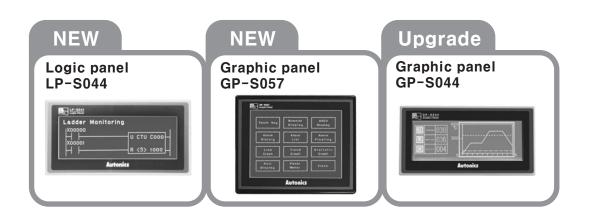
## (R) Graphic Panel/ Logic Panel

General features ————————————————————————————————————	R-1
Product overview —	R - 7
Graphic panel	
GP-S044(4.4" MONO, touch type) Upgrade	R-8
GP-S057(5.7" MONO, touch type) NEW -	R-11
Logic panel	
_P-S044(4.4 " MONO, touch type) NEW	R-14
GP/LP common features ————————————————————————————————————	R-18
Communication cable —————	R-19



(A) Photo electric sensor

(B) Fiber optic sensor

(C) Door/Area sensor

(D) Proximity sensor

(E) Pressure sensor

Rotary encoder

(G) Connector/ Socket

Temp.

(I) SSR/ Power controller

(J) Counter

(K) Timer

(L) Panel meter

(M) Tacho/ Speed/ Pulse meter

(N) Display unit

(O) Sensor controller

(P) Switching power supply

(Q) Stepping motor & Driver & Controller

#### (R) Graphic/ Logic panel

(S) Field network device

(T) Production stoppage models & replacement

#### ■GP(Graphic Panel)?





Graphic panel is HMI(Human Machine Interface) device that parameter monitors or changes via graphic interface by communication with PLC, temperature controller or other control units.

Graphic interface of GP is very effective to indicate value or status of parameter with visual interface that enables the communication between controller and user.

GP is able to monitor parameters virtually with LCD screen, switch screen by touching screen, set or change parameters. GP connecting with controller via serial communication method translates data and displays various control parameters with graphic .

For example, in case of the target of parameters is the temperate, the numerical value of temperature is shown with a tag and the change in temperature for time can be graphed on the screen.





The numerical value of temperature

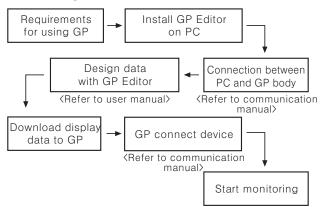
Graph of temperature

#### ■Preparation for using GP

- 1) GP body
- 2) PC
- 3) GP Editor
  - -Software for editing the screen
- 4) Manual
  - GP user manual
  - Communication manual
- 5) Communication cable
  - Communication cable for PC connection
  - Communication cable for controller connection
- 6) Access devices

(PLC or controller built in communication ports)

#### ■Basic operation flow



#### Advantages of using GP

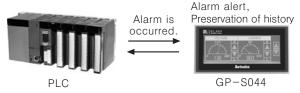
©Complicated environment of operation and control

It graphicalizes mechanical control components such as button, switch and lamps so that saves cost and space and improves the preservation of devices.



#### OSetting and change of production process

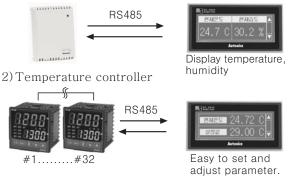
It memorizes the set conditions (Recipe) of process in GP, and it sets or changes commands to PLC without PC. It enhances reliability of production line with fast corresponding alarm of error and preserving the history.



#### ©Convenient setting by user

It sets complicated or non-displaying controller (Thermometer/hygrometer, temperature controller etc).

1) Temperature/Humidity without display device



#### ©Effective data control

It prints alarm history of controller using printer. It reads the data from barcode reader and save it in PLC.



GP-S044

Printer

2)Barcode reader/PLC

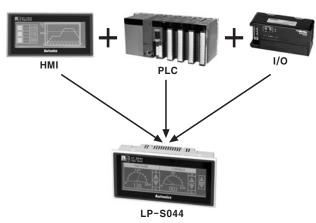


©Communication between heterogeneous controllers



R-1 Autonics

#### ■LP(Logic Panel)?



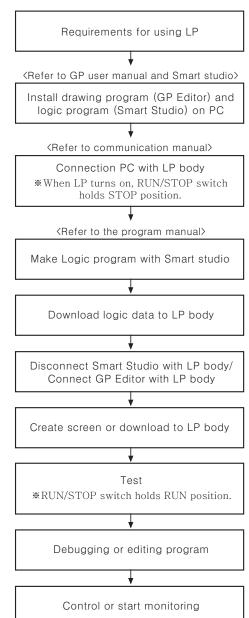
Logic panel is created for integrated panel in most demanding industrial environments that have been consisted of HMI, PLC and I/O. The LP through integration realizes cost down, wire reduction, space saving and enhanced user friendliness. The logic panel perfectly supports serial communication and editing display with GP Editor and about 250 commands of Smart studio invented on our own to edit PLC ladder/mnemonic, allowing accelerating product development and designing. And also this device can control and monitor various output devices (sensors, button, etc) and output devices (solenoid, lamp, motor, etc) individually.

#### Preparations for using LP

- 1) LP body
- 2) PC
- 3) Software
- ① GP Editor
  - Software for editing LP display
- 2 Smart Studio
  - Software for logic program
- 4) Manual
  - GP user manual
  - Communication manual
  - Smart Studio manual
  - Program manual (Instruction)
  - LP install manual
- 5) Communication cable
  - Communication cable for PC connection
  - Communication cable for controller connection
- 6) Access device

(PLC or controller built in communication ports)

#### ■ Basic operation flow



★Refer to the manual for details on website(www.autonics. com) resources. (A) Photo electric sensor

(B) Fiber optic sensor

(C) Door/Area

(D) Proximity sensor

(E) Pressure sensor

(F) Rotary encoder

(G) Connector/ Socket

(H) Temp. controller

(I) SSR/ Power controller

(J) Counter

(K) Timer

(L)

Panel meter (M) Tacho/

Speed/ Pulse meter (N) Display unit

(0)

Sensor controller

(P) Switching power supply

(Q) Stepping motor & Driver & Controller

(R) Graphic/ Logic panel

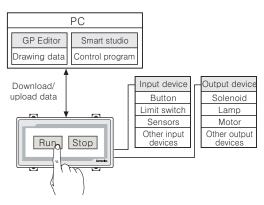
(S) Field network device

(T) Production stoppage models & replacement

#### System configurations

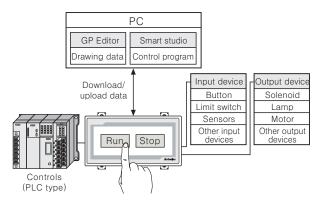
#### Stand alone(LP Series)

Stand alone system in LP series controls a variety of I/O without adding other devices and monitors and control operation element through direct touch of screen. (device, parameter, etc.).



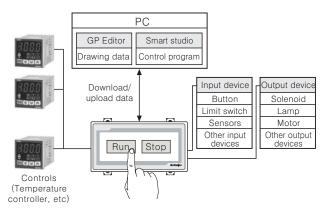
#### ©1:1 configuration (LP/GP Series)

The device function makes it possible to monitor the operation data (Device, parameter, etc.)



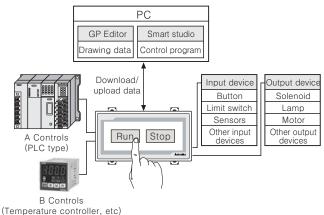
#### 

The device function makes it possible to monitor the operation element (device, parameter, etc.) by connecting in a 1:N configuration (Up to 32 units)



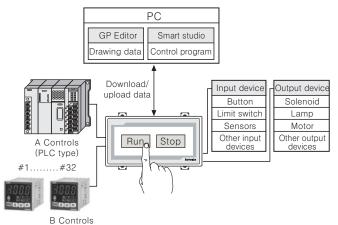
#### ©1:1:1 configuration (GP/LP Series)

The device function makes it possible to monitor, control and the operation element (device, parameter, etc.) between different devices using two separate communication port.



#### ©1:1 N configuration (GP/LP Series)

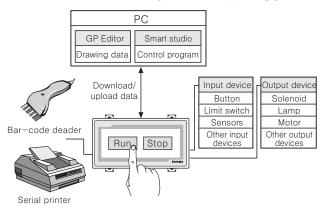
The device function makes it possible to monitor, control and the operation element (device, parameter, etc.) between different devices using two separate communication port.. In case of RS-422 port, 1:N is available only. (Up to 32 units).



