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

Specifications

Appea		(€ 🖫			
Appearances		030 050			
Power	supply	24VDC			
Allowa	ble voltage range	90 to 110% of power supply			
Power	consumption	Max. 3.6W			
- 1	_CD type	4.4 inch STN Blue Negative			
luce	Resolution	240×80 dots			
Display performance	Display area	112.8mm×37.6mm			
erfo	Color	MONO(blue, white)			
ay p	_CD view angle	Top/Bottom/Left/Right 30° in each direction			
ispl	Backlight	White LED			
	Brightness	Adjustable by software			
	_anguage ^{*1}	English, Korean, Japanese, Chinese, Russian, Vietnamese, Portuguese			
Graphic drawing performance	Text	• High resolution display up to 400 letters(6×8 font) • 6×8, 8×8 ASCII characters, high definition numbers • 8×16 ASCII characters, 16×16 regional characters(1-8 times bigger for width, 0.5-5 times bigger for height)			
phic if	Graphic drawing memory	512 KB			
Gra	Number of user screen	500 pages			
-	Touch switch	Width 15×Height 4 = 60			
Serial	interface	Each port of RS232C, RS422(asynchronous method) Two ports of RS232C(asynchronous method)			
Real-ti	me controller	RTC embedded			
Battery	/ life cycle	Approx. 3 years at 25°C			
Insulat	ed resistance	Min. 100M Ω (at 500VDC megger)			
Groun	d	3rd grounding(max. 100Ω)			
Noise	resistance	± 0.5kV the square wave noise(pulse width: 1μs) by the noise simulator			
Dielec	tric strength	500VAC(50/60Hz) for 1 min.			
Vibrati	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 1 hour			
VIDIALI	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			
Enviro	n Ambient temperature	0°C to 50°C, storage: -20°C to 60°C			
		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		C € №			
Weight**2		Approx. 413g(approx. 284g)			

X1: Language can be customized.

X2: This weight is with packaging and the weight in parentheses is only unit weight.

 $\ensuremath{\mathbb{X}}\xspace$ Environment resistance is rated at no freezing or condensation.

Photo electric sensor Fiber optic

Door/Area sensor

Pressure

Rotary

Connector/ Socket

controller

Power controller

Tacho/ Speed/ Pulse meter

Display

Sensor

Switching mode power supply

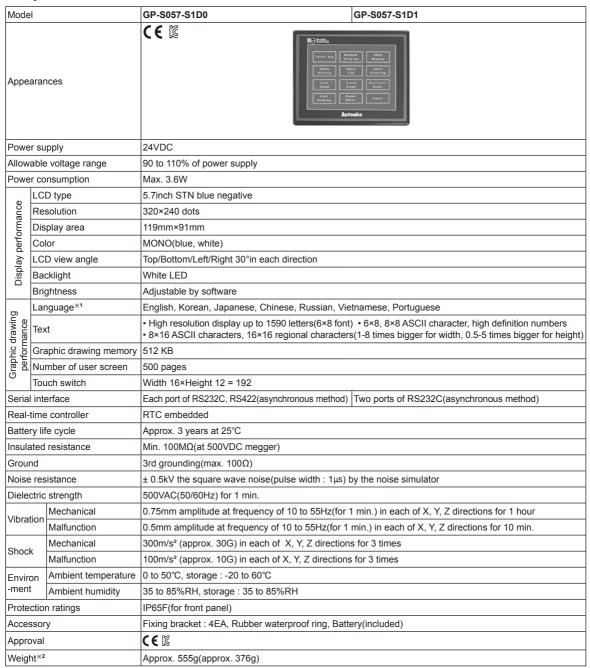
Stepper motor& Driver&Controller

Graphic/ Logic panel

Field network device

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

Specifications



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XEnvironment resistance is rated at no freezing or condensation.

