ZEMIC

ZHY-K PROCESSOR
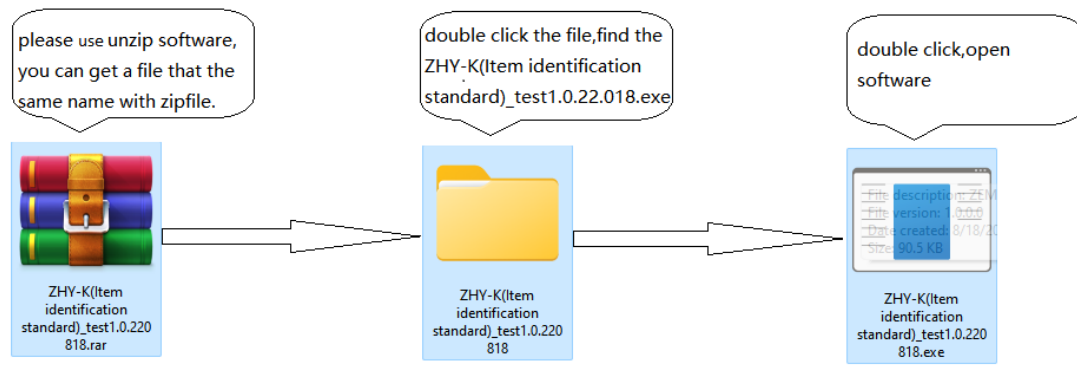
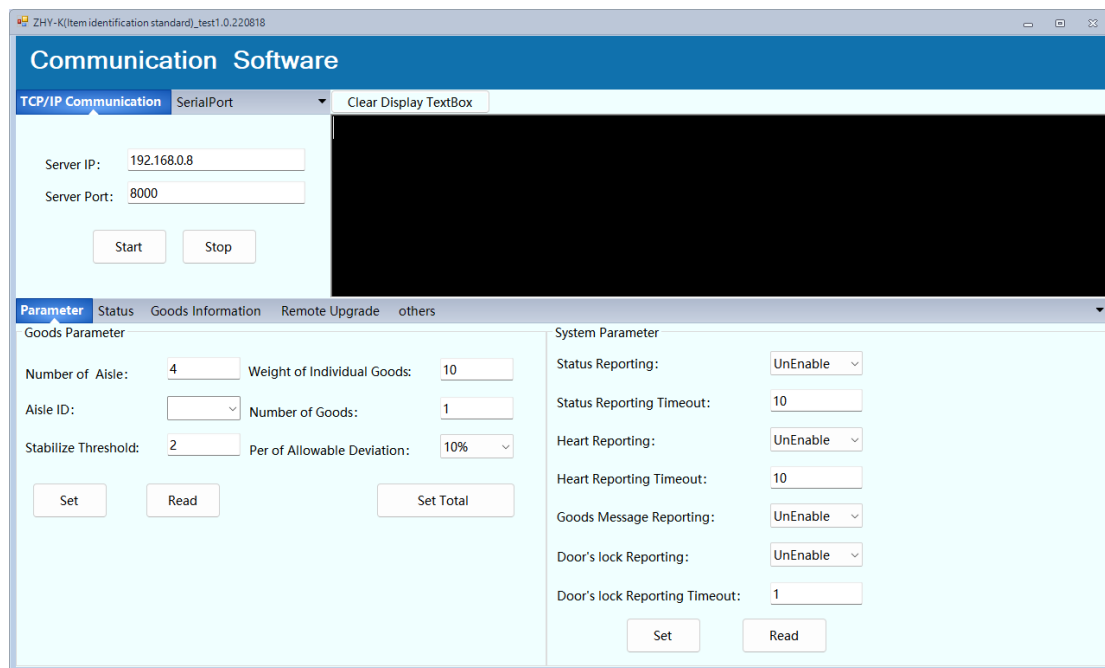## OIS Test Tool Quick Start

V1.72

Table of Contents

1.   Foreword

Run the software please according to Figure 1.1.Show in Figure 1.1.

Figure 1.1 the step of running the software

After opening the software, the software User Interface displays as shown in Figure 1.2.

Figure 1.2 the software UI

The software was developed for equipment that can receive the ZHY-K data handling, which connect up only one device that can read or set the device's information, and can help users check the device is yes or no. If you want to use the software, you should choose the right communication method and make the necessary preparations. Please read the detailed Communication Instruction as described below.

2. Communication Instruction

You can use TCP/IP or Serial Port to communicate with the ZHY-K Processor.

Choosing the different method of communication, users need to make some difference in preparation.

2.1　TCP/IP Communication

To begin TCP/IP Communication, find server IP and server port.

Find server IP address(ipv4) through computer(server) Ethernet IP configuration and use our network tool software to change it by setting 'remote IP' and click save button (Figure 2.1).

Find the server port in 'remote port' of our network tool USER-TCP232-M4 or USER -M0. Note:

1.Change computer IP or ZHY-K IP if the IP address is not in same LAN segment as ZHY-K device. The ZHY-K device default IP value is 192.168.0.8. ZHY-K IP(module static IP) can be set in our network tool USER-TCP232-M4 or USER -M0.

