# Eagle

# Electronic Cash Register User Manual

# Preface

Thank you for use the product. Before you start to use this product, please be sure you have read the content in the ***Preface*** and follow these guidelines.

## 1.1 Notice

➢ Make sure the electric plugs and wires are all properly connected, and use the 3-cell electric wire only. If an extension-board is used, the outlet of the extension-board is also 3-cell. Make sure the earth wire is properly connected to the earth in order to prevent the leakage of electricity.

➢ Don't touch the electric plug with wet hand, in case of electric shock.

➢ Don't get the product rained or washed by water; If there is some water on the product by inadvertence, please wipe it clean with a dry cloth; If the ECR doesn't work normally, please send the ECR to our distributor as soon as possible. We shall do our best to service you.

➢ Don't put the device in the places which are ultimately cold, hot or wet. These working conditions may make the product not work normally or damage the product.

➢ Don't use organic chemistry solutions to wipe the surface and the panel of the product.

➢ Don't try to take the device apart and repair the device by non-professonal staff.

➢ Cut the connection between the device and AC electricity when taking the device apart under the guidance of professional staff from our company.

➢ Don't try to disassembly the switch power inside of the ECR. Because it takes a long time to discharge the high voltage capacitance, and it's very dangerous to disassembly the switch power when the high voltage capacitance is not fully discharged.

➢ **Strongly recommend users to use thermal paper sold by our company. The device can have a longer life if working with thermal paper sold by our company because we have done a lot of experiments and optimizations on the our thermal paper. On contrary, the life span of the printer may get shortened if the printer works with the thermal paper which is likely to deposit or leave carbon deposits.**

➢ **Thermal header is a precise instrument. Don't touch it with fingers or sharp goods. Always use the accessary cleaning tools to keep the header clean.**

## 1.2 Guide to Read

➢ Please go to page 9 *Fast Prog* and learn the method to install paper and notices for users.

➢ Please read page 2 *General Functions, Configuration and Using Index* carefully first in order to know about the performance of the device.

➢ Please read page 7    carefully first , and learn frequently used programme operations of the device.

➢ For ordinary users, please first read page 15, the two chapters *Transfer and Lock of PLU* (page 15) and *Manual Goods Sale* (page 16) in the *Sale Operations*, and learn general sale operations of the device.

➢ For ordinary users, read page 53 *Account Operations*, get to know how to print the report forms and delete

the records. And read *Inquiry of Sale Records and Markers of Returns of Goods* in page 20 to learn how to look over the recent sale records.

➢ For advanced users, read the rest of *Sale Operations*, and learn auto mode and other functions.

➢ For professional users, such as managers in big supermarket, should continue reading the rest of the instruction.

➢ **When error warning shows up, check *Reference Table For Errors and Its Instructions* in page 62.**

## **1.3** Abbreviations and Glossary

➢ PLU: Price of LookUp. It's a cell which contains the information of goods

➢ Weight PLU, Count PLU: By-weight PLU, By-Count PLU.

➢ Dept., Class: Dept. is short for department, is the largest category in sales statistics. Class is the second largest category in sales statistics.

➢ U.Price, T.Price: Unit Price and Total Price.

➢ Single T.Price, Sum T.Price: Single T. Price means the price of certain goods, while Sum T. Price means the price of total trade.

➢ Prog, F-Prog: Name of keys, Short for programme and Fast Programme.

➢ T-Sale: Temporarily Sale. Trade goods is not an exist PLU. Sell them by input a manual price. And the scale will think the goods as PLU 1 (Weight), or 2 (Count).

➢ Spec: Specification. It is made up of many number parameters, which determines the operation flow and working state.

➢ Amount: The quantity of the goods, weight or count. It means weight (kg, lb) for weight PLU and count (pcs) for count PLU

# Menu

# Examples Menu

# 1   Components of Electronic Cash Register

## 1.1 Check Accessories

➢ One Electronic Cash Register;

➢ One copy *User Manual* (this book);

➢ One CD for PC software *Data Management Software*

➢ One power plug;

## 1.2 Keyboard

### 1.2.1 The Original Overlay of the Keyboard
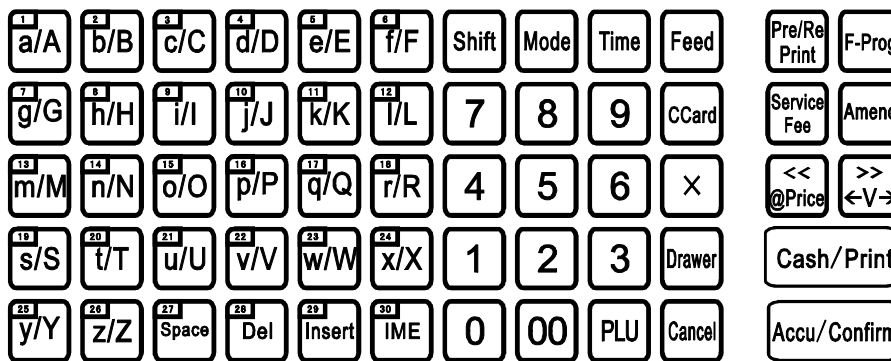


Picture 1-1  Sketch Map of Keyboard Function for ECR

The graph above shows the original definitions. Some buttons on the left top area are marked with numbers, which are serial number for the shortcut keys. In this text, 【SCxx】 is used to represent shortcut keys. For example, 【SC1】 represents the first key on the left top marked with number 1. 【SCxx】on the left side are PLU preset shortcut keys and can be set to represent one certain key if user requests. When editing the text, 【SCxx】 are function keys and character keys for the input of letters. Please refer to chapter Table 0-0  . 【SCxx】 on the right side are preset shortcut keys for additional functions . The presetting is shown in the graph. And it's not available for user to change the setting of function keys now.

### 1.2.2 Instructions for Keys

When you press right keys, the ECR would beep shortly to show the operation is right.

When you press wrong keys, the device will beep in 1 long sound and 2 short sounds. The composite beeps mean the failure in operation process or errors in pressing keys. If operaton process fails, there will be Ex.xx displayed on the screen (e.g., E1.01 means programme data is invalid.).

It may take 4 seconds to press one key in the operation which needs to **Long Press** the key without releasing it. During the period you will hear 2 beeps. The first beep sounds as soon as you press the key while the other one sounds 4 seconds after pressing the key.

In some 【F-Prog】+【Other key】 operations, users should first press 【F-Prog】 without releasing and press

the 【Other key】 in order to complete the operation.

In the following instruction: 【Key1】【Key2】 means the operation that press 【Key 1】 first and release it, then perss 【Key 2】 and release it. 【Key1】 + 【Key2】 means the operation that press 【Key1】 and 【Key2】 at the same time. When users do it , press 【Key1】 first, and press 【Key2】 without releasing 【Key1】.

### 1.2.3 Instruments for Keys in Function Area

Picture 1-1 shows the default setting of keys in the function area. According to customer's requests, default setting may be different. And the specific setting will be on the overlay:

➢ 【Mode】: Swith operation mode at Sale, Prog and Account.

➢ 【Time】: Display current time and return to the previous interface when you press it again.

➢ 【Shift】: Shife key used for extending PLU shortcut key, and switching case sensitivity in text input interface. When current input number is decimal (tare, weight, U.Price, T.Price) , long press 【Shift】 or press 【F-Prog】 + 【Shift】 would change the position of decimal point.

➢ 【Pre/Re Print】: Can print out the cargo list already accumulated before settle accounts. Re-print: Repeat last print in current buffer (Pre/Re Print data would not be stored in deal records as sale record.). This function can be forbidden in Spec.

➢ 【Feed】: Roll the gap thermal paper and plain thermal paper. Unprinted buffer data will be cleared in the process of feed.

➢ 【-@】【@Price】:: Discount to a fixed price. $P_{Dis} = Input$ . Input is also decimal. You can also use this key to save the discounted price to PLU directly, please refer to Spec083

➢ 【Drawer】: Open drawer besides normal operations.

➢ 【CCard】: Obligate function

➢ 【F-Prog】: Change some setting or values of PLU fastly in sale mode. It is always used for combination of keys, which is similar as 'Alt' 'Ctrl' in PC keyboard. Please refer to process instructions to understand the use of combination keys.

➢ 【×】: Input count amount in count sale. Or do temporary count goods sale according to input U.Price.

➢ 【Service Fee】: Service fee includes total service fee and item service fee. Item service fee is forbidden as factory default, open it at Spec300 if user needs it.

- 【←V→】 : Used to swith different sale buffer (Table Number), or change serviceman information.

- 【Amend】 : Amend deal data in sale interface and store amended data in programme interface.

- 【←】【→】 : Switch among neighbouring steps and numbers in programme and account interfaces.

- 【V1】 ~ 【V4】 : Activate corresponding sale buffers.

- 【0】 ~ 【9】,【00】 : Input corresponding numbers.

- 【PLU】 : Transfer PLU datas using input numbers as serial numbers.

- 【Cash/Print】 : Check out in cash; calculate changes and print labels or receipts according to setting.

- 【Cancel】 : Clear data, cancel operations or go back to previous step.

- 【Accu/Confirm】: Save accumulative deal data into activated sale buffer and other confirmation operations.

**1.2.4** Character Input Instructions

The key of function section remains the same when system enters letters input interface, while 【SC1】 ~

【SC63】 are used to input letters. In input process, definitions of keyboard are shown below:

- 【Amend】 : Confirm text input. Save and exit.

- 【Cancel】 : Cancel edited data and quit without saving.

- 【Confirm】 : Confirm the input in special IME (not used in pure English version).

- 【End】 : Input end character, and all characters after appointed position are deleted.

- 【Delete】 : Delete the character at the position where cursor is.

- 【Insert】 : Switch cover mode with insert mode. Cover mode is activated when cursor is constant on while insert mode is activated when cursor is glittering.

- 【IME】 : Input method editor. Switch the input languages: En-1 (in small letters), En-2 (in big letters), Chs (chinese code), Code (machine code).

- 【Shift】 : Switch En-1, En-2 in temporary state.

- 【←】【→】 : Move current editing position backwards or forwards.

- 【0】 ~ 【9】 and 【SC1】 ~ 【SC59】 : Input characters or codes.

Switch 4 kinds of input languages by pressing switch keys. Input mode of each kind of input language is shown below:

➢ En-1 **small letter**: Input numbers or ASCII characters. For the keys with '/', input character is the one on the left of '/'. Pressing 【Shift】, next input character and only this one is under the rule of En-2 .

➢ En-2 **capital letter**: Input numbers or ASCII characters. For the keys with '/', input character is the one on the right of '/'. Pressing 【Shift】, next input character and only this one is under the rule of En-1 .

➢ UTF8 (U version IME, for UTF8 font scale use only): UTF-8 input method, input Unicode to get the characters, input different kinds of non-English language characters, please check code from *UTF8 Test Editor Manual*, after input Unicode, press 【Confirm】 to finish the input

➢ PY **Chinese Pinyin Mode**(E version IME, font scale use only): **Input pinyin, and select chinese character by 【←】【→】** , Press 【Confirm】 to input a Chinese character. In pinyin mode, Press 【Space】 to select SBC case symbol, Press 【Space】 twice to select English symbol.

➢ Chs **Chinese ISN mode**(E version IME, font scale use only): Input ISN code to select a Chinese character or SBC case symbol.

➢ Code: Input machine code mode. Users can input ASCII, symbols in special IMEs. The system could automatically distinguish the input content as ASCII, symbols in special IMEs. Machine codes of each field can be found in following table.

Table 1-1  ASCII Code Table

|   | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | Non-print character | | | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | |
| 2 |   | ! | " | # | $ | % | & | ' | ( | ) | * | + | , | - | . | / |
| 3 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | : | ; | < | = | > | ? |
| 4 | @ | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O |
| 5 | P | Q | R | S | T | U | V | W | X | Y | Z | [ | \ | ] | ^ | _ |
| 6 | ` | a | b | c | d | E | f | g | h | i | J | k | l | m | n | o |
| 7 | p | q | r | s | t | U | v | w | x | y | Z | { | | | } | ~ |   |
| 8 | Not used | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |

## 1.3 Display Panel

### 1.3.1 Instruction of Display Panel

Front display is 128×64 的 dot matrix display, with 4 lines display. Back display is 8 digi display, with 〖SUM〗, 〖CHG〗sign.

## 1.4 Specifications

➢ Power supply: AC200V~240V, 47~53Hz

➢ Operation temperature: 0 ～40

➢ Conservation temperature: -20 ～70

➢ Operation humidity: 15%～85%RH

# 2 General Functions, Configuration and Using Index

## 2.1 General functions

➢ The printer can store 5000 PLUs （could enlarge into 10000 PLUs）

➢ The printer provides many kinds of price input and discount.

➢ The print provides reports print for different time periods and classifications

➢ Support network, use RS232 and U disc as tool of data transer, all data can set on the PC, then use these interface to upload and download.

➢ Save sales details, can upload to PC through above interface

## 2.2 Setting of Print Format

➢ ECR preset support 55mm width plain paper, default using recept printing format

➢ Print formats include label print and receipt print. If user needs custom print format, please use PC software to change or contact with appointed after-service cencer.

➢ Don't print bills while saling: amend Spec003 and Spec008 to 0. If some specific deals need to print bills, please press 【Pre/Re Print】.

➢ To print a few copies of one bill, put the amount into Spec003 and Spec008.

➢ To print two different kinds of bills: set the type of bill 1 in Spec000~Spec009, and bill 2 in Spec010~Spec019. Strongly suggest users contact with appointed after-service cencer

➢ Set grey level of plain thermal paper in Spec023.

➢ Set plain thermal paper in Spec 025, the position for cut-off paper suggest Spec025 not less than 10.

➢ You can set different kinds of print formats and barcode types for each PLU. You can check the details in PLU parameters for print formats and barcode types. Set the value of these parameters to 0 if you choose the system type.

➢ The procedures to confirm print format: take bill 1 as an example. If two or more goods are sold, print sum bill and use Spec005 as print format. If only one good is sold, print the item bill. If sale PLU has been set for a specific print format (not 0), system would use the print format. If no specific print format has been set to sale PLU (The setting number is 0.), the print format would be Spec000.

## 2.3 Barcode printing and scanning

➢ Can scan inner code and external code, details in page 22, the specification of *Bar code printing and scanning*

➢ Factory default scans inner barcode with 5-digits total price and 6-digits total price. Please select the barcode compatible with the bar code printing scale.

➢ **If users need special bar code format, please use PC suite or contact with after-service center.**

## 2.4 Sale Functions

➤ Users could operate sales with 66 customers( desk number, some verison is 100 customers )at the same time. Please refer to the Example 4-7 in page 15 for operations.

➤ Rounding methods could be divided into rounding method for single and rounding method for total. The settings of rounding methods are shown in Spec100 and Spec101.

➤ Suggest that set the value of Spec100 to 1 if users don't want the unit "cent" to be displayed in sales.

➤ Suggest that set the values of Spec100 to 0 and Spec101 to 1 if users want the unit "cent" to be in sale while unit "cent" is not displayed in grand total and print.

➤ Users can discount on U.Price and T.Price conveniently. The discount methods include discount at a fixed number, discount in subtraction and discount in percentage. Please refer to Discount Operations in page 17.

## 2.5 Salesman and Waiter Function

➤ User could enable salesman login functions. Please refer to ***Error! Reference source not found.*** in page **Error! Bookmark not defined.** and Spec135.

➤ User could enable waiter functions. Please refer to *Salesman Function* is disabled as default. **User can enable it at Spec135.** Normally, Set Spec135=2 or 4.

Only non-zero password Personnel can login as salesman when Spec135=4 or 5.

User need to input salesman's number and password in the login menu before get into sale menu when salesman function is enable.

➤ Waiter function in page 20 and Spec136。

## 2.6 Report Functions

➤ Users could print the total reports with time periods of last 32 stat. day, stat. month, stat. quarter or manual time period.

➤ Users can print the reports for all departments, all classes and part of PLU (below 1000), with a time period of present stat. day, stat. month, stat. quarter or manual time period.

➤ Please refer to *Account Operations* in page 53 for the details.

## 2.7 Sales details

➤ ECR not only with report print function,but also store the sales record in details, this record can transfer to PC via internet, RS232 or U-disk.

➤ Because the storage room limit, if operator don't transfer the details often, the ECR will delete the old record automatically to save the new records.

➤ The storage for the sales details is 6000 records (can enlarge into 10000 and more). Each cargo takes one record.

## 2.8 Network function

➢ For local area Network, you just need to use the PC or Router to switch on the DHCP service, and don't need to set the IP with each PC, and the ECR can just connect the Network directly.

➢ If you want to nominate the IP for certain ECR, to set Spec150~153 is for 4 segment of IP(Default is 192.168.0.0. When last segment is 0, that means ECR connect with Network with way of DHCP. Also means that default way is DHCP), Spec158~161 is for 4 segment of gateway of Network. (Default is 192.168.0.1).

➢ If the Network for the ECR and PC is not in the same one, you can make that with directional connect way. Directional connect include: From PC to ECR (should nominate the IP of certain ECR on the PC software), and from ECR to PC(should set Spec043 as 2-----client end mode, and set IP of PC at Spec154~157)

➢ Spec166~Spec169 is for the ECR's Network Port, change these items may lead to abnormality with Network. Normally please don't modify these 4 items.

## 2.9 Ethernet Thermal Printer

➢ Device can connect with Ethernet thermal printer produced by our company, which uses as Remote Printer.

➢ User can connect Printer and device one-to-one with Crossover Cable. Or connect printers and devices to Ethernet router (with DHCP function) for one-to-many, many-to-one, or many-to-many network.

➢ User can appoint special print format for Ethernet printer, which may different to printer on the device.

## 2.10 Software use

➢ In the CD, there is *software manual*, you can kindly install and use according to the manual.

➢ The user name of the PC software is **user** , the original password is blank.

➢ The administer name of the PC software is **admin** , the original password is **200806**.

➢ You can click *Help----Manual* after run the software, to check the software manual.

# 3  Fast Prog

Fast prog is the programme operation that draws out some frequently-used programme functions and enables users enter certain frequently-used programme interfaces without selecting in programme interface.

Please make sure system is in the interface of Sale Idle before transferring fast prog. If system is not in Sale Idle, pressing 【Cancel】 could enter the Sale Idle. If system is in sale operation, pressing 【Cancel】 for several times could quit to sale process and enter the interface of 『Sale Idle』.

## 3.1 Fast-Prog of PLU

Press 【F-Prog】+【PLU】 to enter PLU Fast Prog.

The process of programme is similar with PLU programme in standard programme interface. But users can finish PLU Fast Prog in sale interface.

### Example 3-1 Fast-Prog of PLU

Edit PLU10 as a weight PLU with the name Pork-2, U.Price $30.00/kg, cost $24.00/kg and tare 0.005g.

| Operations | Keys | Display | | Remarks |
|---|---|---|---|---|
| 『Sale Idle』 | | | | |
| PLU Fast Prog | 【F-Prog】+<br><br>【PLU】 | F23<br>Edit Step<br>PLU No. | Prog<br>0<br><br>0 | |
| PLU Number | 【1】【0】 | F23<br>Edit Step<br>Note Number | Prog<br>1<br><br>0 | Number are between 1～9999999 |
| Go to Next | 【→】 | | | |
| Input Note | 90001 | F23<br>Edit Step<br>Unit | Prog<br>3<br><br>0 | Usually use for distinguish number of cargo, please keep that identical with the barcode lable printing scale. |
| Go to Next | 【→】 | | | |
| Input Unit | 【2】<br><br>（If don't input, count unit 2 is default one） | F23<br>Edit Step<br>Unit Price | Prog<br>4<br><br>0.00 | 【0】，【1】，default weight unit;<br><br>【2】: default count unit;<br><br>【3】: kg weight unit; |

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| Go to Next | 【→】 | | 【4】: g weight unit;<br><br>【5】: ton weight unit;<br><br>【6】: lb weight unit;<br><br>【7】: 500g weight unit;<br><br>【8】: 100g weight unit;<br><br>unit 20~29 is count unit, unit inturns: pcs,box,package,case,fleck,copy,gross,loaf,set,team Detailed pls refer to unit chapter.<br>Default weight unit mean the unit used for display. And it I suggested for weight PLU. |
| Set U.Price | 【3】【0】【00】 | F23　　　　　　　　Prog<br>Edit Step　　　　　　5<br>Cost<br>　　　　　　　　　0.00 | Default U.Price in sale. Don't have to input it. Users can temporarily input it in sale. |
| Go to Next | 【→】 | | |
| Set cost | 【2】【0】【00】 | F23　　　　　　　　Prog<br>Prog No　　　　　　14<br>Name | Use for calculate payoff cost, can not input |
| Go to Next | 【→】 | | |
| Set name | 【Confirm】 | 　　　　　　Overwrite<br><br>Lowercase | Enter text edit menu |
| Input Pork | 【Shift】【p/P】 | 　　　　　　Overwrite<br>　Pork<br>Lowercase | |
| | 【o】【r】【k】 | | |
| Save edited text | 【Amend】 | F23　　　　　　　　Prog<br>Edit Step　　　　　　14<br>Cargo Name | This 【Amend】 is to save text edit in buffers instead of PLU. Please pay attention: If users need save it in PLU, users need to press【Amend】again as the step below. |
| Save edited PLU | 【Amend】 | | PLU10 is saved. |
| Return to sales | 【Cancel】 | | |

**N o t e 1** Except the parts which have been instructed, meaning of the other words are listed in *List of Programme Interface* in page 22.