(Temperature controller, etc)

#### ©Bar-code, printer connection (GP/LP Series)

It can read bar-code and print a history using printer.



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#### **■**Software

GP Editor(Drawing program)



- This drawing software is for GP/LP series.
- •GP editor is the software that allows creating a screen and designs a tag layout, and then transfer the data from screen to graphic panel. After download, graphic panel starts monitoring according to your screen data.

#### Smart Studio(Logic program)



- •Logic software is for LP series.
- •Support multi-project
- : It is possible to open maximum 5 projects at a same time.
- Easy program editing
- : Block of cell units can be edited. Split-screen editing is available.

It provides various editing screens such as variable screen, describe screen, variable /describe screen, etc..

- •Various monitor functions
- : It provides monitor functions such as variable monitor, device monitor and system device monitor
- •Comfortable user interface
- : It ensures easy operation with microsoft window functions applied.
- •Wide range of Message windows
- : It supports various message windows to edit and check program.
- •Real time convert ladder to mnemonic
  - : Ladder can be written and read in mnemonic to edit simultaneously.

Visit our website (www.autonics.com) and download software or manuals.

System requirements ?

Caystern requirements /				
Items	Minimum requirements	Recommended requirements		
OS	Windows 98/NT/XP/Vista			
Memory	512MB 1GB			
Hard disk	1GB(Hard disk space)	5GB(Hard disk space)		
Resolution	1024×768	1280×1024		

#### ■ Manual

#### OGP/LP common manual

•GP user manual

This section describes how to make screen data and use HMI function with GP Editor.

•Communication manual

For more information of serial connection with external devices such as PLC, refer to manual before connecting.

#### **OLP** manual

•Smart Studio manual

This section describes how to install and use Smart studio.

•Programming manual

The manual has command and instruction.

•LP Installation manual

The manual has LP installation, system configuration and instruction.

#### ■ Precaution for using

- 1. Do not press touch panel with hard and sharp object.
- 2. Please store the device in the recommended temperature range, or LCD panel can be damaged.
- 3. Please check pin number shown in "Communication manual" when connect communication port.
- 4. Do not block the ventilating opening of this product.
- 5. Do not use or store it in a place with direct ray of light or dust.
- 6. Do not use or store it in a place with shock or vibration.
- The ground wire of GP/LP should be grounded separately. The ground resistance should be max. 100Ω, please use the wire of min. 1.25mm² dimension
- 8. Please check the pin number and connect to GP/LP communication port.
- 9. Please tighten bolt on terminal block with specified tightening torque.
- 10. When liquid crystal from the broken LCD is smeared on your skin, wash it for 15 minutes. If it is gotten in your eye, wash it for 15 minutes and contact a medical specialist for more information.
- 11. Do not inflow dust or wire dregs into the unit.
- 12. For cleaning, do not use water or an oil-based detergent, use dry towels.
- 13. It should be done away regarded as an industrial waste.

(A) Photo electric

(B) Fiber optic sensor

> (C) Door/Area sensor

(D) Proximity sensor

Pressure sensor

(F) Rotary encoder

(G) Connector/ Socket

(H) Temp. controller

(I) SSR/ Power controller

(J) Counter

(K) Timer

(∟)

Panel meter (M) Tacho/ Speed/ Pulse meter

(N) Display unit

(O) Sensor controller

(P) Switching power supply

(Q) Stepping motor & Driver & Controller

(R) Graphic/ Logic panel

(S) Field network device

(T) Production stoppage models & replacement

#### **■**Connectable device with GP/LP

Series	Connectable device	Connection type	GP-2480 (Max. V2.7)	GP-2480(Min. V3.0) GP-S044/GP-S057 LP-S044
	MK-10S1	CPU direct connection loader	0	0
	MK-80S	CPU direct connection loader	0	0
	MK-120S	CPU direct connection loader	0	0
LS Master-K	MK-200S	CPU direct connection loader	0	0
	MK-300S	CPU direct connection loader	×	0
	MK-1000S	CPU direct connection loader	×	0
	GM4	CPU direct connection loader	0	0
LS Glofa	GM6	CPU direct connection loader	0	0
Lo Giora	GM7U	CPU direct connection loader	X	
	MK-80S	Cnet	0	
LS CNET	MK-120S	Cnet	0	
(Cnet integrated CPU)				
	MK-200S	Cnet	0	0
	MK-80S	Cnet	0	0
LS CNET	MK-120S	Cnet	0	0
(For Cnet unit)	MK-200S	Cnet	0	0
(1 01 01101 01111)	MK-300S	Cnet	×	0
	MK-1000S	Cnet	×	0
LS XGB (For Cnet unit)	XGK-CPUS	Cnet	×	0
LS XGT	XBM	Cnet	×	0
(Cnet integrated CPU)	XBC	Cnet	×	0
05141/(0414011110)	N70	CPU direct connection loader	0	0
OEMAX(SAMSUNG)	N70Plus	CPU direct connection loader	0	0
	NX7	CPU direct connection loader	×	0
OEMAX FARA	NX70	CPU direct connection loader	×	0
	FX1S	CPU direct connection loader	0	0
	FX1N	CPU direct connection loader	0	
MITSUBISHI FX	FX2N	CPU direct connection loader	0	
MILOODISHIEV	FX2NC	CPU direct connection loader	0	0
			×	
	FX3U	CPU direct connection loader		_
	Q00J	Cnet	×	0
	Q00	Cnet	×	0
	Q01	Cnet	×	0
MITSUBISHI Q	Q02	Cnet	×	0
(For Cnet unit)	Q02H	Cnet	×	0
	Q06H	Cnet	×	0
	Q12H	Cnet	×	0
	Q25H	Cnet	×	0
	FP0-C10	CPU direct connection loader	0	0
	FP0-C14	CPU direct connection loader	0	0
	FP0-C16	CPU direct connection loader	0	0
	FP0-C32	CPU direct connection loader	0	0
	FPG-C24R2	CPU direct connection loader	0	0
	FPG-C32T	CPU direct connection loader	0	
NAIC ED	FPG-C32T2	CPU direct connection loader	0	0
NAIS FP	FP0R-C10	CPU direct connection loader	×	
			^ ×	
	FP0R-C14	CPU direct connection loader		0
	FP0R-C16	CPU direct connection loader	×	0
	FP0R-C32	CPU direct connection loader	×	0
	FP0R-T32	CPU direct connection loader	×	0
	FP0R-F32	CPU direct connection loader	×	0
	CPU221	CPU direct connection loader	×	0
0.5	CPU222	CPU direct connection loader	×	0
SIEMENS	CPU224	CPU direct connection loader	×	0
SIMATIC	CPU224XP	CPU direct connection loader	×	0
S7-200	CPU224XPsi	CPU direct connection loader	×	0
	CPU226	CPU direct connection loader	×	0

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#### ■Connectable device with GP/LP

Series	Connectable device	Connection type	GP-2480 (Max. V2.7)	GP-2480(Min. V3.0)/ GP-S044/GP-S057/ LP-S044
Allera Draelrass	MicroLogicx 1000	CPU direct connection loader	×	0
Allen-Bradrey	MicroLogicx 1200	CPU direct connection loader	×	0
OMRON SYSMAC C	CPM1A	CPU direct connection loader	0	0
	E5AN	Modbus	0	0
OMBON	E5AR	Modbus	0	0
OMRON	E5CN	Modbus	0	0
Temperature controller	E5EN	Modbus	0	0
	E5ER	Modbus	0	0
	MT Series	Private communication	0	0
	MT Series	Modbus	×	0
	MP Series	Private communication	0	0
	THD Series	Modbus	0	0
AUTONICS	TZ/TZN Series	Private communication	0	0
	TK Series	Modbus	×	0
	TM Series	Modbus	×	0
	CT Series	Modbus	×	0
	LP-S044	CPU	×	0
KONIOO	DPU Series	Modbus	×	0
KONICS	KRN50 Series	Modbus	×	0
DELTA	DTB Series	Modbus	0	0
UNIVERSAL	UNIVERSAL	Modbus(Slave)	0	0

<sup>₩</sup>GP/LP connectable device list will keep updated according to the upgrade of GP Editor or additional patch. It is recommended to use the latest version of Editor.

