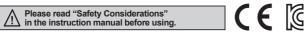
Basic Type 5.7 inch Mono LCD Graphic Panel

Features

- Displays max. 1590 characters
- Enables to save max. 500 pages of user screen
- Easy software upgrade available on website
 - (1) GP firmware file
 - (2) GP Editor (drawing program)(3) Additional protocol
- Different devices monitoring function
- : Allows to monitor and control the variables of additionally connected controllers (such as PLC) with external communication port
- 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.



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, website). Visit our website (www.autonics.com) to download manuals.

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 inc		ISTNICD	MONO (blue, white)	24VDC	Each port of RS232C, RS422
GP-S057-S1D1			5.7 Inch				Two ports of RS232C

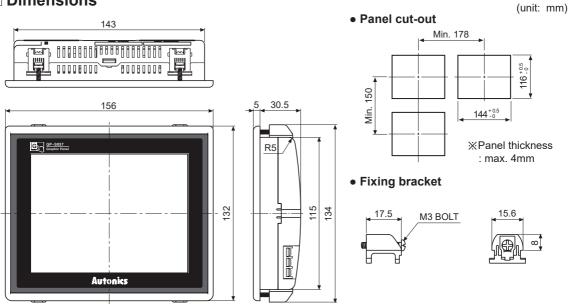
Touch Key	Numeral Display	ASCII Display
Alarm History	Alarm List	Alarm Floating
Line Graph	Trend Graph	Statistic Graph
Part Display	Panel Meter	
	Autonics	

Specifications

	specifications			
Mod	el	GP-S057-S1D0 GP-S057-S1D1	7	
Pow	er supply	24VDC	SENSORS	
Allo	wable voltage range	90 to 110% of power supply		
Pow	er consumption	Max. 3.6W	CONTROLLERS	
ce	LCD type	5.7 inch STN blue negative	CONTROLLERS	
lan	Resolution	320×240 dots		
Display performance	Display area	119×91mm	MOTION DEVICES	
erfe	Color	MONO (blue, white)		
۲ م	LCD view angle	Top/Bottom/Left/Right within 30°in each direction	1	
pla	Backlight	White LED	SOFTWARE	
Dis	Brightness	Adjustable by software	1	
_	Language ^{*1}	English, Korean, Japanese, Chinese, Russian, Vietnamese, Portuguese		
j ing	2	• High resolution display up to 1590 letters (6×8 font) • 6×8, 8×8 ASCII character, high definition numbers		
rav	Text	8×16 ASCII characters, 16×16 character by each country		
Graphic drawing		(1-8 times bigger for width, 0.5-5 times bigger for height)		
phi	Graphic drawing memor	y 512 KB		
Gra	Number of user screen	500 pages		
	Touch switch	Width 16×Height 12 = 192	(J)	
Seri	al interface	Each port of RS232C, RS422 (asynchronous method) Two ports of RS232C (asynchronous method)	Temperature Controllers	
Rea	I-time controller	RTC embedded		
	ery life cycle	Approx. 3 years at 25°C	(K) SSRs	
Insu	lation resistance	Over 100MΩ (at 500VDC megger)	SSRs	
Gro	und	3rd grounding (max. 100Ω)		
Nois	e immunity	± 0.5kV the square wave noise (pulse width: 1µs) by the noise simulator	(L) Power	
Diel	ectric strength	500VAC (50/60Hz) for 1 min	Controllers	
Vibr	ation Mechanical	0.75mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 1 hour		
VIDI	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 10 min	(M) Counters	
Sho	Mechanical	300m/s ² (approx. 30G) in each X, Y, Z direction for 3 times	Counters	
0110	Malfunction	100m/s ² (approx. 10G) in each X, Y, Z direction for 3 times		
Env	ron Ambient temperature		(N) Timers	
-me	nt Ambient humidity	35 to 85%RH, storage: 35 to 85%RH		
Prot	ection structure	IP65 (front panel, IEC standard)	(0)	
Acc	essory	Fixing bracket: 4, waterproof rubber ring, battery (included)	Digital Panel Meters	
App	roval			
Wei	ght ^{%2}	Approx. 565g (approx. 386g)	(P)	
※ 1:	Supported language can b	e added.	Indicators	
		ed at no freezing or condensation.		
	Function		(Q)	
Figu	re display	Line, rectangle, circle, text, bitmap	Converters	
	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.	(R) Digital	
	Time display	Displays current time or date.	Display Units	
	Alarm history	Registers alarm history.	- (0)	
	Alarm list	Displays generated (not backed up) alarm.	(S) Sensor	
- H	Comment display	Displays the designated comment as device status or value.	Controllers	
1 5	_amp	Displays lamp as device status.	(T)	
	Part display	Displays the designated parts as device status and value.	Switching Mode Power	
	_ine graph	Displays the designated parts as device status and value.	Supplies	
T P		Displays several device values with a graph of block mile.	- 40	
	Frend graph		(U) Recorders	
	Bar graph	Displays a device value with a bar graph.	_	
	Statistic graph	Displays a ratio of several device values with pie graph.	(V)	
	Panel meter	Displays a device value as panel meter.	(V) HMIs	
- I - H	Fouch key	Screen is switched, word/bit device values are set when it touched.		
- L - H	Numeral input	Configures user input value in device.	(W)	
	ASCII input	Configures user input ASCII code value in device.	Panel PC	
Syst	em information function	Monitors/Controls GP operation from PLC.		
Rec	ipe function	Reads/Writes several PLC device collectively.	(X) Field Network	
Sec	urity function	Only acceptable user can observe/operate important data.	Devices	
Baro	code read function	Connects barcode reader, read barcode.		
Floa	ting alarm function	Warning message is floated when alarm is generated.		
Time	e operation	Specific bit device is ON/OFF for designated day and time.	7	
	rlap window	Available to form dynamically overlapping another base screen on the base one.	7	
	erve status function	Changes PLC device status/value of PLC when trigger is generated.	7	