**N o t e 2** PLU fast-prog is forbidden when Spec080=0.

**N o t e 3** Before you move to next step, the display of E1.01 Data Invalid means that the programme data you

input is invalid.

**Note 4** Edit step is not continuous when users press 【←】 and 【→】 to select the programme content. There are two reasons. First reason is that the content in that part is meaningless. For example, tare is not present in count PLU programme. The second reason is that the content in that part is seldom used and has been set as non-programme content (Skip) in P31 and P32. Users could change that setting for personel usage. Please refer to corresponding chapters for details.

## 3.2 Fast-Prog of Shortcut Key for PLU

Press 【F-Prog】 + 【SCxx】 to enter PLU shortcut key programme. 【SCxx】 could be one of 【SC1】 ~ 【SC63】. After pressing one key, Users can input the PLU which the pressed key appoints to .Then press 【Amend】 to save and exit.

Users can save without exit if they would like to go on to amend other shortcut keys. Press 【Confirm】 to save the change and press another 【SCxx】 to amend. The number of input PLU must exist. The process of programme is similar with scPLU programme in standard programme interface. Please refer to the process shown below.

Example 3-2 Fast-Prog of Shortcut Key for PLU. Amend a shortcut key.

| Operations | Keys | Display | | Remarks |
|---|---|---|---|---|
| 『Sale Idle』 | | | | |
| PLU shortcut key programme, and the object is SC1 | 【F-Prog】 + 【SC1】 | F14<br>Key No.<br>PLU No. | F-Prog<br>1-1<br>0 | |
| Input PLU number | 【1】【0】 | F14<br>Key No.<br>PLU No. | F-Prog<br>1-1<br>10 | |
| Save directly | 【Amend】 | | | Save to the device. |

**Note 1** When Spec081=0, PLU shortcut-key fast-prog is forbidden.

Example 3-3 Fast-Prog of Shortcut Key for PLU. Amend two or more shortcut keys.

| Operations | Keys | Display | | Remarks |
|---|---|---|---|---|
| 『Sale Idle』 | | | | |
| PLU shortcut key programme, and the object is SC1 | 【F-Prog】 + 【SC1】 | F14<br>Key No.<br>PLU No. | F-Prog<br>1-1<br>0 | |

| Operations | Keys | Display | | Remarks |
|---|---|---|---|---|
| Input PLU number | 【1】【0】 | F14　　　　　　F-Prog<br><br>Key No.　　　　　*** | | Save to temporary buffer. |
| Confirm input | 【Confirm】 | PLU No. | | |
| Set SC2 | 【SC2】 | F14　　　　　　F-Prog<br><br>Key No.　　　　　1-2<br>PLU No.　　　　　　0 | | |
| Input PLU number | 【1】【1】 | F14　　　　　　F-Prog<br><br>Key No.　　　　　*** | | Save to temporary buffer. |
| Confirm input | 【Confirm】 | PLU No. | | |
| Set Shift+SC1 | 【Shift】【SC1】 | F14　　　　　　F-Prog<br><br>Key No.　　　　　2-1<br>PLU No. | | |
| Input PLU number | 【1】【0】【0】 | F14　　　　　　F-Prog<br><br>Key No.　　　　　*** | | Save to temporary buffer.<br>The last confirm can be skipped. |
| Confirm input | 【Confirm】 | PLU No. | | Press 【Amend】 directly. |
| Save | 【Amend】 | | | Save to the device. |

**Note 1** When Spec081=0, PLU shortcut key fast prog is forbidden.

## 3.3 Fast-Prog of Spec Parameters

Press 【F-Prog】+【Mode】 to enter Spec parameters fast prog.

Please select the number you want to edit by pressing 【←】【→】. The second window shows the number of Spec which is being edited. The third window shows current parameters configuration. The fourth window shows the data which has been edited by users.

**Spec data parameters are made up of some number data. Refer to** *Definitions* **of Spec data parameters in page 57 in order to understand functions of these parameters.**

Press 【Amend】 to save and quit, or press 【Cancel】 to quit without saving. The process of programme is similar with Spec programme in standard programme interface. For details, please refer to the process shown below.

Here, we are going to amend Spec000 to 2, Spec002 to 77 and Spec040 to 99. We would present the processes without discussing on the parameters we actually amend and their meanings.

Example 3-4 Fast-Prog of Spec Parameters

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |

| Operations | Keys | Display | | Remarks |
|---|---|---|---|---|
| Spec fast prog | 【F-Prog】+【Mode】 | F12<br>Spec<br>Original<br>Target | F-Prog<br>0<br>1<br>1 | |
| Change to 2 | 【2】 | F12<br>Spec | F-Prog<br>2 | Using【←】【→】 can only |
| Enter Spec002 | 【→】【→】 | Original<br>Target | 20<br>20 | get to amend items in<br>Spec amend level 0. |
| Change to 77 | 【7】【7】 | F12<br>Spec<br>Original<br>Target | F-Prog<br>2<br>20<br>77 | |
| Choose steps directly | 【×】 | F12<br>Spec | F-Prog<br>40 | |
| Input step 40 | 【4】【0】 | | | |
| Confirm step | 【Confirm】 | F12<br>Spec<br>Original<br>Target | F-Prog<br>40<br>0<br>0 | The input number of step must be in Spec amend level 0 or 1. If not, the step cannot be reached. |
| Change to 99 | 【9】【9】 | | | |
| Save | 【Amend】 | | | Saved to the device |
| Exit | 【Cancel】 | | | |

**Note 1** Spec fast-prog programme is forbidden when Spec082 = 0.

**Note 2** Refer to *Definitions* of Spec data parameters in page 57 to know the definitions of data parameters .

**Note 3** Read the definition of the parameter before you change it. And don't change any unknown parameters in Spec programme.

**Note 4** xxx is not continuous when users press 【←】and【→】 to select the programme content. Users can only select Spec in level 0 by pressing 【←】and【→】. You have to input corresponding numbers afterting pressing 【×】 to change Spec in level 1. And users cannot reach Spec in level 2 and level 3 because their data are involved with some specifications in measurement and other hardware fields.

### 3.4 Fast-Prog of Unit price

After transfer PLU, press 【-@】 or 【@Price】 to fast change this PLU's price

Example 3-5 Fast-Prog of unit price (Spec083=1)

| Operations | Keys | Display | | Remarks |
|---|---|---|---|---|
| 『Sale Idle』 | | | | |
| Transfer PLU10 | 【1】【0】【PLU】 | U.Price | 5.00 | |
| Input new U.Price | 【6】【0】【0】 | U.Price | 6.00 | |
| Amend price | Long Press 【@Price】 | U.Price | 6.00 | PLU10's default U.Price change to 6.00 |
| Exit | 【Cancel】 | | | |

**Note 1** When Spec083=1, the step to amend unit price please refer to step 2: first judge whetherthe input price in discount section or not, then set the accordant price as PLU's default price

Example 3-6 Fast-Prog of unit price (Spec083=2)

| Operations | Keys | Display | | Remarks |
|---|---|---|---|---|
| 『Sale Idle』 | | | | |
| Transfer PLU10 | 【1】【0】【PLU】 | U.Price | 5.00 | |
| Input new U.Price | 【6】【0】【0】 | U.Price | 6.00 | |
| Amend price | 【@Price】 | U.Price | 6.00 | PLU10's default U.Price change to 6.00 |
| Exit | 【Cancel】 | | | |

**Note 1** When Spec083=2, during the unit price amend, it will not judge the rationality of the input price and directly save as PLU's default price

# 4  Sale Operations

## 4.1 Transfer and Lock of PLU

PLU9999999 is a temporary weight goods（Spec93）, PLU9999998 is a temporary count goods（Spec94）.

Except this two temporary PLU, user can use all other 7 digits PLU.

### 4.1.1 Transfer by Using PLU Number

Example 4-1 Use PLU Number to Transfer Weight PLU

Transfer PLU10

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Input number | 【1】【0】 | | |
| Transfer PLU | 【PLU】 | | |
| Clear PLU | 【Cancel】 | | |

### 4.1.2 Tranfer by Using PLU Shortcut Keys

Example 4-2 Use PLU Shortcut Keys to Transfer Weight PLU

Transfer SC1, assuming SC1=PLU10

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Use shortcut key | 【SC1】 | | |
| Clear PLU | 【Cancel】 | | |

### 4.1.3 Transfer Temporary by-count PLU

Example 4-3 Transfer Temporary by-count PLU

| 操 作 | 按键 | 显 示 | 备 注 |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Input Unit Price | 【1】【3】【0】 | | |
| Transfer temporary PLU | 【×】 | | |
| Clear PLU | 【Cancel】 | | |

**Note 1** Temporary by-count PLU's number are decided by Spec094 (the default is 9999998)

## 4.2 Manual Goods Sale

### 4.2.1 Sale and Print of Single by-count PLU

Example 4-4 Sale for Single by-count PLU

Sell 5 pcs PLU10. Assume PLU10 is a mineral water, unit price $3/PC

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Transfer PLU10 | 【1】【0】【PLU】 | Mineral Water<br><br>U.Price　　　　3.00<br>V1+　　　　3.00 | |
| Input PLU 10 quantity | 【×】【5】 | Mineral Water<br>Count　　　　5<br>U.Price　　　　3.00<br>V1+　　　　15.00 | If sales 1pc, user can print or accu directly, ignore this step. |
| Print | 【Print】 | | |

**Note 1** Two qualifications are indispensable when directly print without accumulating: 1. Current accumulative buffer is empty, 2. The value of Spec060 is not set to be 3 (orbid cashing mode with default zero change).

### 4.2.2 Sale and Print for Different Kinds of Goods

Example 4-5 Different kinds of goods' sale and print

Sell 2 pcs PLU10. PLU10 is mineral water, unit price $3/pc; sell 1 pcs PLU 11, PLU 11 is melon seeds, unit price $5/pc. Pay $50.

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Transfer PLU10 | 【1】【0】【PLU】 | Mineral Water<br><br>U.Price　　　　3.00<br>V1+　　　　3.00 | |
| Input pcs | 【×】【5】 | Mineral Water<br>Count　　　　5<br>U.Price　　　　3.00<br>V1+　　　　15.00 | |
| Accumulate | 【Accu】 | S00:1　　　　Sale<br><br>　　　　0.00<br>V1　　　　15.00 | |
| Transfer PLU11 | 【1】【1】【PLU】 | Beef Jerky<br><br>U.Price　　　　5.00<br>V1+　　　　20.00 | |

| Operations | Keys | Display | | Remarks |
|---|---|---|---|---|
| Accumulate | 【Accu】 | S00:2 | Sale | |
| | | | 0.00 | |
| | | V1 | 20.00 | |
| Input Cash number | 【5】【0】【00】 | Total | 50.00 | |
| Print | 【Print】 | Cash | 20.00 | |
| | | Change | -30.00 | |

**Note 1** If payment value is equal to total price could print out directly without input value.

## 4.3 Discount Operations

### 4.3.1 Unit Price Discount

The data after discount should be within the discountable area. If the data exceeds the area, discount operation would fail

Example 4-6 Execute Discount at a Fixed Number

Discount in U.Price: discount the U.Price to $2.50/kg. Assume that PLU10 is water with U.Price $3.00/kg

| Operations | Keys | Display | | Remarks |
|---|---|---|---|---|
| 『Sale Idle』 | | | | |
| Transfer PLU10 | 【1】【0】【PLU】 | Mineral Water | | |
| | | 单价 | 3.00 | |
| | | V1+ | 3.00 | |
| Input discount price | 【2】【5】【0】 | Mineral Water | | User can press 【Confirm】or【×】 |
| Execute discount | 【@Price】 | 单价 | 2.50 | to confirm the discount price |
| | | V1+ | 2.50 | without press 【@Price】 |
| Print | 【Print】 | | | |

**Note 1** When Spec083=2, you can not press【@U.P.】 to execute discount cause it will amend PLU's default

price

### 4.3.2 Total Price Discount

The operations of T.Price discount and U.Price discount are the same. Under the condition that PLU is not transferred and with accumulative buffers, execute discount operation is to discount on T.Price. The processes are not repeated here. The limit of discount on T.Price is a accumulative value of U.Price discount limits of all goods.

## 4.4 Operations of Sale Buffers

### 4.4.1 Switch of Sale Buffers

Example 4-7 Switch of Sale Buffers

| Operations | Keys | Display | | Remarks |
|---|---|---|---|---|
| 『Sale Idle』 | | | | |
| Transfer PLU10 | 【1】【0】【PLU】 | S00:0 | Sale<br><br>0.00 | |
| | | V1 | 0.00 | |
| Sell some goods | …… | S00:2 | Sale<br><br>0.00 | |
| | | V1 | 18.00 | |
| Service other customers, for current customer delay checking out | …… | | | Press 【 Pre-Print 】 can print recorded PLU list. |
| Switch buffer V2 | 【←V→】【2】<br><br>【Confirm】 | S00:0 | Sale<br><br>0.00 | |
| | | V2 | 0.00 | |
| Other operations | | | | Execute sales. Users can switch to other V according to demands. |
| Customer V1 Check out | 【←V→】【1】<br><br>【Confirm】 | S00:2 | Sale<br><br>0.00 | |
| | | V1 | 18.00 | |
| Add other goods or direct print | 【Print】 | | | |

### 4.4.2 Cancel Sale Data in Sale Buffers

Example 4-8 Clear All Data in Current Sale Buffers

| Operations | Keys | Display | | Remarks |
|---|---|---|---|---|
| 『Sale Idle』 | | | | |
| Transfer PLU10 | 【1】【0】【PLU】 | Mineral Water<br><br>U.Price | 3.00 | |
| | | V1+ | 3.00 | |
| Input PLU10 quantity | 【×】【5】 | Mineral Water<br>Count | 5 | |
| | | U.Price | 3.00 | |
| | | V1+ | 15.00 | |

| Operations | Keys | Display | | Remarks |
|---|---|---|---|---|
| Accumulate | 【Confirm】 | S00:1　　　　　Sale<br><br>　　　　　　　0.00<br>V1　　　　　15.00 | | |
| Transfer PLU11 | 【1】【1】【PLU】 | Beef Jerky<br><br>U.Price　　　　5.00<br>V1+　　　　　20.00 | | |
| Accumulate | 【Confirm】 | S00:2　　　　　Sale<br><br>　　　　　　　0.00<br>V1　　　　　20.00 | | |
| Enter cancel interface | 【Amend】 | <br><br>Total Count　　　6<br>Total　　　　20.00 | | |
| Clear all data | 【Confirm】 | S00:0　　　　　Sale<br><br>　　　　　　　0.00<br>V1　　　　　0.00 | | |

Example 4-9 Clear One Goods in Current Sale Buffer

| Operations | Keys | Display | | Remarks |
|---|---|---|---|---|
| 『Sale Idle』 | | | | |
| Transfer PLU10 | 【1】【0】【PLU】 | Mineral Water<br><br>U.Price　　　　3.00<br>V1+　　　　　3.00 | | |
| Input PLU10 quantity | 【×】【5】 | Mineral Water<br>Count　　　　　5<br>U.Price　　　　3.00<br>V1+　　　　　15.00 | | |
| Accumulate | 【Confirm】 | S00:1　　　　　Sale<br><br>　　　　　　　0.00<br>V1　　　　　15.00 | | |
| Transfer PLU11 | 【1】【1】【PLU】 | Beef Jerky<br><br>U.Price　　　　5.00<br>V1+　　　　　20.00 | | |
| Accumulate | 【Confirm】 | S00:2　　　　　Sale<br><br>　　　　　　　0.00<br>V1　　　　　20.00 | | |

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| Enter cancel interface | 【Amend】 | Total Count　　　　6<br>Total　　　　　20.00 | |
| Use 【←】 【→】 to select | 【→】 | Mineral Water<br>No.1　　　　　　10<br>Count　　　　　　5<br>Price　　　　　15.00 | |
| Clear select data | 【Confirm】 | S00:1　　　　　Sale<br><br>　　　　　　　　0.00<br>V1　　　　　　5.00 | 5 pcs mineral water are reject<br>1 pc beef jerky keep, $5.00 |

## 4.5 Salesman and waiter

### 4.5.1 Personnel record

Please refer to *Salesman Programme* in page 44 for editing the salesman. Salesman and waiter use the same personnel sheet.

### 4.5.2 Salesman function

Salesman Function is disabled as default. **User can enable it at Spec135.** Normally, Set Spec135=2 or 4.

Only non-zero password Personnel can login as salesman when Spec135=4 or 5.

User need to input salesman's number and password in the login menu before get into sale menu when salesman function is enable.

### 4.5.3 Waiter function

Waiter function disable for factory default. **Use can enable this function in Spec136.** And user can select memory mode in Spec137

Example 4-10 Waiter appointed operation

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Input waiter number | 【2】【0】【←V→】 | | There is no clue on the display, after this operation. A single beep, means the operation is succeed |

## 4.6 Inquiry of Sale Records and Markers of Returns of Goods

Mark the tenth item in the sale record as return of goods.

Example 4-11 Inquiry of Sale Records and Markers of Returns of Goods

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| Enter 『Sale Records』 | Long Press 【Amend】 | Beef Jerky<br>No.2　　　　PLU11<br>Count　　　　　1<br>Price　　　　5.00 | |
| Other information of record items | 【F-Prog】 + 【→】 | 2009-07-04<br>10:16:54<br>Saturday | |
| Other information of record items | 【F-Prog】 + 【→】 | 132/132<br>FID　　　　96<br>SID　　　　48 | Note 1 |
| Other information of record items | 【F-Prog】 + 【→】 | Beef Jerky<br>No.2　　　　PLU11<br>Count　　　　　1<br>Price　　　　5.00 | |
| See previous record | 【←】 | Mineral Water<br>No.1　　　　PLU10<br>Count　　　　　5<br>Price　　　　15.00 | |
| Search record based on time | 【×】 | Time 1<br>2009-07-04<br>12:16:54<br>Saturday | |
| Confirm time | Input the record's time and press 【Confirm】 | Beef Jerky<br>No.1　　　　PLU11<br>Count　　　　　5<br>Price　　　　25.00 | |
| Sign as reject | 【F-Prog】+【Amend】 | | Need Spec74=1 |
| Other information of record items | 【F-Prog】 + 【→】 | 2009-07-04<br>9:32:20<br>Saturday | |
| Other information of record items | 【F-Prog】 + 【→】 | 123/132<br>FID　　　　90<br>SID　　　　42<br>Reject | Here is "Reject" mark for reject PLU |
| Return to sale mode | 【Cancel】 | | |

**N o t e 1**  132/132 means there are total 132 record, this record is the 132's record. When the number is close

to 8000, the device would delete the earlist records automaticlly.

## 4.7 Bar code printing and scanning

### 4.7.1 Exterior bar code

Exterior bar code is EAN/UPC barcode normally, which is defined by the standards organisation GS1.