Photo electric sensor (B) optic sensor Door/Area sensor (D) Proximity sensor (E) Pressure sensor Rotary encoder (G) Connector/ Socket (H) Temp. (I) SSR/ Power controller (J) Counter (K) Timer (L) Panel meter (M) Tacho/ Speed/ Pulse meter (N) Display unit (0)

(P) Switching power supply

(Q) Stepping motor & Driver & Controlle

(R) Graphic/ Logic panel

(S) Field network device

Production stoppage models & replacement

<sup>\*</sup>Applicable GP/LP firmware version is determined by GP Editor version. Whole GP system goes down if noncompatible firmware version is used.

<sup>\*</sup>Visit our website (www.autonics.com) to check update of latest GP Editor and GP/LP firmware and to get more detailed instructions.

<sup>\*</sup>Refer to the user manual to select proper communication cable between GP and controllers. (Sold separately)

## **Product Overview**

#### Graphic panel

Model		GP-S044-S1D0	GP-S044-S1D1	GP-S057-S1D0	GP-S057-S1D1
Appearances & Dimensions		C € @	Upgrade	Tests for Street for S	There are a second and a second
		[W145×H75×L38mm]	MONO	[W156×H132×L35.5mm]	MONO
Power supp		24VDC ±10%			
Power cons	sumption	3.6W(Max.)			
Serial interf	ace	RS232C, RS422 (1each)	RS232C (2) RS232C, RS422 (1each)		RS232C (2)
	LCD type	STN blue negative			
Display	Resolution	240×	80 dot	320×240 dot	
performance	Display area	112.8×37.6mm(4.4")		119×91mm(5.7")	
	Text	Up to 400	characters	Up to 1590 characters	
Graphic drawing	Graphic drawing memory	512KB			
performance	Number of user screen	500pages			
	Touch switch	Width 15×	Height 4=60	Width 16×Height 12=192	
Reference		R-8 to 10 R-11 to 13		to 13	

## Logic panel

Model		LP-S044-S1DO-C5T-A	LP-S044-S1DO-C5R-A	LP-S044-S1D1-C5T-A	LP-S044-S1D1-C5R-A
Appearances & Dimensions		CE C	ONITORING  U CTU COOO  R <3> 1000  Autonics	[Terminal block connector type]	NEW 4.4"
_		[W145×H75×L54.5mm]		[Ribbon cable co	nnector type] MONO
Power supp		24VDC ±10%			
Power cons	· .	3.6W (Max.)		20. (0)	
Serial interf		RS232C, RS422 (1each) RS232C (2)		2C (2)	
Display	LCD type	STN blue negative			
performance	Resolution	240×80 dot			
	Display area	112.8×37.6mm(4.4")			
	Text	Up to 400 characters			
Graphic drawing	Graphic drawing memory	384KB			
	Number of user screen	500pages			
	Touch switch	Width 15×Height 4=60			
	Command		Basic command : 28, app	plication command: 220	
Control performance	Program capacity	8000step			
periorinance	Processing time	Average 6 to 7μs/step			
Input/Output	I/O point		Input 16 points/	Output 16points	
performance	I/O connector type	Terminal block connector Ribbon cable connector Terminal block connector Ribbon cable con			Ribbon cable connector
Reference			R-14	to 17	

R-7 Autonics

## 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



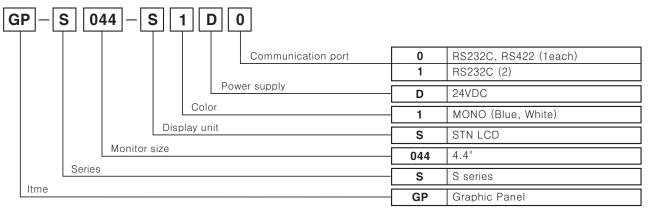
Please read "Caution for your safety" in operation manual before using.



#### ■ 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 RS232C 2 port and RS232C/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



(A) Photo electric sensor

(B) Fiber optic sensor

(C) Door/Area

(D) Proximity sensor

(E) Pressure sensor

(F) Rotary encoder

(G) Connector/ Socket

(H) Temp. controller

(I) SSR/ Power controller

(J) Counter

Timer (L)

(K)

(M) Tacho/ Speed/ Pulse meter

meter

(N) Display unit

(O) Sensor controller

(P) Switching power supply

(Q) Stepping motor & Driver & Controller

#### (R) Graphic/ Logic panel

(S) Field network device

(T) Production stoppage models & replacement

## **■**Specifications

Model		GP-S044-S1D0	GP-S044-S1D1	
Power supply		24VDC	±10%	
Power consumption		3.6W (Max.)		
	LCD type	STN Blue Negative		
e e	Resolution	240×8	80 dots	
ay	Display area	112.8mm	×37.6mm	
spla	Color	MONO (BI	ue, White)	
Display performance	LCD view angle	Top/bottom/left/right	30° in each direction	
be	Backlight	White	e LED	
	Brightness	Adjustable	by software	
D C	Language	English, Korean, Japan	nese, Chinese, Russian	
Graphic drawing performance	Text	• High resolution display up to 400 letters • $6\times8$ , 8 • $8\times16$ ASCII characters, $16\times16$ regional characters (1	×8 ASCII character, High quality view of numbers -8 times bigger for width, 0.5-5 times bigger for height)	
oic fori	Graphic drawing memory	512	? KB	
aph	Number of user screer	500 I	pages	
2	Touch switch	Width 15×Height 4 = 60		
Seria	l interface	RS232C, RS422 (1each)	RS232C (2)	
Real	-time controller	RTC en	nbedded	
Amb	ent temperature	0 to 50℃ (at non-freezing status)		
Stora	ige temperature	-20 to 60℃ (at non-freezing status)		
Amb	ent humidity	35 to 85% RH(at non-dew status)		
Insul	ulated resistance Min. 100MΩ (at 500VDC megger)			
Grou	und 3rd grounding (Max. 100Ω)		g(Max. 100Ω)	
Nois	e trength	The square wave noise(pulse width: 1\mu s) by the noise simulator with \pm 500V R/S phase and repetition frequency 60Hz		
Diele	ctric strength	500VAC(50/60)	Hz) for a minute	
Vibra	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz (for	a minute) in each of X, Y, Z directions for an hour	
VIDIA	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz (for a	minute) in each of X, Y, Z directions for 10 minutes	
Shoc	Mechanical	300m/s <sup>2</sup> (30G) in X, Y,	Z directions for 3 times	
31100	Malfunction	100m/s <sup>2</sup> (10G) in X, Y,	Z directions for 3 times	
Prote	ction ratings	IP65F for	front panel	
Acce	ssory	Fixing bracket: 4pcs, rubber w	aterproof ring, battery included	
Unit	weight	Approx	x. 300g	

<sup>\*\*</sup>Language can be customized.

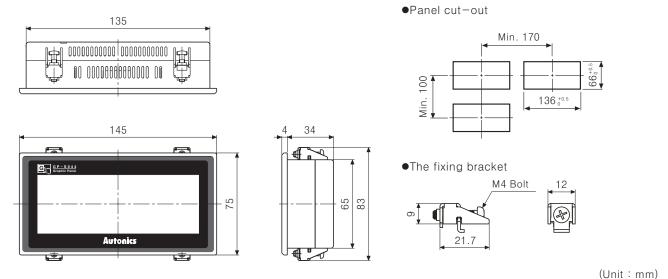
#### **■**Functional description

_		
Fig	jure display	Line, rectangle, circle, text, bitmap
	Numeral display	Display the designated device as numerical value.
	Numeral display	(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.
۱ "	Lamp	Display lamp as device status.
ag	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.
Sy	stem information function	Monitor/control GP operation from PLC.
Re	cipe function	Read/Write several PLC device collectively.
Se	curity function	Only acceptable user can observe/operate important data.
Ва	rcode read function	Connect barcode reader, read barcode.
Flo	ating alarm function	Warning message is floated when alarm is generated.
Tir	ne operation	Specific bit device is ON/OFF for designated day and time.
Ov	erlap window	Available to form dynamically overlapping another base screen on the base one.
Ob	serve status function	Change PLC device status/value of PLC when trigger is generated.
Ob	serve status function	