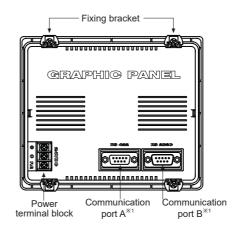


Dimensions



Unit Description





Ж1:	Communication	port

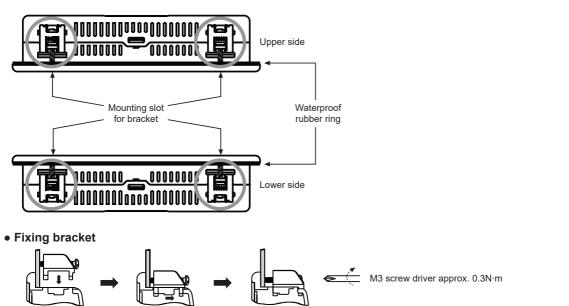
Communication port	Port A	Port B
Model		
GP-S057-S1D0	RS422	RS232C
GP-S057-S1D1	RS232C-A	RS232C-B

※For more information, refer to '■ Serial Interface' of GP/LP Common Features.

Basic Type 5.7 inch Mono Graphic Panel

Installation

- 1. Set a waterproof rubber ring after placing the joining part of the ring 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 fixing bracket to 4 bracket slots and fix them with the screw of the bracket.



Serial Interface

- All devices are connectable with GP-S057 including PC, PLC, serial printer, barcode reader and dedicated connectors can be connected with both RS232C and RS422 ports.
- Use the dedicated communication cable for the each connected device. (Refer to the "GP/LP Communication Cables")
- For the method of wiring external devices like PLC, refer to "GP/LP communication manual".

Port	NO.	Pin
RS232C	1	Not used
5	2	RXD
	3	TXD
	4	DTR
	5	SG
2 • 6	6	DSR
	7	Not used
D-Sub 9-pin	8	Not used
Male	9	Not used
RS422	1	TXD+
5 0	2	RXD+
	3	Not used
	4	Not used
	5	SG
2 0 9	6	TXD-
	7	RXD-
D-Sub 9-pin	8	Not used
Female	9	Not used

(W) Panel PC (X) Field Network

Devices

(V) HMIs

SENSORS

CONTROLLERS

MOTION DEVICES

SOFTWARE

(J) Temperature Controllers

(K) SSRs

(L) Power Controllers

(M) Counters

(N) Timers

(O) Digital Panel Meters

(P) Indicators

(Q) Converters

(R) Digital Display Units

(T) Switching Mode Power Supplies (U) Recorders

(S) Sensor Controllers

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".

Power Wiring

- For power supply, use the wire of which cross section is at least 0.75mm² and use the wire of which cross section is at least 1.25mm² for grounding.
- Use round terminal with at least 3mm of internal diameter and less than 6mm of external diameter.
- Do not apply power before power line connection.
- Check power polarity.
- Tighten the terminal screw with 0.5 to 0.8N m torque.
- Ground resistance should be less than 100Ω and ground it separately.

Battery Replacement

Please contact out distributor to replace battery. It may cause an explosion or a fire when improper battery is used.

Cautions during Use

- 1. Follow instructions in 'Cautions during Use'. Otherwise, it may cause unexpected accidents.
- 2. 24VDC power supply should be insulated and limited voltage/current or Class 2, SELV power supply device.
- 3. Install a power switch or circuit breaker in the easily accessible place for supplying or disconnecting the power.
- 4. Operate the product after supplying power to the product, input/output equipment, and load. If operate product before supplying power, it may result in output error or malfunction.
- 5. Keep away from high voltage lines or power lines to prevent inductive noise. Do not use near the equipment which generates strong magnetic force or high frequency noise.
- 6. Make a required space around the unit for radiation of heat, and do not block ventilation openings.
- 7. Do not push the touch panel with a hard and sharp object or push the panel with excessive force.
- It may result in fire or malfunction.
- When skin is smeared with liquid crystal from the broken LCD, rinse with running water for over 15 minutes. If it gets into the eyes, rinse eyes with running water for over 15 minutes and contact a doctor.
- 9. This unit may be used in the following environments.
 ①Indoors (in the environment condition rated in 'Specifications')
 ②Altitude max. 2,000m
 ③Pollution degree 2
 ④Installation category II

