



# DOP-B07

# 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 representatives

## (2) Pin Definition of Serial Communication

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

COM Port	PIN	MODE1	
		RS-232	
	1		
PIN1	2	RXD	
	3	TXD	
	4		
	5	GND	
	6		
	7	RTS	
	8	CTS	
	9		

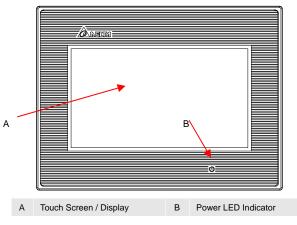
DOP-B07S(E)411 / DOP-B07S411K / / DOP-B07S401K COM2 Port

COM Port		MODE1		MODE2		MODE3	
	PIN	COM2	COM3	COM2	COM3	COM2	сомз
		RS-232	RS-485	RS-485	RS-485	RS-232	RS-422
PIN1	1			D+			TXD+
	2	RXD				RXD	
	3	TXD				TXD	
	4		D+		D+		RXD+
	5	GND		GND		GND	
	6			D-			TXD-
	7						
	8						
	9		D-		D-		RXD-

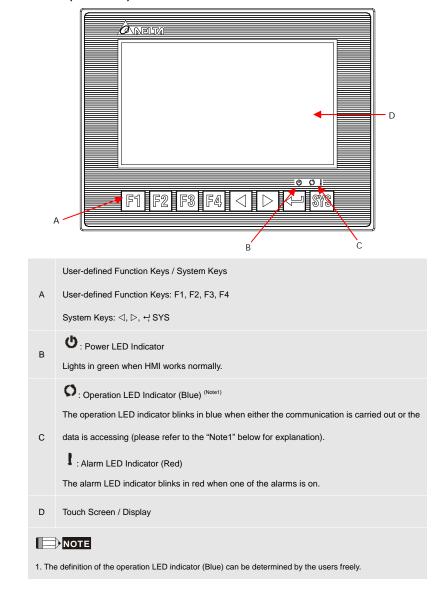
Note1: Blank = No Connection.

# (3) Parts Names

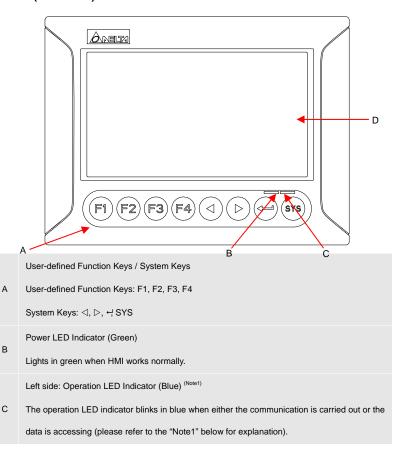
DOP-B07S(E)411 (Front View)

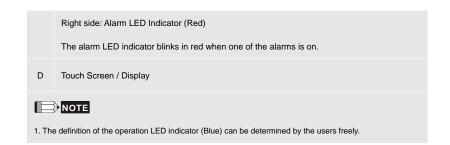


#### DOP-B07S411K (Front View)

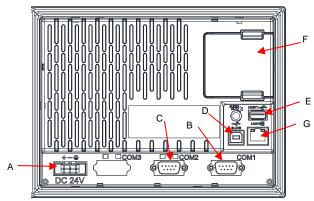


#### DOP-B07S401K (Front View)





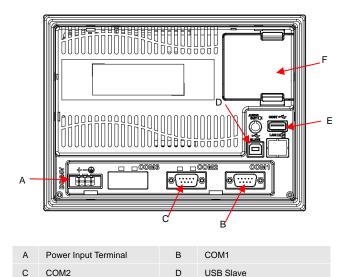
#### DOP-B07S(E)411 (Rear View)



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

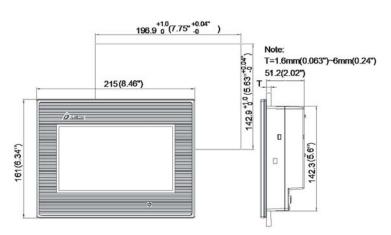
#### DOP-B07S411K / DOP-B07S401K (Rear View)

E USB Host

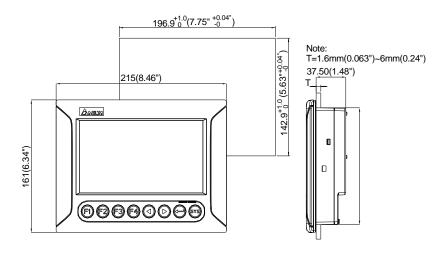


# (4) Dimensions

DOP-B07S(E)411 / DOP-B07S411K



### DOP-B07S401K



# (5) Specifications

MODEL		DOP-B07S411	DOP-B07S401K				
щ	Display Type	7" TFT LCD (65535 colors)					
Indo	Resolution						
LCD MODULE	Backlight	LED Back Light (less than 20,000 hours half-life at 25°C) (Note 1)					
9	Display Size						
Operation System D			Delta Rea	Real Time OS			
	MCU		32-bit RISC M	icro-controller			
NOR	Flash ROM	Flash ROM 128 MB (OS System: 30MB / Backup: 16MB / User Application: 82MB)			on: 82MB)		
;	SDRAM	, ,	64Mb	oytes	,		
Back	kup Memory		16Mb	oytes			
	Buzzer Multi-Tone Frequency ( 2K ~ 4K Hz ) / 8			( 2K ~ 4K Hz ) / 85c	5dB		
Ethernet Interface			IEEE 802.3, IEEE 802.3u	_			
		N/A	10/100 Mbps auto-sensing (has built-in isolated power circuit (Note 2))	N/A			
USB		1 USB Slave Ver 2.0 1 USB Host Ver 1.1					
	COM1	RS-232(supports hardware flow control)					
Serial COM Port	COM2	RS-232 / RS-485					
	СОМЗ	RS-422 / RS-485					
Fui	nction Key	N/A		User defined key x 4 + System key x 4			
Perpetual	Calendar (RTC)	Built-in					
Coo	Cooling Method Natural air circula		Natural air circulation				
Safety Approval		CE / UL					
Water	proof Degree	IP65					
Operation	on Voltage (Note2)	DC +24V ( -10% ~ +15% ) (please use isolated power supply)					

MODEL	DOP-B07S411	DOP-B07E411	DOP-B07S411K	DOP-B07S401K	
WIODEL	DOF-60/3411	DUF-BU/E411	DOF-60/3411K	DOF-60/3401K	
Voltage Endurance	AC500V for 1 minute (between charging (DC24V terminal) and FG terminals)				
Power Consumption (Note 2)	4.0W				
Backup 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 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 $5Hz \le f < 8.3Hz = Continuous$ : 3.5mm, $8.3Hz \le f \le 150Hz = Continuous$ : 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				

Pobrano z: https://panele-hmi.pl/panel-operatorski-hmi-7-delta-electronics-dop-b07s411