KILOTECH

integrator

LE.3k
Service Manual

Table of contents

Backup all data to USB flash disk

Insert flash drive into scale USB port

↓

Prog

↓

4

↓

Accu confirm

→

X

↓

Amend

↓

wait until finished

↓

Accu confirm

↓

Sale

Note **1** Exporting data to files to USB flash drive can sometimes a lot of time.
Note **2** Press any key to exit once completed. Press the cancel key to abort .

Factory restore

Prog

↓

5

↓

Input Admin Password
Default 200806

↓

Accu/ Confirm

↓

2

4

↓

Input Validation code
9958

↓

Accu/Confirm

↓

Wait until finished

↓

Sale
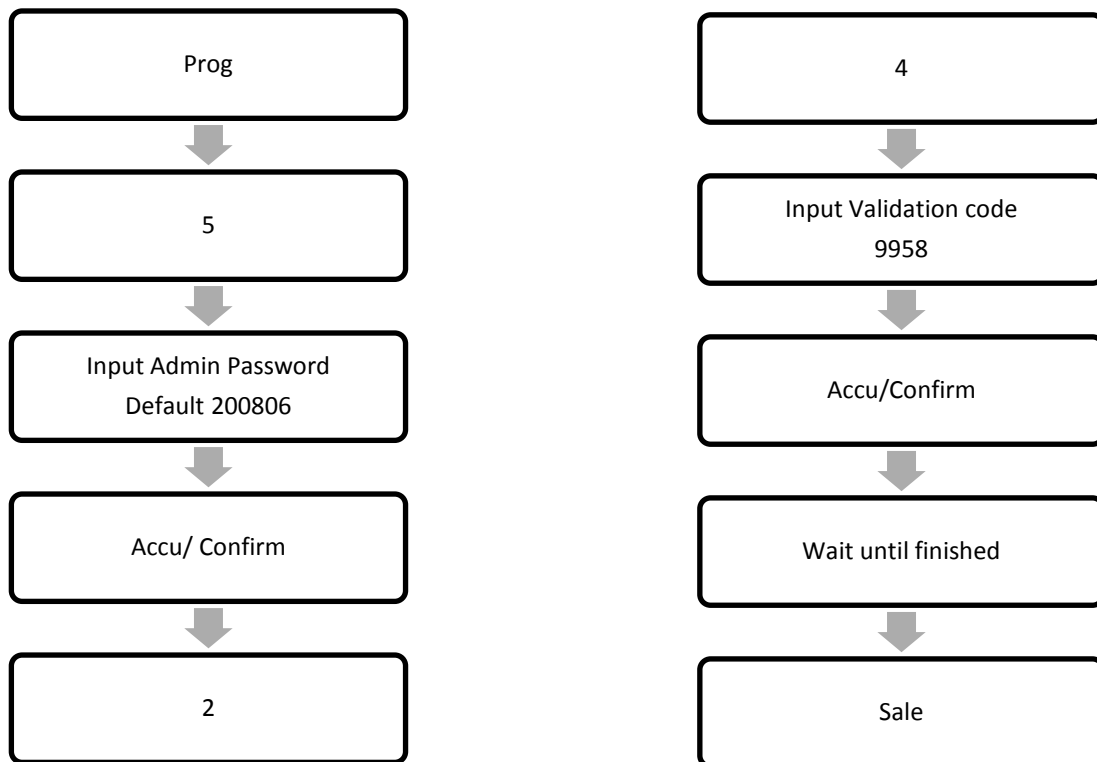
Firmware update

To update the firmware of your scale do as follow:

```
┌─────────────────────────────────────┐
│   Request the latest version of      │
│   firmware from your dealer          │
└─────────────────────────────────────┘
                 ↓
┌─────────────────────────────────────┐
│   create "JHSCALE" folder on a       │
│   USB-key                            │
└─────────────────────────────────────┘
                 ↓
┌─────────────────────────────────────┐
│   copy the received files into this  │
│   folder                             │
└─────────────────────────────────────┘
                 ↓
┌─────────────────────────────────────┐
│   insert the USB-Disk to scale       │
└─────────────────────────────────────┘
                 ↓
┌─────────────────────────────────────┐
│   Press program                      │
└─────────────────────────────────────┘
                 ↓
┌─────────────────────────────────────┐
