

I/O controlled by TCP modbus

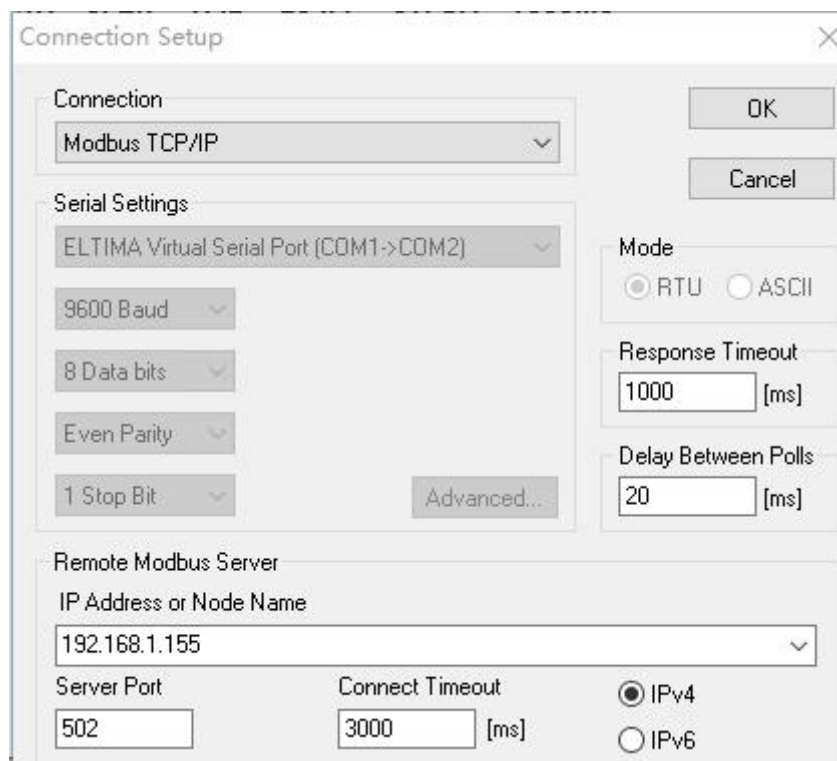
1. Overview

TCP modbus port is 502, default address is 254.

“Modbus Poll” as a test in this document. PLC or SCADA settings as below.

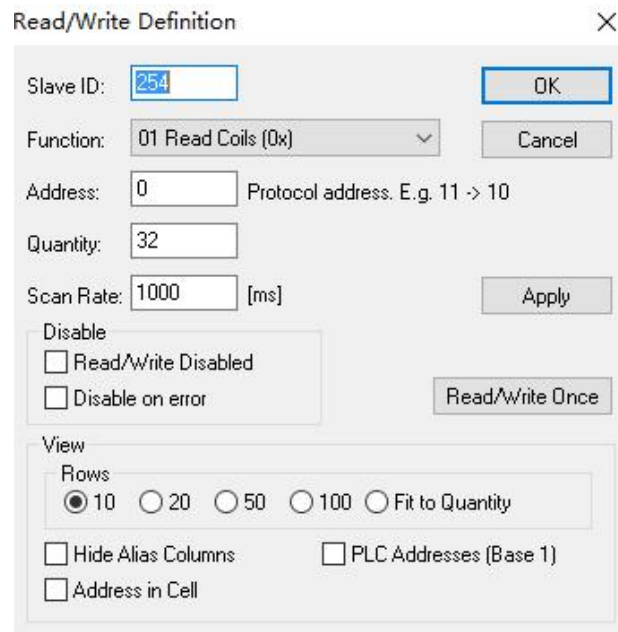
2. Steps

- (1) Power on the device.
- (2) Plug in cable, connect to the PC or PLC in a local network.
- (3) Open “Modbus Poll” software.
- (4) Select “Modbus TCP/IP” in “Connection”, write in the device IP and Server Port is 502, other is default.



