I/O controlled by Modbus RTU user manual

1. Overview

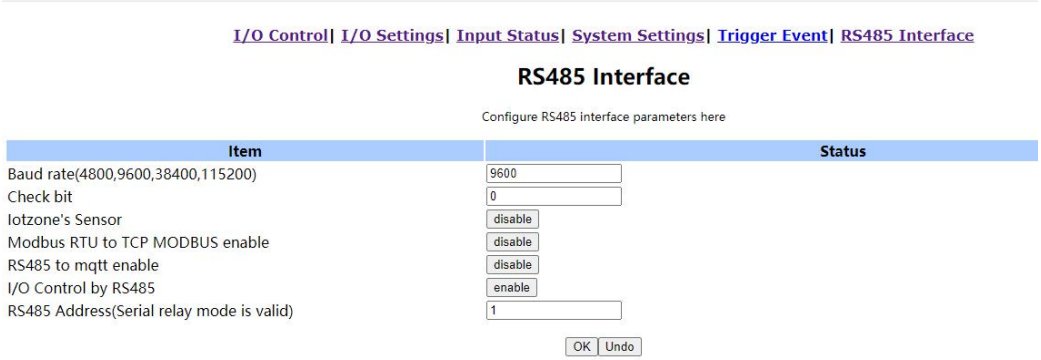
Iotzone's 8 relays module V5.8 support Modbus RTU, enable "I/O Control by RS485".Use "Modbus Poll" tool to test in this document.The device default address is 1 which can be set in "RS485 Interface" webpage.

2. Steps:

(1) Connect to the PC by a USB to RS485 tool.

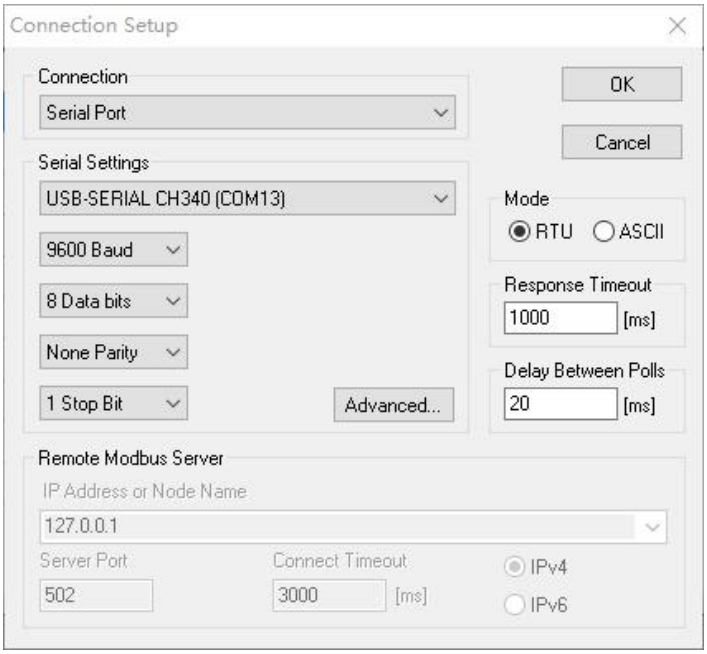
(2) Power on the device.

(3) Enable the "I/O contrl by RS485" and "RS485 Address".

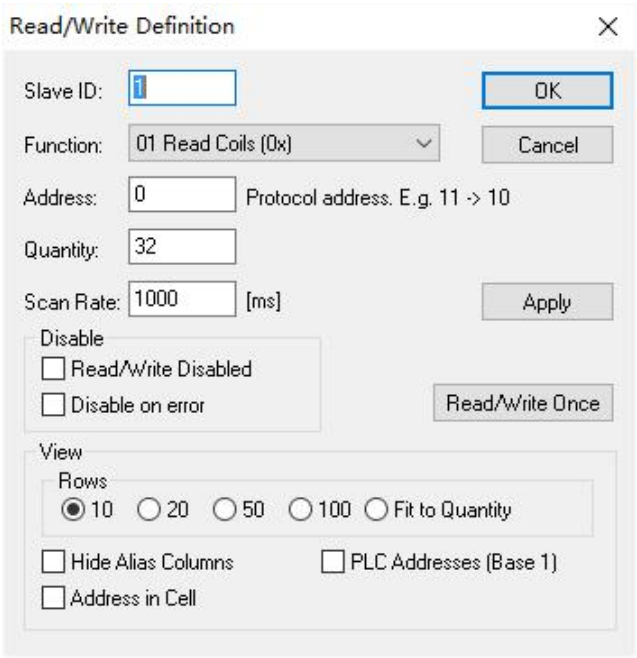


(4) Open "Modbus Poll" software

(5) Select "Serial Port" in "Connection", the COM port in "serial settings", 9600 bandrate same and none parity in the "rs485.cgi" webpage, other is default as in figure.

