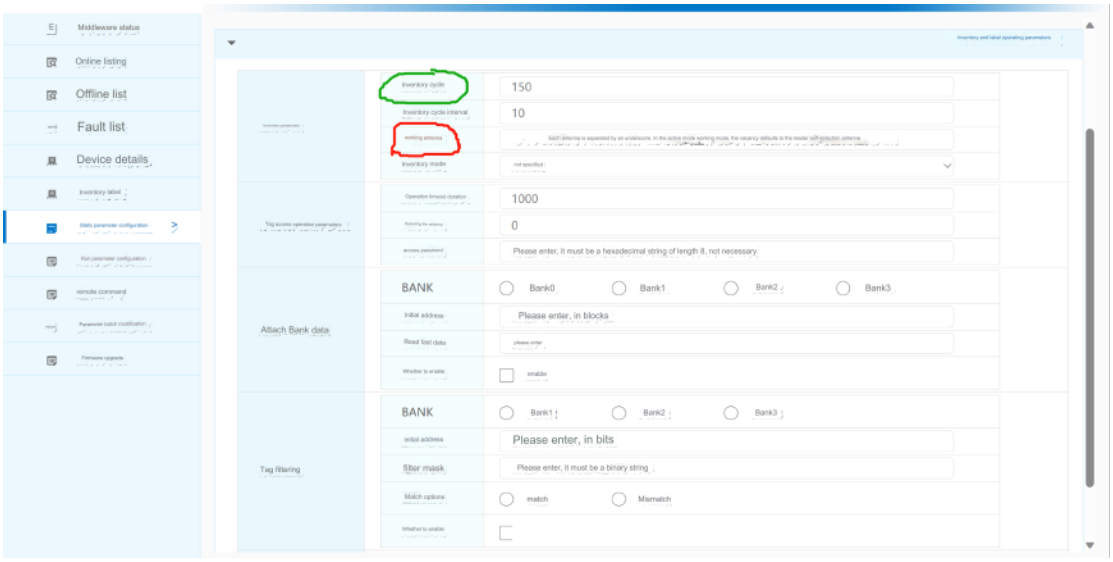
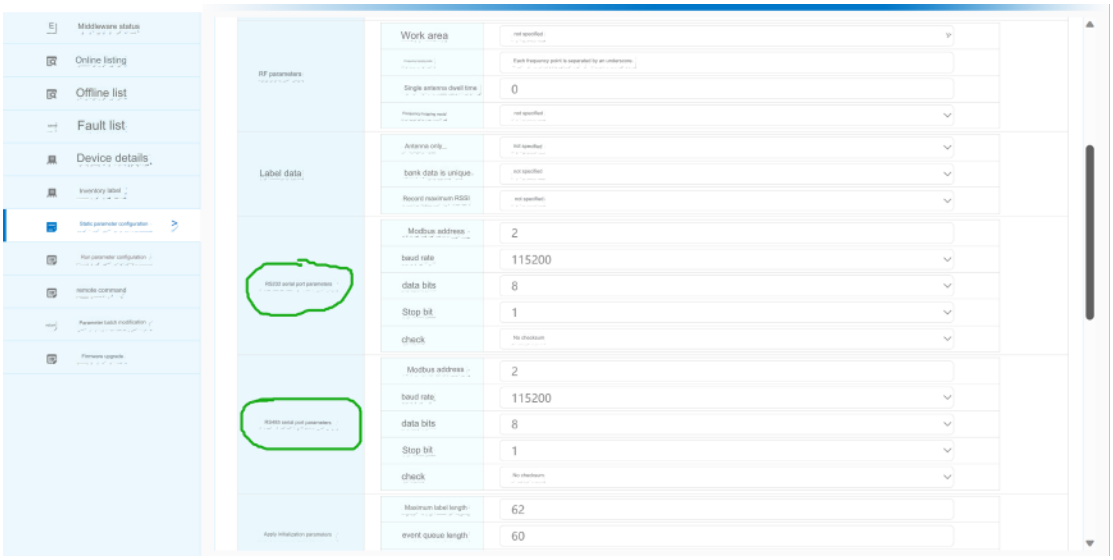




1. Parameters that must be configured in advance

Working antenna: This is a parameter that must be configured. If only a single antenna is used, directly fill in the antenna number, such as 1; if multiple antennas are used, each antenna is directly separated by an underscore, such as antennas 1, 2, and 3. Should be filled in 1_2_3

2. Optional common configuration parameters

Inventory cycle: The total duration of a reader-writer inventory is: inventory cycle x number of antennas. Example: If antennas 1 and 2 are used and the inventory period is 150ms, the total inventory time is 150x2=300ms. Please adjust according to the actual situation on site. For reading a small number of tags (within 10 tags), generally use the default value. If the number of tags is large, you can increase this parameter value appropriately.

RS232 serial port parameters and RS485 serial port parameters can be set according to the actual situation

1. Register description

The tag inventory operation accesses register address 0xB00, and the number of accessed registers is 125. The total inventory execution time can be calculated as described above. When the modbus client issues a command to access the 0xB00 address, the reader/writer will return the register value after the "total inventory time". It is recommended that the time the modbus client waits for a reply is set to: total inventory time + 1500ms. The 125 register values are exactly 250 bytes. Under the default configuration of the "Modbus simple inventory tag format option" of the reader/writer, the data format is as follows:

Total number of tags (2 bytes), antenna ID (1 byte), EPC byte length (1 byte), EPC code (EPC byte length bytes),..., antenna ID (1 byte), EPC byte length (1 byte), EPC code (EPC byte length bytes)

The blue part represents the data of a tag. If all the data representing tag information is less than 250 bytes, the remaining bytes will be all 0s.