If user look for commodity by exterior bar code, user need to input the commodity's bar code to **PLU's Index**, after the scanner scan the bar code, it will search and transfer the same index PLU auotmatically.

When user edit the PLU on the scale, scan the exterior bar code during the PLU numbwe step, it will transfer the PLU related to the exterior bar code; if scane the exterior bar code in other step, it will consider this bar code as present PLU's index number.

### 4.7.2 Interior bar code

Interior bar code is user appointed barcode format and only used in small are, generally used for communication between barcode scale and cash machine like cash register scale or cash register machine.

In the rule of EAN-UCC, define the prefix code 20-29 as shop inside use to avoid the repeatance with EAN code. So, if user uses both exterior and interior bar code, then interior bar code 's prefix must inside 20-29.

To meet the different request, the interior bar code's format can be defined by user, but the print device (barcode label scale) and scan device (cash register scale or cash register) must with the same format, then the interior bad coe can be exactly recognised

# 5 Programme Operations

## 5.1 Please Read this Part First

There are detailed programme operations of the device in this chapter, as well as examples for users. But some parts of programme content are very complicated such as print format edit and barcode format edit. Devisers suggest users use company offered software when users are in need of these functions. The company software offers users a convenient interface to edit all the working parameters and sale data of the device. The setting data can be downloaded from Ethernet (real-time download), or transferred in the form of files by USB flash disk (Users edit the data on PC and store data in USB flash disk, then download data to device from USB flash disk.).

**Devisers are convinced that it's easy to learn to use the company software. As long as users own basic computer operation knewledge and learn with user menual of this software (User menual would be installed with the software), users can operate the software in a very short time. If users cannot use computer and are still in need of complicated programme operations, users can write down the demands and send to us.**

If computers cannot be used in users' circumstances, and users are indeed in need of functions of this part, please read content in this chapter carefully. In consideration of too much content, detailed example instructions of all operations will not be provided in some chapters. But all the functions are instructed in words and processes are arranged in sequence of steps. Users should read _Tree-shaped Design of Edit Steps_ and _Frequently-used Keys in Prog Interfaces_ first carefully. Then do programme operations according to instructions in _List of Programme Interface_ and corresponding chapters on the basis of fully understanding of these two parts.

## 5.2 Basic Operations in Programme Interface

### 5.2.1 Tree-shaped Design of Edit Steps

| | | | | |
|---|---|---|---|---|
| Prog Menu | P1 | Device Paramete (TM-Set) | P11 | Time |
| | | | P12 | Spec |
| | | | P13 | Sring |
| | | | P14 | PLU Shortcut |
| | P2 | Sale Data (DT-Set) | P21 | Dept. |
| | | | P22 | Class |
| | | | P23 | PLU |
| | | | P24 | Unit |
| | | | P25 | Barcode |
| | | | P26 | Print format |
| | | | P27 | Salesman |
| | P3 | Data Assistant (DT-Ass) | P31 | PLU Prog steps |
| | | | P32 | PLU F-Prog steps |
| | | | P33 | Delete Sale data |
| | P4 | Communications (Commu) | P41 | USB flash disk |
| | | | P42 | Ethernet |
| | | | P43 | RS232 |

Press 【Mode】 first enter P1;

Use 【←】 and 【→】 to select one of P1 to P5. Use 【Confirm】 to select corresponding programme operations;

Or press【1】~【5】directly to enter P1 ~ P5;
Then use the way to go to Next.

The operations are a little different in various programme operations. But they are almost designed into tree-shaped. Instructions and examples about each part would be in following chapters.

| | | P44 | USB slave | . |
| --- | --- | --- | --- | --- |
| P5 | Hardware Assistant (HWAss) | P51 | Set the passwords | |
| | | P52 | Factory default | |
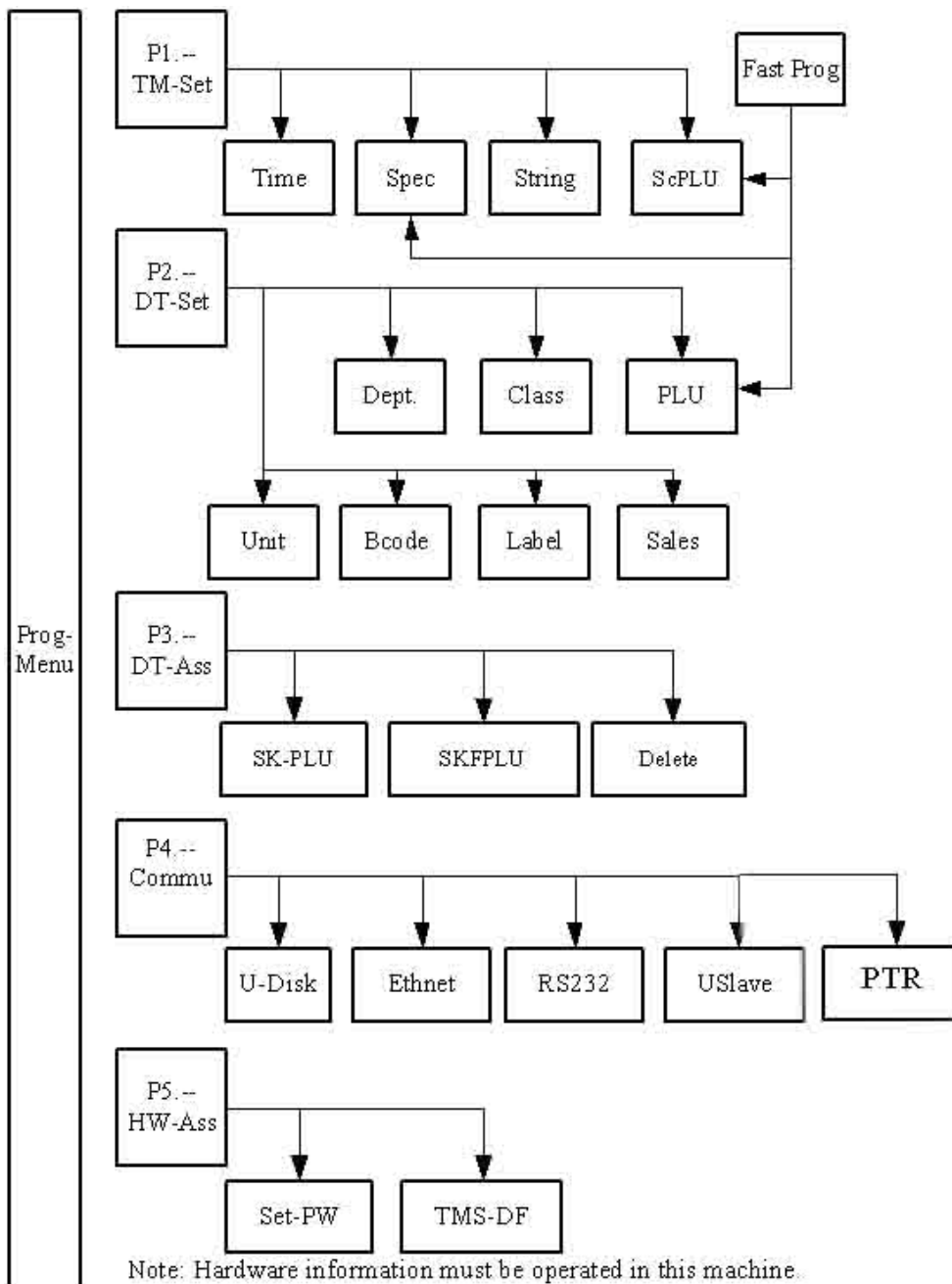


Picture 5-1  Sketch map of tree-shaped design of edit interface

**5.2.2** Frequently-used Keys in Prog Interfaces

➢ 【Amend】: **Save the amended content and go back to previous interface.** If operation is in DTSet, go back to step 0 after save and wait for new number to be input to amend.

➢ 【Cancel】: **Don't save and go back to previous interface.**

➢ 【Confirm】: **Get into next step to edit.** Such as enter P3 by pressing  【Confirm】  when operation is in

P31. And press 【Confirm】 to enter certain edit interface when operation is in text edit or in edit interface of print format. Then press 【Amend】 to save and exit, or press 【Cancel】 to exit without saving.

➤ 【←】、【→】: Steps selection. Such as press 【←】 and 【→】 to select steps P21~ P27

➤ 【↑】、【↓】: Press 【↑】【↓】 to select previous or next valid data when amending data in programme. And its function is the same as 【←】【→】 in some interfaces when no data is to be amended.

➤ 【0】 ~ 【9】、00: Input corresponding numbers.

➤ 【back】: Delete the last digit number.

➤ 【×】: For so many steps to select in processes of Spec and DTSet edit operations in TMSet, users can use 【×】 to select step to edit. There would be a hint for you to input the step number you want to select after you press 【×】. Please input the number and press 【Confirm】.

**5.2.3** List of Programme Interface

| Menus | Menu Prompt | | Instructions | Remarks | State |
|-------|---------|------|-------------|---------|-------|
| P1 | Parameter | | Device Setting | | |
| P11 | Parameter | Time | | | |
| P12 | Parameter | Spec | Specification Setting | | |
| P12 | Spec | 0 | Specification 000 | Spec 000~499, see details in chapter **7.2** *Definitions of Spec data parameters* | |
| …… | …… | …… | …… | | |
| P12 | Spec | 499 | Specification 499 | | |
| P13 | Parameter | String | String Setting | | |
| P13 | String | 0 | String 0: Store Name | | |
| P13 | String | 1 | String 1: Device Name | | |
| P13 | String | 2 | String 2: Prefix of Money Unit | | |
| P13 | String | 3 | String 3: Suffix of Money Unit | | |
| P13 | String | 4 | String 4: Bill text 1 | | |
| P13 | String | 5 | String 5: Bill text 2 | | |
| P13 | String | 6 | String 6: Bill text 3 | | |
| P13 | String | 7 | String 7: Bill text 4 | | |
| P13 | String | 8 | String 8: Bill text 5 | | |
| P13 | String | 9 | String 9: Bill text 6 | | |
| P13 | String | 10 | String 10: Bill text 7 | | |
| P13 | String | 11 | String 11: Bill text 8 | | |
| P13 | String | 12 | String 12: Special text 1 | | |
| P13 | String | 13 | String 13: Special text 2 | | |
| P13 | String | 14 | String 14: Special text 3 | | |
| P13 | String | 15 | String 15: Special text 4 | | |
| P13 | String | 16 | String 16: Special text 5 | | |

| Menus | Menu Prompt | | Instructions | Remarks | State |
|---|---|---|---|---|---|
| P13 | String | 17 | String 17: Special text 6 | | |
| P13 | String | 18 | String 18: Special text 7 | | |
| P13 | String | 19 | String 19: Special text 8 | | |
| P14 | Parameter | PLU shortcut | PLU shortcut setting | | |
| P2 | Database | | Database setting | | |
| P21 | Database | Dept. | Dept. Setting | | |
| P21 | Step 00 | Dept. No. | Dept.0: Number | Available dept edit number: 10~99. | |
| P21 | Step 01 | Dept. Name | Dept.1: Name | | |
| P22 | Database | Class | Class Setting | | |
| P22 | Step 00 | Class No. | Class 0: Number | Available class edit number 10~99 | |
| P22 | Step 01 | Class Name | Class 1: Name | | |
| P22 | Step 00 | Parent Dept. | Class 2: Dept. that it belong to | | |
| P23 | Database | PLU | PLU Setting | | |
| P23 | Step 00 | PLU No. | PLU 0: Number | Available PLU edit number 1~9999999. | |
| P23 | Step 01 | Note Number | PLU 1: Note Number | Be printed with barcodes. | |
| P23 | Step 02 | PLU Index | PLU 2: Index for exterior barcode | | |
| P23 | Step 03 | Unit | PLU 3: Unit | 1 is default weight unit; 2 is default weight unit; 3 is kg weight unit; 4 is g weight unit; 5 is ton weight unit; 6 is pound weight unit; 7 is 500g weight unit; 8 is 100g weight unit. | |
| P23 | Step 04 | Unit Price | PLU 4: U.Price | | |
| P23 | Step 05 | Cost | PLU 5: Cost | | |
| P23 | Step 06 | Tare | PLU 6: Tare | | |
| P23 | Step 07 | Print Format 1 | PLU 7: Print format number of 1st bill | | |
| P23 | Step 08 | Barcode 1 | PLU 8: Barcode number of 1st bill | | |
| P23 | Step 09 | Barcode Flag 1 | PLU 9: Barcode flag of bill 1st bill | | |
| P23 | Step 10 | Print Format 2 | PLU 10: Print format number of 2nd bill | | |
| P23 | Step 11 | Barcode 2 | PLU 11: Barcode number of 2nd bill | | |
| P23 | Step 12 | Barcode Flag 2 | PLU 12: Barcode flag of 2nd bill | | |
| P23 | Step 13 | Parent Class | PLU 13: class that it belongs to | | |
| P23 | Step 14 | PLU Name | PLU 14: Goods name | | |
| P23 | Step 15 | Add-on Text 1 | PLU 15: Goods postil 1 | | |
| P23 | Step 16 | Add-on Text 2 | PLU 16: Goods postil2 | | |
| P23 | Step 17 | Add-on Text 3 | PLU 17: Goods postil3 | | |
| P23 | Step 18 | Add-on Text 4 | PLU 18: Goods postil4 | | |
| P23 | Step 19 | Add-on Text 5 | PLU 19: Goods postil5 | | |
| P23 | Step 20 | Add-on Text 6 | PLU 20: Goods postil6 | | |
| P23 | Step 21 | Add-on Text 7 | PLU 21: Goods postil7 | | |
| P23 | Step 22 | Print? Sale Date | PLU 22: Sale date print | 0: not print, 1: print. | |
| P23 | Step 23 | Print? Sale Time | PLU 23: Sale time print | 0: not print, 1: print at appointed time, 2: print printing time. | |
| P23 | Step 24 | Print? Pack Date | PLU 24: Packing date print | 0: not print, 1: print. | |
| P23 | Step 25 | Print? Pack Time | PLU 25: Packing time print | 0: not print, 1: print at appointed time, 2: print printing time. | |

| Menus | Menu Prompt | | Instructions | Remarks | State |
|---|---|---|---|---|---|
| P23 | Step 26 | Print? User Date | PLU 26: Shelf date print | 0: not print, 1: print. | |
| P23 | Step 27 | Sale Date | PLU 27: Sale days data | Number of days after current day. | |
| P23 | Step 28 | Sale Time | PLU 28: Sale time data | Appointed time for print. | |
| P23 | Step 29 | Pack Date | PLU 29: Packing days data | Number of days after current day. | |
| P23 | Step 30 | Pack Time | PLU 30: Packing time data | Appointed time for print. | |
| P23 | Step 31 | User Date | PLU 31: Shelf days data | Number of days after current day. | |
| P23 | Step 32 | Lower Discount | PLU 32: Manual discount lower limit | 0: use system setting; 1: no lower limit; 2: Take original cost as lower limit; 3: Take PLU.34 as lower limit. | |
| P23 | Step 33 | Higher Discount | PLU 33: Manual discount upper limit | 0: use system setting; 1: no upper limit; 2: Take original U.Price as upper limit; 3: Take PLU.35 as upper limit. | |
| P23 | Step 34 | Lower Date | PLU 34: Value of manual discount lower limit | Activated when DF_D=3. | |
| P23 | Step 35 | Higher Date | PLU 35: Value of manual discount upper limit | Activated when DF_D=3. | |
| P23 | Step 36 | A0: Sort | PLU 36: Customize 0 of auto disount | 0: not activate; 1: discount on count; 2: discount on periods of time. | |
| P23 | Step 37 | A0: Weekday | PLU 37: Activation day of the customize | Sunday: 1, Monday: 2, Tuesday: 4 Wednesday: 8, Thursday: 16, Friday: 32 Saturday: 64. When this customization discount needs to be activated at some certain days, input add-up number of these days here. To input 127 means that the discount is activated all the days. To input 1 + 64 = 65 if the discount is only activated at Saturday or Sunday. | |
| P23 | Step 38 | A0: Low Border | PLU 38: The Lower limit of customization activation period Start at this point (include this point) | Execute this discount way in this customization activation period. Input weight/count according to the unit of PLU when discount on amount. When inputing count, 10 goods needs to input 10.000 or move decimal (long press 【Shift】 or 【F-Prog】+【Shift】) to input 10. Avoid inputing 0.010 for 10 pcs. When discount on time, the format of input time is HHMM. If the time is 20:30, users need to move decimal to input 2030. | |
| P23 | Step 39 | A0: High Border | PLU 39: The upper limit of customization activation period End at this point (not include this point) | | |
| P23 | Step 40 | A0: Set to Data | PLU 40: Discount Price of customize | If number is positive, discount number would replace U.Price. If number is minus, new U.Price is the price that subtracts the input number from former U.Price. But minus values cannot be input in the scale. | |
| P23 | Step 41 | A1: Sort | PLU 41: Customize 1 of auto disount | It's the same as last customize | |

| Menus | Menu Prompt | | Instructions | Remarks | State |
|---|---|---|---|---|---|
| P23 | Step 42 | A1: Weekday | PLU 42: Activation day of the customize | discount. After the edit of last customize discount it can be edited. | |
| P23 | Step 43 | A1: Low Border | PLU 43: The Lower limit of customization activation period | | |
| P23 | Step 44 | A1: High Border | PLU 44: The upper limit of customization activation period | | |
| P23 | Step 45 | A1: Set to Data | PLU 45: Discount Price of customize | | |
| P23 | Step 46 | A2: Sort | PLU 46: Customize 2 of auto disount | | |
| P23 | Step 47 | A2: Weekday | PLU 47: Activation day of the customize | It's the same as last customize discount. After the edit of last customize discount it can be edited. | |
| P23 | Step 48 | A2: Low Border | PLU 48: The Lower limit of customization activation period | | |
| P23 | Step 49 | A2: High Border | PLU 49: The upper limit of customization activation period | | |
| P23 | Step 50 | A2: Set to Data | PLU 50: Discount Price of customize | | |
| P23 | Step 51 | A3: Sort | PLU 51: Customize 3 of auto disount | | |
| P23 | Step 52 | A3: Weekday | PLU 52: Activation day of the customize | It's the same as last customize discount. After the edit of last customize discount it can be edited. | |
| P23 | Step 53 | A3: Low Border | PLU 53: The Lower limit of customization activation period | | |
| P23 | Step 54 | A3: High Border | PLU 54: The upper limit of customization activation period | | |
| P23 | Step 55 | A3: Set to Data | PLU 55: Discount Price of customize | | |
| P23 | Step 56 | Tax Sort | PLU56: tax rate sort | 0: excute tax rate according to Spec 116,117<br>1: tax free price mode<br>2:: tax free price mode, input unit price is price duty paid<br>3.with tax price mode | |
| P23 | Step 57 | Tax Rate | PLU57: tax rate percentage | 0.01% tax rate, 17% input 1700 | |
| P24 | Database | Unit | 单位 Setting | | |
| P24 | Step 00 | Unit No. | Unit 0: Number | | |
| P24 | Step 01 | Unit Name | Unit 1: Name | | |
| P24 | Step 04 | Basic Unit | Unit 4: Measure Mode(just open weighing mode) | 1 is default weight unit,<br>2 is default count unit, | Not Open |
| P24 | Step 05 | Package | Unit 5: Packing | In weighing mode, means how much gram as one packing<br>In counting mode, means how many pcs as one packing | Not Open |
| P25 | Database | Barcode | Barcode Setting | | |
| P25 | Step 00 | Barcode No. | Barcode 0: Number | Edited number of barcode when leaving factory are 1~9. Available barcode edit number 10~99. | |
| P25 | Step 01 | Barcode Name | Barcode 1: Name | | |
| P25 | Step 02 | Barcode Format | Barcode 2: Type | | |
| P25 | Step 03 | Check Type | Barcode 3: Checkout | | |
| P25 | Step 04 | Const Number 1 | Barcode 4: Constant number 1 | | |
| P25 | Step 05 | Const Number 2 | Barcode 5: Constant number 2 | | |
| P25 | Step 05 | Barcode Detail | Barcode 6: Data format description | Please pay attention that edit content should accord with certain format: refer to chapter of barcode. | |