7 inch wide screen, TFT Color LCD type Graphic touch panel GP-S070

Specifications

Mode	el	GP-S070-T9D6	GP-S070-T9D7		
Appearances		NEW CE CO			
Powe	er supply	24VDC			
Allow	able voltage range	90 to 110% of power supply			
Powe	er consumption	Max. 7.2W			
4)	LCD type	7 inch TFT Color LCD			
ance	Resolution	800×480 dots			
rms	Display area	152.4mm×94.44mm			
Display performance	Color	16,777,216 color			
аур	LCD view angle	Within each 50°/ 60°/ 65°/ 65° of top/bottom/left/right			
ispl	Backlight	White LED			
	Brightness	Adjustable by software			
D	Language*1	English, Korean			
Graphic drawing performance	Text	Vector font • 6×8, 8×8 ASCII character, high defini • 8×16 ASCII characters, 16×16 regional characters(1 to 8)			
hic.	Graphic drawing memory	16MB			
irap per	Number of user screen	500 pages			
O	Touch switch	Analog touch			
Caria	ıl interface	Asynchronous method: Each port of RS232C, RS422			
Selia	ii iiileiiace	Each port of RS232C, RS422	Two ports of RS232C		
USB	interface	Each of USB HOST, USB Device(Version 1.1)			
Ether	rnet interface	IEEE802.3(U), 10/100Base-T			
Real-	-time controller	RTC embedded			
Batte	ery life cycle	Approx. 3 years at 25°C			
Insul	ated resistance	Min. 100MΩ(at 500VDC megger)			
Grou	nd	$3 rd grounding(max. 100\Omega)$			
Noise	e resistance	± 0.5kV the square wave noise(pulse width: 1μs) by the noise simulator			
Withs	standing voltage	500VAC 50/60Hz for a minute			
Vibra	Mechnical	0.75mm amplitude at frequency of 10 to 55Hz(for 1 mir	n.) in each of X, Y, Z directions for 1 hour		
VIDIC	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 10 min.			
Shoc	Mechanical	300m/s²(approx. 30G) in each of X,Y,Z directions for 3 times			
	Malfunction	100m/s²(approx. 10G) in each of X,Y,Z directions for 3 times			
Envir	•	0 to 50°C, storage: -20 to 60°C			
-men	t Ambient humidity	35 to 85% RH, storage: 35 to 85%RH			
Protection		IP65F for front panel			
Accessory		Fixing bracket: 4EA, Battery(included)			
Approval		C € ©			
Unit weight		Approx. 520g			

X1: Language can be customized.

Photo electric sensor

Door/Area sensor

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Pressure

Rotary

Connector

SSR/ Power

Counter

Tacho/ Speed/ Pulse meter

Display unit

Sensor

Switching mode power supply

Stepper motor& Driver&Controller

Graphic/ Logic panel

Field network device

XEnvironment resistance is rated at no freezing or condensation.

