



High Color · Wide DOP-B07 Screen · User-Friendly **HMI Products**

Instrunction Sheet

Preface

Thank you for purchasing DELTA's DOP-B series. This instruction sheet will be helpful in the installation, wiring and inspection of Delta HMI. Before using the product, please read this instruction sheet to ensure correct use. You should thoroughly understand all safety precautions before proceeding with the installation, wiring and operation. Place this instruction sheet in a safe location for future reference. Please observe the following precautions:

- Install the product in a clean and dry location free from corrosive and inflammable gases or liquids.
- Ensure that all wiring instructions and recommendations are followed.
- Ensure that HMI is correctly connected to a ground. The grounding method must comply with the electrical standard of the country (Please refer to NFPA 70: National Electrical Code, 2005 Ed.).
- Do not disassemble HMI, modify or remove wiring when power is applied to HMI.
- Do not touch the power supply during operation. Otherwise, it may cause electric shock.

If you have any questions during operation, please contact our local distributors or Delta sales representatives.

The content of this instruction sheet may be revised without prior notice. Please consult our distributors or download the most updated version at http://www.delta.com.tw/ia.

2 Pin Definition of Serial Communication

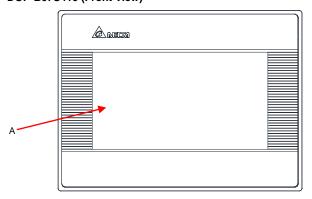
B07S410 COM Port

COM Port	Pin	MODE1	MODE2	MODE3
		RS-232	RS-422	RS-485
PIN1	1		TXD+	D+
	2	RXD		
	3	TXD		
	4		RXD+	
	5	GND	GND	GND
	6		TXD-	D-
	7	RTS		
	8	CTS		
	9		RXD-	

Note1: Blank = To avoid malfunction, it must be left unconnected.

Parts Names

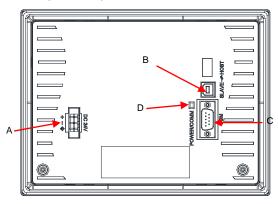
DOP-B07S410 (Front View)



Touch Screen / Display

Please note DOP-B07S410 model has not system key, user could press at blank space for a while to enter system menu.

DOP-B07S410 (Rear View)

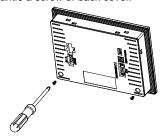


Α	Power Input Terminal	В	USB Slave
С	СОМ	D	Power and Communication LED Light.

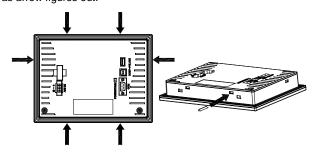
DOP-B07S410 Battery change notice

Please do not use other company battery in DOP-B07S410. If users need to buy the battery, please look for Delta suppliers.

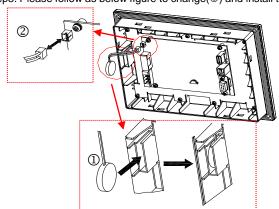
Step1. Please dismantle a screw of back cover.



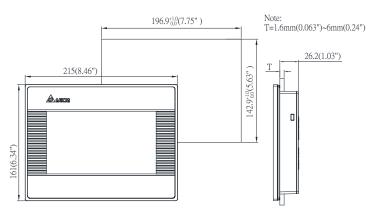
Step2. Use the implement to dismantle the back cover with tenon-mortise like as arrow figures out.



Step3. Please follow as below figure to change(①) and install the battery(②)



6 Dimensions DOP-B07S410



6 Specifications

	ecification	12	
Mc	odel Name	DOP-B07S410	
LCD	Display Type	7" TFT LCD (65536 colors)	
	Resolution	800 x 480 pixels	
	Backlight	LED Back Light (less than 20,000 hours half-life at 25°C) (Note 1)	
	Display Size	154.08 x 85.92mm	
Operation System		Delta Real Time OS	
MCU		32-bit RISC Micro-controller	
NOR Flash ROM		Flash ROM 4 MB	
		(OS System: 2MB / User Application: 2MB)	
	SDRAM	64Mbytes	
Bacl	kup Memory	32Kbytes	
	Buzzer	Multi-Tone Frequency (2K ~ 4K Hz) / 85dB	
	USB	1 USB Slave Ver 2.0	
Serial			
COM	COM1	RS-232 (supports hardware flow control) / RS-422 / RS-485	
Perpe	etual Calendar (RTC)	Built-in	
Coo	ling Method	Natural air circulation	
Safe	ety Approval	CE	
Water	rproof Degree	IP65	
	<u> </u>	DC +24V (-10% ~ +15%)	
Operation Voltage (Note2)		(please use isolated power supply)	
Voltage Endurance		AC500V for 1 minute (between charging (DC24V terminal) and FG terminals)	
Power Consumption (Note 2)		3.5W	
Bac	kup Battery	3V lithium battery CR2032 x 1	
Backup Battery Life		It depends on the temperature used and the conditions of usage, about 3 years or more at 25°C.	
Operation	on Temperature	0°C ~ 50°C	
	e Temperature	-20°C ~ +60°C	
Ambient Humidity		10% ~ 90% RH [0 ~ 40°C], 10% ~ 55% RH [41 ~ 50°C] Pollution Degree 2	
Vibration		IEC 61131-2 compliant 5Hz≦f < 8.3Hz = Continuous: 3.5mm, 8.3Hz≦f≦150Hz = Continuous: 1.0g	
	Shock	IEC 60068-2-27 compliant 15g peak for 11 ms duration, X, Y, Z directions for 6 times	
	imensions	215 x 161 x 35.3	
(W) x (H) x (D) mm			
Panel Cutout (W) x (H) mm		196.9 x 142.9	
Weight		Approx.700g	



- The half-life of backlight is defined as original luminance being reduced by 50% when the maximum driving current is supplied to HMI. The life of LED backlight shown here is an estimated value under 25 °C normal temperature and humidity conditions.
- 2) The value of the power consumption indicates the electrical power consumed by HMI only without connecting to any peripheral devices. In order to ensure the normal operation, it is recommended to use a power supply which the capacity is 1.5 ~2 times the value of the power consumption.
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