



DOP*-B07* 

High Color • Wide Screen • User-Friendly HMI Products

# B07S(E)411/B07S411K / B07S401K Instrunction Sheet

## (1) 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

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

## DOP-B07S(E)411 / DOP-B07S411K / DOP-B07S401K COM1 Port

COM Port	COM Port PIN	
		RS-232
5.1.7	1	
PIN1	2	RXD
/	3	TXD
	4	
	5	GND
	6	
	7	RTS
	8	CTS
	9	

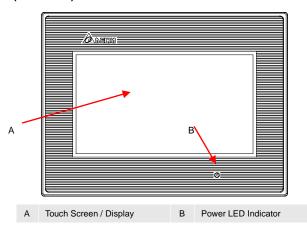
#### DOP-B07S(E)411 / DOP-B07S411K / / DOP-B07S401K COM2 Port

\ /		MODE1		MODE2		MODE3	
COM Port	PIN	COM2	сомз	COM2	сомз	COM2	сомз
		RS-232	RS-485	RS-485	RS-485	RS-232	RS-422
	1			D+			TXD+
PIN1	2	RXD				RXD	
	3	TXD				TXD	
	4		D+		D+		RXD+
	5	GND		GND		GND	
	6			D-			TXD-
00	7						
	8						
	9		D-		D-		RXD-

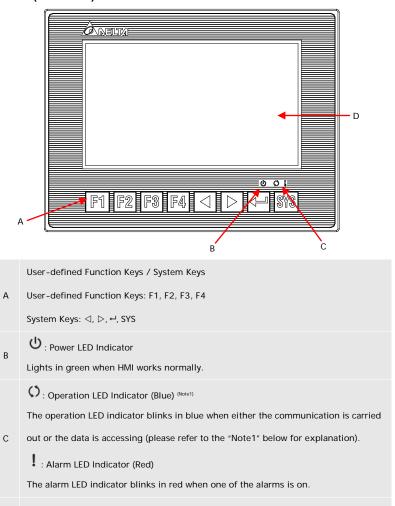
Note1: Blank = No Connection.

## (3) Parts Names

### DOP-B07S(E)411 (Front View)



#### DOP-B07S411K (Front View)

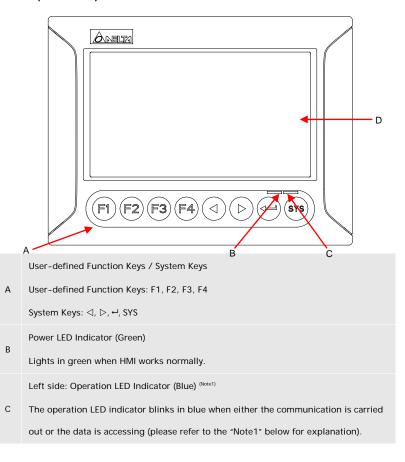


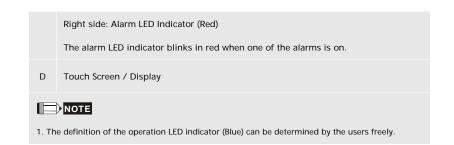
## NOTE

D Touch Screen / Display

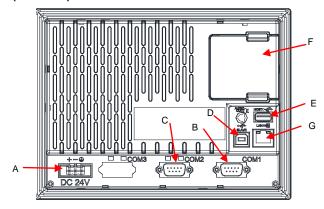
1. The definition of the operation LED indicator (Blue) can be determined by the users freely

## DOP-B07S401K (Front View)



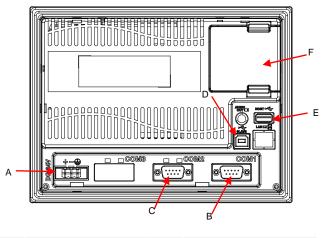


## DOP-B07S(E)411 (Rear View)



Α	Power Input Terminal	В	COM1
С	COM2	D	USB Slave
Е	USB Host	F	Battery Case
G	Ethernet Interface (LAN) Note: DOP-B07E411 only.		

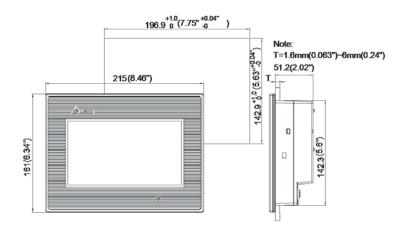
#### DOP-B07S411K / DOP-B07S401K (Rear View)



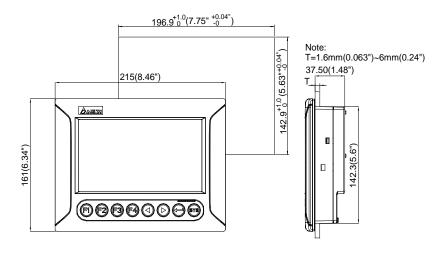
Α	Power Input Terminal	В	COM1
С	COM2	D	USB Slave
Е	USB Host	F	Battery Case

# (4) Dimensions

DOP-B07S(E)411 / DOP-B07S411K



## DOP-B07S401K



## (5) Specifications

MODEL		DOP-B07S411	DOP-B07E411	DOP-B07S411K	DOP-B07S401K	
щ	Display Type	7" TFT LCD (65535 colors)				
JDQC	Resolution	800 x 480 pixels				
CD MODULE	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 M	icro-controller		
NOR	Flash ROM	(OS Syste	Flash ROI em: 30MB / Backup: 1		on: 82MB)	
(	SDRAM		64Mt	oytes	·	
Back	cup Memory		16Mt	oytes		
	Buzzer	N	fulti-Tone Frequency	( 2K ~ 4K Hz ) / 85c	IB	
Ethernet Interface  N/A  Ethernet Interface  N/A  IEEE 802.3u  10/100 Mbps auto-sensing (has built-in isolated power circuit (Note 2))		N,	N/A			
	USB		1 USB Sla 1 USB Ho			
COM1		RS-232(supports hardware flow control)				
Serial COM Port	COM2	RS-232 / RS-485				
	СОМЗ		RS-422 /	/ RS-485		
Function Key N/A		/A	User defined key x 4 + System key x 4			
Perpetual Calendar (RTC)		Built-in				
Coo	ling Method	Natural air circulation				
Safe	ty Approval	CE / UL				
Water	proof Degree	IP65				

MODEL	DOP-B07S411	DOP-B07E411	DOP-B07S411K	DOP-B07S401K		
Operation Voltage (Note2)	DC +24V ( -10% ~ +15% ) (please use isolated power supply)					
Voltage Endurance	AC500V for 1 minute (between charging (DC24V terminal) and FG terminals)					
Power Consumption (Note 2)		4.0W				
Backup Battery		3V lithium batte	ery 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 Temperature	0°C ~ 50°C					
Storage 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: 1.0q					
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 50					
Panel Cutout (W) x (H) mm	196.9 x 142.9					
Weight	Approx. 820g Approx. 840g			x. 840g		



- 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.
- 3) The content of this instruction sheet may be revised without prior notice. Please consult our distributors or download the most updated version at <a href="http://www.delta.com.tw/ia.">http://www.delta.com.tw/ia.</a>