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

Туре	Format	Read/Write Range	Data Length	Note
	Word No. (n)			
Input Relay	Xn	X 0 – X 511	Word	PLO.
Output Relay	Yn	Y 0 – Y 511	Word	- CA X
Auxiliary Relay	Mn	M0 – M8191	Word	<u>6</u>
Stepping Relay	Sn	S 0 – S 2047	Word	<u>6</u>
Special Auxiliary Relay	SMn	SM 0 – S M 2047	Word	<u>6</u>
Special data Register	SRn	SR 0 – SR 2047	Word	o\.C^\.ii
Data Register	Dn	D 0 – D 65535	Word	
Timer	Tn	T0 – T2047	Word	P/C/ W
Counter	Cn	C0 - C2047	Word	
32-bit Counter	HCn	HC0 - HC63	Double Word	brcv. _W
Index Register	En	E0 – E31	Word	
Link Register	Ln	L0 - L65535	Word	brey.

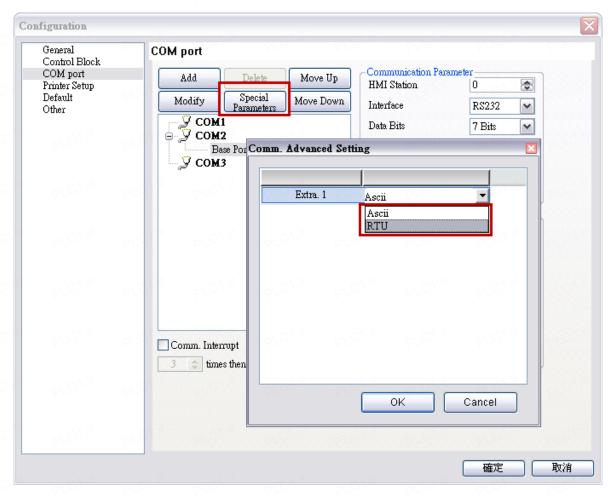
b. Contacts

Type	Format	Read/Write Range	Note
Туре	Bit No. (b)	Read/ Write Railge	Note
Input Relay	X n.b	X 0.0 – X 511.15	: <u>/\</u> .\X
Output Relay	Yn.b	Y 0.0 – Y 511.15	
Stepping Relay	S b	S 0 – S 2047	N. N.
Auxiliary Relay	Mb	MO – M8191	
Special Auxiliary Relay	SM b	SMO – SM2047	-/ <u>/</u> /
Timer	Tb	T0 – T2047	
Counter	Cb	C0 - C2047	34.X
32-bit Counter	HC b	HC0 - HC63	
Data Register	D n.b	D 0.0 – D 65535.15	<u>4</u>
Link Register	L n.b	L0.0 – L65535.15	



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

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- 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	D 0.0 – D 32767.15	W4 00001 – W4 32768	W400001 - W4 32768

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