

## CO-TRUST CTH300-H PPI

Supported Series: CO-TRUST CTH300-H35

Website: <http://en.co-trust.com/>

### HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	CO-TRUST CTH300-H PPI		
PLC I/F	RS485 2W	RS485 2W	
Baud rate	9600	9600, 19200, 187.5K	
Data bits	8	7,8	
Parity	Even	Even, Odd, None	
Stop bits	1	1, 2	
Turn around delay	5		
ACK delay time (ms)	30		
PLC sta. no.	2	1 ~ 126	

Online simulator	YES	Extend address mode	YES
Broadcast	NO		

### PLC Setting:

PLC setting	PLC sta. no. can not be the same as HMI sta. no.
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### Device Address:

Bit/Word	Device type	Format	Range	Memo
B	I	DDDDo	0 ~ 40957	Input (I)
B	Q	DDDDo	0 ~ 40957	Output (O)
B	M	DDDDo	0 ~ 40957	Bit Memory
B	VW_Bit	DDDDDo	0 ~ 102397	V Memory Bit Address
B	S	DDDDo	0 ~ 40957	SCR
B	SM	DDDDo	0 ~ 40957	Special Memory
B	T_Bit	DDDD	0 ~ 1023	Timer
B	C_Bit	DDDD	0 ~ 1023	Counter
B	DBnBit	FFFDDDDDo	0 ~ 255655357	
Byte	VB	DDDDD	0 ~ 10239	
W	VW	DDDDD	0 ~ 10239	V Memory

Bit/Word	Device type	Format	Range	Memo
W	VW_Odd	DDDDD	0 ~ 10239	V Memory
W	VW_String	DDDDD	0 ~ 10239	String
W	VW_String_Odd	DDDDD	0 ~ 10239	String
DW	VD	DDDDD	0 ~ 10239	V Memory Double
DW	VD_Odd	DDDDD	0 ~ 10239	V Memory Double
DW	VD_String	DDDDD	0 ~ 10239	String
DW	VD_String_Odd	DDDDD	0 ~ 10239	String
Byte	MB	DDDDD	0 ~ 10239	Byte Memory
W	MW	DDDDD	0 ~ 10239	Word Memory
W	MW_Odd	DDDDD	0 ~ 10239	Word Memory
DW	MD	DDDDD	0 ~ 10239	Word Memory
Byte	SB	DDDDD	0 ~ 10239	SCR
W	SW	DDDDD	0 ~ 10239	SCR
DW	SD	DDDDD	0 ~ 10239	SCR
Byte	SMB	DDDDD	0 ~ 10239	Special Memory
W	SMW	DDDDD	0 ~ 10239	Special Memory
DW	SMD	DDDDD	0 ~ 10239	Special Memory
W	T	DDD	0 ~ 1023	Timer
W	C	DDD	0 ~ 1023	Counter
Byte	DBBn	FFFDDDDD	0 ~ 25565535	
W	DBn	FFFDDDDD	0 ~ 25565535	
DW	DBDn	FFFDDDDD	0 ~ 25565535	
D	DBn_STRINGCHAR	FFFDDDDD	0 ~ 25565535	

- Double Word and floating point value must use VD device type.

## Multi-HMIs-Multi-PLCs Communication Setting:



For S7-200 PLC, Multi-HMIs-Multi-PLCs communication can be achieved using S7/200 PPI driver, please refer to the settings below.

IN EasyBuilder COM Port Settings, two important parameters must be set:

**COM Port Settings**

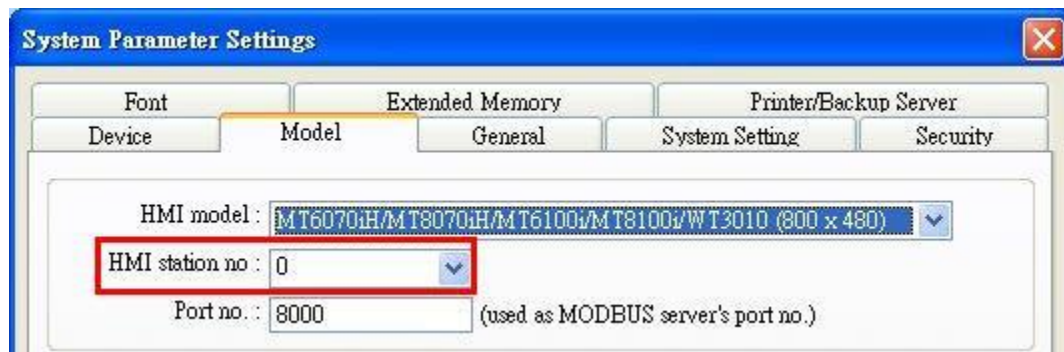
COM : <input type="text" value="COM 1"/>	Timeout (sec) : <input type="text" value="1.0"/>
Baud rate : <input type="text" value="9600"/>	Turn around delay (ms) : <input type="text" value="10"/>
Data bits : <input type="text" value="8 Bits"/>	Send ACK delay (ms) : <input type="text" value="30"/>
Parity : <input type="text" value="Even"/>	High station address (HSA) : <input type="text" value="3"/>
Stop bits : <input type="text" value="1 Bit"/>	Gap update factor (GUF) : <input type="text" value="1"/>
The number of resending commands : <input type="text" value="0"/>	
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

## 1. [High station address (HSA)]:

Setting Max. Station Number of HMI in PPI network.

For the effectiveness of system operation, it is highly recommended that the HMI station number starts from zero and go on sequentially. If there are 4 HMI in PPI network, set station no. from 0~3, and [High station address (HSA)] to 3.

Set HMI station number in [System Parameters] / [Model] / [HMI station no.]:



## 2. [Gap update factor(GUF)]:

The condition to pass a Token. In PPI network only HMI can hold a Token, PLC can only be controlled.

When the HMI that holds Token communicates with PLC for a number of times that equals to the value set here, HMI will pass the Token (control of PLC) to the next HMI. For example, if GUF is set to "1", HMI will pass the control of PLC to the next HMI when read or write the value in an address.

If GUF is set to a bigger value, the HMI that holds Token will control the PLC for a longer time and therefore the Token won't be passed to another HMI and cause failure in communicating with PLC.

A complete communication means HMI reads / writes PLC value for one time.

## Note:

- HMI sta. no. can not be the same as PLC sta. no.
- Highly recommended that HMI sta. no. starts from 0 and go on sequentially for the effectiveness of operation.

## Wiring Diagram:

### RS-485 2W

The serial port pin assignments may vary between HMI models, please click the following link for more information.