2.Change remote port if the port is occupied or forbidden by other application. The remote port can be set in our network tool USER-TCP232-M4 or USER -M0.
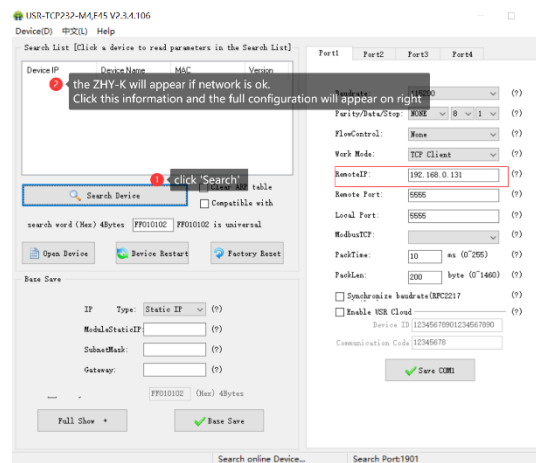

Figure 2.1 set server computer IP

Input the server IP and server port in the TextBox(Shown in Figure 2.2). If all parameters are OK and you should connect server computer to the ZHY-K device with a CAT-5E network cable. The detailed information is shown in Figures 2.1 & 2.2.
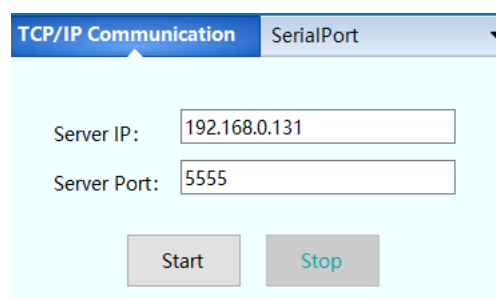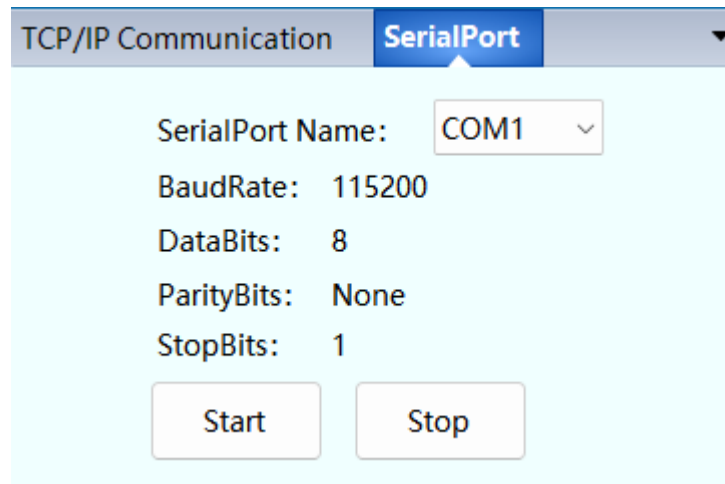

Figure 2.2 Input TCP/IP Information

2.2   Serial Port Communication

If users choose SerialPort Communication, they need to choose Serial Port Name (i.e. COM1, COM2, etc.) form the ComboBox. Shown in Figure 2.3.

Figure 2.3 Choose SerialPort Named

3.   Display Information

During the use of software, a message window is shown as in Figure 3.1. It will display result information to remind users that operation is successful or failed. While the window is open, you can click the Button 'Clear Display TextBox' to clear the message(s) in this window.
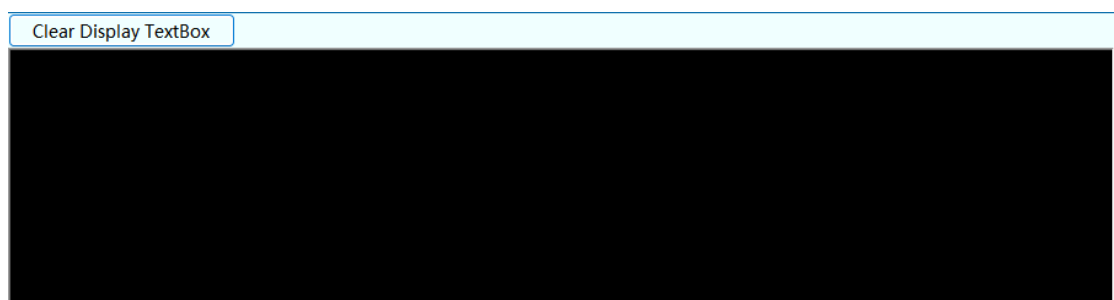

Figure 3.1 Display Information Area

4. Function Model Instruction

The main functions of the software are divided into five parts: Parameter, Status, Good Information, Remote Upgrade, Others. See Figure 4.1 below.

Figure 4.1 The main function area

4.1 Goods Parameter

Goods Parameter as shown in Figure 4.2, here user can set single aisle parameters or total aisle parameters, and read the total parameters.

Figure 4.2 Goods Parameter UI

Before set Goods Parameter, user need read Goods Parameter. If user clicked the Button of Read, the software can send and received the message according to the communicating protocol.

Table 4.1 The Button of Read send detail message

Start	ID	Length	Command Type	Command Code	Data		CS	Over
0x02	0x00	0x04 0x00	Q	P	0x03	0x00	CS	0x03

Table 4.2 The Button of Read received detail message

Start	ID	Length	Comman	Command	Data	CS	Over

			d Type	Code				
0x02	0x81	0xLL 0xHH	Q	P	0x03	Table 4.3	CS	0x03

Table 4.3 The detail Data

Number	Name	Data Type	Instruction
1	Number of Aisle	byte	≤32;default 4
2	Aisle ID	byte	
3	Weight of Individual Goods	ushort	≥10;default 10
4	Number of Goods	ushort	
5	Per of allowable Deviation	byte	0~5:3%,5%,10%,20%,30%,50%; default 2 (10%)
6	Stabilize Threshold	byte	≥2;default 2

The parameter introductions:

1) Number of Aisle: the number of aisle displayed in multiple aisle parameter setting mode. Keep it '0' in single aisle parameter mode.