Graphic panel + PLC function Logic panel LP-S044

Specifications

Model		LP-S044-S1D0-C5T-A	LP-S044-S1D0-C5R-A	LP-S044-S1D1-C5T-A	LP-S044-S1D1-C5R-A	
Appearances		Ladder Monitoring Ladder Monitoring U CTU Cooo				
I/O co	nnector type	Terminal block connector	Ribbon cable connector	Terminal block connector	Ribbon cable connector	
Powe	r supply	24VDC				
Allowa	able voltage range	90 to 110% of power supply				
Powe	r consumption	Max. 3.6W				
	LCD type	4.4inch STN Blue Negative				
ا به	Resolution	240×80 dots				
anc	Display area	112.8mm×37.6mm				
ispl	Color	MONO(blue, white)				
Display performance	LCD view angle	Top/Bottom/Left/Right 30°	in each direction			
	Backlight	White LED				
	Brightness	Adjustable by software				
ا ق	Language*1	English, Korean, Japanese, Chinese, Russian, Vietnamese, Portuguese				
Graphic drawing performance	Text	 High resolution display up to 400 letters 6×8, 8×8 ASCII character, high definition numbers 8×16 ASCII characters, 16×16 regional characters(1 to 8 times bigger for width, 0.5 to 5 times bigger for height) 				
일일	Graphic drawing memory	384 KB				
lap ber	Number of user screen	500 pages				
٥	Touch switch	Width 15×Height 4 = 60				
	Command	Basic command : 28, application command : 220				
_ e	Program capacity	8K step				
Control	Processing time	Average : 6 to 7μs/step				
3 5	I/O control type	Batch processing				
l e	Computer control mode	Repeated-doubling method, interrupt processing				
	Device range	*Refer to LP-S044 user manual				
Serial	interface	Each port of RS232C, RS422(asynchronous method) Two ports of RS232C(asynchronous method)				
Real-t	ime controller	RTC embedded				
	y life cycle	Approx. 3 years at 25°C				
	ted resistance	Min. 100MΩ(at 500VDC megger)				
Grour	nd	3rd grounding(max. 100Ω)				
Noise	trength	± 0.5kV the square wave noise(pulse width : 1μs) by the noise simulator				
Dielec	tric strength	500VAC(50/60Hz) for a m				
Vibrat	Mechanical ion	0.75mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 1 hour				
	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 10 min.			ions for 10 min.	
Shock	Mechanical	300m/s²(approx. 30G) in each of X, Y, Z directions for 3 times				
	Maltunction	100m/s²(approx. 10G) in each of X, Y, Z directions for 3 times				
Enviro						
-ment		35 to 85% RH, storage : 35 to 85% RH				
Protection ratings IP65F(for front panel)						
Acces		Fixing bracket : 4EA, Rubber waterproof ring, Battery included				
Appro		(€ ®				
Weigh)[*²	Approx. 454g(approx. 312	(g)			

X1: Language can be customized.

X2: This weight is with packaging and the weight in parentheses is only unit weight.

 $[\]ensuremath{\mathbb{X}}$ Environment resistance is rated at no freezing or condensation.

7inch wide screen, TFT Color LCD type Graphic panel + PLC function Logic panel LP-S070

Specifications

Model		LP-S070-T9D6-C5T	LP-S070-T9D6-C5R	LP-S070-T9D7-C5T	LP-S070-T9D7-C5R		
Appea	arances	NEW C€ IS	● 1181 ● 1181 1-1-1	Section Williams			
I/O co	nnector type	Terminal block connector Ribbon cable connector Terminal block connector Ribbon cable connector					
Power	supply	24VDC					
Allowa	able voltage range	90 to 110% of power supply					
Power	consumption	Max. 7.2W					
	LCD type	7 inch TFT Color LCD					
_ n	Resolution	800×480 dots					
l Sc	Display area	152.4mm×94.44mm					
spla	Color	16,777,216 color					
Display performance	LCD view angle		/ 65° of top/bottom/left/righ	t			
be	Backlight	White LED	, ,				
	Brightness	Adjustable by software					
	Language ^{×1}	English, Korean	-				
king l		, ,	8 ASCII character, high defin	nition numbers			
dra nan	Text	8×16 ASCII characters, 16×16 regional characters(1 to 8 times bigger for width, 0.5 to 5 times bigger for height)					
Graphic drawing performance	Graphic drawing memory						
aph	Number of user screen	500 pages					
5	Touch switch	Analog touch					
	Command	Basic command : 28, application command : 233					
	Program capacity	8K step					
Control performance	Processing time	Average : Approx. 2us/basic command, application command					
Control	I/O control type	Batch processing					
ပြည့်	Computer control mode	Repeated-doubling method, interrupt processing					
B	Device range	*Refer to LP-S070 user manual					
	Special function	Positioning function *Refer to LP-S070 user manual					
	•	Asynchronous method: Each port of RS232C, RS422					
Serial	interface	Each port of RS232C, RS		Two ports of RS232C			
USB i	nterface	Each of USB Host, USB		· · · · · · · · · · · · · · · · · · ·			
	net interface	IEEE802.3(U), 10/100Base-T					
	ime controller	RTC embedded					
	y life cycle	Approx. 3 years at 25°C					
	ted resistance	Min. 100MΩ(at 500VDC megger)					
Groun	d	3 rd grounding(max. 100Ω)					
Noise	immunity	The squre wave noise(pulse width 1µs) by the noise simulator with ± 0.5kV					
	anding voltage	500VAC 50/60Hz for a minute					
Vibra	Mechanical			min.) in each of X. Y. Z dire	ections for 1 hour		
-tion	Malfunction	0.75mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 1 hour 0.5mm amplitude at frequency of 10 to 55Hz(for 1 min.) in each of X, Y, Z directions for 10 min.					
	Mechnical	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					
Enviro		0 to 50°C, storage: -20 to 60°C					
Environ Ambient temperature 0 to 50°C, storage: -20 to 60°C -ment Ambient humidity 35 to 85%RH, storage: 35 to 85%RH							
Protection IP65F(for front panel)							
Accessory		Fixing bracket: 4EA, Battery(included)					
Appro	-	CE &					
Unit w		Approx. 540g					
	engric	I. Phiov. o log					

