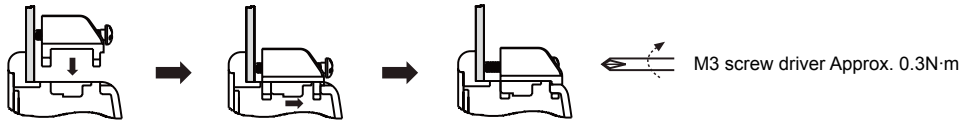and '▣Serial interface' of GP/LP common
features.

GP-S057

▣ Installation

1. Set a rubber waterproof ring after placing the ring's joining part under the GP-S057.
2. Adhere closely between each edge of the GP-S057 and the rings.
3. Set GP-S057 in panel.
4. Set the fix bracket to 4 bracket slots and fix them with bracket's screws.

(Upper view)

Mounting slot for bracket

Rubber waterproof ring

(Lower view)

● **Mounting bracket**

M3 screw driver Approx. 0.3N·m
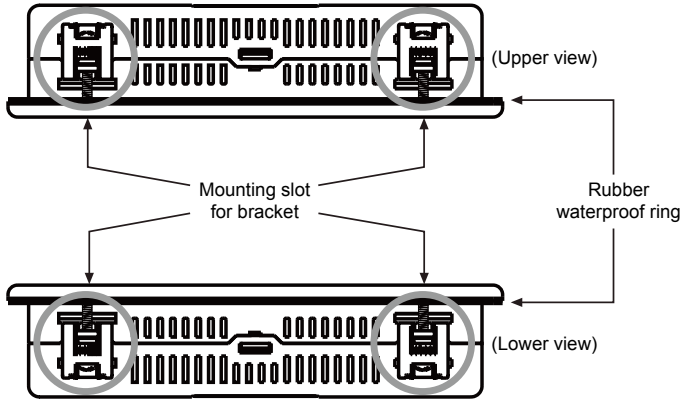
▣ Sold separately

Transmission cables connectable into external devies such as PLC are sold separately. (refer to the R-32 page for "GP/LP communication cable".)

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