2) Aisle ID: the aisle number to be set. The value is less than the location number;

3) Weight of Individual Goods: the unit weight of the goods to be placed in the location. The value is ≥ 10. The unit for this value is 1 gram.

4) Number of Goods: this value is generally filled in as 0 during parameter setting;

5) Per of allowable Deviation: the code range is as shown in Table 4.3. It represents the allowable deviation range of single weight of goods when calculating the quantity of goods. For example, if the single weight is 500g and the code 2, which means allowable deviation percentage is 10%, 500 ± (500 * 10%) will be calculated as a goods when calculating the quantity of goods;

6) Stabilize Threshold: this parameter indicates that the quantity of goods will be calculated when the change of cargo space weight is less than this value. The unit for this value is 1 gram.

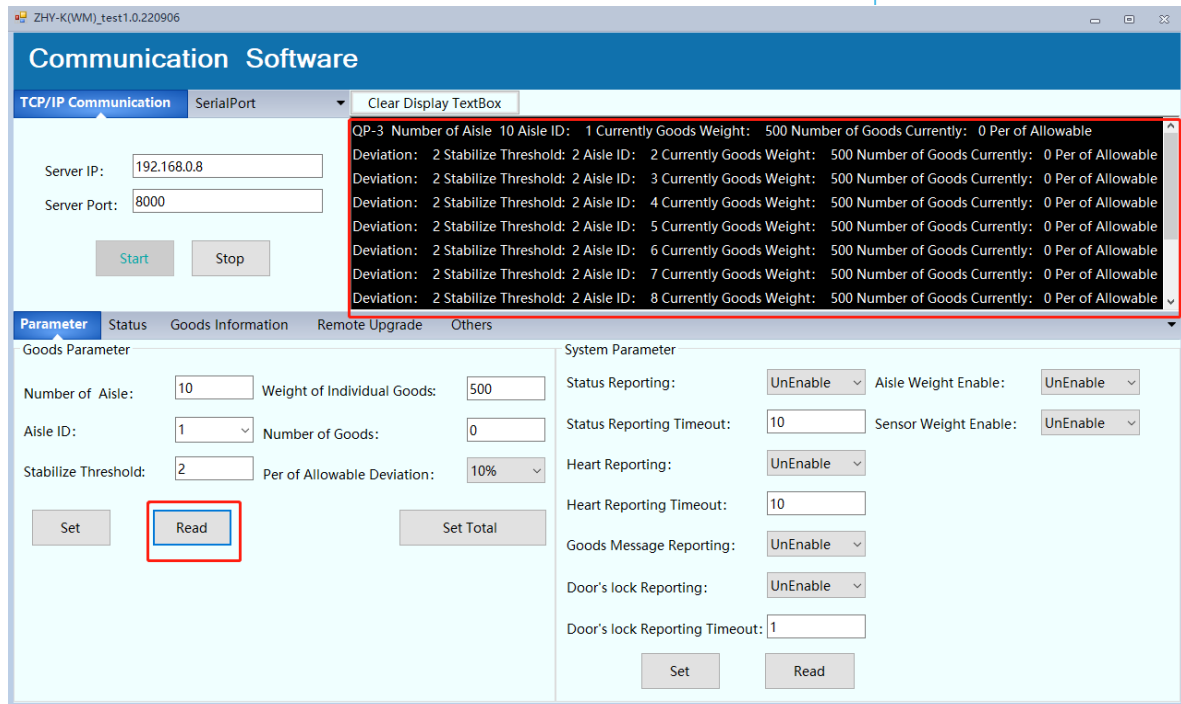**A) To read the goods information, click 'Read' button as shown in Figure 4.3**.

Figure 4.3 Read Button message

B) To set single aisle goods parameters, input all parameters value mentioned in the table below and click Set button as shown in Figure 4.4.