│   Press 4                            │
└─────────────────────────────────────┘
                 ↓
┌─────────────────────────────────────┐
│   Pres accu/Confirm                  │
└─────────────────────────────────────┘
                 ↓
┌─────────────────────────────────────┐
│   Input number "999"                 │
└─────────────────────────────────────┘
                 ↓
┌─────────────────────────────────────┐
│   Press and hold "FProg" + "9" for 4 │
│   second                             │
└─────────────────────────────────────┘
                 ↓
┌─────────────────────────────────────┐
│   Wait for scale to restart          │
└─────────────────────────────────────┘
```
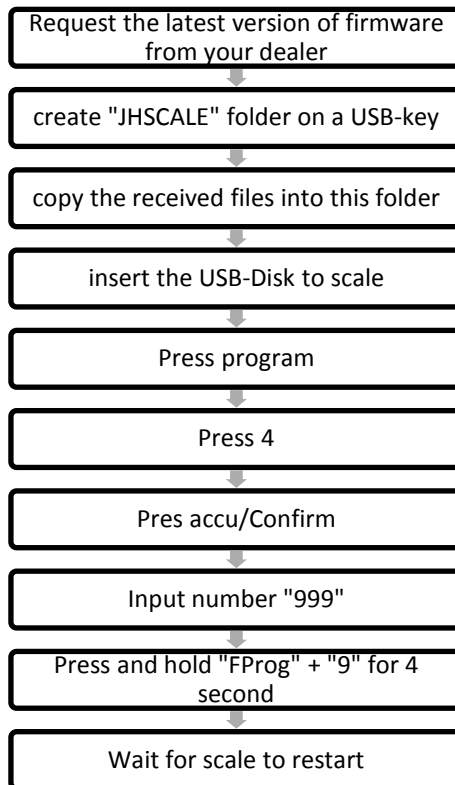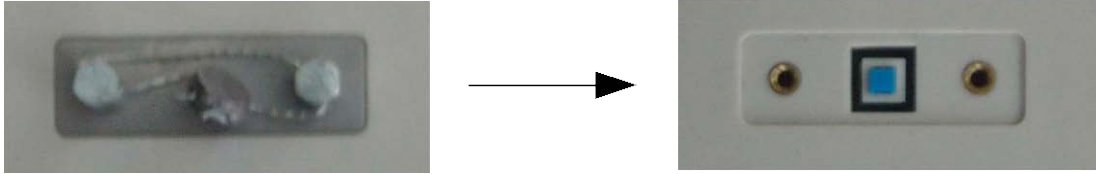
- **NB: Updating firmware will erase all data on the scale.**
- **Make sure the firmware is compatible with your scale**
- **Updating firmware is done at your own risk.**

Weight Calibration

Get Into Privilege Mode

Break the seal at the bottom of the scale. Press the key. Then power the scale on

Device displays

Press Accu/Confirm
Device displays "P509"
Press Accu/Confirm again
Set Calibration Parameter

Editing Indicator

Calibration Parameter

1st windows: The calibration counter
2nd windows: The acceleration of gravity at calibration area.
3rd windows: The acceleration of gravity at user area.
Keep 2nd=3rd if user do not need gravity correction.
4th windows: **Weight Sensor Range**:

0	30kg / 60lb
1	15kg / 30 lb
2	6kg / 12 lb
3	300kg / 600 lb
4	150kg / 300 lb
5	60kg / 120 lb
6	3kg / 6 lb

