TCD210070AC Auto

# Autonics

### **Ordering Information**

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



### • Screen size

070: 7.0 inch 104: 10.4 inch

#### Interface

	Series	0	RS232C	RS422	CAN	Micro SD	USB HOST	USB Device	Ethernet
	LP-A070	6	1	1	-	-	1	1	1
		7	2	-	-	-			
	LP-A104	8	1	1	1	1			
	LP-A104	9	2	-	1	1			

### **❸** I/O configuration

5: 7.0 inch - input 16-point, output 16-point 6: 10.4 inch - input 32-point, output 32-point

### **⊘** I/O connector type

R: Ribbon cable connector T: Terminal block connector

# **Product Components**

- · Logic panel + built in battery
- 7.0 inch: 4 fixing brackets
- 10.4 inch: 6 fixing brackets, CAN connector
- Sold separately: communication cable

# Color LCD Logic Panel



# **LP-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
- $\bullet$  Easier system configuration and use with PLC, HMI, I/O all-in-one design
- 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
- $\bullet \ {\it Various communication interface: RS232C, RS422, Ethernet, CAN}$

## **Specifications**

Device range

Special function

Serial interface

Ethernet interface

USB interface

CAN interface

External storage

Battery life cycle

Language

Real-time controller

	LP-A070-T9D□-C5□	LP-A104-T9D□-C6□			
Screen size	7.0 inch 10.4 inch				
LCD type	TFT Color LCD				
Resolution	800×480 pixel	800×600 pixel			
Display area	154.4×93.44 mm	211.2×158.4 mm			
Display color	16,777,216 color				
LCD view angle (top/bottom/left/right)	Within 50°/60°/65°/65° of each	Within 60°/70°/80°/70° of each			
Backlight	White LED				
Luminance adjustment	Adjustable by software				
Touch	Resistive type (4-wire)				
Input	16-point	32-point			
Insulation method	Photo coupler insulation				
Rated input voltage	24 VDC==				
Rated input current	X0 to X8: ≈ 10 mA, X9 to XF: ≈ 4 mA	$X0 \text{ to } X8: \approx 10 \text{ mA, } X9 \text{ to } X1F: \approx 4 \text{ mA}$			
Voltage range	19.2-28.8 VDC==				
Input resistance	X0 to X8: 3.3 kΩ, X9 to XF: 5.6 kΩ	X0 to X8: 3.3 kΩ, X9 to X1F: 5.6 kΩ			
Response time	0.5 ms				
Common method	16-point/1COM	16-point/1COM, 16-point/1COM			
Applicable wire	Stranded wire 0.3 to 0.7 mm <sup>2</sup>				
Output	16-point	32-point			
Power supply	24 VDC				
Insulation method	Photo coupler insulation				
Rated load voltage	24 VDC==				
Load voltage range	19.2-28.8 VDC=				
Max. load current	0.1 A/1-point, 1.6 A/1COM				
Max. voltage falling when ON					
Common method	16-point/1COM	16-point/1COM, 16-point/1COM			
Applicable wire	Stranded wire 0.3 to 0.7 mm <sup>2</sup>				
Approval	C€ № EHI				
Unit weight (package)	$\approx 540 \mathrm{g} \ (\approx 742 \mathrm{g})$ $\approx 1.10 \mathrm{kg} \ (\approx 1.66 \mathrm{kg})$				
Command	asic command: 28, application command: 236				
Program capacity	8 K step				
Processing speed	Average: approx. 1µs/basic command, application command				
I/O control method	Batch processing				
Computer control method	Repeated-doubling method, interrupt processing				
B	D ( + 41D 4 C ; 1)				

Supportive interface can be different up to model. Please refer to 'Ordering Information' for the supportive interface per model and 'LP-A Series user manual' and 'GP/LP user manual for communication' for the detailed information about each interface.

Refer to 'LP-A Series user manual'

USB Host, USB Device (USB2.0)

Micro SD up to 32 GB (FAT16/32)

IEEE802.3(U), 10/100Base-T

RS232C, RS422

24V CAN transceive

RTC embedded

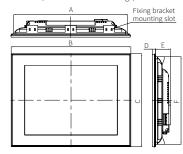
Korean, English

Positioning function, motion coltroller, high speed counter

Text	Bitmap and vector font				
Memory for user screen	64 MB				
Number of user screen	100 pages				
Powersupply	24 VDC==				
Allowable voltage range	90 to 110% of power supply				
Power consumption	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 ( $\leq 100 \Omega$ )				
Noise immunity	The square wave noise (pulse width: 1 $\mu$ s) by the noise simulator $\pm$ 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 (malfunc- tion)	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/s <sup>2</sup> (approx. 10 G) in each X, Y, Z direction for 3 times				
Ambient temperature	0 to 50 °C, storage: -20 to 60 °C (no freezing or condensation)				
Ambient humidity	35 to 85%RH, storage: 35 to 85%RH (no freezing or condensation)				
Protection structure	IP65 (front panel, IEC standard)				

### **Dimensions**

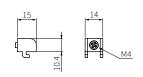
 $\bullet\,$  Unit: mm, For the detailed drawings, follow the Autonics website.

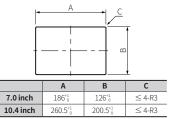


	A	В	С	D	Е	F
7.0 inch	185	194	134	6.5	28.5	125
10.4 inch	260	273	212	7.2	34	200

Fixing bracket

• Panel cut-out





### **Software**

Visit Autonics web site to download software.

- atDesigner
- atDesigner is for editing project file.
- atLogic
- atLogic is for writing and debugging program.
- $\bullet \ \ Recommended \ computer \ specification$

Item	Recommended spec for atDesigner	Recommended spec for atLogic		
Operating system	Microsoft Windows 7/8.1/10	Microsoft Windows 7/8.1/10		
CPU	Over Intel Core i5-2nd gen. 2500	Over Pentium Dual Core		
Memory	Over 8 GB	Over 1 GB		
Hard disk	Over 8 GB free space	Over 5 GB free space		
Resolution	1920×1080	1280×1024		

• Firmware

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