Goods Parameters input value list

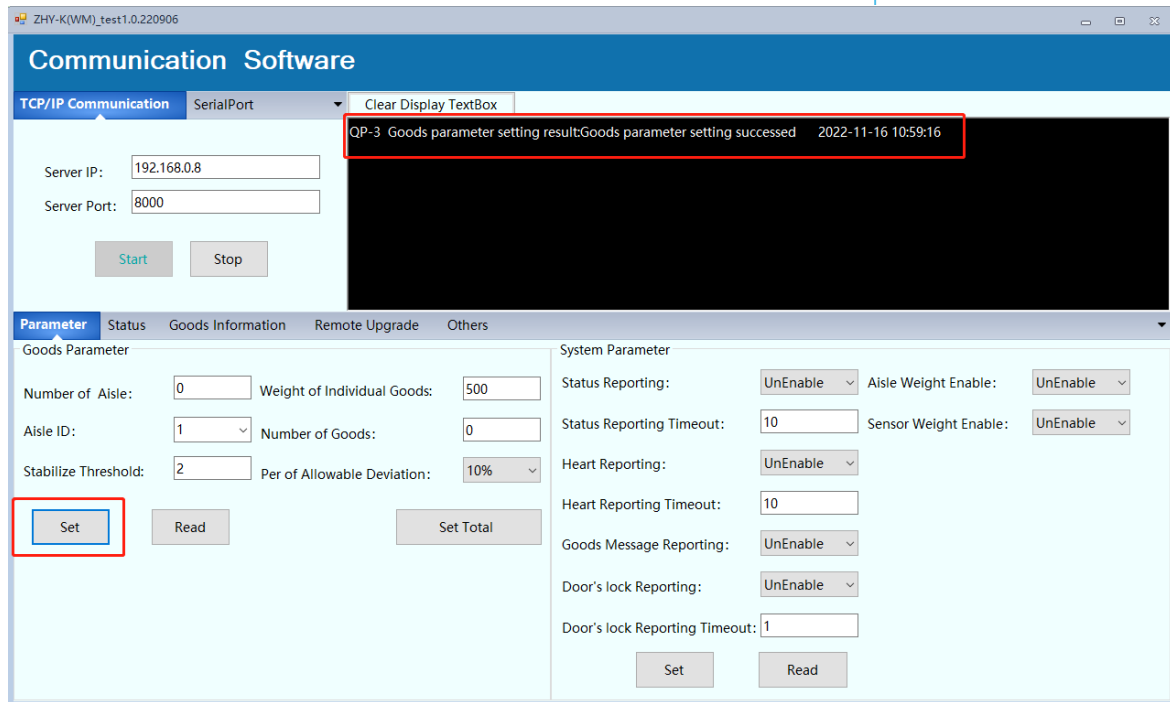| Parameters item	Input Range	Error Message
Number of aisle	0 *Other value than above will cause an error message*	The number of freight lanes is wrong!
Aisle ID	Choose aisle ID from option list.	
Stabilize Threshold	Number ≥2 *Other value than above will cause error message*	The judgment threshold is wrong!
Weight of individual Goods	Number ≥10 *Other value than above will cause error message*	The weight of the cargo is wrong!
Number of Goods	The actual number of goods on aisle	
Per of Allowable Deviation	Choose percentage from option list	

Figure 4.4 Set single aisle UI

C) To set multiple aisle goods parameters, click the 'Set Total' button to open the window of multiple aisle Cargo Parameter and input the parameter that you need. Then click 'Set' in Configuration Multiple Goods Parameters as shown in Figure 4.5. The result will be shown in the message display window as in Figure 4.6.
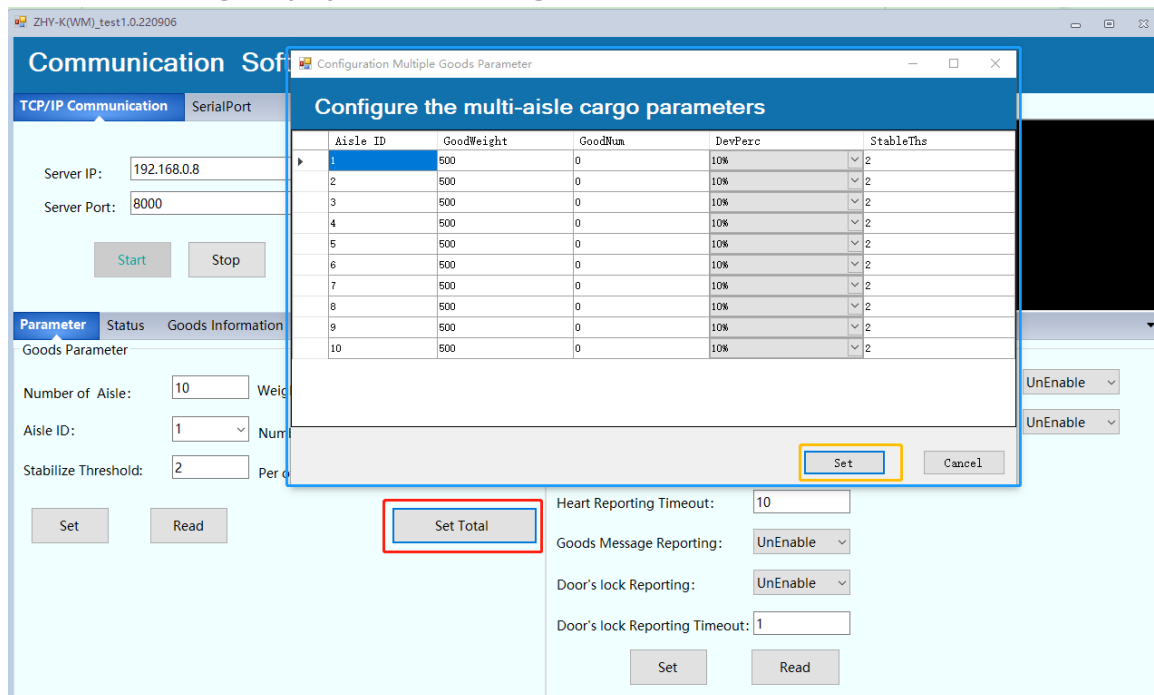