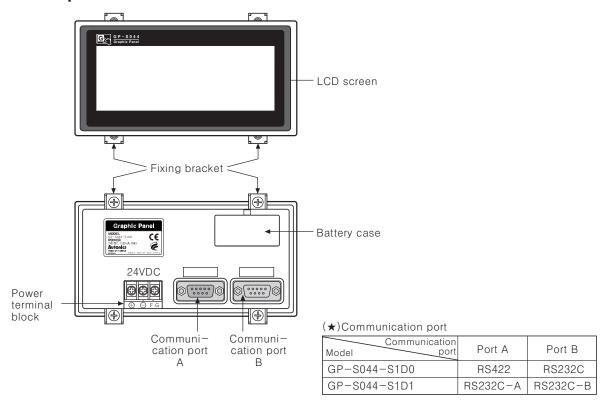
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## **Graphic Panel**

#### Dimensions



#### ■ Part description



(A) Photo electric sensor

(B) Fiber optic sensor

(C) Door/Area sensor

(D) Proximity sensor

(E) Pressure sensor

(F)

(F) Rotary encoder

(G) Connector/ Socket

(H) Temp. controller

(I) SSR/ Power controller

> (J) Counter

(K) Timer

(L) Panel meter

(M) Tacho/ Speed/ Pulse meter

(N) Display unit

(O) Sensor controller

(P) Switching power supply

(Q) Stepping motor & Driver & Controller

#### (R) Graphic/ Logic panel

(S) Field network device

(T) Production stoppage models & replacement

#### High visibility with 5.7" wide screen

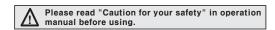
#### ■GP(Graphic Panel)-S057?

#### Graphic touch panel GP-S057

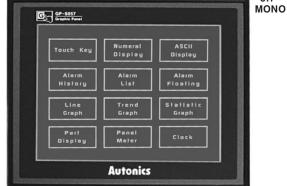
GP(Graphic Panel) is a function to monitor and display controller's operation on graphic screen.



NEW



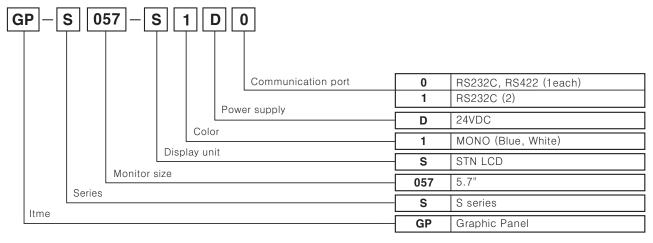




#### ■ Features

- •Display max. 1590 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
  - : Saving design with 5.7 display
- Various display function
- : It displays data by various tags.

#### Ordering information



R-11 Autonics

#### **■**Specifications

Model		GP-S057-S1D0	GP-S057-S1D1	
Powe	r supply	24VDC	±10%	
Power consumption		3.6W (Max.)		
	LCD type	STN blue	negative	
ce	Resolution	320×240 dots		
ay	Display area	119mm×91mm		
Display forman	Color	MONO(Blue, White)		
	LCD view angle	Top/bottom/left/right		
ď	Backlight	White LED		
	Brightness	Adjustable	by software	
ng	Language	English, Korean, Japar	nese, Chinese, Russian	
Graphic drawing performance	Text	• Up to 1590 characters (6×8 font) displayable • 6×8, • 8×16 ASCII characters, $16\times16$ regional characters (1-		
orr	Graphic drawing memory	512	KB	
aph	Number of user screen	500 I	pages	
Gr	Touch switch	Width 16×He	ight 12 = 192	
Serial	interface	RS232C, RS422 (1each)	RS232C (2)	
Real-	-time controller	RTC en		
	ge temperature	0 to 50°C (at non-freezing status)		
	ent temperature	-20 to 60℃ (at non-freezing status)		
	ent humidity	35 to 85% RH(at non-dew status)		
Insula	ated resistance Min. $100 \mathrm{M}\Omega$ (at $500 \mathrm{VDC}$ megger)		500VDC megger)	
Grour	bund 3rd grounding(Max. 100Ω)			
Noise	trength	The square wave noise(pulse wi with $\pm 500 \mathrm{V}$ R/S phase and	,	
Dieled	ctric strength	500VAC (50/60I	Hz) for a minute	
\ /!l= = 4	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz (for	a minute) in each of X, Y, Z directions for an hour	
Vibrat	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz (for a r	minute) in each of X, Y, Z directions for 10 minutes	
01 1	Mechanical	300m/s <sup>2</sup> (30G) in X, Y,	Z directions for 3 times	
Shock	Malfunction	100m/s² (10G) in X, Y, Z directions for 3 times		
Prote	ction ratings	IP65F for	front panel	
Acces	ssory	Fixing bracket : 4pcs, rubber w	aterproof ring, battery included	
Unit v	veight	Approx	x. 400g	

<sup>\*\*</sup>Language can be customized.

#### **■**Functional description

Fig	jure display	Line, rectangle, circle, text, bitmap
	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.
m	Lamp	Display lamp as device status.
ags	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.
Sys	stem information function	Monitor/control GP operation from PLC.
Re	cipe function	Read/Write several PLC device collectively.
Se	curity 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.
Tin	ne operation	Specific bit device is ON/OFF for designated day and time.
Ov	erlap window	Available to form dynamically overlapping another base screen on the base one.
Ob	serve status function	Change PLC device status/value of PLC when trigger is generated.

(A) Photo electric sensor

(B) Fiber optic sensor

(C) Door/Area sensor

(D) Proximity sensor

(E) Pressure sensor

(F) Rotary encoder

(G) Connector/ Socket

(H) Temp. controller

(I) SSR/ Power controller

> (J) Counter

(K) Timer (L) Panel meter

(M) Tacho/ Speed/ Pulse meter

(N) Display unit

(O) Sensor controller

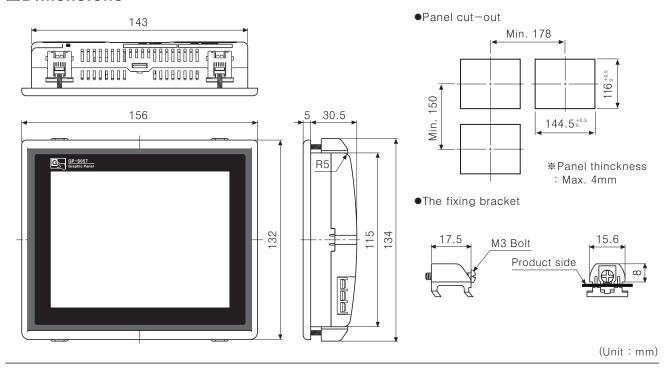
(P)
Switching
power
supply
(Q)
Stepping
motor &
Driver &
Controller

(R) Graphic/ Logic panel

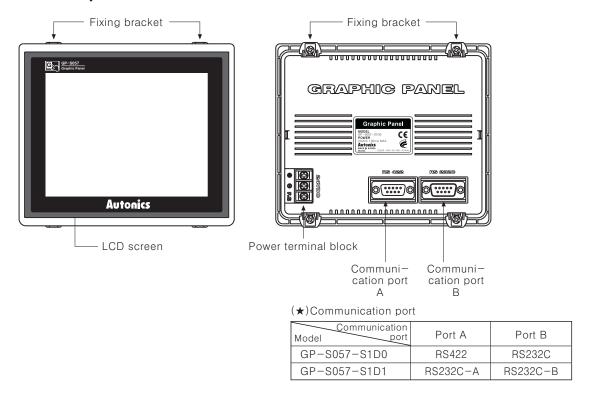
(S) Field network device

(T) Production stoppage models & replacement

#### Dimensions



#### ■ Part description



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■ Features

Compact structure

## **Logic Panel**

#### Graphic panel + PLC function Logic panel LP-S044

#### **■LP(Logic Panel)-S044?**

Logic panel is an integrated product with HMI(Human Machine Interface) and PLC(Programmable Logic Controller) functions.

