



# Technical Announcement

DELTA ELECTRONICS, INC. Electromechanical B.U.

Product	HMI	Models	All DOP A&B Series	Security Classification	<input checked="" type="checkbox"/> General <input type="checkbox"/> Confidential <input type="checkbox"/> Top-secret
				ECN No.	NA
Publish Division	Application Engineering	Publisher	Martin Lin	Issue No.	FAE-01-H08903-000
				Released Date	9/3/2008
Receiving Div.	TW Sales & PM, DCE, DEU, DPR, DES, DEJ,DEK,DEJ				

## Purpose:

DOP HMI bypass mode function operation guidance.

## Explanation:

1. How to use bypass mode via COM port to communicate with PLC.
2. How to use bypass mode via USB port to communicate with PLC.

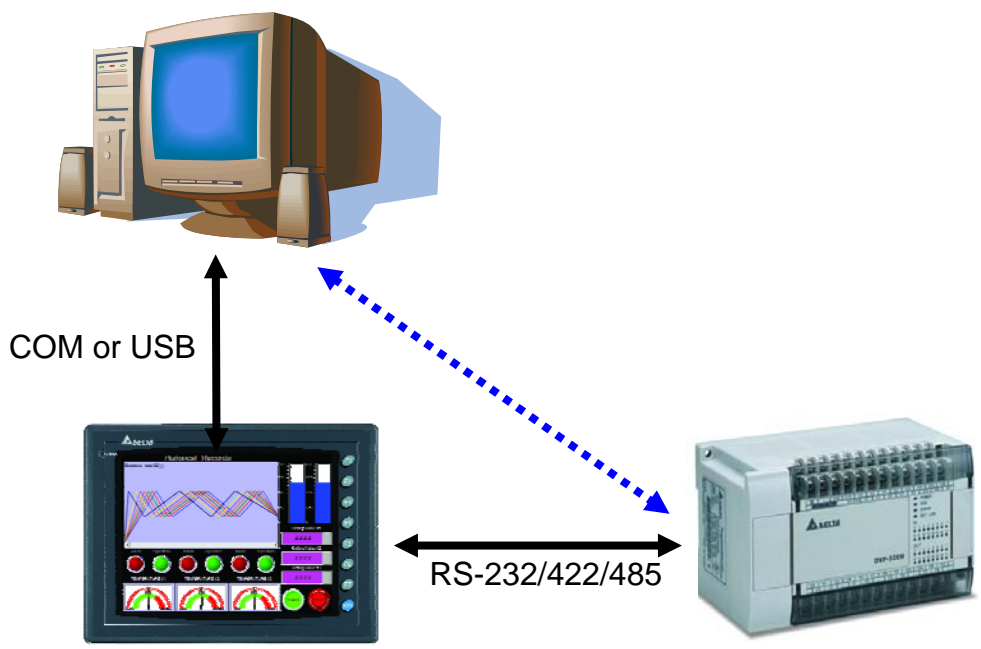
## Note:

1. HMI does not operate in bypass mode.
2. The bypass mode only provides controller with Delta PLC.


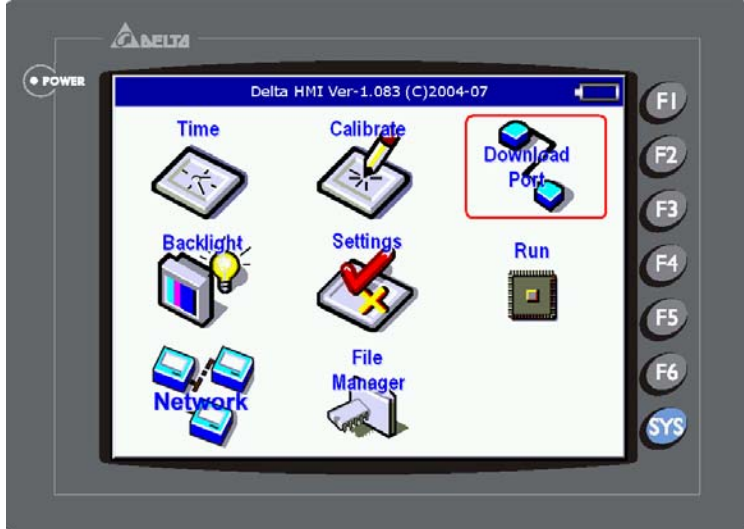
品質至上  
信賴第一  
追求卓越


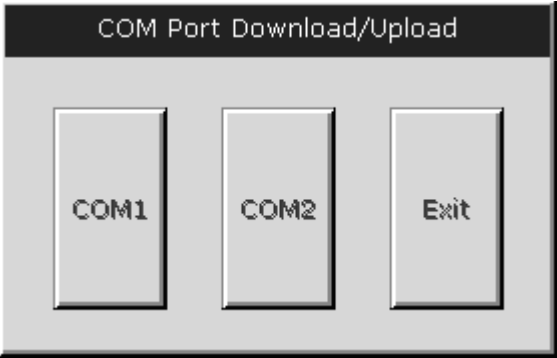


QUALITY  
RELIABILITY  
EXCELLENCE

HMI provides bypass mode function. The bypass mode function means PC can monitor PLC directly via HMI communication port. The user can monitor or up/download PLC program in bypass mode.