The serial port address is 0x02, serial port Modubs/RTU example:

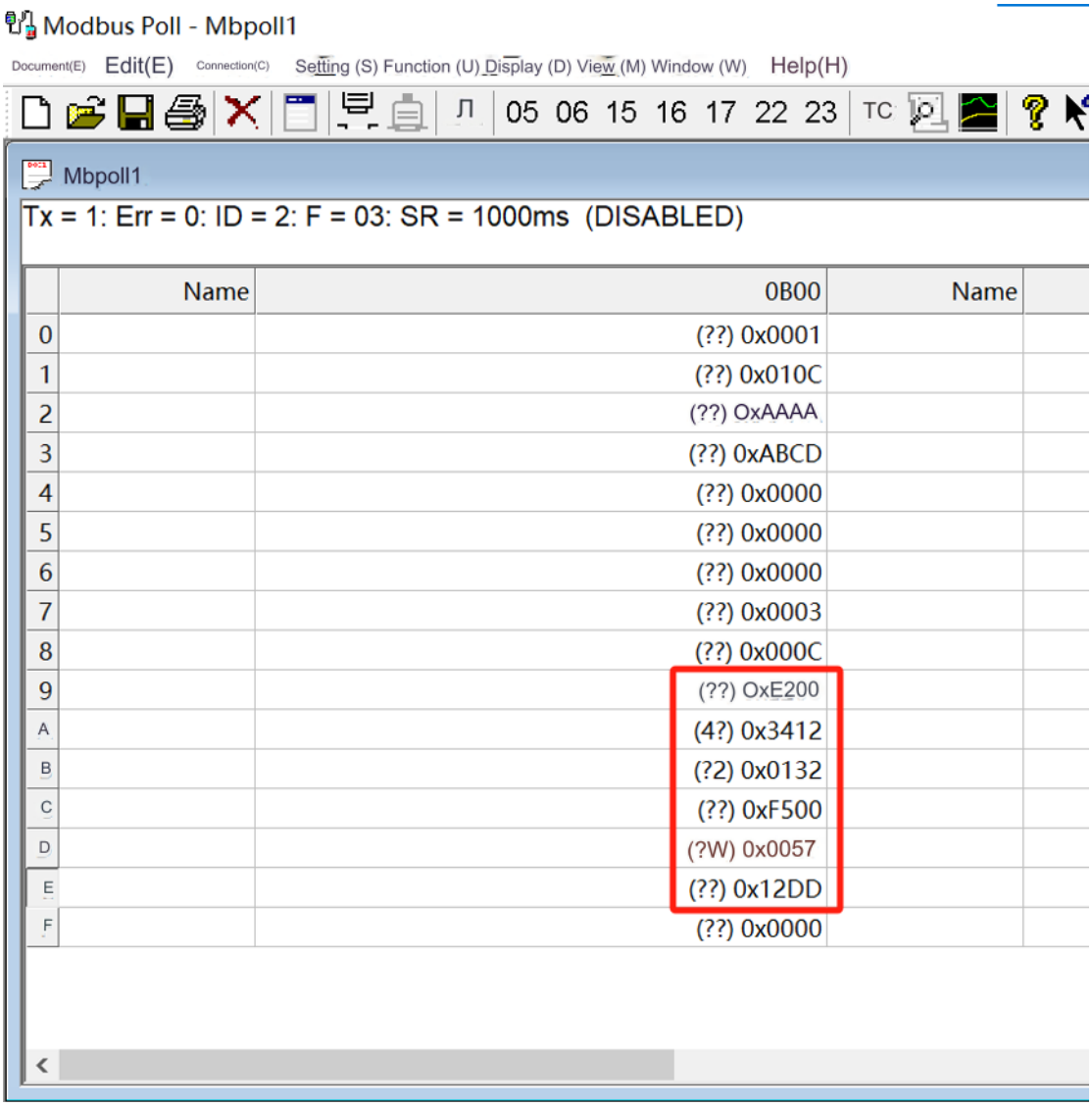
send:

02 03 0B 00 00 7D 87 FC

Receive：

02 03 FA 00 02 02 0C E2 00 41 45 31 16 00 28 20 70 3F DF 02 0C E2 00 41 45 31 16 00 68 20 70 3F 3F 00 00 00

00 00 00


Modbus Poll - Mbpoll1
Document(E) Edit(E) Connection(C) Setting (S) Function (U) Display (D) View (M) Window (W) Help(H)
05 06 15 16 17 22 23 TC
Mbpoll1
Tx = 1: Err = 0: ID = 2: F = 03: SR = 1000ms (DISABLED)
Name 0B00 Name
0 (??) 0x0001
1 (??) 0x010C
2 (??) OxAAAA
3 (??) 0xABCD
4 (??) 0x0000
5 (??) 0x0000
6 (??) 0x0000
7 (??) 0x0003
8 (??) 0x000C
9 (??) OxE200
A (4?) 0x3412
B (?2) 0x0132
C (??) 0xF500
D (?W) 0x0057
E (??) 0x12DD
F (??) 0x0000