- (5) Set the “Read/Write Definition” in “Setup”, “Salve ID” is

254,select '01'(Read Coil) in Fucntion,Address is 0,Qunatity is 8,other is default.Settings as below.

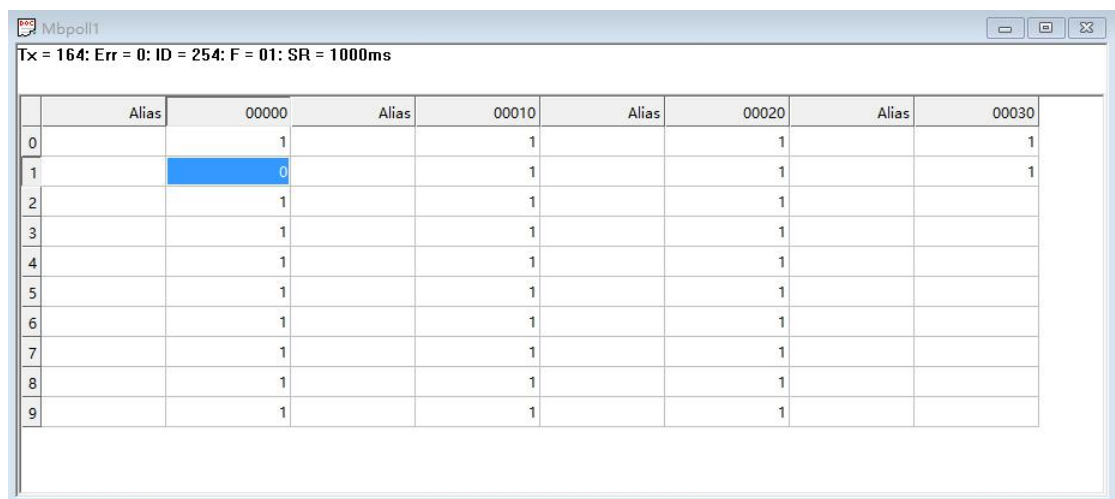


Read/Write Definition dialog box settings:

- Slave ID: 254
- Function: 01 Read Coils (0x)
- Address: 0 (Protocol address. E.g. 11 -> 10)
- Quantity: 32
- Scan Rate: 1000 [ms]
- Disable:
 - ☐ Read/Write Disabled
 - ☐ Disable on error
- Buttons: OK, Cancel, Apply, Read/Write Once
- View:
 - Rows: ☒ 10, ☐ 20, ☐ 50, ☐ 100, ☐ Fit to Quantity
 - ☐ Hide Alias Columns
 - ☐ PLC Addresses (Base 1)
 - ☐ Address in Cell

(6) Control relay output

All state of relay show in below figure.'05' fucntion command control single relay,and '15' control multiple relays.



Mbpoll1 window showing relay output data. Tx = 164: Err = 0: ID = 254: F = 01: SR = 1000ms

	Alias	00000	Alias	00010	Alias	00020	Alias	00030
0		1		1		1		1
1		0		1		1		1
2		1		1		1		
3		1		1		1		
4		1		1		1		
5		1		1		1		
6		1		1		1		
7		1		1		1		
8		1		1		1		
9		1		1		1		

Write Single Coil ✕

Slave ID: Send

Address: Cancel

Value
☐ On ☒ Off

Result
N/A

☐ Close dialog on "Response ok"

Use Function
☒ 05: Write single coil
☐ 15: Write multiple coils

15: Write Multiple Coils ✕

Slave ID: Send

Address: Cancel

Quantity: Open

Save

- ☒ Coil 0
- ☒ Coil 1
- ☒ Coil 2
- ☒ Coil 3
- ☒ Coil 4
- ☒ Coil 5
- ☒ Coil 6
- ☒ Coil 7
- ☒ Coil 8
- ☒ Coil 9
- ☒ Coil 10
- ☒ Coil 11
- ☒ Coil 12
- ☒ Coil 13