Figure 4.5 Set multiple aisle UI

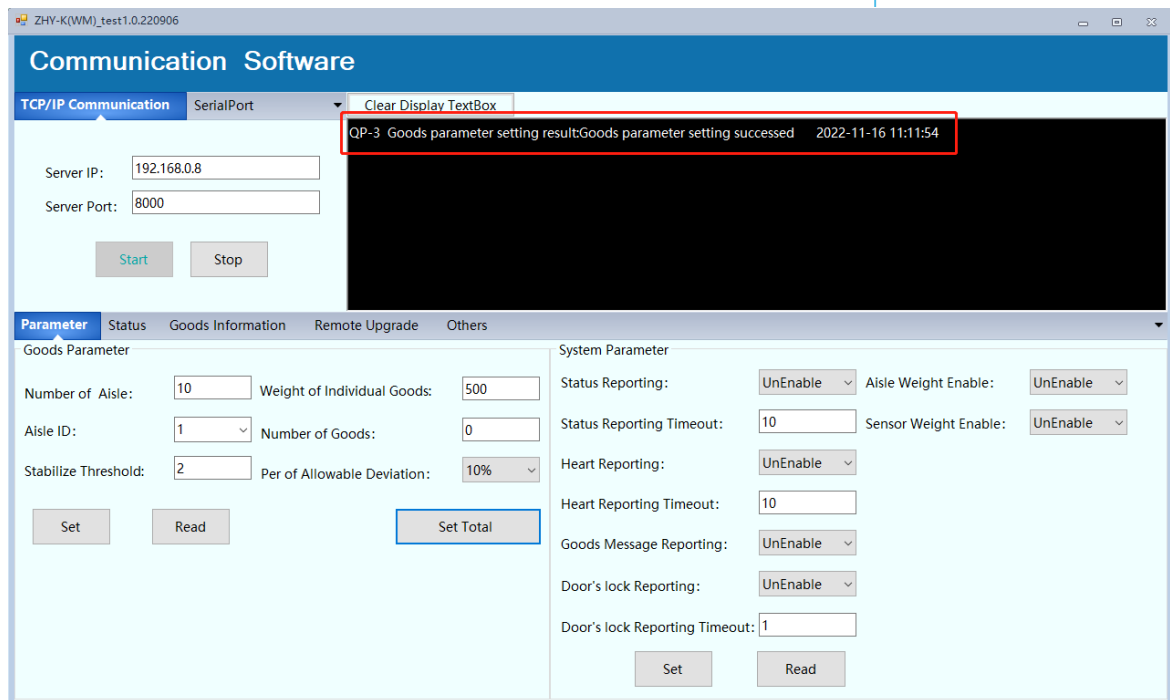If the set is successful, the result will be shown in 'Display Textbox' window as Figure 4.6.

Figure 4.6 Set multiple aisle received message UI

4.2　Unit Status

If you want to know the unit status, please click the 'Read' Button. Shown in Figure 4.7.

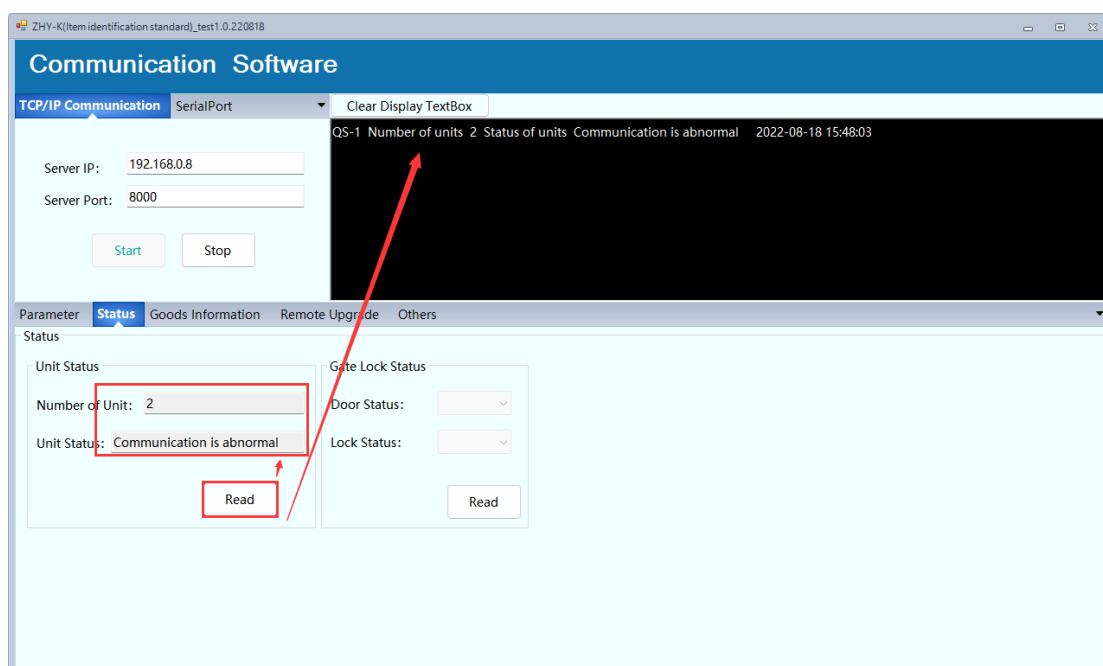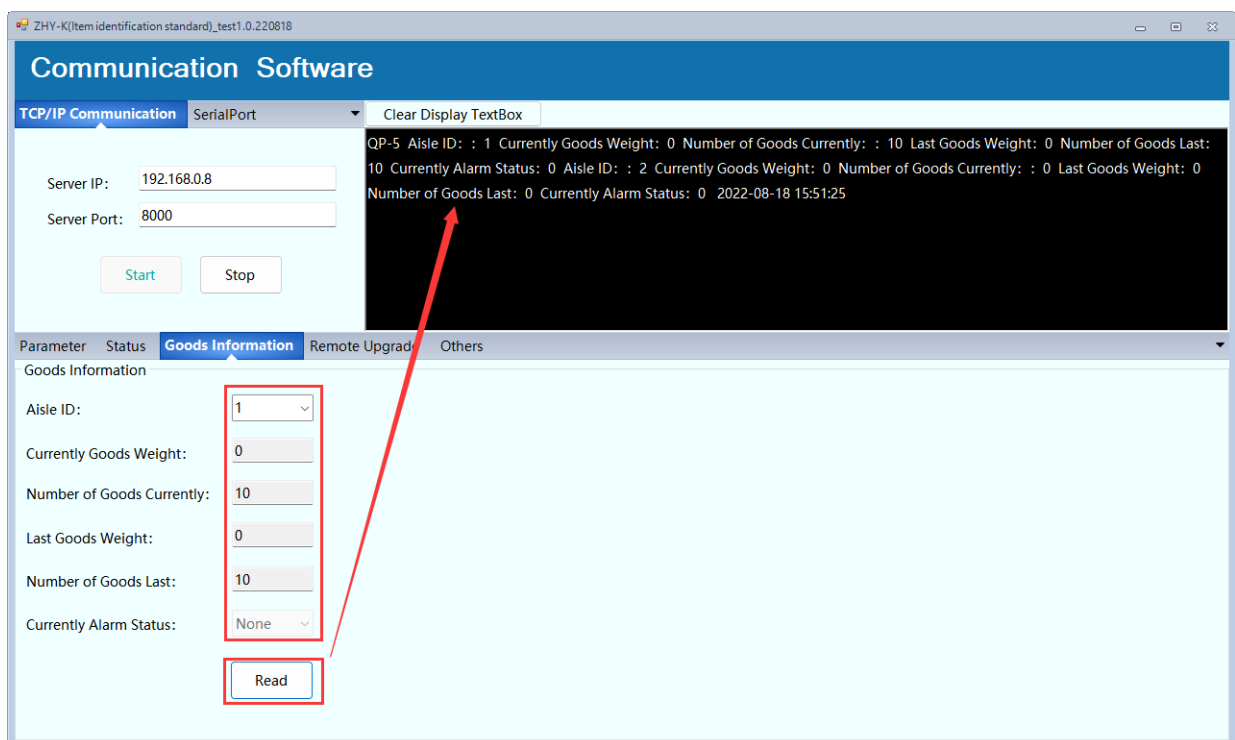| No.	Parameter items	Explanation
1	Number of Unit	The number of units connected with processor
2	Uint Status	Communication Status of each unit.

