

The image displays two screenshots of the Identium UHF Reader configuration interface. The left sidebar contains a navigation menu with options: Middleware status, Online listing, Offline list, Fault list, Device details, Inventory list, Data parameter configuration (selected), Parameter configuration, Remote command, Parameter batch modification, and Parameter upgrade.

**Top Screenshot: Inventory and label operating parameters**

| Parameter                   | Value                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inventory cycle             | 150                                                                                                                                                                                                                                                                                                                                                    |
| Inventory cycle interval    | 10                                                                                                                                                                                                                                                                                                                                                     |
| Working antenna             | 1                                                                                                                                                                                                                                                                                                                                                      |
| Inventory mode              | not specified                                                                                                                                                                                                                                                                                                                                          |
| Operation timeout (seconds) | 1000                                                                                                                                                                                                                                                                                                                                                   |
| Antenna address             | 0                                                                                                                                                                                                                                                                                                                                                      |
| Antenna password            | Please enter, it must be a hexadecimal string of length 8, not necessary.                                                                                                                                                                                                                                                                              |
| Attach Bank data            | <p>BANK: <input type="radio"/> Bank0 <input type="radio"/> Bank1 <input type="radio"/> Bank2 <input type="radio"/> Bank3</p> <p>Initial address: Please enter, in blocks</p> <p>Read last data: please enter</p> <p>Whether to enable: <input type="checkbox"/> enable</p>                                                                             |
| Tag filtering               | <p>BANK: <input type="radio"/> Bank1 <input type="radio"/> Bank2 <input type="radio"/> Bank3</p> <p>Initial address: Please enter, in bits</p> <p>Filter mask: Please enter, it must be a binary string</p> <p>Match options: <input type="radio"/> match <input type="radio"/> Mismatch</p> <p>Whether to enable: <input type="checkbox"/> enable</p> |

**Bottom Screenshot: RF parameters and Label data**

| Parameter                    | Value                                                                                                              |
|------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Work area                    | not specified                                                                                                      |
| Single antenna dwell time    | 0                                                                                                                  |
| RF parameter set             | not specified                                                                                                      |
| Antenna only                 | not specified                                                                                                      |
| Bank data is unique          | not specified                                                                                                      |
| Record maximum RSSI          | not specified                                                                                                      |
| RFID serial port parameters  | <p>Modbus address: 2</p> <p>Baud rate: 115200</p> <p>Data bits: 8</p> <p>Stop bit: 1</p> <p>Check: No checksum</p> |
| RFID serial port parameters  | <p>Modbus address: 2</p> <p>Baud rate: 115200</p> <p>Data bits: 8</p> <p>Stop bit: 1</p> <p>Check: No checksum</p> |
| Radio information parameters | <p>Maximum label length: 62</p> <p>Event queue length: 60</p>                                                      |

## 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.



[illegible]

The one marked in red is the total number of tags, the one marked in green is the antenna ID, the one marked in blue is the EPC byte length, the one marked in purple is the EPC code, and the one marked in orange is filled with all 0s

For using the modbus function through the serial port, please pay attention to setting the correct serial port 485 address. The default address of both serial ports is 2; for using the modbus function through TCP/IP, the port number is 8080.

Offline list

Fault list

Device details

Inventory label

Static parameter configuration

Run parameter configuration

remote command

Parameter distribution

Firmware upgrade

Attach Bank data

Tag filtering

Modbus simple inventory tag format options

Enable filtering

No need for filtering

BANK

Bank0 Bank1 Bank2 Bank3

Initial address

0

Filter mask

101010101010101010111001101

Match options

match mismatch

Whether to enable

enable

Antenna and EPC length

PC field

Read count and RSSI

Protocol and frequency

reserved text

Additional data Check data return items

[illegible]

Modbus Poll - Mbpoll1

Document(E) Edit(E) Connection(C) Setting(S) Function(U) Display(D) View(V) 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 | OB00        | Name |  |
| 0                                                       |      | (??) 0x0001 |      |  |
| 1                                                       |      | (??) 0x010C |      |  |
| 2                                                       |      | (??) 0xAAAA |      |  |
| 3                                                       |      | (??) 0xABCD |      |  |
| 4                                                       |      | (??) 0x0000 |      |  |
| 5                                                       |      | (??) 0x0000 |      |  |
| 6                                                       |      | (??) 0x0000 |      |  |
| 7                                                       |      | (??) 0x0003 |      |  |
| 8                                                       |      | (??) 0x000C |      |  |
| 9                                                       |      | (??) 0xE200 |      |  |
| A                                                       |      | (4?) 0x3412 |      |  |
| B                                                       |      | (?2) 0x0132 |      |  |
| C                                                       |      | (??) 0xF500 |      |  |
| D                                                       |      | (?W) 0x0057 |      |  |
| E                                                       |      | (??) 0x12DD |      |  |
| F                                                       |      | (??) 0x0000 |      |  |