Color LCD Graphic Panel

GP-A Series

CATALOG

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.
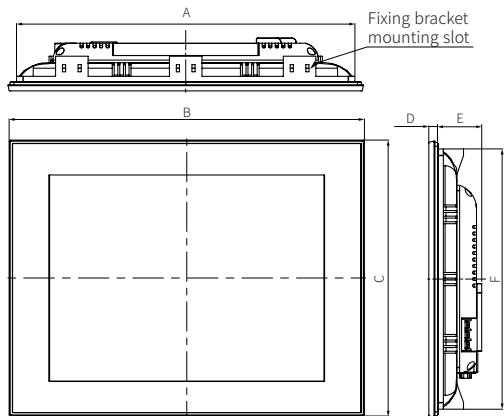The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Features

- Equipped with TFT LCD for realizing True color
- Horizontal/Vertical installation according to environment
- Available to monitor device of the connected controllers even without user screen data
- Using user screen drawing program 'atDesigner'
  : More variety functions, objects and library image
  : Intuitive user interface
  : Multilingual table function: switching language of user screen by touching a button
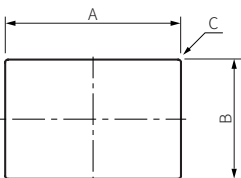- Various communication interface: RS232C, RS422, Ethernet, CAN

Ordering Information

This is only for reference, the actual product does not support all combinations. For selecting the specified model, follow the Autonics website.

GP	-	A	❶	-	T	❷	D	❸

❶ Screen size
046: 4.6 inch
057: 5.7 inch
070: 7.0 inch
104: 10.4 inch

❷ Display color
8: 262,144 color
9: 16,777,216 color

❸ Interface

Model	❸	RS232C	RS422	CAN	Micro SD	USB Host	USB Device	Ethernet
GP-A 046/057/070	6	1	1	-	-	1	1	1
	7	2	-	-	-			
GP-A104	8	1	1	1	1			
	9	2	-	1	1			

Product Components

- Graphic panel + built in battery
- 4.6 / 5.7 / 7.0 inch: 4 fixing brackets
- 10.4 inch: 6 fixing brackets, CAN connector
- Sold separately: communication cable

Specifications

	GP-A046	GP-A057	GP-A070	GP-A104
Screen size	4.6 inch	5.7 inch	7.0 inch	10.4 inch
LCD type	TFT Color LCD			
Resolution	800×320 pixel	640×480 pixel	800×480 pixel	800×600 pixel
Display area	108×43.2 mm	115.2×86.4 mm	154.4×93.44 mm	211.2×158.4 mm
Display color	16,777,216 color	262,144 color	16,777,216 color	16,777,216 color
LCD view angle (top/bottom/left/right)	Within 75°/70°/80°/80° of each	Within 70°/70°/80°/80° of each	Within 50°/70°/65°/65° of each	Within 60°/70°/80°/70° of each
Backlight	White LED			
Luminance adjustment	Adjustable by software			
Touch	Resistive type (4-wire)			
Approval	CE ℝ EAC			
Unit weight (packaged)	≈ 272 g (≈ 382 g)	≈ 489 g (≈ 644 g)	≈ 520 g (≈ 706 g)	≈ 1.07 kg (≈ 1.62 kg)

Serial interface	RS232C, RS422
USB interface	USB Host, USB Device(USB2.0)
Ethernet interface	IEEE802.3(U), 10/100Base-T
CAN interface	24V CAN transceiver
External storage	Micro SD up to 32GB (FAT16/32)
Real-time controller	RTC embedded
Battery life cycle	3 years at 25°C

Supportive interface can be different up to model. For the detailed information, please refer to 'Ordering Information'.

Language	Korean, English
Text	Bitmap and vector font
Memory for user screen	64MB
Number of user screen	100 pages

Power supply	24 VDC⎓
Allowable voltage range	90 to 110% of power supply
Power consumption	4.6 inch : ≤ 4.8 W, 5.7 / 7.0 inch : ≤ 7.2 W, 10.4 inch : ≤ 8.0 W
Insulated resistance	≥ 100 MΩ (500 VDC⎓ megger) (between all terminals and case)
Ground	3rd grounding (≤ 100 Ω)
Noise immunity	The square wave noise (pulse width: 1μs) by the noise simulator ± 0.5 kV
Dielectric strength	500 VAC~ 50/60 Hz for 1 minute (between all terminals and case)
Vibration	0.75 double amplitude at frequency of 10 to 55 Hz in each X, Y, Z direction for 1 hour
Vibration (malfunction)	0.5 double amplitude at frequency of 10 to 55 Hz in each X, Y, Z direction for 10 minutes
Shock	147 m/s² (approx. 15 G) in each X, Y, Z direction for 3 times
Shock (malfunction)	100 m/s² (approx. 10 G) in each X, Y, Z direction for 3 times
Ambient temperature	0 to 50°C, storage: -20 to 60°C (a non freezing or condensation environment)
Ambient humidity	35 to 85%RH, storage : 35 to 85%RH (a non freezing or condensation environment)
Protection structure	IP65 (front panel, IEC standard)

CE ℝ EAC

Dimensions

• Unit: mm, For the detailed dimensions of the product, follow the Autonics web site.

Fixing bracket mounting slot

	A	B	C	D	E	F
4.6 inch	135	143.5	75.5	6.5	36	67
5.7 inch	160	168.5	128.5	6.5	36	120
7.0 inch	185	194	134	6.5	28.5	125
10.4 inch	260	273	212	7.2	34	200

• Panel cut-out

	A	B	C
4.6 inch	$135.5^{+1.1}_{0}$	$67.5^{+1.1}_{0}$	$\leq$ 4-R3
5.7 inch	$160.5^{+1.0}_{0}$	$120.5^{+1.0}_{0}$	$\leq$ 4-R3
7.0 inch	$186^{+1.1}_{0}$	$126^{+1.0}_{0}$	$\leq$ 4-R3
10.4 inch	$260.5^{+1.1}_{0}$	$200.5^{+1.0}_{0}$	$\leq$ 4-R3

• Fixing bracket
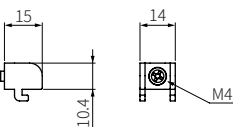
Software

Visit Autonics web site to download software.

• atDesigner

atDesigner is for editing project file.

Recommended computer specification for atDesigner is as below.

Item	Recommended spec
Operating system	Windows 7/10
CPU	Intel Core i5-2nd gen. 2500
Memory	8GB
Hard disk	8GB free space
Resolution	1920×1080

• Firmware

Please refer to 'GP-A Series user manual' for firmware upgrade.