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

: Cost down, space saving and easy

operation through PLC+HMI+Input/



NEW

4.4" MONO (B) Fiber optic sensor

electric sensor

(C) Door/Area sensor

(D) Proximity sensor

(E) Pressure sensor

> (F) Rotary encoder

encoder

Connector/ Socket

Temp. controller

(I) SSR/ Power controller

(J) Counter

Timer (L)

meter

(K)

(M) Tacho/ Speed/ Pulse meter

Display unit (0) Sensor

(N)

(P) Switching power supply

controller

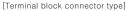
Stepping motor & Driver & Controller

Graphic/ Logic panel (S) Field network device

(T)
Production
stoppage
models &
replacement

ur safety" in operation





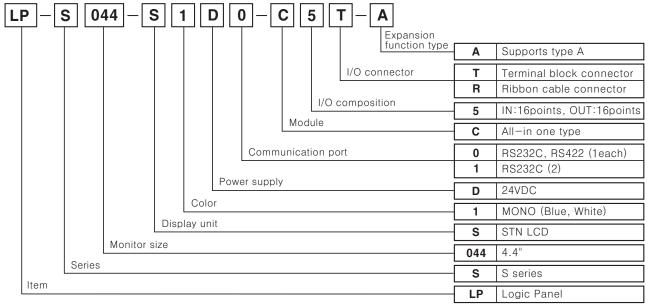


[Ribbon cable connector type]

output integrationImproved compatibility with logic

- : 8000-step program capacity (the average processing speed 6 to  $7 \mu$  s/step) Basic command 28, application command 220
- •Wide device range: Peripheral device 10K word, data device 10K word, and other various devices
- •Sufficient external I/O: Input 16 points, output 16 points (basic)
- Various expansion function
- : External interrupt, 16-key input, 7 Seg. time-sharing display and synchronous communication output.
- Easy S/W upgrade at website
  - (1) LP firmware file
- (2) GP Editor (Drawing program)
- (3) Smart Studio (Logic program)
- (4) Additional protocol
- •Display max. 400 characters
- •Able to save max. 500 pages of user screen
- Different devices monitoring function: PLC port allows to monitor and control the variables of additionally connected controllers
- •Multilingual support
- : Support for Korean, Japanese, English, Chinese and Russian. Additional languages will be available later on.
- •Providing various bitmap and user-selectable fonts. : It provides various bitmap and user-selected fonts.
- Various multiple ports: Both RS232 2 port and RS 232/RS422 compound port provided.
- •Device monitoring function
- : LP monitor enables to monitor LP device connectable controller without graphic design data.
- •Connect printers or barcode reader: Print an alarm history and read barcode with bar code reader.

#### Ordering information



## **■**Specifications

Model		LP-S044-S1D0-C5T-A LP-S044-S1D0-C5R-A LP-S044-S1D1-C5T-A LP-S044-S1D1-C5R-A		
Power supply		24VDC ±10%		
Power consumption		3.6W (Max.)		
	LCD type	STN Blue Negative		
Ө	Resolution	240×80 dots		
anc	Display area	112.8mm×37.6mm		
sple	Color	MONO (Blue, White)		
Display performance	LCD view angle	Top/bottom/left/right 30° in each direction		
l å	Backlight	White LED		
	Brightness	Adjustable by software		
D	Language	English, Korean, Japanese, Chinese, Russian		
Graphic drawing performance	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		
ie or	Graphic drawing memory	384 KB		
aph	Number of user screen	500 pages		
ট্র	Touch switch	Width 15×Height 4 = 60		
	Command	Basic command : 28, application command : 220		
_ lce	Program capacity	8K step		
Control performance	Processing time	Average: 6 to 7μs/step		
Son	I/O control type	Batch processing		
) Jec	Computer control mode	Repeated-doubling method, interrupt processing		
	Device range	*See manual		
Seria	al interface	RS232C, RS422 (1each) : Asynchronous type  RS232C (2)		
Real	-time controller	RTC embedded		
Amb	ient temperature	0 to 50℃ (at non-freezing status)		
-	age temperature	-20 to 60°C (at non-freezing status)		
	ient humidity	35 to 85% RH(at non-dew status)		
	lated resistance	Min. 100MΩ (at 500VDC megger)		
Grou		3rd grounding (Max. 100Ω)		
	e trength	The square wave noise (pulse width: 1µs) by the noise simulator with ±500V R/S phase and repetition frequency 60Hz		
Diele	ectric strength	500VAC(50/60Hz) for a minute		
	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz (for a minute) in each of X, Y, Z directions for an hour		
Vibra	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz (for a minute) in each of X, Y, Z directions for 10 minutes		
	Mechanical	300m/s <sup>2</sup> (30G) in X, Y, Z directions for 3 times		
Shoo	Malfunction	100m/s <sup>2</sup> (10G) in X, Y, Z directions for 3 times		
Prote	ection ratings	IP65F for front panel		
	connector type	Terminal block connector Ribbon cable connector Terminal block connector Ribbon cable connector		
	essory	Fixing bracket: 4pcs, rubber waterproof ring, battery included		
<b>-</b>		Approx. 350g		
Unit weight		1.146. 4 40.00		

<sup>\*</sup>Language can be customized.

## **■Input/Output performance**

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

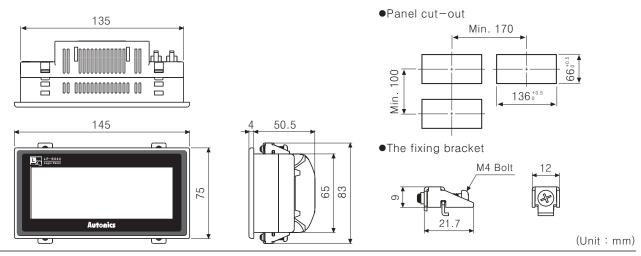
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## **Logic Panel**

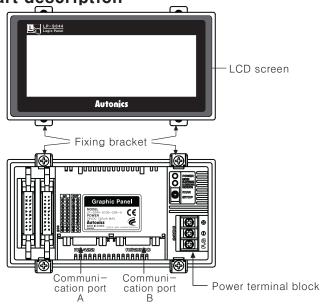
#### **■**Functional description

ure display	Line, rectangle, circle, text, bitmap				
	Display the designated device as numerical value. (Decimal, hexadecimal, octal, binary, real number)				
	Display the designated device value as ASCII character.				
	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.				
stem information function	Monitor/control GP operation from PLC.				
cipe function	Read/Write several PLC device collectively.				
curity 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.					
serve status function	Change PLC device status/value of PLC when trigger is generated.				
	Alarm list Comment display Lamp Part display Line graph Trend graph Bar graph Statistic graph Panel meter Touch key Numeral input ASCII input stem information function cripe function curity function crode read function pating alarm function me operation				

#### Dimensions



■ Part description



#### (★)Communication port

Model Communication port	Port A	Port B
LP-S044-S1D0-C5T(R)	RS422	RS232C
LP-S044-S1D1-C5T(R)	RS232C-A	RS232C-B

(A) Photo electric sensor

(B) Fiber optic sensor

Door/Area sensor

(D) Proximity sensor

Pressure sensor

Rotary encoder

(G) Connector/ Socket

(H) Temp. controller

(I) SSR/ Power controller

(J) Counter

(K) Timer

(L) Panel meter (M) Tacho/ Speed/ Pulse meter

(N) Display unit

(O) Sensor controller

(P) Switching power supply

(Q) Stepping motor & Driver & Controlle

# (R) Graphic/ Logic panel

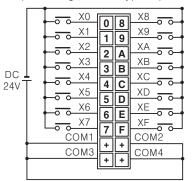
Field network device

(T) Production stoppage models & replacement

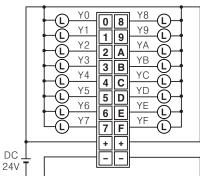
#### ■Input · output wiring

#### ©LP-S044-S1D0(1)-C5R

Input wiring (Source type input module)

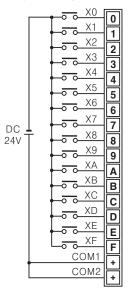


Output wiring(Sink type output module)

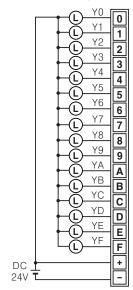


#### OLP-S044-S1D0(1)-C5T

•Input wiring(Source type input module)



Output wiring(Sink type output module)



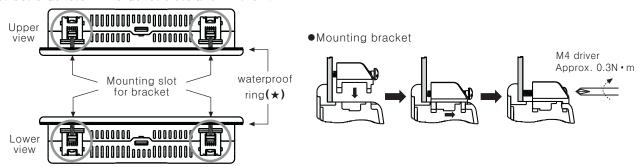
\*Check the pin number of the case before wiring.