Figure 4.7 Read Unit Status

4.3 Goods Information

Goods information is used for reading aisle ID, current goods weight and number on this aisle, goods weight and number from last time and warning status. See details in below table.

Introduction of Goods Information Parameter items

No.	Parameter items	Explanation
1	Aisle ID	The ID of the aisle you want to read
2	Currently Goods Weight	The current goods weight on the aisle
3	Number of Goods Currently	The current goods number on the aisle
4	Last Goods Weight	The goods weight on the aisle before last storing
5	Number of Goods Last	The goods number on the aisle before last storing
6	Currently Alarm Status	Warning status of current aisle

If you want to know the Goods Information, Select the Aisle ID first and please click 'Read' Button.   As   shown   in   Figure   4.8.

Figure 4.8 Read Goods Information

4.4 Others

4.4.1 Change Weighing Platform Type

This is for platform type recording. The weighing platform type include two parameters: aisle number and aisle sensor number. Aisle Sensor number is the number of sensors each aisle contains.

To set weighing platform type, click the 'Set Total' Button and before setting, you must fill in Number of Aisle and Number of Unit. Shown in Figure 4.9.
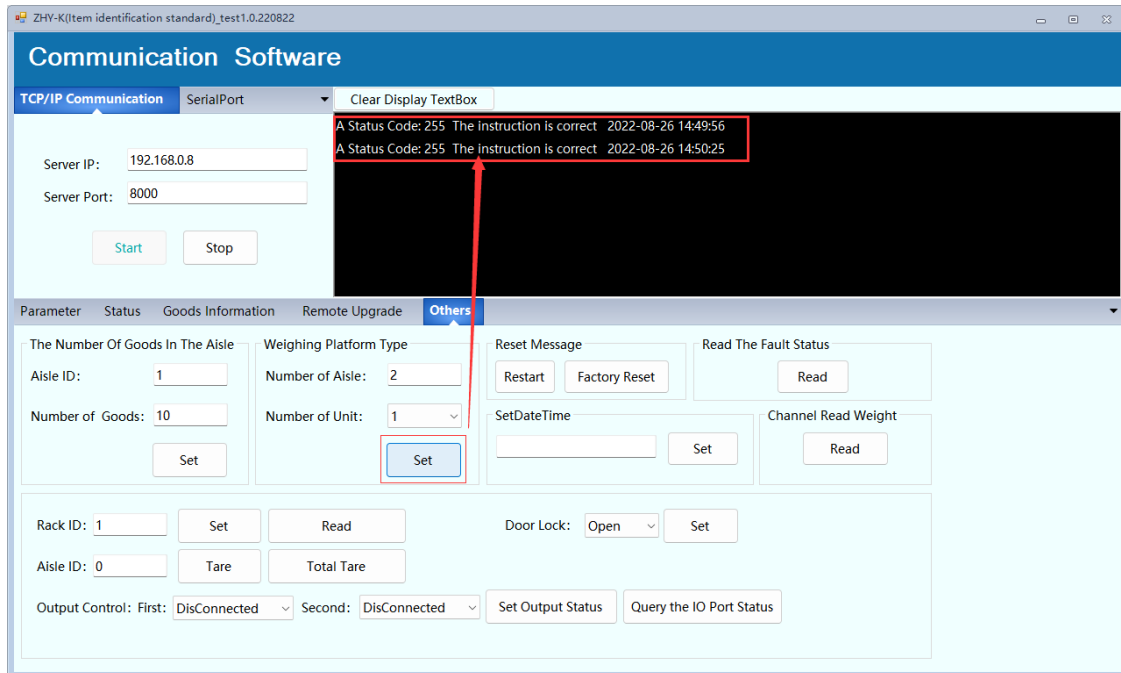