.
Press 0 and Accu/Confirm
Scale will calibrate zero point.
Put on weight. (min 1/3 of full capability)
Input the   weight value.
example: if you put 10kg on, input 10.00 or 10.000.
If needed, press Fprog +Shift to move decimal point.
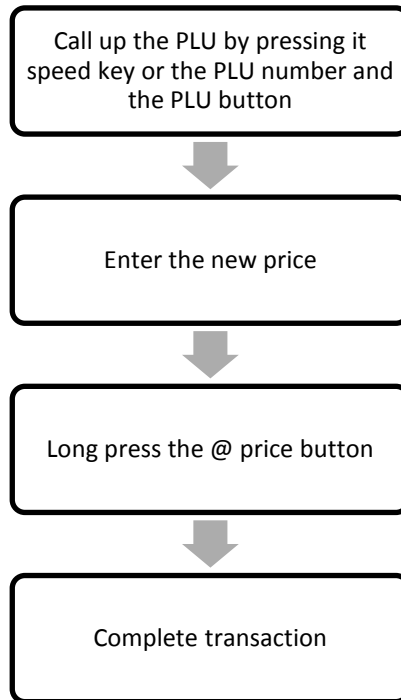Press the call key at the bottom of the scale to quit Privilege Mode

Note: If the scale does not start at P5.09 in Privilege mode Press F-Prog + →   until you see "P5.09" on the screen.   Then press F-Prog + Amend to accept
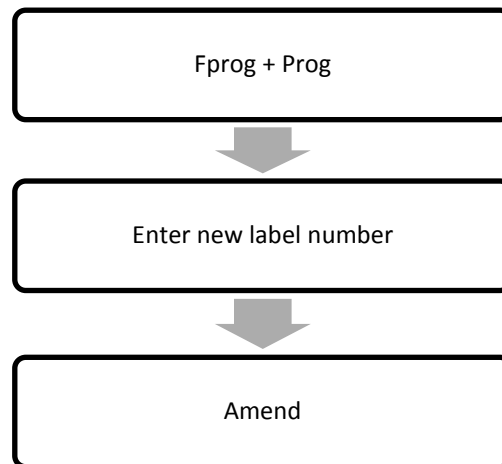
Menu structure

```
Prog-      ┌─ P1.-- ──────┬──────────┬──────────┬──────────┐        ┌─ Fast Prog ─┐
Menu       │  TM-Set      │          │          │          │        │             │
           │              ▼          ▼          ▼          ▼        │             │
           │            Time        Spec      String      ScPLU ◄───┘
           │                         ▲
           │  P2.--  ─────┬──────────┼──────────┬──────────┐
           │  DT-Set      │          │          │          │
           │              ▼          ▼          ▼          │
           │            Dept.      Class       PLU ◄────────┘
           │              │          │          │
           │  ┌───────────┼──────────┼──────────┐
           │  ▼           ▼          ▼          ▼