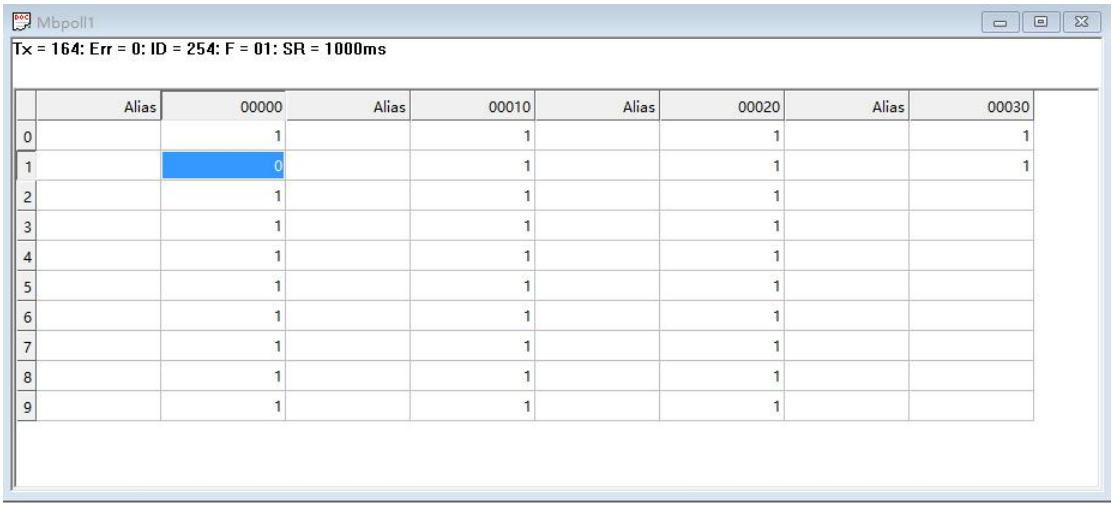


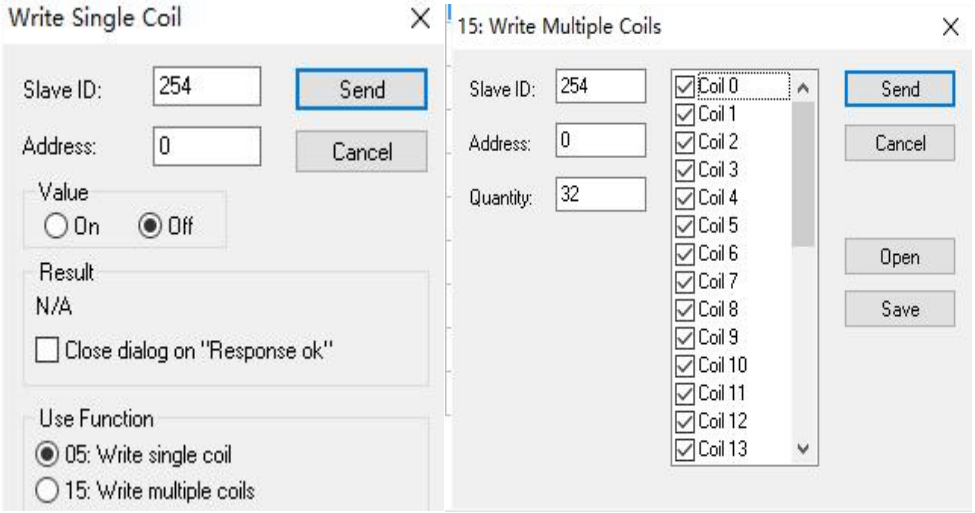
(6) Set the “Read/Write Definition” in “Setup”,Slave ID is 1,function is ‘01’ (Read Coil),Address is 0,Qunatity is 8, other is default.



(7) Control relay

The state of relay show in real time.’05’ fucntion command to control single relay,and ‘15’ fucntion command to control multiple relays on or off.


Mbpoll1
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: 254
Send
Address: 0
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: 254
Address: 0
Quantity: 32
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
Send
Cancel
Open
Save