



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

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

(1) Preface

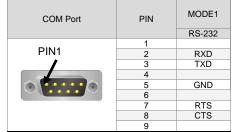
Thank you for purchasing DELTA's DOP-B series. This instruction sheet will be helpful in the installation, wiring and inspection of Delta HMI. Before using the product, please read this instruction sheet to ensure correct use. You should thoroughly understand all safety precautions before proceeding 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 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 DOP-B07S(E)411 / DOP-B07S411K / DOP-B07S401K COM1 Port



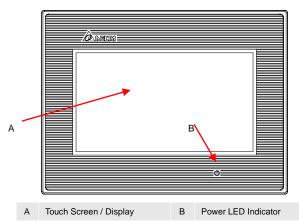
DOP-B07S(E)411 / DOP-B07S411K / / DOP-B07S401K COM2 Port

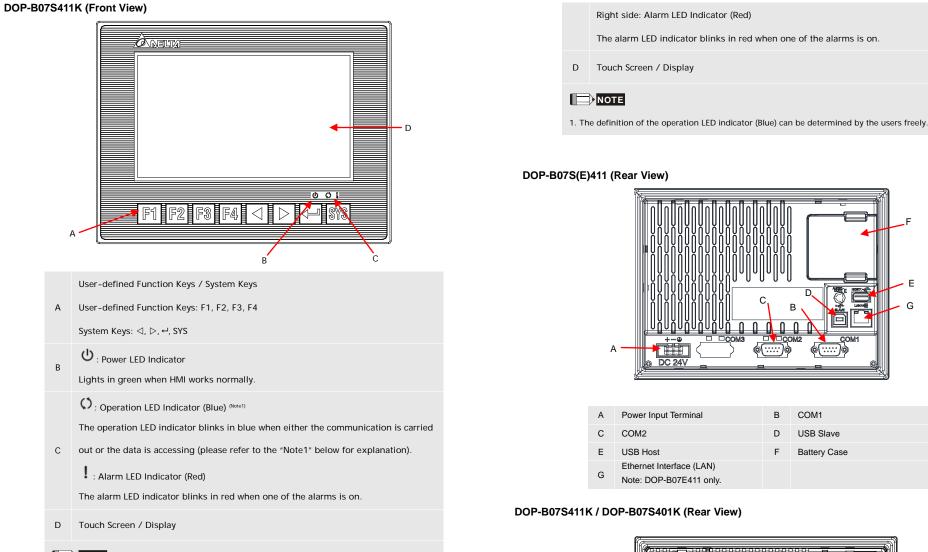
		MODE1		MODE2		MODE3	
COM Port	PIN	COM2	COM3	COM2	COM3	COM2	COM3
		RS-232	RS-485	RS-485	RS-485	RS-232	RS-422
	1			D+			TXD+
DINK	2	RXD				RXD	
	3	TXD				TXD	
PIN1	4		D+		D+		RXD+
6	5	GND		GND		GND	
	6			D-			TXD-
	7						
	8						
	9		D-		D-		RXD-

Note1: Blank = No Connection

(3) Parts Names

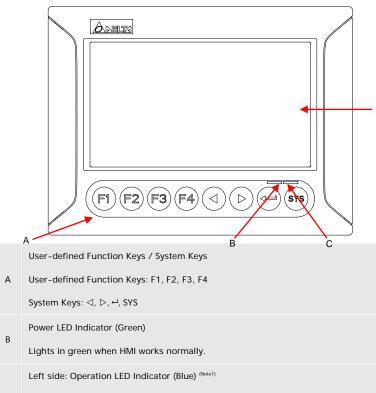
DOP-B07S(E)411 (Front View)





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

DOP-B07S401K (Front View)

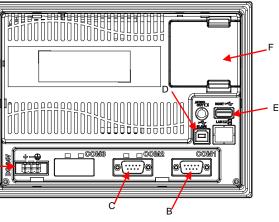


С The operation LED indicator blinks in blue when either the communication is carried

out or the data is accessing (please refer to the "Note1" below for explanation)

r Input Terminal	В	COM1
2	D	USB Slave
Host	F	Battery Case
net Interface (LAN)		
DOP-B07E411 only.		

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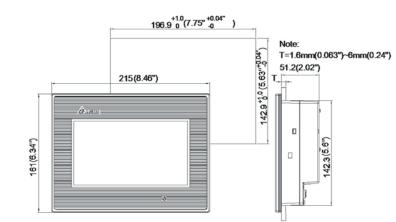


А	Power Input Terminal	В	COM1
С	COM2	D	USB Slave
Е	USB Host	F	Battery Case

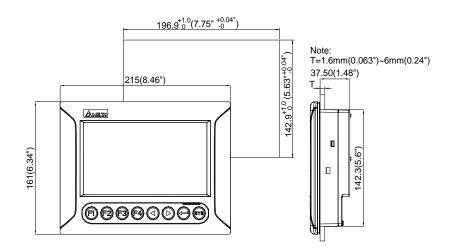


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(4) Dimensions DOP-B07S(E)411 / DOP-B07S411K



DOP-B07S401K



(5) Specifications

	MODEL	DOP-B07S411	DOP-B07E411	DOP-B07S411K	DOP-B07S401K	
Display Type Resolution Backlight		7" TFT LCD (65535 colors)				
		800 x 480 pixels				
Backlight		LED Back Light (less than 20,000 hours half-life at 25°C) (Note 1)				
FC	Display Size	154.08 x 85.92mm				
Opera	ation System	Delta Real Time OS				
	MCU	32-bit RISC Micro-controller				
NOR Flash ROM		Flash ROM 128 MB (OS System: 30MB / Backup: 16MB / User Application: 82MB)				
:	SDRAM	64Mbytes				
Backup Memory		16Mbytes				
Buzzer		Multi-Tone Frequency (2K ~ 4K Hz) / 85dB				
Ethernet Interface		N/A	N/A IEEE 802.3, IEEE 802.3u 10/100 Mbps auto-sensing (has built-in isolated power circuit ^(Nice 2))		/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				
	COM3	RS-422 / RS-485		RS-485		
Function Key		Ν	I/A	User defined key x 4 + System key x 4		
Perpetual Calendar (RTC)		Built-in				
Cooling Method		Natural air circulation				
Safe	ety Approval	CE / UL				
Waterproof 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 battery CR2032 × 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	$0^{\circ}C \sim 50^{\circ}C$				
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: 1.0g				
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 50				
Panel Cutout (W) x (H) mm	196.9 x 142.9				
Weight	Approx. 820g Approx. 840g			x. 840g	

- 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.
- 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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