38mm Slim design, touch screen, and better reliability
Graphic panel GP-S044

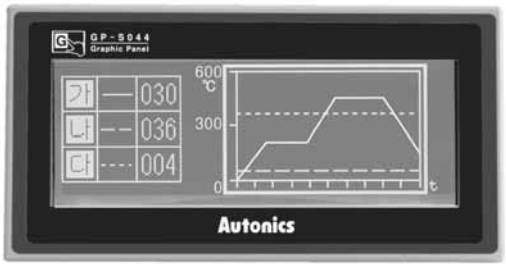
▣GP(Graphic Panel)-S044?

GP(Graphic Panel) is a function to monitor and display controller's operation on graphic screen.

※It's a replacement of GP-2480 Series - discontinued product

Upgrade

4.4"
MONO



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

▣Features

- ●Display max. 400 characters
- ●Able to save max. 500 pages of user screen
- ●Easy S/W 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
- ●Multlingual support
  : Support for Korean, Japanese, English, Chinese and Russian. Additional languages will be available later on.
- ●Mult-font support
  : It provides various bitmap and user-selected fonts.
- ●Mult communication port
  : Both RS232 2 port and RS 232/RS422 compound port provided.
- ●Device monitoring
  : It enables to monitor connectable controller device in main system without graphic design data.
- ●Printer and barcode reader connection
  : It enables to print alarm history connecting into the printer and read barcode connecting into barcode reader.
- ●Compact design
- ●Its 38mm of slim design provides space-efficient solution.
- ●Various display function
  : It displays data by various tags.

▣Ordering information

GP - S 044 - S 1 D 0

Communication port	**0**	RS232C, RS422 (1each)
	1	RS232C (2)
Power supply	**D**	24VDC
Color	**1**	MONO (Blue, White)
Display unit	**S**	STN LCD
Monitor size	**044**	4.4"
Series	**S**	S series
Itme	**GP**	Graphic panel

▣Specifications

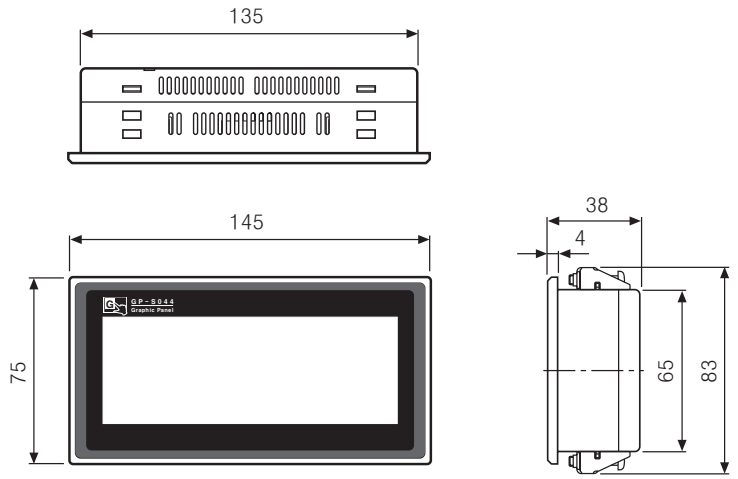
Model		GP-S044-S1D0	GP-S044-S1D1
Power supply		24VDC ±10%	
Power consumption		3.6W(Max.)	
Display performance	LCD type	STN Blue Negative	
	Resolution	240×80 dots	
	Display area	112.8mm×37.6mm	
	Color	MONO(Blue, White)	
	LCD view angle	Top/bottom/left/right 30° in each direction	
	Backlight	White LED	
	Brightness	Adjustable by software	
Graphic drawing performance	Language	English, Korean, Japanese, Chinese, Russian	
	Text	• High resolution display up to 400 letters • 6×8, 8×8 ASCII character, High quality view of numbers • 8×16 ASCII characters, 16×16 regional characters(1-8 times bigger for width, 0.5-5 times bigger for height)	
	Graphic drawing memory	512 KB	
	Number of user screen	500 pages	
	Touch switch	Width 15×Height 4 = 60	
Serial interface		RS232C, RS422 (1each)	RS232C (2)
Real-time controller		RTC embedded	
Ambient temperature		0 ~ 50℃(at non-freezing status)	
Storage temperature		-20 ~ 60℃(at non-freezing status)	
Ambient humidity		35% ~ 85% RH(at non-dew status)	
Insulated resistance		Min. 100MΩ(at 500VDC megger)	
Ground		3rd grounding(Max. 100Ω)	
Noise trength		The square wave noise (Pulse width 1㎲) by the noise simulator with ±500V R/S phase and repetition frequency 60Hz	
Dielectric strength		500VAC(50/60Hz) for a minute	
Vibration	Mechanical	0.75mm amplitude at frequency of 10~55Hz (for a minute) in each of X, Y, Z directions for an hour	
	Malfunction	0.5mm amplitude at frequency of 10~55Hz (for a minute) in each of X, Y, Z directions for 10 minutes	
Shock	Mechanical	300m/s² (30G) in X, Y, Z directions for 3 times	
	Malfunction	100m/s² (10G) in X, Y, Z directions for 3 times	
Protection ratings		IP65F for front panel	
Accessory		Fixing bracket : 4pcs, Rubber waterproof ring, Battery included	
Unit weight		Approx. 300g	