Figure 4.9 Set Weighing Platform Type

4.4.2 Tare for Aisle ID

To tare for single aisle scale, fill number in Aisle ID textbox and click net Weight Button as shown in Figure 4.11. To tare for every aisle, input 0 in textbox and click 'Total Tare' Button as shown in Figure 4.10.
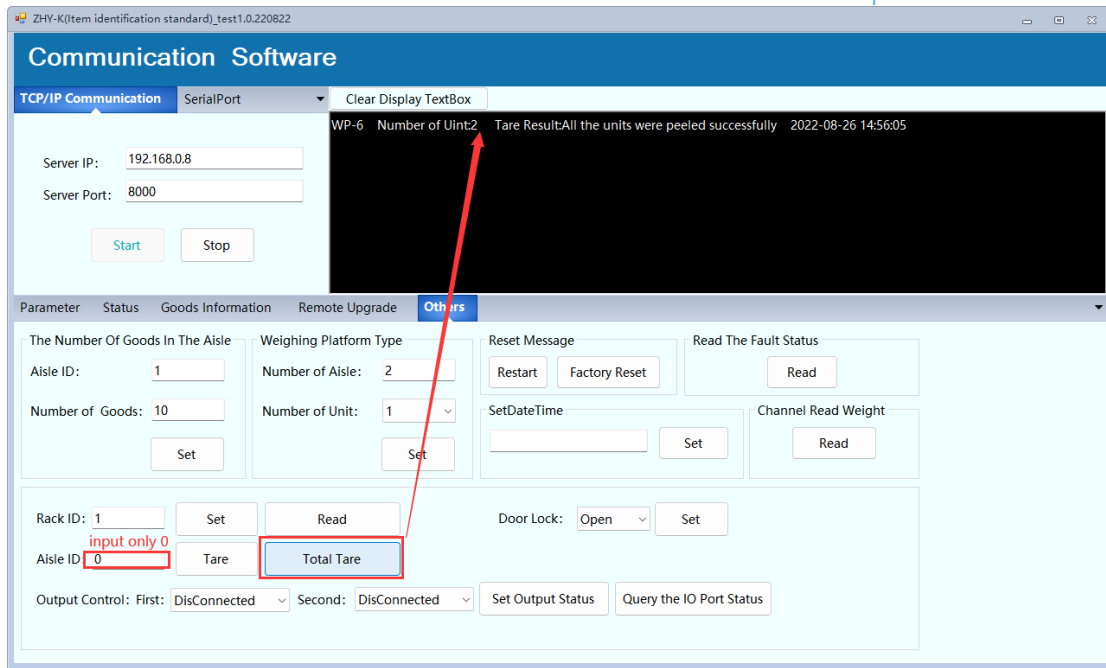
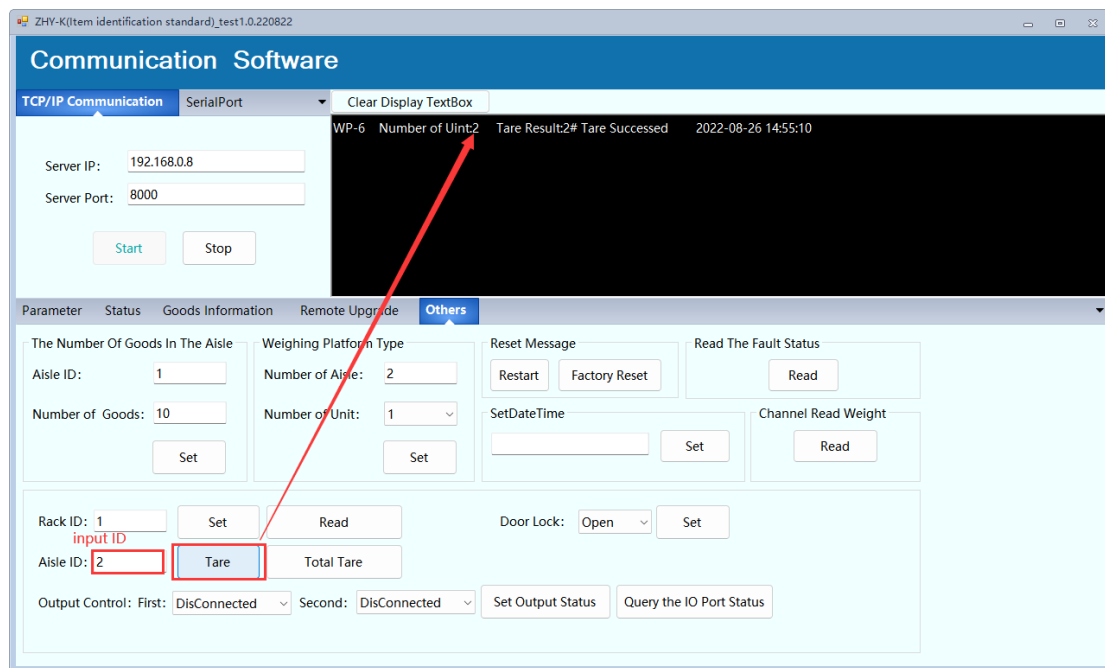**Figure 4.10 Total Net Weight received message UI**