X1: Language can be customized.

XEnvironment resistance is rated at no freezing or condensation.

Photo electric sensor

> iber optic

Door/Area sensor

sensor

Pressure sensor

Rotary

Connector/

Temp. controller

SSR/ Power controller

Tacho/ Speed/ Pulse meter

Display

controller

Switching mode power supply

Stepper motor& Driver&Controller

Graphic/ Logic panel

network device

Selection Guide

■ Input/Output performance

• LP-S044

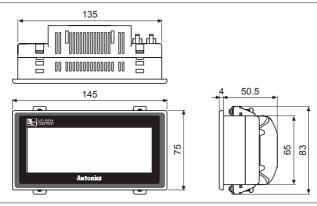
Input performance		Output performance		
Input point	16 points	Output point	16 points	
Insulation method	Photo coupler insulation	Insulation method	Photo coupler insulation	
Voltage range	19.2 to 28.8VDC	Voltage range	19.2 to 28.8VDC	
Rated input voltage	24VDC	Rated input voltage	24VDC	
Rated input current	Approx. 4mA	Max. load current	0.1A/1point, 1A/1COM	
Input resistance	5.6kΩ	Max. voltage falling when ON	Max. 0.2VDC	
Response time	1ms	Response time	1ms	
Common method	16 points/1COM	Common method	16 points/1COM	

• LP-S070

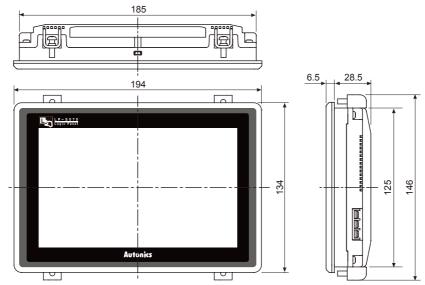
Input performance		Output performance		
Input point	16 points	Output point	16 points	
Insulation method	Photo coupler insulation	Insulation method	Photo coupler insulation	
Voltage range	19.2 to 28.8VDC	Voltage range	19.2 to 28.8VDC	
Rated input voltage	24VDC	Rated input voltage	24VDC	
Input resistance	Contact X0 to X5: Approx. 10mA Contact X6 to XF: Approx. 4mA	Max. load current	0.1A/1point, 1.6A/1COM	
Input resistance	Contact X0 to X5: 2.2kΩ, Contact X6 to XF: 5.6kΩ	Max. voltage falling when ON	Max. 0.2VDC	
Response time	1ms	Response time	1ms	
Common method	16 points/1COM	Common method	16 points/1COM	
Acceptable wire	0.3 to 0.7mm ²	Acceptable wire	0.3 to 0.7mm ²	

■ **Dimensions** (unit: mm)

• LP-S044



• LP-S070



Selection Guide