※Language can be customized.

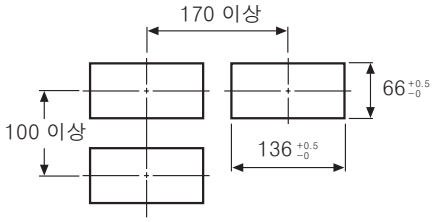
▣Functional Description

Memory screen			500page(Memory 512KB)
User Screen	Figure display		Line, Rectangle, Circle, Text, Bitmap
	Tags	Numeral display	Display the designated device as numerical value. (Decimal, hexadecimal, octal, binary, real number)
		ASCII display	Display the designated device value as ASCII character.
		Time display	Display current time or date.
		Alarm history	Register alarm history.
		Alarm list	Display generated (not backed up) alarm.
		Comment display	Display the designated comment as device status or value.
		Lamp	Display lamp as device status.
		Part display	Display the designated parts as device status and value.
		Line graph	Display several device values with a graph of broken line.
		Trend graph	Display change of device value for time with a graph of broken line.
		Bar graph	Display a device value with a bar graph.
		Statistic graph	Display a ratio of several device values with pie graph.
		Panel meter	Display a device value as panel meter.
		Touch key	Screen is switched, word/bit device values are set when it touched.
		Numeral input	Configure user input value in device.
		ASCII input	Configure user input ASCII code value in device.
	System information function		Monitor/control GP operation from PLC.
	Recipe function		Read/Write several PLC device collectively.
	Security function		Only acceptable user can observe/operate important data.
	Barcode read function		Connect 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		Change PLC device status/value of PLC when trigger is generated.

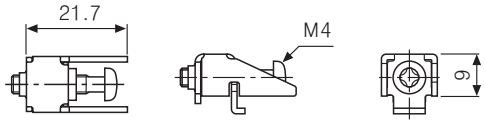
▣Dimensions



●Panel cut-out

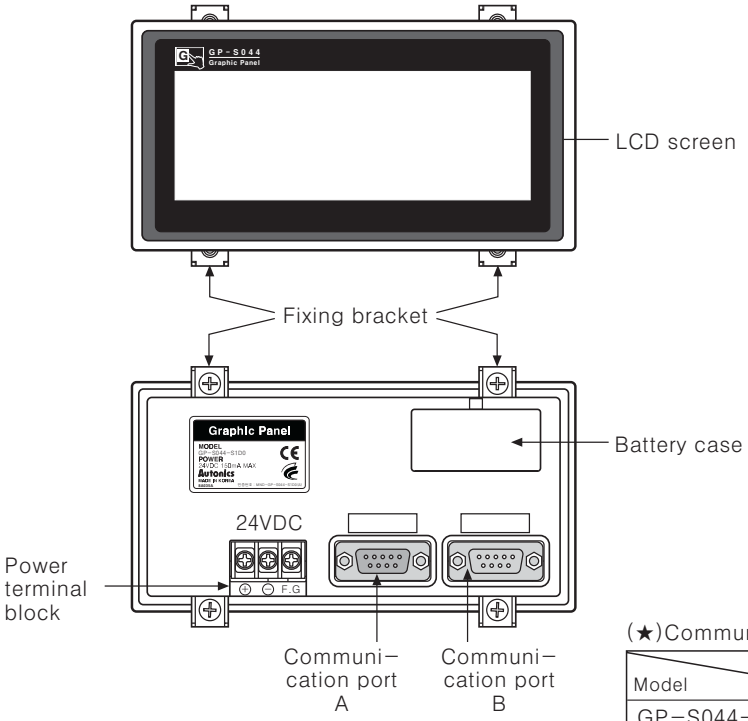


●The fixing bracket



(Unit : mm)

▣Part description



(★)Communication port

Model \ Communication port	Port A	Port B
GP-S044-S1D0	RS422-A	RS232C-B
GP-S044-S1D1	RS232C-A	RS232C-B