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## **GP/LP Common Features**

#### Installation

- 1. Set a rubber waterproof ring in LP.
- 2. Set LP in panel.
- 3. Set brackets in 4 bracket slots and fix them.



※ (★) How to insert rubber waterproof ring

- ①After checking connection, insert rubber waterproof ring beneath the product.
- ②Put rubber waterproof ring in corners of GP/LP and press it down so that connection is sealed.

#### ■Serial interface

- •All devices connectable into LP-S044 including PC, PLC, serial printer, barcode reader and dedicated connectors can be connected into both RS232C and RS422 ports.
- •Device must be set for the port in system setting for LP-S044. For details, refer to "GP user manual".
- •For the method of wiring external devices of PLC, refer to "Telecommunication Manual".

Port	NO.	Pin(GP-2480)	Pin(GP-S044)	Pin(GP-S057)	Pin(LP-S044)
RS232C	1	Non-used	Non-used	Non-used	Non-used
- C	2	RXD	RXD	RXD	RXD
5 9	3	TXD	TXD	TXD	TXD
4 • 8	4	DTR	DTR	DTR	DTR
3	5	SG	SG	SG	SG
2 • 6	6	DSR	DSR	DSR	DSR
1 6	7	Non-used	Non-used	Non-used	Non-used
D-Sub 9pin	8	Non-used	Non-used	Non-used	Non-used
male	9	Non-used	Non-used	Non-used	Non-used
RS422	1	TXD+	TXD+	TXD+	TXD+
10	2	RXD+	RXD+	RXD+	RXD+
1 1 0 6	3	RTS-	Non-used	Non-used	Non-used
	4	CTS+	Non-used	Non-used	Non-used
3 0 0 8	5	SG	SG	SG	SG
4 0 0 0	6	TXD-	TXD-	TXD-	TXD-
5 0 9	7	RXD-	RXD-	RXD-	RXD-
D-Sub 9pin	8	RTS+	Non-used	Non-used	Non-used
female	9	CTS-	Non-used	Non-used	Non-used

#### ■ Power wiring

- •For power supply, use the wire of which cross section is at least 0.75mm<sup>2</sup> and use the wire of which cross section is at least 1.25mm<sup>2</sup> for grounding.
- ●Use crimp-on type 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  $100\Omega$  and ground it separately.

# 24VDC

#### Battery replacement

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

#### Sold separately

Transmission cables connectable into external devices such as PLC are sold separately.

Photo electric

(B) Fiber optic sensor

Door/Area

Proximity sensor

Pressure sensor

(F) Rotary encoder

(G) Connector/ Socket

Temp.

(I) SSR/ Power

controller (J) Counter

Timer

Panel meter Tacho/ Speed/ Pulse

(L)

meter (N) Display

controller

Switching supply

Stepping motor & Driver &

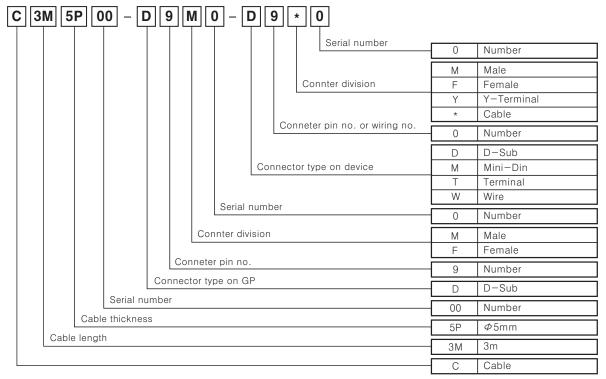
Logic panel

Field

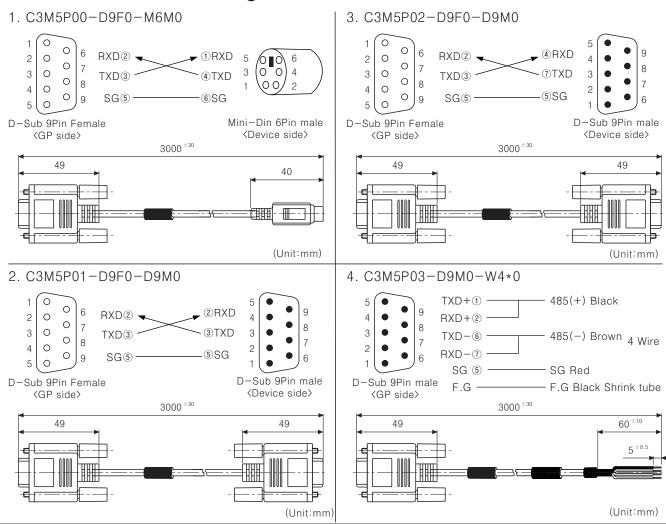
network device

Production stoppage models & replacemen

#### **■**Ordering information

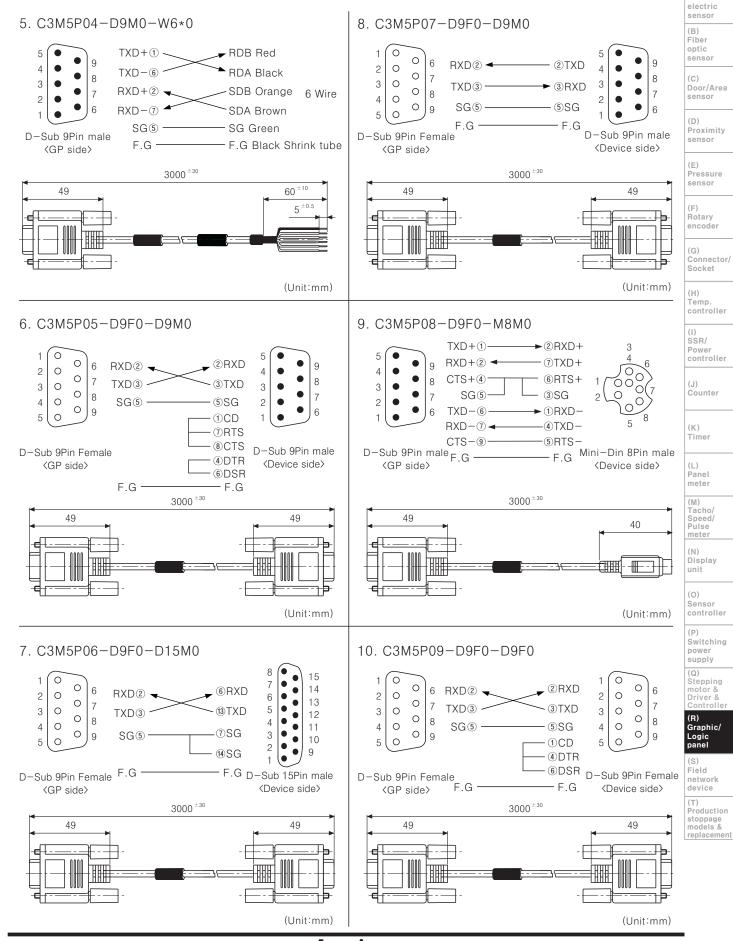


#### **■**Communication cable wiring and dimensions

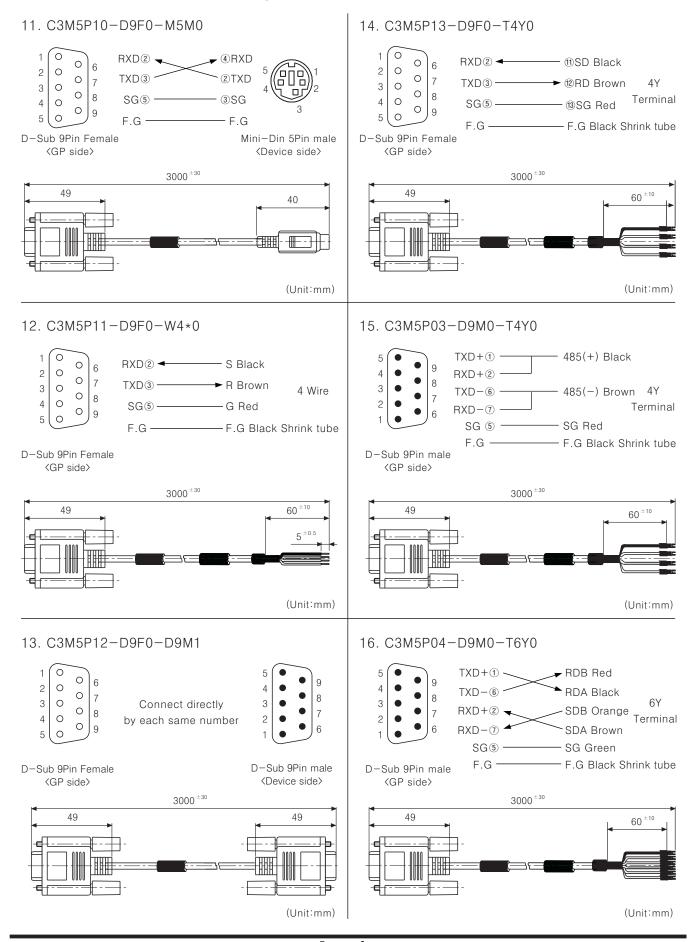


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#### **■** Communication cable wiring and dimensions

