

Schneider MODBUS RTU

Supported Series : Schneider MODBUS RTU CONTROLLER (M221)

Website: <http://www.schneider-electric.com/site/home/index.cfm/www/>

HMI Setting:

Parameters	Recommended	Options	Notes
PLC type	Schneider MODBUS RTU		
PLC I/F	RS485	RS232/RS485	
Baud rate	9600	9600~115200	
Data bits	8	7,8	
Parity	Even	Even, Odd, None	
Stop bits	1	1,2	
PLC sta. no.	1	0-255	

Online simulator	YES	Broadcast command	YES
Extend address mode	YES		

PLC Setting:

Communication mode	Modbus RTU protocol
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Device Address:

Bit/Word	Device type	Format	Range	Memo
B	%IX	DDDDDo	0 ~ 655357	Input bit (read only)
B	%QX	DDDDDo	0 ~ 655357	Write multiple coils
B	%MX	DDDDDDDo	0 ~ 9999997	Output register bit (octal)
B	%M	DDDDD	0 ~ 65535	Output bit
B	%MW_Bit	DDDDDdd	0 ~ 6553515	Output register bit (decimal)
B	1x	DDDDD	0 ~ 65535	Input bit (read only)
B	0x_multi_coils	DDDDD	0 ~ 65535	Write multiple coils
B	3x_Bit	DDDDDdd	0 ~ 6553515	Input register bit (read only)
B	%I	DDDddd	0 ~ 255255	
B	%Q	DDDddd	0 ~ 255255	
B	%S	DDDDD	0 ~ 65535	
B	%X	DDD	0 ~ 200	
W	%MW	DDDDDD	0 ~ 999999	Output register

Bit/Word	Device type	Format	Range	Memo
DW	%MD	DDDDDD	0 ~ 999999	Output register
W	3x	DDDDD	0 ~ 65535	Input Register (read only)
DW	5x	DDDDD	0 ~ 65535	4x double word swap
DW	6x	DDDDD	0 ~ 65535	4x single word write
DW	4x_Double	DDDDD	0 ~ 65535	
DW	%IW	DDD.DDD	0 ~ 255.255	
DW	%QW	DDD.DDD	0 ~ 255.255	
DW	%SW	DDDDD	0 ~ 65535	
DW	%KW	DDDD	0 ~ 65535	
DW	%IWS	DDD.DDD	0 ~ 255.255	
DW	%QWS	DDD.DDD	0 ~ 255.255	
DW	%TM_V	DDD	0 ~ 254	
DW	%TM_P	DDD	0 ~ 254	
DW	%TM_Q	DDD	0 ~ 254	

Wiring Diagram:

Diagram 1

RS-485 2W (RJ45 Connector)

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

The following is the view from the soldering point of a connector.