Figure 4.11 Single Net Weight received message UI

Note: The aisle ID can't be bigger than total aisle number. If the aisle ID is bigger than total aisle number, the error message will show in Display TextBox, as pictured below.
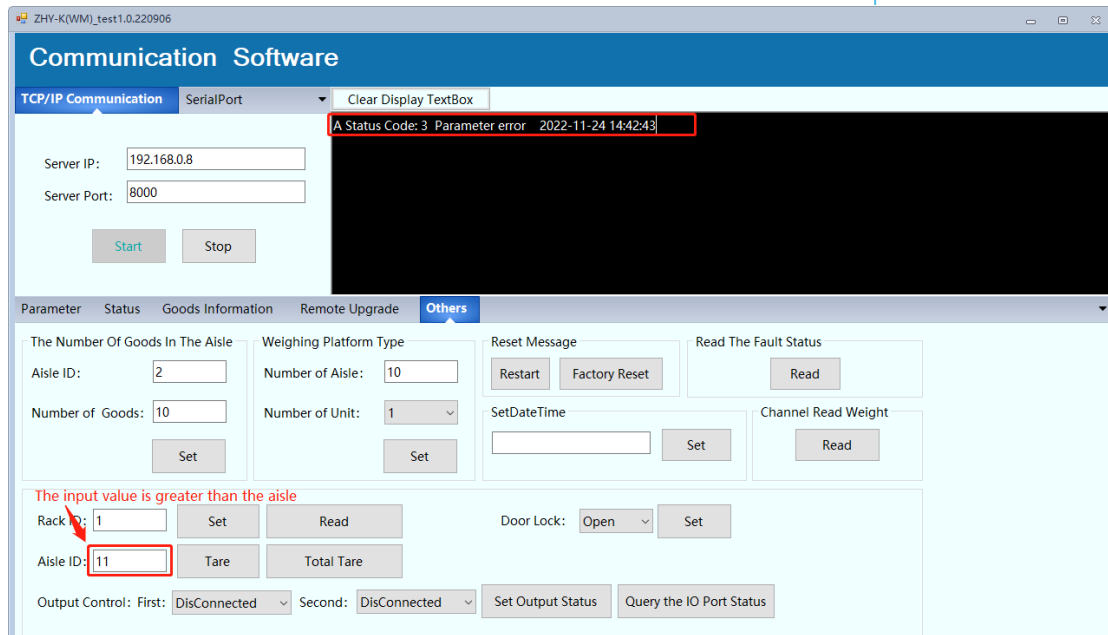
Figure 4.12 Failure message

4.4.3 Channel Read Weight

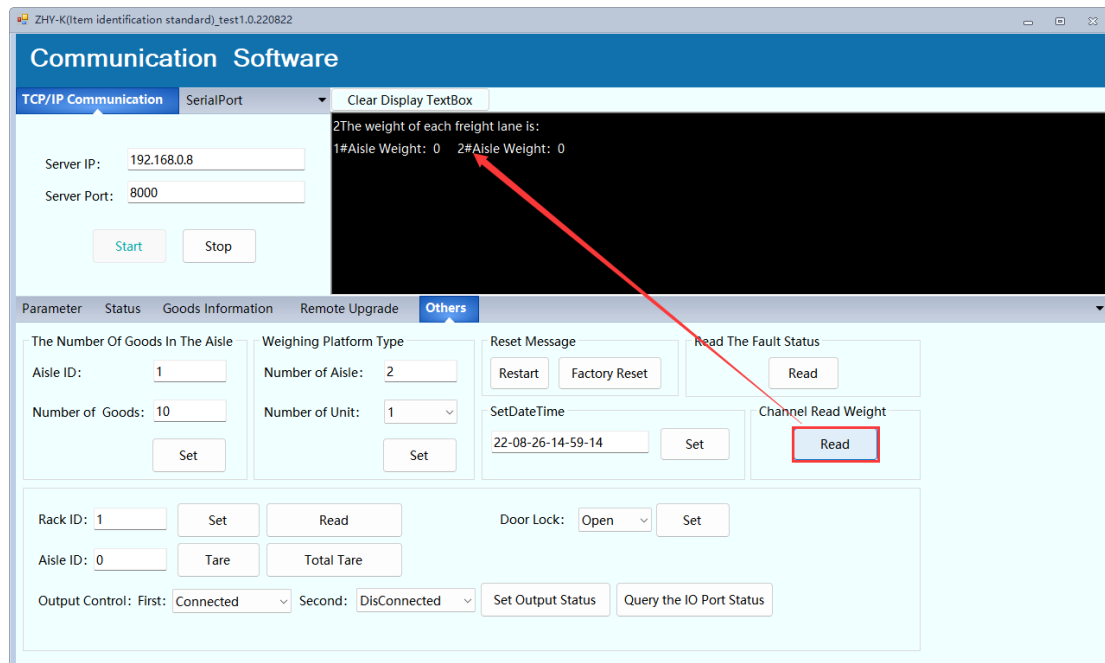If you want to know the Read Weight of each aisle, click the 'Read' Button. Shown in Figure 4.13.

Figure 4.13 Channel Read Weight