

SIMATIC TI505

SIMATIC TI505 Series PLCs: TI520, TI525, TI530, TI535, TI545, TI555, TI560, TI565, TI575

Using the NTP protocol in a point-to-point single master, single slave format.

http://www.ad.siemens.de/simatic/controller/index_76.htm

HMI Setting:

Parameters	Recommend	Option	Notes
PLC type	SIMATIC TI505		
Com port	RS232	RS232, RS485(4W)	
Baud rate	19200	19200	
Parity bit	Odd	Odd	
Data Bits	7	7	
Stop Bits	1	1	
PLC Station No.	0	Does not apply	

PLC Setting:

Communication mode	NTP protocol
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Device address:

Bit/Word	Device Type	Format	Range	Memo
B	CR	dddd	dddd:1~65535	Internal Relay
B	X	dddd	dddd:1~65535	Discrete input coils
B	Y	dddd	dddd:1~65535	Discrete output coils
W	V	dddd	dddd:1~65535	User data registers
W	STW	dddd	dddd:1~65535	Status word registers
W	TCP	dddd	dddd:1~65535	Timer/counter preset values
W	TCC	dddd	dddd:1~65535	Timer/counter current values
W	WX	dddd	dddd:1~65535	Word discrete inputs
W	WY	dddd	dddd:1~65535	Word discrete outputs

Wiring diagram:

RS-232:

MT8000 HMI
9P D-SUB

COM1 [RS232]	COM2 [RS232]	COM3 [RS232]
3 TX	4 TX	7 TX
2 RX	6 RX	8 RX
5 GND	5 GND	5 GND

SIMATIC TI505
25Pin D-SUB

3 RXD
2 TXD
7 GND
4 RTS
5 CTS
6 DSR
8 DCD
20 DTR

RS-232:

MT8000 HMI
9P D-SUB

COM1 [RS232]	COM2 [RS232]	COM3 [RS232]
3 TX	4 TX	7 TX
2 RX	6 RX	8 RX
5 GND	5 GND	5 GND

SIMATIC TI505
9Pin D-SUB

2 RXD
3 TXD
5 GND
7 RTS
8 CTS
1 DCD
4 DTR
6 DSR

RS485 4W:

MT8000HMI
COM1 RS-485/4w
9P D-SUB

SIMATIC TI505
9Pin D-SUB

1 RX-	7 DO(-)
2 RX+	1 DO(+)
3 TX-	8 DI(-)
4 TX+	5 DI(+)
5 GND	6 GND