| Menus | Menu Prompt | | Instructions | Remarks | State |
|---|---|---|---|---|---|
| P26 | Database | Print Format | Print format Setting | | |
| P26 | Step 00 | Print Format No. | Print format 0: Number | Edited label in factory: 1~9; Available label edit number 10~29. | |
| P26 | Step 01 | Name | Print format 1: Name | | |
| P26 | Step 02 | Sort | Print format 2: Using sort | | |
| P26 | Step 03 | X Length(mm) | Print format 3: Width | | |
| P26 | Step 04 | Y Length(mm) | Print format 4: Height | | |
| P26 | Step 05 | Text 01 | Print format 5: Text 1 | | |
| P26 | Step 06 | Text 02 | Print format 6: Text 2 | | |
| P26 | Step 07 | Text 03 | Print format 7: Text 3 | | |
| P26 | Step 08 | Text 04 | Print format 8: Text 4 | | |
| P26 | Step 09 | Text 05 | Print format 9: Text 5 | | |
| P26 | Step 10 | Text 06 | Print format 10: Text 6 | | |
| P26 | Step 11 | Text 07 | Print format 11: Text 7 | | |
| P26 | Step 12 | Text 08 | Print format 12: Text 8 | | |
| P26 | Step 13 | Text 09 | Print format 13: Text 9 | | |
| P26 | Step 14 | Text 10 | Print format 14: Text 10 | | |
| P26 | Step 15 | Text 11 | Print format 15: Text 11 | | |
| P26 | Step 16 | Text 12 | Print format 16: Text 12 | | |
| P26 | Step 17 | Text 13 | Print format 17: Text 13 | | |
| P26 | Step 18 | Text 14 | Print format 18: Text 14 | | |
| P26 | Step 19 | Text 15 | Print format 19: Text 15 | | |
| P26 | Step 20 | Text 16 | Print format 20: Text 16 | | |
| P26 | Step 21 | Font Mode | Print format 21: Font mode | Suggest new font mode after V2.03 but still support old font | |
| P26 | Step 22 | Print Item | Print format 22: Print Item | | |
| P26 | Step 00 | Item No. | Print item 0: Item number | Available print item edit number 0~99. | |
| P26 | Step 01 | Flag 1 | Print item 1: Symbol 1 | | |
| P26 | Step 02 | Flag 2 | Print item 2: Symbol 2 | | |
| P26 | Step 03 | Flag 3 | Print item 3: Symbol 3 | | |
| P26 | Step 04 | Print Condition | Print item 4: Print state | | |
| P26 | Step 05 | Print Direction | Print item 5: Print angle | | |
| P26 | Step 06 | Snap to Grid | Print item 6: Type of snap to grid | | |
| P26 | Step 07 | Text Font | Print item 7: Print font | | |
| P26 | Step 08 | Pos of X | Print item 8: Start position X | | |
| P26 | Step 09 | Pos of Y | Print item 9: Start position Y | | |
| P26 | Step 10 | Length of X | Print item 10: Area length X | | |
| P26 | Step 11 | Length of Y | Print item 11: Area length Y | | |
| P27 | Database | Salesman | Salesman | Available salesman edit number 10~99 | |
| P27 | Step 00 | Salesman No. | Salesman 0: Number | | |
| P27 | Step 01 | Salesman Name | Salesman 1: Salesman name | | |
| P27 | Step 02 | Password | Salesman 1: Salesman password | | |
| P3 | Data Ass | | Data Assistant Setting | | |
| P31 | Data Ass | PLU Step | PLU Prog skip step setting | | |
| P31 | Step 00 | PLU No. | PLU 0: Number | 0: Prog means to be programme, 1: Skip means skiped in programme | |
| P31 | Step 01 | Note Number | PLU 1: Note Number | | |
| P31 | Step 02 | PLU Index | PLU 2: Index for exterior barcode | | |

| Menus | Menu Prompt | | Instructions | Remarks | State |
|---|---|---|---|---|---|
| P31 | Step 03 | Unit | PLU 3: Unit | | |
| P31 | Step 04 | Unit Price | PLU 4: U.Price | | |
| P31 | Step 05 | Cost | PLU 5: Cost | | |
| P31 | Step 06 | Tare | PLU 6: Tare | | |
| P31 | Step 07 | Print Format 1 | PLU 7: Print format number of 1st bill | | |
| P31 | Step 08 | Barcode 1 | PLU 8: Barcode number of 1st bill | | |
| P31 | Step 09 | Barcode Flag 1 | PLU 9: Barcode flag of bill 1st bill | | |
| P31 | Step 10 | Print Format 2 | PLU 10: Print format number of 2nd bill | | |
| P31 | Step 11 | Barcode 2 | PLU 11: Barcode number of 2nd bill | | |
| P31 | Step 12 | Barcode Flag 2 | PLU 12: Barcode flag of 2nd bill | | |
| P31 | Step 13 | Parent Class | PLU 13: class that it belongs to | | |
| P31 | Step 14 | PLU Name | PLU 14: Goods name | | |
| P31 | Step 15 | Add-on Text 1 | PLU 15: Goods postil 1 | | |
| P31 | Step 16 | Add-on Text 2 | PLU 16: Goods postil2 | | |
| P31 | Step 17 | Add-on Text 3 | PLU 17: Goods postil3 | | |
| P31 | Step 18 | Add-on Text 4 | PLU 18: Goods postil4 | | |
| P31 | Step 19 | Add-on Text 5 | PLU 19: Goods postil5 | | |
| P31 | Step 20 | Add-on Text 6 | PLU 20: Goods postil6 | | |
| P31 | Step 21 | Add-on Text 7 | PLU 21: Goods postil7 | | |
| P31 | Step 22 | Print? Sale Date | PLU 22: Sale date print<br>Attached: PLU.27: Sale date data | | |
| P31 | Step 23 | Print? Sale Time | PLU 23: Sale time print<br>Attached: PLU.28: Sale time data | | |
| P31 | Step 24 | Print? Pack Date | PLU 24: Packing date print<br>Attached: PLU.29: Packing date print | | |
| P31 | Step 25 | Print? Pack Time | PLU 25: Packing time print<br>Attached: PLU.30: Packing time data | | |
| P31 | Step 26 | Print? User Date | PLU 26: Shelf date print<br>Attached: PLU.31: Shelf date data | | |
| P31 | Step 32 | Lower Discount | PLU 32: Manual discount upperlimit<br>Attached: PLU.34 | | |
| P31 | Step 33 | Higher Discount | PLU 33: Manual discount lower limit<br>Attached: PLU.35 | | |
| P31 | Step 36 | A0: Sort | PLU 36: Customize 0 of auto discount<br>Attached: PLU.37-PLU.55 | | |
| P32 | Data Ass | PLU F-Step | PLU F-Prog skip step setting | | |
| | **The same as P31** | | | | |
| P33 | Data Ass | Delete | Delete data of the scale | Validate code is needed to enter: 9958. | |
| P331 | Delete | Dept. | Delete1: Dept. | When entering to delete, system would request to input 2 numbers which mean the start number and the end number of the data to delete. If the end number is 0, only data of the start number would be deleted. If the number is not 0 and it's less than start number, no data would be deleted. | |
| P332 | Delete | Class | Delete2: Class | | |
| P333 | Delete | PLU | Delete3: PLU | | |
| P334 | Delete | Unit | Delete4: Unit | | |
| P335 | Delete | Barcode | Delete5: Barcode | | |
| P336 | Delete | Print Format | Delete6: Print format | | |
| P337 | Delete | Salesman | Delete7: Salesman | | |

| Menus | | | Menu Prompt | | Instructions | Remarks | State |
|---|---|---|---|---|---|---|---|
| P4 | | | Commu | | Communication Setting | | |
| | P41 | | Commu | USB Disk\ | Load and save of data in USB flash disk | | |
| | P42 | | Commu | Ethernet | Not real-time Download from Ethernet | | |
| | P43 | | Commu | RS232 | RS232communication | | |
| | P44 | | Commu | USB Slave | USB slave communication | | Not Open |
| | P45 | | Commu | Ethernet Printer | Ethernet printer communication | | |
| P5 | | | Hardware Ass | | Hardware Assistant Setting | **Admin password is required to enter administrator's password: 200806** | |
| | P51 | | Hardware Ass | Set Password | Hardware: setting password | | |
| | | P511 | Set Password | Admin | Admin : Admin password | | |
| | | P512 | Set Password | Sale | Sale : Sale password | | |
| | | P513 | Set Password | Prog | Prog : Prog password | Input same passwords 2 times to complete amendment of password. | |
| | | P514 | Set Password | Acciybt | Account : Account password | | |
| | | P515 | Set Password | Drawer | Drawer : Drawer password | | |
| | P52 | | Hardware Ass | TMS Default | Hardware: Recover factory default | | |
| | | P521 | TMS Default | Parameter Default | Fac-Set : Scale parameter(P1x) | | |
| | | P522 | TMS Default | Restore Factory Default | Base-DT : Default working data(P2x default) | The interface that requires to input validate code would be shown before default setting. Input 9958 to finish setting. | |
| | | P523 | TMS Default | Database Default | EraseDT : All working data(P2x) | | |
| | | P524 | TMS Default | All Default | Fac-All : All parameters and data(P2x) | | |

## 5.3 The Edit of All Parts in TMSet

### 5.3.1 Time Programme

Example 5-1 Time Programme

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Enter programme | 【Mode】 | P1　　　　　　　Prog<br>Parameter | |
| Enter time edit menu | 【1】【1】 | 2009-07-04<br>10:16:54<br>Saturday | |
| | …… | | Input Data & Time |
| Save time | 【Amend】 | | |

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| Return to sale | 【Cancel】 | | |

**5.3.2** Programme of Spec Parameters

Example 5-2 Programme of Spec parameters

Modify Spec000 to 2, Spec 002 to 77, Spec040 to 99, this is just example for modifying data, not consult data's meaning.

| Operations | Keys | Display | | Remarks |
|---|---|---|---|---|
| 『Sale Idle』 | | | | |
| Enter programme | 【Mode】 | P1<br>Parameter | F-Prog | |
| Enter Spec | 【1】【2】 | P12<br>Spec<br>Original<br>Target | F-Prog<br>0<br>1<br>1 | |
| Change to 2 | 【2】 | P12<br>Spec | F-Prog<br>2 | Using【←】【→】 can only |
| Enter Spec002 | 【→】【→】 | Original<br>Target | 20<br>20 | get to amend items in<br>Spec amend level 0. |
| Change to 77 | 【7】【7】 | P12<br>Spec<br>Original<br>Target | F-Prog<br>2<br>20<br>77 | |
| Choose steps directly | 【×】 | P12<br>Spec | F-Prog<br>40 | |
| Input step 40 | 【4】【0】 | | | |
| Confirm step | 【Confirm】 | P12<br>Spec<br>Original<br>Target | F-Prog<br>40<br>0<br>0 | The input number of step<br>must be in Spec amend<br>level 0 or 1. If not, the<br>step cannot be reached. |
| Change to 99 | 【9】【9】 | | | |
| Save | 【Amend】 | | | Saved to the device |
| Exit | 【Cancel】 | | | |

**N o t e  1** The way it programmes is the same as the way in *Spec data parameter(Prog 3-4)* in page 11, except the way it enters programme page.

**N o t e  2** Please refer to *Spec data parameter* in page 57 for definitions of all items of Spec data parameters.

### 5.3.3 Programme of Text Parameters

Example 5-3 Programme of Text Parameters

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Enter programme | 【Mode】 | P1　　　　　　　Prog<br>Parameter | |
| Enter text parameter | 【1】【3】 | P13　　　　　　Prog<br>String　　　　　　　0<br>Shop Name | |
| Switch to device name | 【→】 | P13　　　　　　Prog<br>String　　　　　　　1<br>Device Name | |
| Switch to store name | 【←】 | P13　　　　　　Prog<br>String　　　　　　　0<br>Shop Name | |
| Set name | 【Confirm】 | 　　　　　Overwrite<br><br>Lowercase | Enter text edit menu |
| Input "Shop" | 【Shift】【s/S】 | 　　　　　Overwrite<br>Shop<br>Lowercase | |
| | 【h】【o】【p】 | | |
| Save editing text | 【Amend】 | | |
| Exit | 【Cancel】 | | |

**N o t e  1**  Please refer to 7.3 *Definitions of String Paremeters* for definitions of each text parameter.

### 5.3.4 Programme of PLU Shortcut Keys

Example 5-4 Programme of PLU Shortcut Keys

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Enter programme | 【Mode】 | P1　　　　　　　Prog<br>参数 | |
| Enter PLU shortcut key | 【1】【4】 | P14　　　　　　Prog<br><br>Key No.　　　　　1-1<br>PLU No.　　　　　　0 | |

| Operations | Keys | Display | | Remarks |
|---|---|---|---|---|
| Input PLU number | 【1】【0】 | P14　　　　　　Prog<br><br>Key No.　　　　1-1<br>PLU No.　　　　　10 | | |
| Save directly | 【Amend】 | | | Save to the device |

**Note 1** The way it programmes is the same as the way of Example 3-2 and Example 3-3 in page 11, except the way it enters programme interface.

## 5.4 The Edit of All Parts in DTSet

### 5.4.1 Department Programme

The department (Dept. for short) is the largest category in sales statistics. And it's marked with number from 1 to 99 and the corresponding meanings are shown below:

| Number | Use | Instructions |
|---|---|---|
| 1 | System Dept. | Not edited weight Dept. |
| 2 | System Dept. | Not edited count Dept. |
| 8 | System Dept. | Error Dept. |
| 9 | Default Dept. | Default Dept. for Class editing |
| 10~99 | User Dept. | Dept. that users can edit |

Example 5-5 Department Programme

| Operations | Keys | Display | | Remarks |
|---|---|---|---|---|
| 『Sale Idle』 | | | | |
| Enter programme | 【Mode】 | P1　　　　　　　Prog<br>Parameter | | |
| Enter Dept. programme | 【2】【1】 | P21　　　　　　Prog<br>Edit Step　　　　0<br>Dept. No.<br>　　　　　　　　0 | | |
| Enter number 10 | 【1】【0】 | P21　　　　　　Prog<br>Edit Step　　　　1 | | |
| Next | 【→】 | Dept. No. | | |
| Edit department name | | | | Department names would usually not be printed. And they are always used for management in PC. So editing their names is of little meaning. Here we skip it off. |
| Save editing data | 【Amend】 | | | Continue to edit other |
| Exit | 【cancel】 | | | |

### 5.4.2 Class Programme

Class is the second largest category in sales statistics. And it is marked with number from 1 to 99 and the corresponding meanings are shown below:

| Number | Dept. | Use | Instructions |
|---|---|---|---|
| 1 | 1 | System Class | Not edited weight Class |
| 2 | 2 | System Class | Not edited count Class |
| 8 | 8 | System Class | Error Class |
| 9 | 9 | Default Class | Default Class for PLU editing |
| 10~99 | | User Class | Class that users can edit |

Example 5-6 Class Programme

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Enter programme | 【Mode】 | P1　　　　　　　Prog<br>Parameter | |
| Enter class programme | 【2】【2】 | P22　　　　　　Prog<br>Edit Step　　　　　0<br>Class No.<br>　　　　　　　　0 | |
| Input class number 10 | 【1】【0】 | P22　　　　　　Prog<br>Edit Step　　　　　1<br>Class Name | |
| Next | 【→】 | | |
| Edit class name | | | Class names would usually not be printed. And they are always used for management in PC. So editing their names is of little meaning. Here we skip it off. |
| Next | 【→】 | P22　　　　　　Prog<br>Edit Step　　　　　2<br>Parent Dept.<br>　　　　　　　　0 | |
| Input 10 | 【1】【0】 | | |
| Save editing class | 【Amend】 | | Save department |
| Exit | 【Cancel】 | | |

### 5.4.3 PLU Programme

Price-LookUp is information cell for goods sale. Serial number of PLU, as the unique sign of device store PLU, is defined by user to correspond to actual goods. Remark number, as the number defined by users or the serial number of actual goods, is often printed as barcode. All the serial numbers which can be edited by users are from 1 to 9999999. And special serial numbers are corresponding to the meanings shown below:

| Internal Number | Number | Class | Use | Instructions |
|---|---|---|---|---|
| 1 | 9999999 | 1 | System PLU | Not edited weight PLU |
| 2 | 9999998 | 2 | System PLU | Not edited count PLU |
| 3 | 9999997 | 3 | System PLU | Service charge PLU |
| 10~5999 | 1~9999996 | | User PLU | PLU for users to edit |

Example 5-7 PLU Programme

| Operations | Keys | Display | | Remarks |
|---|---|---|---|---|
| 『Sale Idle』 | | | | |
| Enter programme | 【Mode】 | P1<br>Parameter | Prog | |
| Enter PLU programme | 【2】【3】 | P23<br>Edit Step<br>PLU No. | Prog<br>0<br><br>0 | |
| PLU Number | 【1】【0】 | P23<br>Edit Step | Prog<br>1 | Number are between 1～9999999 |
| Go to Next | 【→】 | Note Number<br>0 | | |
| Input Note | 90001 | P23<br>Edit Step | Prog<br>3 | Usually use for distinguish number of cargo, please keep that identical with the barcode lable printing scale. |
| Go to Next | 【→】 | Unit<br>0 | | |
| Input Unit | 【2】<br>（If don't input, count unit 2 is default one） | | | 【0】，【1】, default weight unit;<br><br>【2】: default count unit;<br><br>【3】: kg weight unit;<br><br>【4】: g weight unit;<br><br>【5】: ton weight unit;<br><br>【6】: lb weight unit;<br><br>【7】: 500g weight unit;<br><br>【8】: 100g weight unit;<br><br>unit 20~29 is count unit, unit inturns: pcs,box,package,case,fleck,copy,gross,loaf,set,team Detailed pls refer to unit chapter.<br>Default weight unit mean the unit used for display. And it I suggested for weight PLU. |
| Go to Next | 【→】 | P23<br>Edit Step<br>Unit Price<br>0.00 | Prog<br>4 | |

| Operations | Keys | Display | | Remarks |
|---|---|---|---|---|
| Set U.Price | 【3】【0】【00】 | P23　　　　　　Prog<br>Edit Step　　　　　5 | | Default U.Price in sale. Don't have to input it. Users can temporarily input it in sale. |
| Go to Next | 【→】 | Cost<br>　　　　　　　0.00 | | |
| Set cost | 【2】【0】【00】 | P23　　　　　　Prog<br>Prog No　　　　　14 | | Use for calculate payoff cost, can not input |
| Go to Next | 【→】 | Name | | |
| Set name | 【Confirm】 | 　　　　　Overwrite<br><br>Lowercase | | Enter text edit menu |
| Input Pork | 【Shift】【p/P】 | 　　　　　Overwrite<br>　Pork<br>Lowercase | | |
| | 【o】【r】【k】 | | | |
| Save edited text | 【Amend】 | P23　　　　　　Prog<br>Edit Step　　　　14<br>Cargo Name | | This 【Amend】 is to save text edit in buffers instead of PLU. Please pay attention: If users need save it in PLU, users need to press 【Amend】 again as the step below. |
| Save edited PLU | 【Amend】 | | | PLU10 is saved. |
| Return to sales | 【Cancel】 | | | |

**Note 1** Except the parts which have been instructed, meaning of the other words are listed *List of Programme Interface* in page 46

**Note 2** The way it programmes is the same as the way Fast-Prog of Example 3-1 in page 9, except the way it enters programme page.

**Note 3** xx is not continuous when users press 【←】 and 【→】 to select the programme content. There are two reasons. First reason is that the content in this part is meaningless. For example, tare is not present in count PLU programme. The second reason is that the content in that part is seldom used and has been set as non-programme content (Skip) in P31 and P32. Users could change that setting for personel usage and please refer to corresponding chapters for details.

**5.4.4** Unit Programme

Unit is the basis of sale price. The scale has shielded parts of functions in consideration that edit of units may cause unnecessary trouble. The 8 units edited when when the scale is released from factory are shown as below:

| Number | Instructions |
|---|---|
| 1 | Default weight unit |
| 2 | Default count unit |

| Number | Instructions |
|--------|-------------|
| 3 | Kg unit |
| 4 | g unit |
| 5 | ton unit |
| 6 | lb unit |
| 7 | 500g unit |
| 8 | 100g unit |
| 9~19 | System reserved unit |
| 20~99 | Unit for user to add |

**Note 1** Default weight unit is the measure unit of the scale. Cash register do not have weighing module; this concept is to compatible with other cash register weighing series products.

