



DOP-B07

High Color • Wide Screen • User-Friendly HMI Products

No.18, Xinglong Rd., Taoyuan City 33068, Taiwan

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

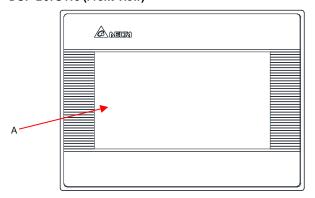
B07S410 COM Port

20.01.000					
Pin	MODE1	MODE2	MODE3		
	RS-232	RS-422	RS-485		
1		TXD+	D+		
2	RXD				
3	TXD				
4		RXD+			
5	GND	GND	GND		
6		TXD-	D-		
7	RTS				
8	CTS				
9		RXD-			
	1 2 3 4 5 6 7 8	RS-232 1 2 RXD 3 TXD 4 5 GND 6 7 RTS 8 CTS	RS-232 RS-422 1 TXD+ 2 RXD 3 TXD 4 RXD+ 5 GND GND 6 TXD- 7 RTS 8 CTS		

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

3 Parts Names

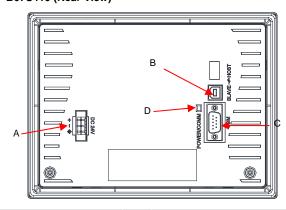
DOP-B07S410 (Front View)



A 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.

Call +1(800)985-6929 To Order or Order Online At Deltaacdrives.com DOP-B07S410 (Rear View)

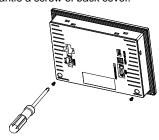


Α	Power Input Terminal	В	USB Slave
С	СОМ	D	Power and Communication LED Light.

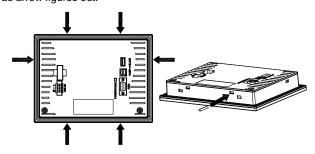
OP-B07S410 Battery change notice

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

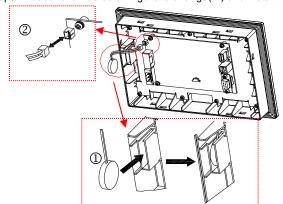
Step1. Please dismantle a screw of back cover.



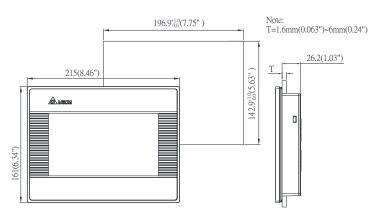
Step2. Use the implement to dismantle the back cover with tenon-mortise like as arrow figures out.



Step3. Please follow as below figure to change (0) and install the battery (2)



5 Dimensions DOP-B07S410



6 Specifications

Mo	Model Name DOP-B07S410				
	Display Type	7" TFT LCD (65536 colors)			
Щ	Resolution	800 x 480 pixels			
LCD	Backlight	LED Back Light (less than 20,000 hours half-life at 25°C) (Note 1)			
	Display Size	154.08 x 85.92mm			
Opera	ation System	Delta Real Time OS			
MCU		32-bit RISC Micro-controller			
NOD	Floor DOM	Flash ROM 4 MB			
NOR	Flash ROM	(OS System: 2MB / User Application: 2MB)			
	SDRAM	64Mbytes			
Back	kup Memory	32Kbytes			
	Buzzer	Multi-Tone Frequency (2K ~ 4K Hz) / 85dB			
	USB	1 USB Slave Ver 2.0			
Serial COM Port	COM1	RS-232 (supports hardware flow control) / RS-422 / RS-485			
Perpe	tual Calendar (RTC)	Built-in			
Coo	ling Method	Natural air circulation			
Safe	ety Approval	CE			
Water	proof Degree	IP65			
		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			
Storage	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 $5Hz \le f < 8.3Hz = Continuous$: 3.5mm, $8.3Hz \le f \le 150Hz = Continuous$: 1.0g			
Shock		IEC 60068-2-27 compliant 15g peak for 11 ms duration, X, Y, Z directions for 6 times			
Dimensions (W) x (H) x (D) mm		215 x 161 x 35.3			
Panel Cutout (W) x (H) mm		196.9 x 142.9			
	Weight	Approx.700g			



- 1) 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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