

## Delta AH series PLC (Standard Modbus)

### HMI Factory Setting:

Baud Rate: 9600. 7. Even. 1. RS232

Controller Station Number: 1

Control Area / Status Area: D0/D10

### Connection

#### a. RS-232 (DOP-A/AE/AS, DOP-B Series)

DOP series		Controller	
9 pin D-sub male (RS-232)		9 pin Mini DIN male (RS-232)	
RXD (2)	—————	(3) TXD	
TXD (3)	—————	(2) RXD	
GND (5)	—————	(5) GND	

### Definition of PLC Read/Write Address

#### a. Registers

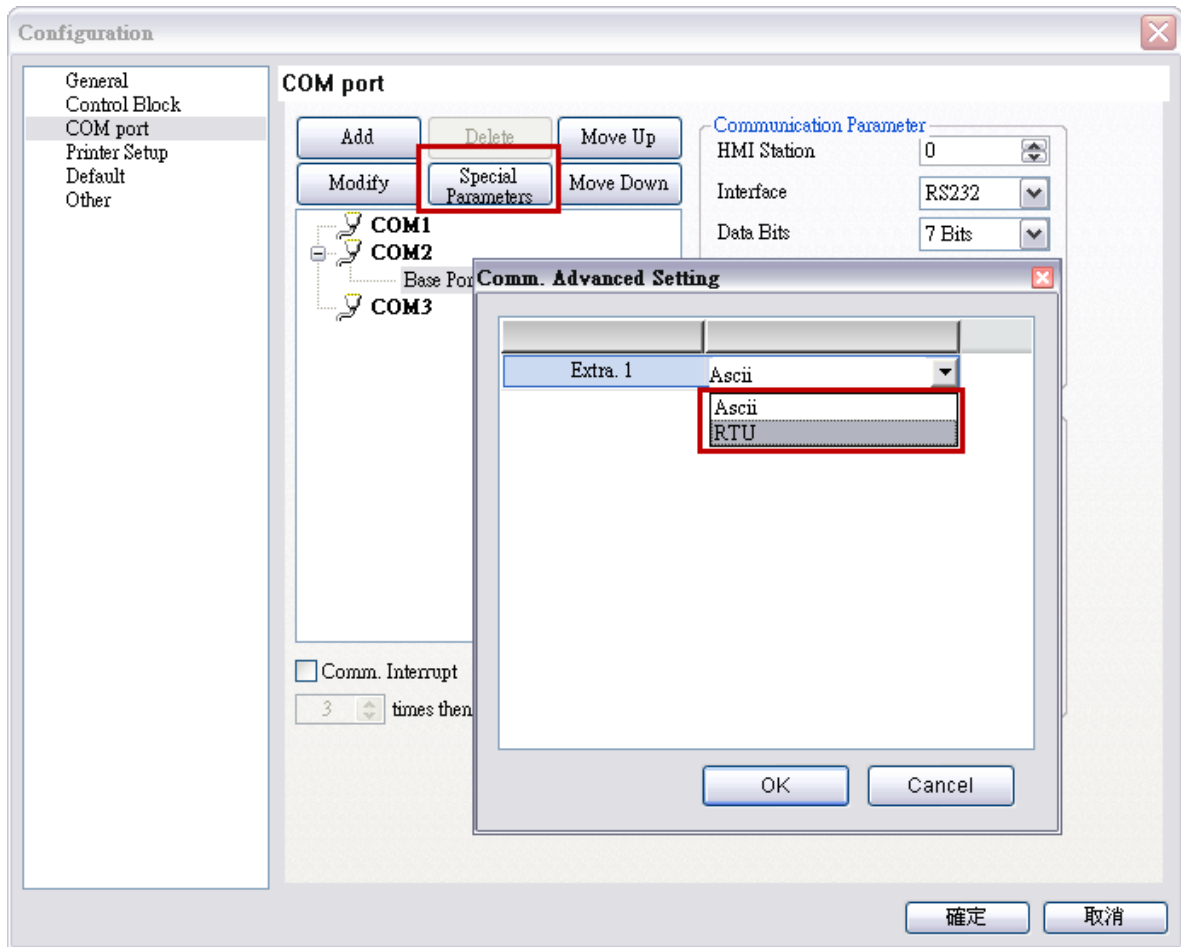
Type	Format	Read/Write Range	Data Length	Note
	Word No. (n)			
Input Relay	Xn	X0 – X511	Word	
Output Relay	Yn	Y0 – Y511	Word	
Auxiliary Relay	Mn	M0 – M8191	Word	<a href="#">6</a>
Stepping Relay	Sn	S0 – S2047	Word	<a href="#">6</a>
Special Auxiliary Relay	SMn	SM0 – SM2047	Word	<a href="#">6</a>
Special data Register	SRn	SR0 – SR2047	Word	
Data Register	Dn	D0 – D65535	Word	
Timer	Tn	T0 – T2047	Word	
Counter	Cn	C0 – C2047	Word	
32-bit Counter	HCn	HC0 – HC63	Double Word	
Index Register	En	E0 – E31	Word	
Link Register	Ln	L0 – L65535	Word	

**b. Contacts**

Type	Format	Read/Write Range	Note
	Bit No. (b)		
Input Relay	Xn.b	X0.0 – X511.15	
Output Relay	Yn.b	Y0.0 – Y511.15	
Stepping Relay	Sb	S0 – S2047	
Auxiliary Relay	Mb	M0 – M8191	
Special Auxiliary Relay	SMb	SM0 – SM2047	
Timer	Tb	T0 – T2047	
Counter	Cb	C0 – C2047	
32-bit Counter	HCb	HC0 – HC63	
Data Register	Dn.b	D0.0 – D65535.15	<a href="#">4</a>
Link Register	Ln.b	L0.0 – L65535.15	

 **NOTE**

- 1) PLC will reset to Modbus Ascii protocol when the power of PLC is cut off.
- 2) Please use "Screen Editor" → "Special Parameters" → "Extra" to set HMI. It supports both Ascii/RTU mode, but default is Ascii mode.



- 3) Set PLC by switch setting Modbus Ascii and Modbus at "Delta ISPSOft \ Project" >> "PLC Parameter".
- 4) Contacts Dn.b can not work for broadcast function.
- 5) Relationship between Modbus address HMI register:

Delta AH series PLC (Standard Modbus) Address		Modbus Address (Dec)	Modbus Address (Hex)
Holding Registers	D0.0 - D32767.15	W400001 - W4 32768	W400001 - W4 32768

- 6) The device address must be the multiple of 16.