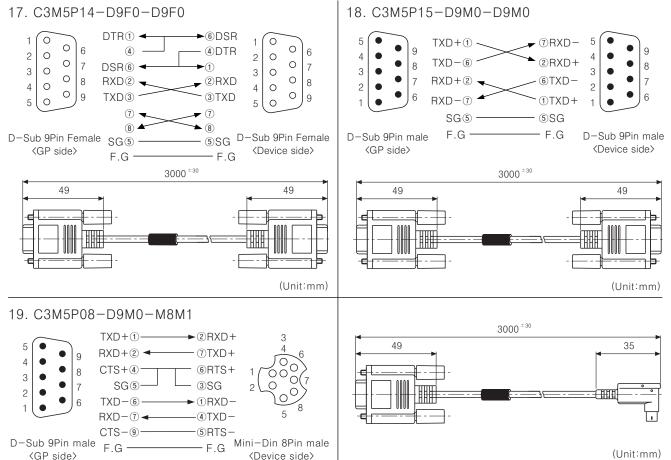


#### ■ Communication cable wiring and dimensions



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#### **■**Communication cable wiring and dimensions



#### Communication cable by connectable device

Series	Connectable device	Connectable module	Connection type	Communication cable model	Connection diagram no
	MK-10S1	CPU	RS232C	C3M5P00-D9F0-M6M0	1
	MK-80S	CPU	RS232C	C3M5P01-D9F0-D9M0	2
LS	MK-120S	CPU	RS232C	C3M5P01-D9F0-D9M0	2
Master-K	MK-200S	CPU	RS232C	C3M5P01-D9F0-D9M0	2
	MK-300S	CPU	RS232C	C3M5P01-D9F0-D9M0	2
	MK-1000S	CPU	RS232C	C3M5P01-D9F0-D9M0	2
	GM4	CPU	RS232C	C3M5P01-D9F0-D9M0	2
LS Glofa	GM6	CPU	RS232C	C3M5P01-D9F0-D9M0	2
	GM7U	CPU	RS232C	C3M5P01-D9F0-D9M0	2
	MIC 000	Cnet module(G7L-CUEB)	RS232C	C3M5P05-D9F0-D9M0	6
	MK-80S	Cnet module(G7L-CUEC)	RS422	C3M5P04-D9M0-T6Y0	16
		CPU	RS232C	C3M5P02-D9F0-D9M0	3
	1000	CPU	RS485	C3M5P03-D9M0-W4*0	4
	MK-120S	Cnet module(G7L-CUEB)	RS232C	C3M5P05-D9F0-D9M0	6
		Cnet module(G7L-CUEC)	RS422	C3M5P04-D9M0-T6Y0	16
LS		CPU	RS232C	C3M5P02-D9F0-D9M0	3
Master-K		CPU	RS422	C3M5P04-D9M0-W6*0	5
CNET	MK-200S	CPU	RS485	C3M5P03-D9M0-W4*0	4
		Cnet module(G6L-CUEB)	RS232C	C3M5P05-D9F0-D9M0	6
		Cnet module(G6L-CUEC)	RS422	C3M5P04-D9M0-T6Y0	16
	MIC 0000	G4L-CUEA	RS232C	C3M5P05-D9F0-D9M0	6
	MK-300S		RS422	C3M5P04-D9M0-T6Y0	16
	MIC 10000	G3L-CUEA	RS232C	C3M5P05-D9F0-D9M0	6
	MK-1000S		RS422	C3M5P04-D9M0-T6Y0	16
		XGL-C22A	RS232C	C3M5P01-D9F0-D9M0	2
LS	VOK OBUS	XGL-CH2A	RS232C	C3M5P01-D9F0-D9M0	2
XGT CNET	XGK-CPUS		RS422	C3M5P04-D9M0-T6Y0	16
		XGL-C42A	RS422	C3M5P04-D9M0-T6Y0	16

Photo electric sensor

(B) Fiber optic sensor

(C) Door/Area sensor

(D) Proximity sensor

(E) Pressure sensor

(F) Rotary encoder

(G) Connector/ Socket

(H) Temp. controller

(I) SSR/ Power controller

(J) Counter

(K) Timer

(L)