Example 5-8 Unit Programme

| 操作 | 按键 | 显示 | 备注 |
|------|------|------|------|
| 『Sale Idle』 | | | |
| Enter programme | 【Mode】 | P1　　　　　　　　Prog<br>参数 | |
| Enter unit programme | 【2】【4】 | P24　　　　　　　Prog<br>Edit Step　　　　　　0<br>Unit No.<br>　　　　　　　　　　　0 | |
| Enter number 30 | 【3】【0】 | P21　　　　　　　Prog<br>Edit Step　　　　　　1<br>Unit Name | |
| Next | 【→】 | | |
| Set unit name | 【Confirm】 | | Unit name printed as unitage |
| Clear orginal text | 【End】 | | |
| Input bag | 【b/B】【a/A】【g/G】 | | |
| Save editting text | 【Amend】 | | Save unit name to buffer |
| Save editing unit | 【Amend】 | | Go on edit other unit |
| Exit | 【Cancel】 | | |

**Note 1** Now only open the single count unit, so you can not edit the unit's sort and packing number

### 5.4.5 Barcode Programme

Programme the barcode on the cash register is just to let the cash register machine can recognize the barcodeaccoring to special barcode format and read the commodity information from the barcode.

Barcodes have different meanings in various applications and coding systems. Some barcodes are already edited when the scale is released from factory. Users could choose some barcodes from them to use or edit the barcode for themselves.

| Number | Use | Instructions |
|--------|-----|--------------|
| 1~9 | Factory Default | Already edited when the scale is released from factory |
| 10~99 | User's barcode | Barcode that can be edited by users |

Example 5-9 Barcode Programme

| Operations | Keys | Display | Remarks |
|------------|------|---------|---------|
| 『Sale Idle』 | | | |
| Enter programme | 【Mode】 | P1　　　　　　　　Prog<br>Parameter | |
| Enter barcode programme | 【2】【5】 | P25　　　　　　　Prog<br>Edit Step　　　　　0<br>Barcode No.<br>　　　　　　　　　　0 | |
| Enter number 10 | 【1】【0】 | P25　　　　　　　Prog<br>Edit Step　　　　　1<br>Barcode Name | Barcode names would usually not be printed. And they are always used for management in PC. So editing their names is of little meaning. Here we skip it off. |
| Next | 【→】 | | |
| Edit names | | | |
| Next | 【→】 | | |
| Next | 【→】 | | |
| Next | 【→】 | | |
| Next | 【→】 | | |
| Next | 【→】 | P25　　　　　　　Prog<br>Edit Step　　　　　6<br>Barcode Detail | Barcode descriptions should be in exact appointed format and edit a text with the length of 24. Otherwise the format would be invalid when it's printed.<br>Please refer to the content of Table 5-3 *Descriptions of Barcode Data Items* and Table 5-4 *Factory Default Barcode* |
| Edit the descriptions of barcodes | …… | | |
| Save | 【Amend】 | | |

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| Exit | 【Cancel】 | | |

Table 5-1  List of Barcode Types

| Barcode formats | Instruction | Valid number digit (Suggest) |
|---|---|---|
| 0 | Default | |
| 1 | EAN13 | 12 |
| 2 | EAN8 | 7 |
| 3 | UPC A | 11 |
| 4 | UPC E | 6 |
| 5 | EAN-128 | Even or Odd with Checksum |
| 6 | Code-128C | Even or Odd with Checksum |
| 7 | ITF-25 | Even or Odd with Checksum |

**N o t e  1** When select default, it will auto select the most reasonable barcode format according to valid number digit

**N o t e  2** When print EAN-128, Code-128C or ITF-25, if length of number is odd number, it will auto add one checksum at the end. The arithmetic is same as EAN/UPC checksum

Table 5-2  Check Digit of Barcode

| Check ways | 0 | All checks |
|---|---|---|
| | 1 | End Check |
| | 2 | Middle Check |
| | 3 | Not check |

**N o t e  1** Check digit of barcode for barcode formats is just an advice for the scale. The scale would process the check based on the selected barcode format. For example, EAN13 is verified by End Check no matter which kind of check is selected.

Table 5-3  Descriptions of Barcode Data Items

| Items | Restrictions | Instructions | |
|---|---|---|---|
| Data Source | A~Z | A | Not print |
| | | B | Spec Flag |
| | | C | Constant Num 1 |
| | | D | Constant Num 2 |
| | | E | PLU Number |
| | | F | PLU Note |
| | | G | PLU Index |
| | | H | PLU Flag |
| | | I | PLU real U.Price |
| | | J | PLU count/weight |
| | | K | PLU T.Price |
| | | L | Sale T.Price |
| | | M | Sale T.Count |
| | | N | Sale T.Weight |
| | | L | Add-up Times |
| | | P | Sales man number |
| | | Q | Sale date: year |

| Items | Restrictions | Instructions | |
|---|---|---|---|
| | | R | Sale date: month |
| | | S | Sale date: date |
| display Length | 0~9 | Print length 0~9 | |
| Data Shift | 0~9 | Move to right 0~9 digits | |
| Overflow management | 0~3 | 0: not print | |
| | | 1: truncation print | |
| | | 2: fill in with character 0 | |
| | | 3: fill in with character 9 | |

Table 5-4  Factory Default Barcode

| Number | Name | Descriptions | Use | Instructions |
|---|---|---|---|---|
| 1 | B-Item 1 | B201E500K500A000A000A000 | Item barcode | 2 digits Spec Flag, 5 digits PLU Number, 5 digits PLU T.Price. |
| 2 | B-Item 2 | B201F500K500A000A000A000 | Item barcode | 2 digits Spec Flag, 5 digits PLU Note, 5 digits PLU T.Price. |
| 3 | B-Item 3 | F700K500A000A000A000A000 | Item barcode | 7 digits PLU Note, 5 digits PLU T.Price. |
| 4 | B-Item 4 | B201E400K600A000A000A000 | Item barcode | 2 digits Spec Flag, 4 digits PLU Number, 6 digits PLU T.Price. |
| 5 | B-Item 5 | B201F400K600A000A000A000 | Item barcode | 2 digits Spec Flag, 4 digits PLU Note, 6 digits PLU T.Price. |
| 6 | B-Item 6 | F600K600A000A000A000A000 | Item barcode | 6 digits PLU Note, 6 digits PLU T.Price. |
| 7 | B-Sum 1 | B701L500A000A000A000A000 | Total barcode | 7 digits Spec Flag, 5 digits Sale T.Price. |
| 8 | B-Sum 2 | B601L600A000A000A000A000 | Total barcode | 6 digits Spec Flag, 6 digits Sale T.Price. |
| 9 | B-Sum 3 | B501L700A000A000A000A000 | Total barcode | 5 digits Spec Flag, 7 digits Sale T.Price. |

**5.4.6** Print Formats Programme

| Number | Use | Instructions |
|---|---|---|
| 1~9 | Factory default | Already edited when the scale is released from factory |
| 10~39 | User's print format | Print format can be edited by users |

Different print formats are needed in various applications. Some print types are already edited when the scale is released from factory. Users could choose some formats from them or edit the format for themselves. **It's very hard to edit print format on the scale. Suggest users do not edit print format on the scale.**

This chapter would not offer any examples about print formats edit. Users should use the software on PC to edit print formats or write down demands and send them to us. We will edit the print format you need.

Table 5-5  Factory Default Print Formats

| Number | Format type | Suitable paper | Instructions |
|---|---|---|---|
| 1 | Receipt | 48mm | Print PLU number |

| 2 | Receipt | 48mm | Print cargo number |
|---|---------|------|--------------------|
| 3 | Receipt | 48mm | PLU name newline mode |
| 4 | Receipt | 48mm | Large font mode |
| 8 | List | 48mm | Cookroom list |
| 9 | List | 48mm | Cookroom list, large font mode |

If user really need to edit print format on the scale, please refer to 5.2.3 *List of Programme Interface* of P26 print format, following table are example to user refer:

Table 5-6   Print format:sub-item instruction

| Print Item | Name | Sort | Length | Number Range | Instruction |
|-----------|------|------|--------|-------------|-------------|
| Item No. | Number | Number | 1 | 0~99 | Unique number with order |
| Sign 1 | Flag1 | Code | 1 | | |
| Sign 2 | Flag2 | Code | 1 | Refer to later table | |
| Sign 3 | Flag3 | Code | 1 | | |
| Print State | Print | Code | 1 | 0~255 | 0: Not Print |
| | | | | | 1: Print |
| | | | | | 2: By-weight PLU print |
| | | | | | 3: By-count PLU print |
| | | | | | 4: Temporary PLU print |
| | | | | | 5: Tared PLU print |
| | | | | | 6: Free PLU print |
| | | | | | 7: Print with sale date |
| | | | | | 8: Print with packing date |
| | | | | | 9: Print with shelf date |
| | | | | | 10: Not 1pcs PLU print |
| | | | | | 11: Item service charge print |
| | | | | | 12: Service charge print |
| | | | | | 13: Taxed PLU print |
| | | | | | Other: not defined |
| Angle | Angle | Code | 1 | 0~3 | Clockwise rotation: Angle*90 |
| Snap to grid | Grid | Code | 1 | 0~9 | 1~9: 9 position, 0: default |
| Font | CFont | Code | 1 | 3~5 | Version before V2.03 |
| | | | | 0~9 | Version after V2.03 and V2.03 |
| X Position | S-X | Coordinate | 2 | 0 ~ 65535 | Start coordinate for print area |
| Y Positon | S-Y | | 2 | 0 ~ 65535 | |
| Width | L-X | Coordinate | 2 | 0 ~ 65535 | Height and width for print area |
| Height | L-Y | | 2 | 0 ~ 65535 | |

Table 5-7   Print format:Sub-item code

| Flag1 | | Flag2 | | Flag3 | | |
|-------|---------|-------|--------------|-------|-------|---|
| Code | Content | Code | Content | Code | Content | |
| 0 | Barcode | 0 | Readable | | | Flag3 blank means no effect. Followed are the same |
| | | 1 | Not Readable | | | |
| 1 | Item Info | 0 | X | 0 | Name | 'X' in Flag2 means print all cargo in turn. If Flag2 = 3, it means print the information for the third accumulate cargo's |
| | | 1 | 1 | 1 | Amount | |
| | | 2 | 2 | 2 | Tare | |
| | | 3 | 3 | 3 | First Unit Price | |
| | | 4 | 4 | 4 | Payable Unit Price | |
| | | 5 | 5 | 5 | Price | |

| | | 6 | 6 | 6 | PLU Number | |
|---|---|---|---|---|---|---|
| | | 7 | 7 | 7 | Class Number | |
| | | 8 | 8 | 8 | Dept. Number | |
| | | 9 | 9 | 9 | Index | |
| | | 10 | 10 | 10 | Note | |
| | | 11 | 11 | 11 | Sale Date | |
| | | 12 | 12 | 12 | Sale Time | |
| | | 13 | 13 | 13 | Package Date | |
| | | 14 | 14 | 14 | Package Time | |
| | | 15 | 15 | 15 | Shelf Date | |
| | | … | … | 16 | Text 1 | |
| | | 18 | 18 | 17 | Text 2 | |
| | | 19 | 19 | 18 | Text 3 | |
| | | 20 | 20 | 19 | Text 4 | |
| | | 21 | 21 | 20 | Text 5 | |
| | | 22 | 22 | 21 | Text 6 | |
| | | 23 | 23 | 22 | Text 7 | |
| | | 24 | 24 | 23 | Gross | |
| | | 25 | 25 | 24 | Measure Unit | |
| | | 26 | 26 | 25 | Price Unit | |
| | | 27 | 27 | 26 | Price without Tax | |
| | | 28 | 28 | 27 | Tax | |
| | | 29 | 29 | 28 | Item Service Fee | |
| | | 30 | 30 | 29 | Tax Rate | |
| | | 31 | 31 | 30 | PLU No and Name | |
| 2 | Sale Info | 0 | Store Name | | | |
| | | 1 | Device Name | | | |
| | | 2 | Device Number | | | |
| | | 3 | Print Date | | | |
| | | 4 | Print Time | | | |
| | | 5 | Add-up Times | | | |
| | | 6 | Total Count | | | |
| | | 7 | Total Weight | | | |
| | | 8 | Total Price | | | |
| | | 9 | Payment | | | |
| | | 10 | Change | | | |
| | | 11 | Rounding Money | | | |
| | | 12 | Unit of Weight | | | |
| | | 13 | Unit of Weight Price | | | |
| | | 14 | Unit of Count | | | |
| | | 15 | Unit of Count Price | | | |
| | | 16 | Unit of Money | | | |
| | | 17 | Device Postil 1 | | | |
| | | 18 | Device Postil 2 | | | |
| | | 19 | Device Postil 3 | | | |
| | | 20 | Device Postil 4 | | | |
| | | 21 | Device Postil 5 | | | |
| | | 22 | Device Postil 6 | | | |

| | | 23 | Device Postil 7 | | | |
|---|---|---|---|---|---|---|
| | | 24 | Device Postil 8 | | | |
| | | 25 | FID | 0~8 | Least Digital | |
| | | 26 | SID | 0~8 | Least Digital | |
| | | 27 | Net Price | | | |
| | | 28 | Gross Price | | | |
| | | 29 | Money of Discount and Rounding | | | |
| | | 30 | Salesman No. | | | |
| | | 31 | Salesman Name | | | |
| | | 32 | Total Price without Tax | | | |
| | | 33 | Total Tax | | | |
| | | 34 | Waiter Number | | | |
| | | 35 | Waiter Name | | | |
| | | 36 | Text of Item Service Fee | | | |
| | | 37 | Text of Service Fee | | | |
| | | 38 | Industry Mark | | | |
| | | 39 | Reserved 4 | | | |
| | | 40 | Reserved 5 | | | |
| | | 41 | Reserved 6 | | | |
| | | 42 | Reserved 7 | | | |
| | | 43 | Reserved 8 | | | |
| | | 44 | Service Fee | | | |
| | | 45 | Tax of Service Fee | | | |
| | | 46 | Service Fee without Tax | | | |
| | | 47 | Buffer Number | | | |
| 3 | Const Text | 0~15 | 0~15 | | | Flag2 is text series number |
| 4 | Outline Border | 1~24 | 1~24 | | | Flag2 is outline boarder thickness |
| 5 | Partition | 0 | Area Flag | 0 ~32 | 0mm~32mm | |
| | | 1 | Page Print | | | |
| | | 2 | Line Print | | | |

### 5.4.7 Salesman Programme

Example 5-10 Salesman Programme

| Operations | Keys | Display | | Remarks |
|---|---|---|---|---|
| Enter programme | 【Mode】 | P1 Parameter | Prog | |
| Enter salesman programme | 【2】【7】 | P27 Edit Step Salesman No. | Prog 0 0 | |
| Enter 10 | 【1】【0】 | P27 Edit Step | Prog 1 | |

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| Next | 【→】 | Salesman Name | |
| Edit name | | | Omit the process |
| Next | 【→】 | P27　　　　　　Prog<br>Edit Step　　　　　2<br>Password | |
| Enter password | …… | | |
| Save | 【Amend】 | | Save Dept. |
| Exit | 【Cancel】 | | |

**N o t e　1** Number 1~99 is the content for users to edit.

## 5.5 Assistant Data Programme

### 5.5.1 Steps Select of PLU Programme

Example 5-11 Steps Select of PLU Programme

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Enter programme | 【Mode】 | P1　　　　　　　Prog<br>Parameter | |
| Enter step selection of PLU prog | 【3】【1】 | P31　　　　　　Prog<br>Edit Step　　　　　0<br>PLU No.<br>　　　　　　　0: Prog | |
| Select step: Note | 【→】 | P31　　　　　　Prog<br>Edit Step　　　　　1<br>Note<br>　　　　　　　0: Prog | |
| Select step: Index | 【→】 | P31　　　　　　Prog<br>Edit Step　　　　　2<br>Index<br>　　　　　　1: Not Prog | |
| Enable step: Index | 【0】 | P31　　　　　　Prog<br>Edit Step　　　　　2<br>Index<br>　　　　　　　0: Prog | |
| Select step: Unit | 【→】 | P31　　　　　　Prog<br>Edit Step　　　　　3<br>Unit<br>　　　　　　　0: Prog | |

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| Select step: U.Price | 【→】 | P31　　　　　　Prog<br>Edit Step　　　　4<br>U.Price<br>　　　　　　0: Prog | |
| Select step: Cost | 【→】 | P31　　　　　　Prog<br>Edit Step　　　　5<br>Cost<br>　　　　　　0: Prog | |
| Disable step: Cost | 【1】 | P31　　　　　　Prog<br>Edit Step　　　　5<br>Cost<br>　　　　1: Not Prog | |
| Save | 【Amend】 | | |
| Exit | 【cancel】 | | |

**Note 1** The steps above activate steps index and shield steps cost. And then there is a step to input index in the programme of P23, but no step to input cost. Select Prog or Skip by pressing 【0】 or 【1】 . If Prog is selected, the step is in the programme. If Skip is selected, the step is skiped and not in programme.

**Note 2** Amended content would be in effect only in PLU programme and not effective in fast-prog.

### 5.5.2 Steps Select of PLU Fast Programme

The processes are the same as Example 5-11 only if amended contents only work in PLU fast-prog instead of PLU programme.

### 5.5.3 Delete Sale Data

When entering the interfaces of delete, users would be requested to receive validate code. Validate code is 9958. Confirm and enter delete process.

Example 5-12 Delete PLU20～30

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Enter programme | 【Mode】 | P1　　　　　　Prog<br>Parameter | |
| Enter delete menu | 【3】【3】 | P331　　　　　Prog<br>Parameter<br>Delete<br>Dept. | |
| Input & confirm validate code | 【9】【9】【5】【8】 | | |
| | 【Confirm】 | | |

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| Select to delete PLU | 【3】 | Input 2-1<br><div align="right">0</div> | |
| Input start number | 【2】【0】【Confirm】 | Input 2-2<br><div align="right">0</div> | |
| Input end number | 【3】【0】【Confirm】 | Please wait | |
| Exit | 【Cancel】 | | |

**N o t e 1** Once confirming to delete object, users shall be requested to input 2 numbers. And system would delete data objects in the range between the two numbers. If the $2^{nd}$ number is 0, the object appointed by $1^{st}$ number is deleted. If $2^{nd}$ number is less than $1^{st}$ number, no object is deleted.

## 5.6 Communication and Data Update

### 5.6.1 Operations of files in USB flash Disk.

Data edited on PC could transfer by USB flash disk.

The software would create a file in the directory of JHSCALE when exporting a file to USB flash disk.

If users export auto-update file, the form of file is A_xxx.TMS. If the scale has set USB flash disk auto-update (factory default setting), after switch on, the scale would update the data when system detects the file in USB flash disk

In P51, press 【×】 to select auto-update file A_xxx.TMS, or input number to select numbered files from

A_000.TMS to A_999.TMS (The number is file serial number ). Press 【Confirm】 to load file data and update the

information in the scale. Or press 【Amend】 to save scale information to appointed file.

Example 5-13 Load Files in USB Flash Disk

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Enter programme | 【Mode】 | P1           Prog<br>Parameter | |
| Enter operation of USB flash disk | 【4】【1】 | P41        Prog<br>Communication<br>U-Disk<br><div align="right">000</div> | |

| Operations | Keys | Display | | Remarks |
|---|---|---|---|---|
| Appoint auto-update file | 【×】 | P41 　　　　　Download<br>Communication<br>U-Disk<br>　　　　　　　　xxx | | |
| Load files | 【Confirm】 | P41 　　　　　Download<br>Errors 　　　　　　0<br>Bytes 　　　　　　0<br>Success 　　　　　0 | | |
| Several seconds | | P41 　　　　　Download<br>Errors 　　　　　　0<br>Bytes 　　　　　215<br>　　　　Finish | | |
| Exit | 【Confirm】 | | | |
| Exit | 【Cancel】 | | | |

**Note 1** If file is loading ends normally, system would change the state into Finish. Normally, the amount of error commands should be 0.