# 1. Bypass mode via COM port

	Settle the cable between HMI and PLC.
	Make sure the protocols in HMI and PLC are the same.
	Enter the system page and select bypass mode.
	Press SYS key more than 3 seconds. You will see the Download Port text and press it.
	

	<p>Select the communications interface.</p> 
COM1/COM2	<p>Select bypass mode function.</p> 
YES	<p>Bypass mode is being executed.</p> 

Opening the WPL program and choose the correct communication interface.  
This example adopts RS-232 interface.



**&Communication Set**

Connection Setup

Type

Communication Setting

COM Port  ☒ ASCII ☐ RTU

Data Length

Parity

Stop Bits

Baud Rate

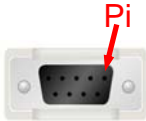


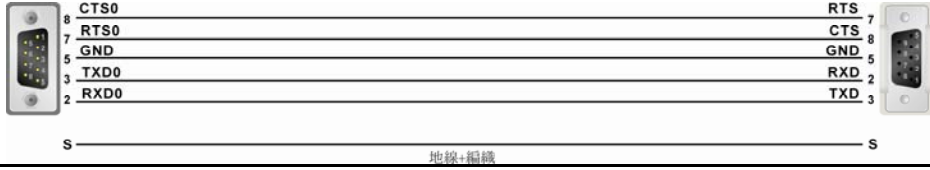

Station Address

Assign IP Address


☐


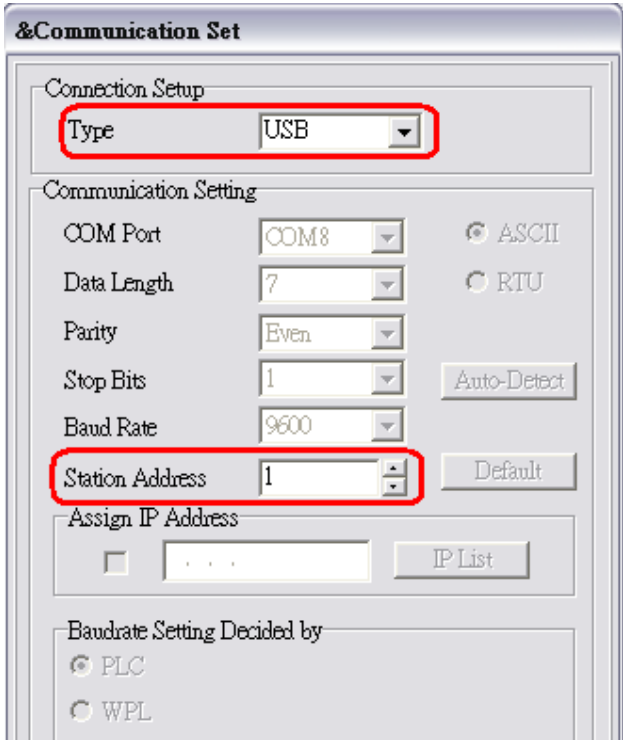


Baudrate Setting Decided by

☒ PLC ☐ WPL

CABLE	Settle the cable between HMI (COM1) and PC via RS-232. If the communication between HMI and PLC adopts RS-232 at COM2, HMI will connect to PC by RS-232 through COM1.		
	DOP 9 pin D-SUB male (RS-232)	PC 9 pin D-SUB female (RS-232)	Controller
	RXD (2) ————— (3) TXD TXD (3) ————— (2) RXD GND (5) ————— (5) GND RTS (7) ————— (8) CTS CTS (8) ————— (7) RTS		
 D-SUB 9pin to DOP series (male)			 D-SUB 9pin to PC (female)
			
	Use WPL software to monitor PLC in bypass mode.		
	To finish the bypass mode with COM port.		

2. Bypass mode via USB port

	Settle the cable between HMI and PLC.
	Make sure the protocols in HMI and PLC are the same.
CABLE	Settle the cable between HMI and PC via USB.  USB TAPE B to DOP series <span style="float: right;">USB TAPE A to PC</span>

	<p>Opening the WPL program and choose the correct communication interface. This example adopts USB interface.</p> <p>Please enter the station address if the original communication between HMI and PLC is use RS-485.</p> 
	<p>Use WPL software to monitor PLC in bypass mode.</p>
	<p>Bypass mode is being executed.</p> 
	<p>To finish the bypass mode with USB port.</p>