Panel meter

Tacho/ Speed/ Pulse meter

Display unit
(O)
Sensor

(P) Switching

power supply (Q) Stepping motor & Driver &

(R) Graphic/ Logic panel

(S) Field network device

(T) Production stoppage models & replacement

## **■**Communication cable by connectable device

Series	Connectable device	Connectable module	Connection type	Communication cable model	Connection diagram r
	XBM	CPU	RS232C	C3M5P13-D9F0-T4Y0	14
LS	XDIVI	<u> </u>	RS485	C3M5P03-D9M0-T4Y0	15
XGB CNET	XBC	CPU	RS232C	C3M5P13-D9F0-T4Y0	14
	, ABC	01 0	RS485	C3M5P03-D9M0-T4Y0	15
OEMAX	N70	CPU	RS232C	C3M5P06-D9F0-D15M0	7
(SAMSUNG)	N70 Plus	CPU	RS232C	C3M5P07-D9F0-D9M0	8
OEMAX	NX7	CPU	RS232C	C3M5P07-D9F0-D9M0	8
FARA	NX70	CPU	RS232C	C3M5P07-D9F0-D9M0	8
		CPU	RS422	C3M5P08-D9F0-M8M0	9
	FX1S	RS232C module(FX1S-232-BD)	RS232C	C3M5P09-D9F0-D9F0	10
		CPU	RS422	C3M5P08-D9F0-M8M0	9
MITOLIDIOLII	FX1N	RS232C module(FX1N-232-BD)	RS232C	C3M5P09-D9F0-D9F0	10
MITSUBISHI FX	FX2NC	CPU	RS422	C3M5P08-D9F0-M8M0	9
1 /	TAZING	CPU			9
	FX2N		RS422	C3M5P08 - D9F0 - M8M0	
	=>/=/	RS232C module(FX2N-232-BD)	RS232C	C3M5P09-D9F0-D9F0	10
	FX3U	CPU	RS422	C3M5P08-D9M0-M8M1	19
		Expansion module(QJ71C24N)	RS232C	C3M5P05-D9F0-D9M0	6
	Q00J		RS422	C3M5P04-D9M0-W6*0	5
	4000	Expansion module(QJ71C24N-R2)	RS232C	C3M5P05-D9F0-D9M0	6
		Expansion module(QJ71C24N-R4)	RS422	C3M5P04-D9M0-W6*0	5
		Even annaign     (0.174.0041)	RS232C	C3M5P05-D9F0-D9M0	6
		Expansion module(QJ71C24N)	RS422	C3M5P04-D9M0-W6*0	5
	Q00	Expansion module(QJ71C24N-R2)	RS232C	C3M5P05-D9F0-D9M0	6
		Expansion module(QJ71C24N-R4)	RS422	C3M5P04-D9M0-W6*0	5
			RS232C	C3M5P05-D9F0-D9M0	6
		Expansion module(QJ71C24N)	RS422	C3M5P04-D9M0-W6*0	5
	Q01	Expansion module(QJ71C24N-R2)	RS232C	C3M5P05-D9F0-D9M0	6
		Expansion module(QJ71C24N-R2)	RS422		5
		Expansion module(QJ/TC24N-R4)		C3M5P04-D9M0-W6*0	
		Expansion module(QJ71C24N)	RS232C	C3M5P05-D9F0-D9M0	6
	Q02		RS422	C3M5P04-D9M0-W6*0	5
	402	Expansion module(QJ71C24N-R2)	RS232C	C3M5P05-D9F0-D9M0	6
MITSUBISHI		Expansion module(QJ71C24N-R4)	RS422	C3M5P04-D9M0-W6*0	5
Q		Expansion module(QJ71C24N)	RS232C	C3M5P05-D9F0-D9M0	6
	Q02H	Expansion module (QU/ 1024IV)	RS422	C3M5P04-D9M0-W6*0	5
	QUZIT	Expansion module(QJ71C24N-R2)	RS232C	C3M5P05-D9F0-D9M0	6
		Expansion module(QJ71C24N-R4)	RS422	C3M5P04-D9M0-W6*0	5
		F	RS232C	C3M5P05-D9F0-D9M0	6
	00011	Expansion module(QJ71C24N)	RS422	C3M5P04-D9M0-W6*0	5
	Q06H	Expansion module(QJ71C24N-R2)	RS232C	C3M5P05-D9F0-D9M0	6
		Expansion module(QJ71C24N-R4)	RS422	C3M5P04-D9M0-W6*0	5
			RS232C	C3M5P05-D9F0-D9M0	6
		Expansion module(QJ71C24N)	RS422	C3M5P04-D9M0-W6*0	5
	Q12H	Expansion module(QJ71C24N-R2)	RS232C	C3M5P05-D9F0-D9M0	6
		Expansion module(QJ71C24N-R4)	RS422	C3M5P04-D9M0-W6*0	5
		Enparision modulo (QU/ 1024N 'N4)	RS232C	C3M5P04=D9M0=W0×0  C3M5P05=D9F0=D9M0	6
		Expansion module(QJ71C24N)	RS422	C3M5P04-D9M0-W6*0	5
	Q25H	Evpansion module (O 171 004N - DO)			
		Expansion module(QJ71C24N-R2)	RS232C	C3M5P05-D9F0-D9M0	6
		Expansion module(QJ71C24N-R4)	RS422	C3M5P04-D9M0-W6*0	5
	FP0-C16	CPU(Tool port)	RS232C	C3M5P10-D9F0-M5M0	11
		CPU(COM port)	RS232C	C3M5P11-D9F0-W4*0	12
	FP0-C32	CPU(Tool port)	RS232C	C3M5P10-D9F0-M5M0	11
	110 002	CPU(COM port)	RS232C	C3M5P11-D9F0-W4*0	12
	EDO TODO	CPU(Tool port)	RS232C	C3M5P10-D9F0-M5M0	11
NAIS FP	FP0-T32C	CPU(COM port)	RS232C	C3M5P11-D9F0-W4*0	12
	EDG	CPU(Tool port)	RS232C	C3M5P10-D9F0-M5M0	11
	FPG-C24R2	CPU(COM port)	RS232C	C3M5P11-D9F0-W4*0	12
•		CPU(Tool port)	RS232C	C3M5P10-D9F0-M5M0	11
	FPG-C32T	CPU(COM port)	RS232C	C3M5P10=D9F0=M5M0 C3M5P11=D9F0=W4*0	12
	FPG-C32T2	CPU(Tool port)	RS232C	C3M5P10-D9F0-M5M0	11
		CPU(COM port)	RS232C	C3M5P11 - D9F0 - W4*0	12
	FP0R-C10	CPU(Tool port)	RS232C	C3M5P10-D9F0-M5M0	11
	FFUN-CIU	CPU(COM port)	RS232C	C3M5P11-D9F0-W4*0	12

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#### **■**Communication cable by connectable device

Series	Connectable device	Connectable module	Connection type	Communication cable model	Connection diagram no.
	FP0R-C14	CPU(Tool port)	RS232C	C3M5P10-D9F0-M5M0	11
		CPU(COM port)	RS232C	C3M5P11-D9F0-W4*0	12
	FP0R-C16	CPU(Tool port)	RS232C	C3M5P10-D9F0-M5M0	11
		CPU(COM port)	RS232C	C3M5P11-D9F0-W4*0	12
NAIS	EDOD 000	CPU(Tool port)	RS232C	C3M5P10-D9F0-M5M0	11
FP	FP0R-C32	CPU(COM port)	RS232C	C3M5P11-D9F0-W4*0	12
		CPU(Tool port)	RS232C	C3M5P10-D9F0-M5M0	11
	FP0R-T32	CPU(COM port)	RS232C	C3M5P11-D9F0-W4*0	12
	EDOD 500	CPU(Tool port)	RS232C	C3M5P10-D9F0-M5M0	11
	FP0R-F32	CPU(COM port)	RS232C	C3M5P11-D9F0-W4*0	12
	CPU221	CPU	RS485	Exclusive cable for SIEMENS	*
	CPU222	CPU	RS485	Exclusive cable for SIEMENS	*
SIEMENS	CPU224	CPU	RS485	Exclusive cable for SIEMENS	*
SIMATIC	CPU224XP	CPU	RS485	Exclusive cable for SIEMENS	*
S7-200	CPU224XPsi	CPU	RS485	Exclusive cable for SIEMENS	*
	CPU226	CPU	RS485	Exclusive cable for SIEMENS	*
4.11 5 11	MicroLogicx 1000	CPU	RS485	Exclusive cable for AllenBradley	*
AllenBradley	MicroLogicx 1200	CPU	RS485	Exclusive cable for AllenBradley	*
	CPM1A	CPU	20000	For communicate GP, OMRON사 CQM1-CIF02	*
OMRON SYSMAC C			RS232C	For extension cable, C3M5P12-D9F0-D9M1	13
	E5AN	Modbus	RS232C	C3M5P13-D9F0-T4Y0	14
		Modbus	RS485	C3M5P03-D9M0-T4Y0	15
OMRON	E5AR	Modbus	RS485	C3M5P03-D9M0-T4Y0	15
temperature	E5CN	Modbus	RS485	C3M5P03-D9M0-T4Y0	15
controller	E5EN	Modbus	RS232C	C3M5P13-D9F0-T4Y0	14
	ESEN	Modbus	RS485	C3M5P03-D9M0-T4Y0	15
ľ	E5ER	Modbus	RS485	C3M5P03-D9M0-T4Y0	15
	MT Series	Private communication, Modbus	RS485	C3M5P03-D9M0-W4*0	4
	MP Series	Private communication	RS485	C3M5P03-D9M0-W4*0	4
	THD Series	Modbus	RS485	C3M5P03-D9M0-W4*0	4
	TZ Series	Private communication	RS485	C3M5P03-D9M0-T4Y0	15
Autonics	TK Series	Modbus	RS485	C3M5P03-D9M0-T4Y0	15
7141011100	TM Series	Modbus	RS485	C3M5P03-D9M0-T4Y0	15
	CT Series	Modbus	RS485	C3M5P03-D9M0-T4Y0	15
	LP-S044	CPU	RS232C	C3M5P14-D9F0-D9F0	17
	Series	CPU	RS422	C3M5P15-D9M0-D9M0	18
KONICS	DPU Series	Modbus	RS485	C3M5P03-D9M0-W4*0	4
KONICS	KRN50 Series	Modbus	RS485	C3M5P03-D9M0-W4*0	4
DELTA	DTB Series	Modbus	RS485	C3M5P03-D9M0-T4Y0	15
GP firmware download cable	COMPUTER	*	RS232C	C3M5P14-D9F0-D9F0	17

(A) Photo electric sensor (B) Fiber sensor (C) Door/Area sensor (D) Proximity sensor Pressure sensor Rotary encoder (G) Connector/ Socket Temp. (I) SSR/ Power controller

(J) Counter

(K) Timer (L) Panel meter

(M) Tacho/ Speed/ Pulse meter

(N) Display unit

(O) Sensor controller

(P) Switching power

(Q) Stepping motor & Driver & Controlle

# (R) Graphic/ Logic panel

(S) Field network device

(T) Production stoppage models & replacement