**Note 2** If system encounters with invalid files or other serious mistakes, change the state into Error.

**Note 3** In the state of Finish or Error, press any key to exit. If users want to exit midway, press 【Cancel】.

Example 5-14 Save working data to Files in USB Flash Disk

| Operations | Keys | Display | | Remarks |
|---|---|---|---|---|
| 『Sale Idle』 | | | | |
| Enter programme | 【Mode】 | P1 　　　　　　　Prog<br>Parameter | | |
| Enter operation of USB flash disk | 【4】【1】 | P41 　　　　　　　Prog<br>Commu<br>U-Disk<br>　　　　　　　　000 | | |
| Appoint numbered file | 【1】 | P41 　　　　　　Upload<br>Commu<br>U-Disk<br>　　　　　　　　001 | | |
| Save file | 【Amend】 | P41 　　　　　　Upload<br>Success 　　　　　0<br>Target 　　　　　　0<br>Number 　　　　　0 | | |
| Several seconds | | P41 　　　　　　Upload<br>Success 　　　　　0<br>Target 　　　　　　0<br>　　　　Finish | | |

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| Exit | 【Confirm】 | | |
| Exit | 【cancel】 | | |

**Note 1** Exporting data to files in USB flash disk may take a lot of time. Please wait.

**Note 2** Press any key to exit when saving is ended. If users want to exit midway, press 【Cancel】.

Example 5-15 Save sale list to Files in USB Flash Disk

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Enter programme | 【Mode】 | P1           Prog<br>Parameter | |
| Enter operation of USB flash disk | 【4】【1】 | P41         Prog<br>Commu<br>U-Disk<br>              000 | |
| Appoint numbered file | 【2】 | P41       Upload<br>Commu<br>U-Disk<br>              002 | |
| Save file | 【PLU】 | P41       Upload<br>Success       0<br>Target         0<br>Number       0 | |
| Several seconds | | P41       Upload<br>Success       0<br>Target         0<br>        Finish | |
| Exit | 【Confirm】 | | |
| Exit | 【cancel】 | | |

**Note 1** Exporting data to files in USB flash disk may take a lot of time. Please wait.

**Note 2** Press any key to exit when saving is ended. If users want to exit midway, press 【Cancel】.

**5.6.2** Ethernet Monitor Interface

Example 5-16 Enter Ethernet Monitor Interface

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |

| Operations | Keys | Display | | Remarks |
|---|---|---|---|---|
| Enter programme | 【Mode】 | P1 | Prog | |
| | | Parameter | | |
| Enter Ethernet monitor interface | 【4】【2】 | P41 | Download | |
| | | Errors | 0 | |
| | | Bytes | 0 | |
| | | Success | 0 | |
| Transfer upload and download | 【×】 | P41 | Upload | |
| | | Success | 0 | |
| | | Target | 0 | |
| | | Number | 0 | |
| Exit | 【cancel】 | | | |

**Note 1** This monitor interface is usually used when the scale is set to not update in real-time on Internet.

**5.6.3** RS232 Communications

The interface is similar to ethernet monitor interface. The enter way is to press 【Mode】【4】【3】 If want to process RS232 communication, must firstenter this interface

# 5.7 Hardware Assistant

**5.7.1** Validate Code

On the purpose of preventing any misoperation in important operation interfaces, users are requested to input validate code when entering these operation interfaces. The interface is shown below:

| | Input | Code | 0 |
|---|---|---|---|

Validate code of this scale is 9958. When the scale requests to input validate code, users should first make sure whether this operation interface is the one you intend to enter and understand the meaning of this operation. Then input validate code and do operations.

**5.7.2** Password

Password is the code to obtain the right to operate the scale. And there are 5 passwords in all.

| Amend steps | Types | Password type | Permission | Original password |
|---|---|---|---|---|
| P511 | Admin | Admin password | Hardware Assistant (P51) Sale interface Prog interface Account interface | 200806 Please keep it safe if users amend it. |
| P512 | Sale | Sale password | Sale interface | 0 |
| P513 | Prog | Program password | Prog interface | 0 |
| P514 | Account | Account password | Account interface | 0 |

| P515 | Drawer | Drawer password | press 【open drawer】 to operate | 0 |
|---|---|---|---|---|

**N o t e 1** That Password is 0 means no passwords needed. Users could set the password to be 0 when canceling the password.

**N o t e 2** Admin password is in a higher level than the other 4 passwords. Users do not need to input any password to enter all interface if admin password is 0 , no matter whether the other passwords are 0.

**N o t e 3** If users want to protect Prog interface or Account interface, first change the admin password other than factory default, then set passwords of corresponding interfaces.

**N o t e 4** Spec247's password hold function can let the device remember the entered password, then, user do not need to input the same password repeatedly

Example 5-17 Process of Amending Passwords

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Enter programme | 【Mode】 | P1            Prog<br>Parameter | |
| Enter hardware Assistant | 【5】 | P51           Prog<br>Hardware Ass<br>Set-PW | If there is no change for the password, the admin password should be 200806 |
| Input admin password | ……<br>【Confirm】 | | |
| Amend password | 【1】 | P51           Prog<br>Hardware Ass<br>Set Password<br>Admin | |
| Amend prog password | 【3】 | Input Password | 【1】: Admin password<br><br>【2】: Sale password<br><br>【3】: Prog password<br><br>【4】: Account password<br><br>【5】: 【Drawer】 password |
| Input password | …… 【Confirm】 | Input Again | |
| Repeat password | …… 【Confirm】 | | |

51

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| Exit | 【cancel】 | | |

**Note 1** Input password must match for two times so that password setting can be done.

### 5.7.3 Recover Factory Default Setting

Example 5-18 Process of Amending Passwords

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Enter programme | 【Mode】 | P1                    Prog<br>Hardware Ass | |
| Enter hardware Assistant | 【5】 | P51                   Prog<br>Hardware Ass<br>TMS Default | If user never change the password, the admin password should be 200806 |
| Input admin password | ……<br>【Confirm】 | | |
| Recovery factory default | 【2】 | P51                   Prog<br>Hardware Ass<br>TMS Default<br>Parameter Default | |
| Select the type to amend | 【4】 | Please wait | Here are 4 recovery types:<br><br>【1】 Scale parameter(P1x)<br><br>【2】 default working data<br><br>【3】 all working data(P2x)<br><br>【4】 all parameters and data |
| Input validate code | 【9】【9】【5】【8】<br><br>【Confirm】 | | |
| Return to sale mode | 【Cancel】 | | |

**Note 1** Please pay attention to this. Execute recovery 1 or 4, and then passwords would change to factory default.

**Note 2** If user amend the Spec irrelevantly, it will make scale do not work regularly, suggest user to executeP511

**Note 3** P524 will let the scale recover to factory default state (all user's data will be deleted)

# 6  Account Operations

## 6.1 List of Account Interfaces

Entering to Account interface, the scale would enter a calculate process, which first calculate sale records. Then enter A1 select interface.

Table 6-1   List of Account Interfaces

| Menus | Menu Prompt | | Instructions | Remarks | State |
|---|---|---|---|---|---|
| A1 | Total | | Total report | | |
| A11 | Total | Daily | Total daily report | | |
| A12 | Total | Monthly | Total monthly report | | |
| A13 | Total | Quarterly | Total quarterly report | | |
| A14 | Total | Manual | Total manual report | | |
| A2 | Dept. | | Department report | | |
| A21 | Dept. | Daily | Department daily report | | |
| A22 | Dept. | Monthly | Department monthly report | | |
| A23 | Dept. | Quarterly | Department quarterly report | | |
| A24 | Dept. | Manual | Department manual report | | |
| A3 | Class | | Class report | | |
| A31 | Class | Daily | Class daily report | | |
| A32 | Class | Monthly | Class monthly report | | |
| A33 | Class | Quarterly | Class quarterly report | | |
| A34 | Class | Manual | Class manual report | | |
| A4 | PLU | | PLU report | | |
| A41 | PLU | Daily | PLU daily report | | |
| A42 | PLU | Monthly | PLU monthly report | | |
| A43 | PLU | Quarterly | PLU quarterly report | | |
| A44 | PLU | Manual | PLU manual report | | |
| A5 | Clear | | Clear report | | |
| A51 | Clear | Manual Report | Clear current manual report information | | |
| A52 | Clear | All Report | Clear all reports and records information | | |
| A53 | Clear | Stock Report | Clear stock report information | | |
| A54 | Clear | SID Info | Clear SID information, reset to 0 | | |
| A6 | Stock | | Stock report | | |
| A61 | Stock | Print | Stock print | | |
| A62 | Stock | Audit | Stock update | | |
| A7 | List | | Sale list report | | |
| A71 | List | Print | Sale list print | | |
| A8 | Salesman | | Salesman report | | |
| A81 | Salesman | Daily | Salesman daily report | | |
| A82 | Salesman | Monthly | Salesman monthly report | | |
| A83 | Salesman | Quarterly | Salesman quarterly report | | |
| A84 | Salesman | Manual | Salesman manual report | | |

## 6.2 Operations of Printing Report

### 6.2.1 Print Total Report

Total reports are divided into total daily report, total monthly report, total quarterly report and total manual

report. Each report owns 32 buffer zones (0~31).

Take total daily report as an example: The buffer zone 0 stores total daily report of current day; buffer zone 1 stores total daily report of the last day. The rest may be deduced by analogy. So buffer zone 31 stores total daily report of the day dating back to 31 days ago.

Total monthly report and total quarterly report works in the same way, storing total report of the last x months or quarters (x=0~31).

Total manual report would take operation A51 as time point to divide the storage. The buffer zone delays a position automatically when a report is cleared (That means: Buffer 31 records the information which was stored in buffer 30. By analogy, buffer 1 record the information which was stored in buffer 0 and information stored in buffer 0 is cleared. Then start accumulating in buffer 0. ).

When printing total report, system would request to input 2 numbers. And the scale would print total buffer which is added up with the buffers whose numbers are between the 2 input numbers.

Example 6-1 Print Daily Reports of Today and Yesterday

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Enter Account | 【Mode】<br><br>【Mode】 | A1　　　　　　　Account<br>Total | |
| Enter total report | 【1】 | A11　　　　　　Account<br>Total<br>Daily | 【1】：Total report<br><br>【2】：Dept. report<br><br>【3】：Class report<br><br>【4】：PLU report<br><br>【8】：Salesman report |
| Enter total daily report | 【1】 | Input　2-1 | 【1】：Daily report<br><br>【2】：Monthly report<br><br>【3】：Quarterly report<br><br>【4】：Manual report |
| Input start number | 【0】【Confirm】 | | Start from today. |
| Input end number | 【1】【Confirm】 | | End at yesterday. |
| | | | Print daily report of today. Note 4 |
| | | | Print daily report of yesterday. Note 4 |

| Operations | Keys | Display | Remarks |
|---|---|---|---|
|  |  |  | Print finish |
| Return to sale mode | 【Cancel】 |  |  |

**Note 1** If some buffers store no data, these buffers would be skiped off without printing.

**Note 2** If end number input is 0, system would only print the buffer appointed by start number.

**Note 3** If end number input is not 0 and less than start number, no buffer would be printed.

**Note 4** The hints about currently print object may appear on the screen for just a few moment when system is printing.

### 6.2.2 Print Department Report

The scale could print report of all departments. Operation steps are similar as *Print PLU Report*.

Only the step to enter is different and 2 input numbers is the department numbers.

### 6.2.3 Print Class Report

The scale could print reports of all Classes. Operation steps are similar as *Print PLU Report*.

Only the step to enter is different and 2 input numbers is the class numbers.steps

### 6.2.4 Print PLU Report

The scale could print PLU reports whose number is less than 1000.

When printing PLU reports, system would orderly print those PLU reports whose serial numbers is between the 2 input numbers as well as the 2 input numbers.

Example 6-2 Print PLU Daily Reports with the Numbers from 10 to 20

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 |  |  |  |
| Enter Account | 【Mode】 【Mode】 | A1　　　　　　　Account total |  |
| Enter total report | 【4】 | A41　　　　　　Account PLU Daily | 【1】：Total report<br><br>【2】：Dept. report<br><br>【3】：Class report<br><br>【4】：PLU report<br><br>【8】：Salesman report |

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| Enter PLU daily report | 【1】 | Input 2-1 | 【1】: Daily report<br><br>【2】: Monthly report<br><br>【3】: Quarterly report<br><br>【4】: Manual report |
| Input start number | 【1】【0】【Confirm】 | | Start from PLU10. |
| Input end number | 【2】【0】【Confirm】 | | End to PLU20. |
| | | | Print daily report of PLU10. |
| | | | Print daily report of PLU11. |
| | | | …… |
| | | | Print finish |
| Return to sale mode | 【Cancel】 | | |

**N o t e  1** If some buffers store no data, these buffers would be skiped off without printing

**N o t e  2** If end number input is 0, system would only print the buffer appointed by start number.

**N o t e  3** If end number input is not 0 and less than start number, no buffer would be printed.

## 6.3 Clear Report Information

### 6.3.1 Clear Report Information Manually

The information in manual reports would not be cleared automatically unless users enter A51 (clear current manual report) interface to clear it. After this operation, manual reports of all departments, classes and PLU would be cleared, and total manual report would delay its serial number.

Example 6-3 Clear Information in Manual Report

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Enter Account | 【Mode】【Mode】 | | |
| Enter clear report | 【5】 | | |
| Clear manual report | 【1】 | | |
| Return to sale mode | 【Cancel】 | | |

**6.3.2** Clear All Reports and Records Information

Example 6-4 Clear All Reports and Records Information

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Enter Account | 【Mode】【Mode】 | | |
| Enter clear report | 【5】 | | |
| Clear manual report | 【2】 | | |
| Input validate code | 【9】【9】【5】【8】 | | |
| Confirm validate code | 【Confirm】 | | |
| Return to sale mode | 【cancel】 | | |

**Note 1** This operation would clear the records of all deals. And it's irreversible. Please operate it carefully

### 6.3.3 Clear stock information

Example 6-5 Clear stock information

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Enter Account | 【Mode】【Mode】 | | |
| Enter clear report | 【5】 | | |
| Clear manual report | 【3】 | | |
| Input validate code | 【9】【9】【5】【8】 | | |
| Confirm validate code | 【Confirm】 | | |
| Return to sale mode | 【cancel】 | | |

**Note 1** This operation would clear stock report. And it's irreversible. Please operate it carefully.

### 6.3.4 Reposition SID information

Example 6-6 Clear manual report

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Enter Account | 【Mode】【Mode】 | | |
| Enter clear report | 【5】 | | |

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| Clear manual report | 【4】 | | |
| Return to sale mode | 【cancel】 | | |

## 6.4 Stock Management

### 6.4.1 Stock Management

A6's stock report and A44's manual PLU report are choiceable（by Spec141）.

Stock report only support first 1000 saved PLU, if the real input PLU number >1000, the partial PLU can notprocess stock management

### 6.4.2 Stcok Print

When print stock report, it will clue to input 2 digits, scale will in turn print the stock report those PLU reports whose serial numbers is between the 2 input numbers as well as the 2 input numbers.

Example 6-7 Print stock Reports with the Numbers from 10 to 20

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Enter account | 【Mode】  【Mode】 | A1          Account Total | |
| Enter stock management | 【6】 | A61          Account Stock Print | |
| Enter stock print | 【1】 | Input 2-1 | |
| Input start number | 【1】【0】【Confirm】 | | Start from PLU10. |
| Input end number | 【2】【0】【Confirm】 | | End to PLU20. |
| | | | Print stock report of PLU10. |
| | | | Print stock report of PLU11. |
| | | | …… |
| | | | Print finished |
| Exit | 【cancel】 | | |

**N o t e  1** If some stock reports store no data, these buffers would be skiped off without printing

**N o t e  2** If end number input is 0, system would only print the buffer appointed by start number.

**N o t e  3** If end number input is not 0 and less than start number, no buffer would be printed.

### 6.4.3 Stock Audit

Example 6-8   Amend PLU10 stock to 100

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Enter account | 【Mode】<br><br>【Mode】 | A1　　　　　　　Account<br>Total | |
| Enter stock management | 【6】 | A61　　　　　　Account<br>Stock<br>Print | |
| Enter stock account | 【2】 | A61　　　　　　Account<br>PLU　　　　　　　　0 | |
| Enter PLU number | 【1】【0】<br><br>【Confirm】 | A61　　　　　　Account<br>PLU　　　　　　　10<br>Stock Volume<br>　　　　　　　　0 pcs | Pcs means default count unit.<br>When PLU is for weight, default stockunit is scale's unit kg |
| Enter stock quantity 100 | 【1】【0】【0】 | A61　　　　　　Account<br>PLU　　　　　　　10<br>Stock Volume<br>　　　　　　100 pcs | 【Amend】: amend stock to input number<br>【Confirm】: add input number to stock<br>【F-Prog】+【Confirm】: reduce input number from stock |
| Amend to the imput number | 【Amend】 | | |
| Return to sale mode | 【Cance】 | | |

**Note 1** Use 【F-Prog】+【PLU】 can amend the stock unit, make the weight PLU also with count stock. Generally do not suggest user use this function. Detailed refer to Spec142

## 6.5 List Print

### 6.5.1 Sale Log

When user sale in sale interface, sale data will be recorded. This recorded data is source of all account modes' Stat. Date. Device has about 6000～10000 location according to different device's configure. When the log is being over capability, device will delete oldest log according to FIFO rule.

### 6.5.2 List Print

Example 6-9 Intraday List Print

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Enter account | 【Mode】<br><br>【Mode】 | A1　　　　　　　Account<br>Total | |
| Enter list management | 【7】 | A71　　　　　　Account<br>List<br>Print | |
| Enter list print | 【1】 | A71　　　　　　account<br>List<br>Print<br>28 | Number 28 means there are total 28 records in this printing section |
| Start print | 【Confirm】 | | Wait to finish printing |
| Exit | 【Cancel】 | | |

Example 6-10 Appointed Time Period List Print

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| 『Sale Idle』 | | | |
| Enter account | 【Mode】<br><br>【Mode】 | A1　　　　　　　Account<br>Total | |
| Enter list management | 【7】 | A71　　　　　　Account<br>List<br>Print | |
| Enter list print | 【1】 | A71　　　　　　Account<br>List<br>Print<br>28 | Number 28 means there are total 28 records in this printing section |
| Enter time period | 【×】 | Time Start | |
| Enter start time | 【…】 | 2009-07-03<br>00:00:00<br>Friday | Enter yesterday's start time |
| | 【Confirm】 | Time End | |

| Operations | Keys | Display | Remarks |
|---|---|---|---|
| Enter finish time | 【…】 | 2009-07-04<br>23:59:59<br>Saturday | Enter today's finish time |
| | 【Confirm】 | A71　　　　　Account<br>List<br>Print<br>40 | Device will Stat. records in printing section according totime period: 40 |
| Start print | 【Confirm】 | | Wait to finish the printing |
| Exit | 【Cancel】 | | |

# 7  Appendix

## 7.1 Reference Table For Errors and Its Instructions

| Number | Alarm instructions | Methods to handle |
|---|---|---|
| E1.00 | Alarms for operations | |
| E1.01 | Prog data is invalid. | Input valid data again. |
| E1.02 | Input passwords of 2 times to amend password are different | Re-amend password, and make sure 2 times input are the same. |
| E1.03 | The selected print format do not exist | Set print format again |
| E1.10 | Sale at 0 price is forbidden. | The sale whose sell price is 0 is forbidden. Refer to Spec070. |
| E1.11 | Exceed the largest sale price. | Total price or grand total price of sold goods exceeds the largest sale price. |
| E1.12 | Need to return to zero point | Return to weight zero before sale. Refer to Spec069. |
| E1.13 | Exceed accumulative limit | The accumulative times are over buffer accumulat limit |
| E1.14 | There is data in buffer and cannot print in single. | Print the data in buffers first. Then print this sale or switch to other buffers. |
| E1.15 | No cashing mode, cannot executethe cashing operation. | The scale is set to be no cashing mode. Refer to Spec060. |
| E1.16 | Cashing mode with zero change default is forbidden. | Execute cashing operation afer inputing payment amount. Refer to Spec060. |
| E1.17 | Payment is less than sale price. | Charge enough money which is larger than sale price. |
| E1.23 | Discounted U.Price has to be less than discount lower limit. | Discounted in allowed range, or amend the allowed range. |
| E1.24 | Discounted U.Price has to be higher than discount upper limit. | |
| E1.25 | Discount is forbidden. | Refer to Spec110 |
| E1.28 | T-Sale is forbidden | Refer to Spec076 |
| E1.29 | Sale of Weight PLU or count PLU is forbidden. | Refer to Spec075 |
| E1.30 | Can not enter special sale mode | Selected PLU haveconflict with special sale mode, select again |
| E1.31 | Working on forced auto printing after zero-return. PLU Quiting is forbidden. | Finish printing of current PLU. |
| E1.32 | Transfer sale buffer is forbidden under accumulate mode | Press 【Confirm】 or 【Cancell】 exit the accumulate mode,then go on transfer |
| E1.33 | Transfer sale mode forbidden | Refer to Spec079 |
| E1.34 | The scanned barcode can not be parsed | Confirm the scanned PLU have been edited, interior barcode format station right |
| E1.36 | Salesman is not exist | Login with exist personel |
| E1.37 | Salesman's password can not be 0 | Login with personel whose password is not 0 |
| E1.38 | Service charge is forbidden | Open the function at Spec307 |
| E2.00 | Alarms for forbiddens | |

| Number | Alarm instructions | Methods to handle |
|---|---|---|
| E2.01 | Forbid F-Prog of PLU | Refer to Spec080. |
| E2.02 | Forbid F-Prog of PLU shortcut keys | Refer to Spec081. |
| E2.03 | Forbid F-Prog of Spec data parameters | Refer to Spec082. |
| E2.04 | Forbid Re-print | Refer to Spec065. |
| E2.05 | Menu quiting via pressing 【Sale】【Prog】【Account】 is forbidden. | Quit the menu by press 【Cancel】 some times. |
| E2.06 | A44 report forbidden | Refer to Spec141. |
| E2.07 | A6 report forbidden | Refer to Spec141. |
| E6.00 | Alarms for peripheral | |
| E6.10 | PTR: Print sensor calibrate wrong | Do calibrate operation with Ethernet Printer |
| E6.11 | PTR: Gap paper is not taken away. | Take away the printed label paper. **If there is still alarm this problem, do calibrate operation with Ethernet Printer** |
| E6.12 | PTR: Print mouth is not closed tight. | Install the paper and close mouth. |
| E6.13 | PTR: Printer is working. | Please wait for a few seconds and try again. |
| E6.14 | PTR: Lack of plain paper | Reinstall plain paper or the paper type cannot match. |
| E6.15 | PTR: Lack of gap paper | Reinstall label paper or the paper type cannot match. **If there is still alarm this problem, do calibrate operation with Ethernet Printer** |
| E6.16 | PTR: The printer cannot find the gap intervals. | The paper type cannot match and change the type to plain paper or reinstall gap label paper. **If there is still alarm this problem, do calibrate operation with Ethernet Printer** |
| E6.17 | PTR: The printer cannot find gap alignment positions. | Label paper is used up or paper type cannot match with set paper type. Please reinstall label paper. |
| E6.18 | PTR: The printer is overheated and it needs to cool down. | Please wait for a few seconds and try again. |
| E6.19 | PTR: There is no response of the printer. | The printer may not be connected or in the state that the printer could not print. |
| E6.20 | PTR: Print sensor calibrate wrong | Printer process do not follow general time order and finish the working, unknown print error |
| E6.21 | PTR: Communication Error | Checkup the Ethernet cable |
| E7.00 | Alarms for hardwares | |
| E7.01 | Some keys are pressed when the scale starts. | Please confirm that no keys are pressed. In this interface, the last window display pressed keys. 8-5 means the key in $8^{th}$ column from the left and $5^{th}$ row from the top is pressed. In this interface, the second window displays the calibrated times. |
| E7.10 | Print sensor calibrate wrong | Refer to chapter **Error! Reference source not found.** ***Error! Reference source not found.*** to calibrate again |

| Number | Alarm instructions | Methods to handle |
|---|---|---|
| E7.11 | Gap paper is not taken away. | Take away the printed label paper. **If there is still alarm this problem, do as the way in chapter** Error! Reference source not found. *Error! Reference source not found.* **to detect.** |
| E7.12 | Print mouth is not closed tight. | Install the paper and close mouth. |
| E7.13 | Printer is working. | Please wait for a few seconds and try again. |
| E7.14 | Lack of plain paper | Reinstall plain paper or the paper type cannot match. |
| E7.15 | Lack of gap paper | Reinstall label paper or the paper type cannot match. **If there is still alarm this problem, do as the way in chapter** Error! Reference source not found. *Error! Reference source not found.* **to detect.** |
| E7.16 | The scale cannot find the gap intervals. | The paper type cannot match and change the type to plain paper or reinstall gap label paper. **If there is still alarm this problem, do as the way in chapter** Error! Reference source not found. *Error! Reference source not found.* **to detect.** |
| E7.17 | The scale cannot find gap alignment positions. | Label paper is used up or paper type cannot match with set paper type. Please reinstall label paper. |
| E7.18 | The printer is overheated and it needs to cool down. | Please wait for a few seconds and try again. |
| E7.19 | There is no response of the printer. | The printer may not be connected or in the state that the printer could not print. |
| E7.20 | The printer over time | Printer process do not follow general time order and finish the working, unknown print error |
| E7.23 | PDS calibration failed, ignore PDS | Try reclibrate, this failure will not effect general use |
| E7.30 | Alarm for full storage of deals records. | Enter Account interface. Calculate reports and then clear the reports. |
| E7.40 | Time error | Time module error, if scale work for years, then it means to change the battery on main board |
| E7.50 | Harware error | Inside examine and repair code, if restart again andagain, but still exist this question, need return to factory for repair |
| E7.51 | | |
| E7.52 | | |
| E7.53 | | |
| E7.54 | | |
| E7.61 | | |
| E7.62 | Network module do not exist or working irregular | If no network module in present scheme, please close the network module( set Spec043=0) . |
| E7.70 | AD work irregular or loadcell irregular | Confirm loadcell install right |
| E7.81 | DC power is too low | If device is working with battery, please charge it first. If user confirm that power is right, please set Spec235=0 to close the power detect module |

| Number | Alarm instructions | Methods to handle |
|---|---|---|
| E7.82 | DC power is too high | If device is working with battery, it means battery is not match with the device.<br>If user confirm that power is right, please set Spec235=0 to close the power detect module |
| E8.00 | Alarms for communications | |
| E8.11 | USB flash disk port do not connect with the scale. | Please confirm that the scale used owns U-Disk port. If it owns, and this alarm cannot be cleared after several times' reboot, please use the guarantee. |
| E8.12 | USB flash disk does not exist. | Please confirm that USB flash disk is correctly inserted. Notice that removable disk cannot be used. And the capability of USB flash disk is less than 2G. In addition, USB flash disks of some brands may not work properly. Please try another USB flash disk of different brand. |
| E8.13 | The file in USB flash disk does not exist. | Confirm that appointed files are inside of USB flash disk. |

## **7.2** Definitions of Spec data parameters

The default number is only for reference, different function and versiondevice will have some difference.

| No. | Content | Range | Remarks | Default | Permission |
|---|---|---|---|---|---|
| 0 | Bill 1: Item Print Format | 0~99 | 0 means not to print, 1~99 are to print in appoint Print formats. | 1 | 0 |
| 1 | Bill 1: Item Barcode Format | 0~99 | 0 means not to print, 1~99 are to print in appoint barcode formats. | 2 | 0 |
| 2 | Bill 1: Item Barcode flag | 0~9999999 | | 20 | 0 |
| 3 | Bill 1: Item Print Times | 0~99 | | 1 | 1 |
| 4 | Bill 1: Item Print Reverse | 0~1 | 0: No Reverse, 1: Print 180°Reversed | 0 | 1 |
| 5 | Bill 1: Sum Print Format | 0~99 | 0 means not to print, 1~99 are to print in appoint Print formats. | 4 | 0 |
| 6 | Bill 1: Sum Barcode Format | 0~99 | 0 means not to print, 1~99 are to print in appoint barcode formats. | 7 | 0 |
| 7 | Bill 1: Sum Barcode Flag | 0~9999999 | | 2099999 | 0 |
| 8 | Bill 1: Sum Item Print Times | 0~99 | | 1 | 1 |
| 9 | Bill 1: Sum Print Reverse | 0~1 | 0: No Reverse, 1: Print 180°Reversed | 0 | 1 |
| 10 | Bill 2: Item Print Format | 0~99 | For the second-class Print formats, ordinary users won't use them.<br>Please don't amend them in normal conditions. | 0 | 1 |
| 11 | Bill 2: Item Barcode Format | 0~99 | | 0 | 1 |
| 12 | Bill 2: Item Barcode Flag | 0~9999999 | | 0 | 1 |
| 13 | Bill 2: Item Print Times | 0~99 | | 0 | 1 |
| 14 | Bill 2: Item Print Reverse | 0~1 | | 0 | 1 |
| 15 | Bill 2: Sum Print Format | 0~99 | | 0 | 1 |

| No. | Content | Range | Remarks | Default | Permission |
|-----|---------|-------|---------|---------|------------|
| 16 | Bill 2: Sum Barcode Format | 0~99 | | 0 | 1 |
| 17 | Bill 2 Sum Barcode Flag | 0~9999999 | | 0 | 1 |
| 18 | Bill 2: Sum Item Print Times | 0~99 | | 0 | 1 |
| 19 | Bill 2: Sum Print Reverse | 0~1 | | 0 | 1 |
| 20 | Print speed decrease | 0~99 | Reduced % of paper feed | 0 | 1 |
| 23 | Gray Level of Plain Paper | 0~9 | 0 is lightest, 9 is darkest. The print color lighter, the damage to print header smaller. Suggest users use lighter grey level. | 5 | 0 |
| 24 | Plain Paper: Interval of Each Print | 0~99 | Unit of setting number is mm. | 0 | 0 |
| 25 | Plain Paper: Cut-off Position | 0~99 | | 35 | 0 |
| 26 | Plain Paper: Pre-feed Distance | 0~1999 | Unit of setting number is dot. Device is reverse feed if number > 1000 | 16 | 0 |
| 27 | Wide of Report Printing | 0~99 | Unit of setting number is mm. | 50 | 0 |
| 28 | Font for Report Print | 0~2 | | 1 | 1 |
| 29 | Printer over-heat protect | 0~30 | Continuously print appointed time will enter over-heat protect, Please don't amend them without the guidance of professionals. | 5 | 1 |
| 30 | Feed Sensor Position | 0~255 | Hardware properties. Please don't amend them without the guidance of professionals. | 180 | 1 |
| 31 | Point numbers for narrow bar in barcode printing | 0~9 | 0 for default set, Please don't amend them without the guidance of professionals. | 0 | 1 |
| 32 | Point numbers for wide bar in barcode printing | 0~19 | | 0 | 1 |
| 33 | Readable character fonts in barcode printing | 0~2 | | 0 | 1 |
| 34 | Anti-shaking for weighing during printing | 0~19 | Hardware property, Please don't amend them without the guidance of professionals. | 3 | 1 |
| 35 | Auto new line mode | 0~1 | 0: One line mode; 1: Auto new line mode | 0 | 1 |
| 36 | ITF25 frame mode | 0~2 | 0: no frame;　　1: up and down frame; 2: around frame | 1 | 1 |
| 37 | ITF25 frame width | 0~31 | Frame dots | 8 | 1 |
| 38 | ITF25 left and right blank width | 0~31 | Left and right blank dots | 20 | 1 |
| 39 | Gap Paper: Pre-feed Distance | 0~1999 | Unit of setting number is dot. Device is reverse feed if number > 1000 | 0 | 0 |
| 40 | Device Number | 0~9999999 | They are used to distinguish more than one scale. And they can be printed. | 0 | 0 |
| 41 | RS232 Baud Rate | 0~9 | 0: 300, 1: 600, 2: 1200, 3: 2400, 4: 4800, 5: 9600, 6: 19200, 7: 38400, 8: 57600, 9: 115200. | 5 | 0 |
| 42 | USB flash disk Auto Update | 0~1 | 0: No Update, 1: Auto Update | 1 | 0 |
| 43 | Ethernet Auto Connect | 0~2 | 0: No auto connect, 1: Auto connect, 2: Auto connect and sales need connecting. | 0 | 0 |

| No. | Content | Range | Remarks | Default | Permission |
|-----|---------|-------|---------|---------|------------|
| 44 | Ethernet auto connect again | 0~65535 | 0: do not try connect again<br>1~65535: Device will try to connect with PC each appointed second | 0 | 0 |
| 45 | Ethernet parameter apply without switch off the scale | 0~1 | 0: Disable, only reset change Ethernet config.<br>1: Enable, Ethernet config apply immediately. | 1 | 1 |
| 46 | U-disk connect waiting time | 0~99 | 0: Default wait 2s<br>1~99: wait0.1s--9.9s.<br>Suggest clients keep the default set. If some U-disk start slowly, you can try to change the waiting time for longer | 0 | 1 |
| 47 | USB always power on | 0~1 | 1: USB always power on only used in special appliance | 0 | 1 |
| 48 | Ethernet Overtime Interval | 0~31 | Single overtime seconds, over 5 times overtime, Ethernet will disconnect | 10 | 1 |
| 60 | Cashing Mode | 0~3 | 0: No Cashing Mode,<br>1: Cashing Mode With Zero Change Default, No Display For Zero Change,<br>2: Cashing Mode With Zero Change Default, Always Display For Zero Change,<br>3: Cashing Mode Without Zero Change Default. | 1 | 0 |
| 61 | Drawer In Sale Operation | 0~3 | 0: Not Open Drawer,<br>1: Open Drawer 1,    2: Open Drawer 2,<br>3: Open Drawer 1 and 2. For general scale, only drawer 1 is valid, if user have double drawer request, please contact us. The added drawer password only limit the 【Drawer】 operation, open the drawer while printing is not limited | 3 | 0 |
| 62 | Push【Drawer】in Sale Mode | 0~3 | | 3 | 0 |
| 63 | Push【Drawer】in Prog Mode | 0~3 | | 3 | 0 |
| 64 | Push 【Drawer】 in Account Mode | 0~3 | | 3 | 0 |
| 65 | Reprint | 0~4 | 0: Reprint is forbidden,<br>1: Print one piece of bill 1,<br>2: Print one piece of bill 2,<br>3: Print one piece for each of bill 1 and bill 2,<br>4: Print bills 1 and 2 same as normal process | 3 | 1 |
| 66 | Change Display Exit | 0~99 | 0: Push Any Key For Exit,<br>1~99: Auto Quit Exit Specified Second | 0 | 0 |
| 72 | Clear Sale Buffer if Push 【Sale】 | 0~1 | 0: Not clear, 1: Clear. | 0 | 0 |
| 74 | Return of Goods | 0~1 | 0: Forbid, 1: Allow. | 0 | 0 |
| 75 | PLU transfer forbidden | 0~3 | 0: No forbidden;<br>1: Weight PLU forbidden;<br>2: Count PLU forbidden;<br>3: All PLU forbidden. | 0 | 1 |
| 76 | T-Sale PLU transfer forbidden | 0~3 | 0: No forbidden;<br>1: T-Sale Weight PLU forbidden;<br>2: T-Sale Count PLU forbidden; | 0 | 1 |

| No. | Content | Range | Remarks | Default | Permission |
|---|---|---|---|---|---|
| | | | 3: All T-Sale PLU forbidden; | | |
| 79 | Sale mode select | 0~1 | 0: Forbid, 1: Allow. | 1 | 0 |
| 80 | PLU Fast-Prog | 0~1 | 0: Forbid, 1: Allow. | 1 | 0 |
| 81 | ScPLU Fast-Prog | 0~1 | 0: Forbid, 1: Allow. | 1 | 0 |
| 82 | Spec Fast-Prog | 0~1 | 0: Forbid, 1: Allow. | 1 | 0 |
| 83 | Unit Price Fast-Prog 【-@】 or 【@Price】 | 0~3 | 0: Forbid；<br><br>1: long press【-@】 change PLU saved unit price<br><br>2: press 【-@】 change PLUsaved unit price<br><br>3: press 【-@】 change PLUsaved unit price, long press to enter interfaceand change PLUsaved cargo name | 1 | 1 |
| 87 | Dummy PLU | 0~1 | 0: Disable<br>1: Use dummy PLU, when try to transfer one do notexist PLU, device will use this PLU number or other PLU item empty way to transfer a dummy PLU. For example:: PLU156 do not exist, when transfer, you will get a cargo name PLU-0156 's PLU. | 0 | 1 |
| 88 | Dummy ScPLU | 0~1 | 0: Disable<br>1: use dummy ScPLU, if one shout cut key have been edited, then when it is transferred, scale will transfer PLU according to its short cut code.【SC1】refer to PLU101, 【Shift】【SC1】refer to PLU201. Etc. | 0 | 1 |
| 89 | PLU fast prog and PLUprog use same skip step | 0~1 | 0: Disable.<br>1: Enable, P331 and P332 do same effect | 1 | 1 |
| 90 | Calculating Account Backgroud | 0~1 | Allow the scale to calculate report data in background. Suggest clients do not edit this item | 1 | 1 |
| 91 | Log record function | 0~1 | 0: Enable, 1: Disable | 0 | 1 |
| 92 | Dummy PLU number | 0~1 | 0: use old version, PLU from 10~5999<br>1: PLU from 1~9999999, temporary PLU number decided by Spec093 and 094 | 1 | 1 |
| 93 | Dummy number for Temporary weight PLU | 0~9999999 | | 9999999 | 1 |
| 94 | Dummy number for Temporary count PLU | 0~9999999 | Refer to Spec092 | 9999998 | 1 |
| 94 | Dummy number for Service Charge PLU | 0~9999999 | | 9999997 | 1 |
| 97 | Index keyboard barcode | 0~2 | 0: Forbidden<br>1: Allow use number index<br>2: Allow use number and character index | 1 | 1 |

| No. | Content | Range | Remarks | Default | Permission |
|---|---|---|---|---|---|
| 98 | Single count deal:: discount sum and rounding sum'smanage | 0~5 | 0: Not record to report ；<br>1: Independent record discount sum, not record rounding sum<br>2: Seperately record discount sum, not record rounding sum | 3 | 1 |
| 99 | Accumulate deal: discount sum and rounding sum'smanage | | 3: Independent record discount sum and record rounding sum<br>4: Independent record discount sum and seperately record rounding sum<br>5: Seperately record discount sum and record rounding sum | 3 | 1 |
| 100 | Rounding Method for Single Total Price | 0~1 | 0, Common Rounding For Redundancy Digit<br>1, Common Rounding For Last Digit<br>2, Common Rounding For Last 2 Digits<br>3, Banker's Rounding For Redundancy Digit<br>4, Banker's Rounding For Last Digit<br>5, Banker's Rounding For Last 2 Digits | 0 | 0 |
| 101 | Rounding Method for Sum Tota Pricel | 0~11 | 6, Rounding Down For Redundancy Digit<br>7, Rounding Down For Last Digit<br>8, Rounding Down For Last 2 Digits<br>9, Rounding to 0 /5 For Last Digit<br>10, Rounding to 0 /5 For Last 2 Digits<br>11, Rounding to 0 /5 For Last 3 Digits | 0 | 0 |
| 102 | Print with accumulated data | 0~1 | 0: Enable, 1: Disable | 0 | 1 |
| 103 | Equal Reparation of Tare, Net and Gross | 0~3 | 0: No Reparation, rounding independently.<br>1: Tare=Gross-Net<br>2: Net=Gross-Tare<br>3: Gross=Net+Tare | 3 | 1 |
| 104 | Date Type | 0~5 | 0: YYYY.MM.DD<br>1: YY.MM.DD<br>2: MM/DD/YY<br>3: MM-DD-YY<br>4: DD/MM/YY<br>5: DD-MM-YY | 0 | 1 |
| 105 | Shelf life days print | 0~2 | 0: Print according to PLU set<br>1: priority print according to PLU set, if PLU donot have print set, print according to Spec106<br>2: Print accroding to Spec106 | 0 | 0 |
| 106 | Shelf life days data | 0~999 | Shelf life days after intraday.<br>0 means only for intraday | 0 | 0 |
| 107 | Number for sale buffer | 0~99 | 0: maximum allowed buffer | 0 | 0 |
| 108 | Most accumulate for sale buffer | 0~65535 | 0: maximum allowed accumulate | 0 | 0 |
| 109 | Unit price converse manage | 0~1 | 1: unit price account by division | 0 | Not open |

| No. | Content | Range | Remarks | Default | Permission |
|---|---|---|---|---|---|
| 110 | Manual Discount: Forbidden | 0~3 | 0, All Allowed<br>1, Forbidden U.Price Discount<br>2, Forbidden T.Price Discount<br>3, Forbidden All Discount | 0 | 1 |
| 111 | Manual Discount:<br>Lower Limit<br>(Percent Number) | 0~255 | 0: no lower limit, discount freely;<br>1~99: Take the percent of U.Price as the lower limit of the discount.<br>100~255: Don't allow the price after manual discount is lower than original U.Price. | 0 | 0 |
| 112 | Manual Discount:<br>Upper Limit<br>(Percent Number) | 0~255 | 0: no upper limit, discount freely;<br>1~100: Don't allow the price after manual discount is higher than original U.Price.<br>101~255: Take the percent of U.Price as the upper limit of the discount. | 0 | 0 |
| 113 | Manual percent discount | 0~1 | 0: Subtracter, 1: Addition | 0 | 1 |
| 114 | Fast percent discount | 0~99 | 0: Manual input number<br>1~99: Discount with this number | 0 | 1 |
| 115 | Auto Discount: Price tracking | 0~3 | 0: Disable<br>1: Track for auto-discount aactive PLU<br>2: Track for with auto-discount set PLU<br>3: Track for all PLU<br>Price change and discount is disable when price is tracking. | 1 | 1 |
| 116 | Global tax rate sort | 0~3 | 0: No global tax rate<br>1: Default is exclude Tax with Excluded Rate<br>2: Default is include Tax with Excluded Rate<br>3: Defaultx with included Rate | 1 | 0 |
| 117 | Global tax rate（‰） | 0~9999 | 0.01% tax rate, for 17%, need input 1700 | 1 | 0 |
| 118 | Amend mode in sale | 0~2 | 0: Manual<br>1: Record and clear<br>2: Not record and clear | | |
| 119 | Scanner checkout | 0~2 | 0: Not checkout, ignore reduncdance information<br>1: Checkout, ignore reduncdance information<br>2: Checkout, not ignore reduncdance information | 2 | 1 |
| 120 | Bar code match calculation | 0~3 | 0: Not match<br>1: Only do exterior bar code match<br>2: Only do interior bar code match<br>3: Do all match | 3 | 1 |
| 121 | When note code is 0's match | 0~2 | 0: Search user PLU<br>1: Think as temporary by-weight PLU<br>2: Think as temporary by-count PLU | 1 | 1 |
| 122 | Interior bar code 1: format | 0~99 | Group 1 interior bar code format, if Spec122=0, device auto use Spec1 and Spec2 as Group 1 interior bar code format | 0 | 0 |

| No. | Content | Range | Remarks | Default | Permission |
|---|---|---|---|---|---|
| 123 | Interior bar code 1: global flag | 0~9999999 | | 0 | 0 |
| 124 | Interior bar code 2: format | 0~99 | Group 2 interior bar code format | 0 | 1 |
| 125 | Interior bar code 2: global flag | 0~9999999 | | 0 | 1 |
| 126 | Interior bar code 3: format | 0~99 | Group 3 interior bar code format | 0 | 1 |
| 127 | Interior bar code 3: global flag | 0~9999999 | | 0 | 1 |
| 128 | Interior bar code 4: format | 0~99 | Group 4 interior bar code format | 0 | 1 |
| 129 | Interior bar code 4: global flag | 0~9999999 | | 0 | 1 |
| 130 | Total Price Masked before Printing | 0~1 | 0: Not enable<br>1: Enable. Total Price only displays after printing | 0 | 1 |
| 131 | Auto Printing after Zero-return | 0~4 | 0: Not enable.<br>1: Auto record after Zero-return. Can press 【Cancel】 to exit, do not record after exit<br>2: Forced auto record after Zero-return. Force operator to print the trade or take record.<br>3: Auto Printing after Zero-return. Can press 【Cancel】 to exit, do not record after exit<br>4: Forced Auto Printing after Zero-return. Force operator to print the trade or take record. | 0 | 1 |
| 132 | Sale mode when keyboard transfer by-count PLU | 0~1 | | 0 | 1 |
| 133 | Sale mode when exterior bar code transfer by-count PLU | 0~1 | 0: Non-accumulate mode<br>1: Accumulate mode | 1 | 1 |
| 134 | Sale mode when interior bar code transfer by-count PLU | 0~1 | | 1 | 1 |
| 135 | Salesman mode | 0~5 | 0: No salesman mode, log in with salesman 0.<br>1: Log in V1~V4 with salesman 1~4, no need password<br>2: need password, V1~V4 use same salesman<br>3: need password, V1~V4 use different salesman<br>4: need password, V1~V4 use same salesman, not allow salesman with password 0 to log in.<br>5: need password, V1~V4 use different salesman, not allow salesman with password 0 to log in. | 1 | 0 |
| 136 | Waiter Mode | 0~2 | 0: Disable<br>1: Enable, forbidden dummy personnel<br>2: Enable, allowed dummy personnel | 0 | 1 |
| 137 | Waiter Memory Mode | 0~2 | 0: Always clear<br>1: Memory last one<br>2: Memory in buffer | 0 | 1 |

| No. | Content | Range | Remarks | Default | Permission |
|---|---|---|---|---|---|
| 140 | SID auto clear | 0~6 | 0: Not auto clear<br>1: Half day clear(12:00 and 0:00)<br>2: Each day clear<br>3: Each Saturday clear<br>4: Each Monday clear<br>5:Each month clear<br>6: Each quarter clear | 2 | 1 |
| 141 | Stock report | 0~1 | 0: not open stock report( A44 report open)<br>1: open stock report( A44 report not open) | 1 | 1 |
| 142 | Stock change unit mode | 0~2 | 0: only allow related PLU appointed default unit<br>1: allow use count and weight default unit<br>2: allow use all own unit | 1 | 1 |
| 150 | Scale's Ethernet IP | 0~255 | When Spec153 is 0, device will connect to network by DHCP. Otherwise use appointed IP to connect the network | 192 | 0 |
| 151 | | 0~255 | | 168 | 0 |
| 152 | | 0~255 | | 0 | 0 |
| 153 | | 0~255 | | 0 | 0 |
| 154 | PC's Ethernet IP | 0~255 | When the network under clients state( Spec043=2) , appoint PC's IP. | 0 | 0 |
| 155 | | 0~255 | | 0 | 0 |
| 156 | | 0~255 | | 0 | 0 |
| 157 | | 0~255 | | 0 | 0 |
| 158 | Scale's Ethernet gateway | 0~255 | Getway: not use DHCP to connect to network | 192 | 0 |
| 159 | | 0~255 | | 168 | 0 |
| 160 | | 0~255 | | 0 | 0 |
| 161 | | 0~255 | | 1 | 0 |
| 162 | Scale's Ethernet mask | 0~255 | Getway: not use DHCP to connect to network | 255 | 0 |
| 163 | | 0~255 | | 255 | 0 |
| 164 | | 0~255 | | 255 | 0 |
| 165 | | 0~255 | | 0 | 0 |
| 166 | Scale's server port | 0~65535 | Do not change such setting unless there are expert! Irrelevant change will make the network do not work | 33581 | 1 |
| 167 | Scale's clients port | 0~65535 | | 33582 | 1 |
| 168 | Scale's UDP local port | 0~65535 | | 33583 | 1 |
| 169 | Scale's UDP remote port | 0~65535 | | 33584 | 1 |
| 180 | Display and Printing of Radix Point | 0~1 | 0: Dot'.';<br>1: Comma',' | 0 | 2 |
| 181 | Printing of Kilocharacter | 0~3 | 0: Not printing;<br>1: Dot'.';<br>2: Comma','<br>3: Quotation Mark' '' | 0 | 2 |
| 182 | Display of Kilocharacter | 0~1 | 0: Not display<br>1: Display based on Spec181 | 0 | 2 |
| 185 | Unit Printing of Weight | 0~1 | 0: No printing; 1: Printing | 0 | 1 |
| 186 | Unit Priting of Unit Price | 0~1 | 0: No printing; 1: Printing | 0 | 1 |
| 187 | Unit Priting of Money | 0~1 | 0: No printing; 1: Printing | 0 | 1 |
| 202 | Decimal Point: U.Price | 0~5 | In default state, decimal digits of U.Price. | 2 | 1 |
| 203 | Decimal Point: T.Price | 0~5 | In default state, decimal digits of T.Price. | 2 | 1 |

| No. | Content | Range | Remarks | Default | Permission |
|---|---|---|---|---|---|
| 206 | Decimal Point Fix: U.Price | 0~3 | Fix display decimal point according to Spec202 0: No Fix; 1: Fix for Discount; 2: Fix for PLU Call Out; 3: Always Fix. | 3 | 1 |
| 207 | Decimal Point Fix: T.Price | 0 | Fix display decimal point according to Spec203. | 1 | 1 |
| 208 | Decimal Point of Weight In Barcode Print | 0~3 | For number 1.533, if number here is 2, print 153 when print barcode. If number here is 3, print | 3 | 1 |
| 209 | Decimal Point of Money In Barcode Print | 0~5 | 1533. The rest may be deduced by analogy. Generally suggest Spec208=Spec201, Spec209=Spec203 | 2 | 1 |
| 214 | Default measure sort | 0~1 | 0: Non-input PLU is by-weight as default 1: Non-input PLU is by-count as default | 0 | 1 |
| 230 | AD Anti-shake while printing | 0~7 | Hardware parameter | 2 | 1 |
| 235 | Power detect module | 0~1 | 0: Enable; 1: Disable | 0 | 1 |
| 236 | Print in battery mode | 0~1 | 0: Print; 1: Not print | 0 | 1 |
| 237 | Interval of key scanner | 0~4 | Hardware parameter | 1 | 1 |
| 238 | Anti-shake of key scanner | 0~4 | Hardware parameter | 1 | 1 |
| 239 | Time for open drawer | 0~9999 | 0~9999ms. Default 100ms | 100 | 1 |
| 244 | Ignore PBS state | 0~1 | Use to oblige elimate error E7.12 | 0 | 1 |
| 245 | Ignore PDS state | 0~1 | Use to oblige elimate error E7.11 | 0 | 1 |
| 246 | Ignore PPS state | 0~1 | Use to oblige elimate error E7.14 | 0 | 1 |
| 247 | Password hold function | 0~3 | Password is memoried and no need to input again once it is input. Memory is cleared on restart or parameter amend. 0: Not hold any password 1: Only hold drawer password 2: Hold all password except admin password 3: Hold all password | 0 | 1 |
| 249 | PLU Text Mode | 0~2 | 0: System default mode 1: Short PLU mode (110 characters per PLU) 2: Long PLU mode (360 characters per PLU) | 0 | 1 |
| 300 | Single service charge mode | 0~2 | 0: Forbidden 1: Allowed, not repeat collect total percent service charge 1: Allow, repeat collect total percent service charge | 0 | 1 |
| 301 | Single service charge default input mode | 0~2 | 0: Unit price mode; 1: Total price mode; 2: Percent mode | 0 | 1 |
| 302 | Sum service charge input mode | 0~5 | 0: Manual transfer, manual input price 1: Manual transfer, manual input percent 2: Manual transfer, take auto price 3: Manual transfer, take auto percent 4: Auto transfer, take auto price 5: Auto transfer, take auto percent | 0 | 1 |

| No. | Content | Range | Remarks | Default | Permission |
|---|---|---|---|---|---|
| 303 | Sum service charge auto amount | 0~9999999 | Under price mode, auto account according to price decimal point<br><br>Under pecent mode: unit is ‰ | 0 | 1 |
| 304 | Service charge % account base | 0~1 | 0: Based on price before tax<br>1: Based on price after tax | 0 | 1 |
| 305 | Service charge's tax rate calss | 0~3 | 0: No global tax rate<br>1: Default is exclude Tax with Excluded Rate<br>2: Default is include Tax with Excluded Rate<br>3: Defaultx with included Rate | 0 | 1 |
| 306 | Service charge tax rate(‰ ) | 0~9999 | 0.01% tax rate, for 17%, need input 1700 | 0 | 1 |
| 307 | Service charge function | 0~1 | 0: Forbidden, 1: Allowed | 1 | 1 |
| 308 | Service charge re-input | 0~1 | 0: Forbidden, 1: Allowed | 1 | 1 |
| 340 | Dot matrix LCD' contrast | 0~7 | Do not change these settings. | 6 | 1 |
| 341 | Dot matrix LCD'brightness | 0~31 | | 7 | 1 |
| | **（PTR, parameters setting for network printer）** | | | | |
| 350 | PTR: Item print format | 0~99 | 0 means print according to bill 1 format (once using bill 1 format, the barcode format and signals are all according to bill 1) | 0 | 0 |
| 351 | PTR: Item barcode format | 0~99 | | 0 | 0 |
| 352 | PTR: Item barcode falg | 0~9999999 | | 0 | 0 |
| 353 | PTR: Item print Times | 0~99 | | 1 | 1 |
| 354 | PTR: Item print Reverse | 0~1 | 0: No Reverse, 1: Print 180°Reversed | 0 | 1 |
| 355 | PTR: Sum Print Format | 0~99 | 0 means print according to bill 1 format (once using bill 1 format, the barcode format and signals are all according to bill 1) | 0 | 0 |
| 356 | PTR: Sum Barcode Format | 0~99 | | 0 | 0 |
| 357 | PTR: Sum Barcode Flag | 0~9999999 | | 0 | 0 |
| 358 | PTR: Sum Item Print Times | 0~99 | | 1 | 1 |
| 359 | PTR: Sum Item Print Rol | 0~1 | 0: No Reverse, 1: Print 180°Reversed | 0 | 1 |
| 360 | PTR: network print function | 0~3 | 0: Disable<br>1: Enable, wait till printing finished<br>2: Enable, wait till printing started<br>3: Enable, wait till data sending finished | 1 | 1 |
| 361 | PTR: printer status clew | 0~3 | 0: No operation<br>1: Online/offline clew<br>2: Online/offline clew, alarm when there is no rating printing<br>3: Online/offline clew, error when there is no rating printing | 1 | 1 |

| No. | Content | Range | Remarks | Default | Permission |
|---|---|---|---|---|---|
| 362 | PTR: rating number for printer | 0~20 | Alarm or error if less than rating number | 0 | 1 |
| 363 | PTR: check interval | 0~65535 | Unit: second, default for 10s | 0 | 1 |
| 364 | | 0~255 | | 0 | 0 |
| 365 | PTR's IP: No.1 | 0~255 | | 0 | 0 |
| 366 | | 0~255 | | 0 | 0 |
| 367 | | 0~255 | | 0 | 0 |
| 368 | | 0~255 | | 0 | 0 |
| 369 | PTR's IP: No.2 | 0~255 | | 0 | 0 |
| 370 | | 0~255 | | 0 | 0 |
| 371 | | 0~255 | | 0 | 0 |
| 372 | | 0~255 | | 0 | 0 |
| 373 | PTR's IP: No.3 | 0~255 | | 0 | 0 |
| 374 | | 0~255 | | 0 | 0 |
| 375 | | 0~255 | | 0 | 0 |
| 376 | PTR: server port | 0~65535 | Do not change such setting unless there are expert! Irrelevant change will make the network printer do not work | 33591 | 1 |
| 377 | PTR: clients port | 0~65535 | | 33592 | 1 |
| 378 | PTR: UDP local port | 0~65535 | | 33593 | 1 |
| 379 | PTR: UDP remote port | 0~65535 | | 33594 | 1 |
| 400 | PTR: Print speed decrease | 0~99 | Reduced % of paper feed speed | 0 | 1 |
| 401 | PTR: Paper Type | 0~1 | 0: Plain Paper, 1: Gap Paper. | 0 | 0 |
| 402 | PTR: Gray Level of Gap Paper | 0~9 | 0 is lightest, 9 is darkest. The print color lighter, the damage to print header smaller. Suggest users use lighter grey level. | 7 | 0 |
| 403 | PTR: Gray Level of Plain Paper | 0~9 | | 7 | 0 |
| 404 | PTR: Plain Paper: Interval of Each Print | 0~99 | Set the unit of number is mm. 0 means use default set | 0 | 0 |
| 405 | PTR: Plain Paper: Cut-off Position | 0~99 | | 0 | 0 |
| 406 | PTR: Plain Paper: Pre-feed Distance | 0~1999 | Unit of setting number is dot. Device is reverse feed if number > 1000 | 0 | 0 |
| 407 | PTR: Paper width | 0~99 | | 0 | 0 |
| 408 | PTR: Default font | 0~2 | | 1 | 1 |
| 409 | PTR: Printer over-heat protect | 0~30 | Continuously print appointed time will enter over-heat protect, Please don't amend them without the guidance of professionals. | 0 | 1 |
| 410 | PTR: Feed Sensor Position | 0~255 | Hardware properties. Please don't amend them without the guidance of professionals. | 180 | 1 |
| 411 | PTR: Point numbers for narrow bar in barcode printing | 0~9 | 0 for default set, Please don't amend them without the guidance of professionals. | 0 | 1 |
| 412 | PTR: Point numbers for wide bar in barcode printing | 0~19 | | 0 | 1 |
| 413 | PTR: Readable character fonts in barcode printing | 0~2 | | 0 | 1 |

| No. | Content | Range | Remarks | Default | Permission |
|---|---|---|---|---|---|
| 415 | PTR: Auto new line mode | 0~1 | 0: One line mode; 1: Auto new line mode | 0 | 1 |
| 416 | PTR: ITF25 barcode frame mode | 0~2 | 0: no frame;  1: up and down frame;<br>2: around frame | 1 | 1 |
| 417 | PTR: ITF25 barcode frame width | 0~31 | Frame dots | 8 | 1 |
| 418 | PTR: ITF25 barcode left and right blank width | 0~31 | Left and right blank dots | 20 | 1 |
| 419 | PTR: Gap Paper: Pre-feed Distance | 0~1999 | Unit of setting number is dot.<br>Device is reverse feed if number > 1000 | 0 | 0 |
| 420 | PTR: not consider state of PBS | 0~1 | Use to force remove error E6.12 | 0 | 1 |
| 421 | PTR: not consider state of PDS | 0~1 | Use to force remove error E6.11 | 0 | 1 |
| 422 | PTR: not consider state of PPS | 0~1 | Use to force remove error E6.14 | 0 | 1 |

## 7.3 Definitions of String Paremeters

| Number | Hint | Text content | Default print format |
|---|---|---|---|
| 0 | ShopN | Store Name | Print: header center |
| 1 | ScaleN | Device Name | Not use |
| 2 | MnyPre | Prefix of Money Unit | |
| 3 | MnySuf | Suffix of Money Unit | |
| 4 | Strg-1 | Bill text 1 | Print: header center |
| 5 | Strg-2 | Bill text 2 | Print: header left |
| 6 | Strg-3 | Bill text 3 | Print: header center |
| 7 | Strg-4 | Bill text 4 | Print: header left |
| 8 | Strg-5 | Bill text 5 | Print: end center |
| 9 | Strg-6 | Bill text 6 | Print: end left |
| 10 | Strg-7 | Bill text 7 | Print: end center |
| 11 | Strg-8 | Bill text 8 | Print: end left |
| 12 | Spst-1 | Special text 1 | Single service charge |
| 13 | Spst-2 | Special text 2 | Service charge |
| 14 | Spst-3 | Special text 3 | Reserved |
| 15 | Spst-4 | Special text 4 | Reserved |
| 16 | Spst-5 | Special text 5 | Reserved |
| 17 | Spst-6 | Special text 6 | Reserved |
| 18 | Spst-7 | Special text 7 | Reserved |
| 19 | Spst-8 | Special text 8 | Reserved |