           │ Unit       Bcode      Label      Sales
           │
           │  P3.--  ─────┬──────────┬──────────┐
           │  DT-Ass      │          │          │
           │              ▼          ▼          ▼
           │            SK-PLU     SKFPLU     Delete
           │
           │  P4.--  ─────┬──────────┬──────────┐
           │  Commu       │          │          │
           │              ▼          ▼          ▼          ▼
           │            U-Disk     Ethnet     RS232      USlave
           │
           │  P5.--  ─────┬──────────┐
           │  HW-Ass      │          │
           │              ▼          ▼
           │            Set-PW     TMS-DF
```
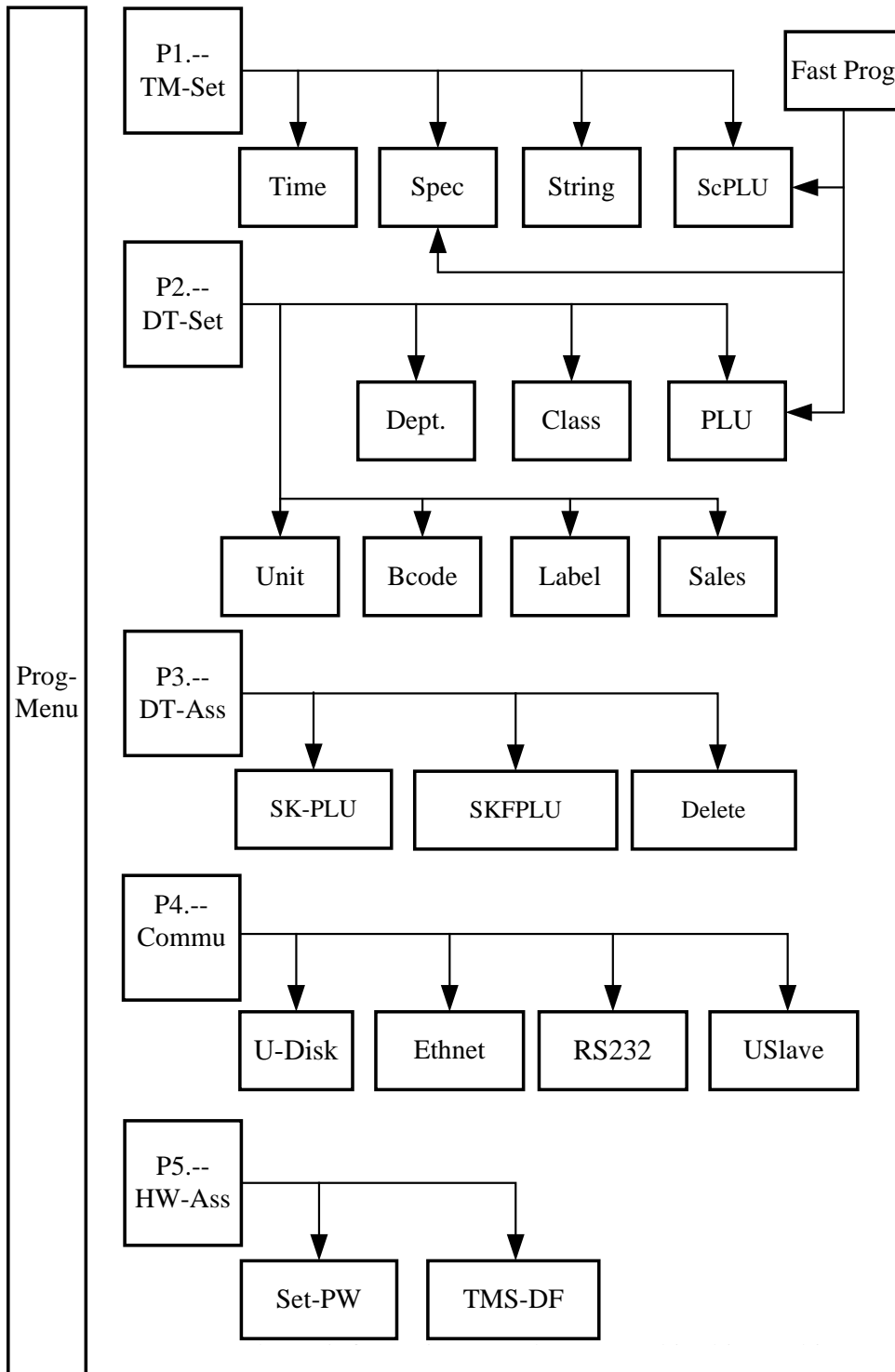
Prog Menu	P1	Scale Parameter (TM-Set)	P11 Time
			P12 Spec
			P13 String
			P14 PLU Shortcut
	P2	Sale Data (DT-Set)	P21 Dept.
			P22 Class
			P23 PLU
			P24 Unit
			P25 Barcode
			P26 Print format
			P27 Salesman
	P3	Data Assistant (DT-Ass)	P31 PLU Prog steps
			P32 PLU F-Prog steps
			P33 Delete Sale data
	P4	Communications (Commu)	P41 USB flash disk
			P42 Ethernet
			P43 RS232
			P44 USB slave
	P5	Hardware Assistant (HWAss)	P51 Set the passwords
			P52 Factory default

Change Price of the PLU on the Scale

Call up the PLU by pressing it speed key or the PLU number and the PLU button

↓

Enter the new price

↓

Long press the @ price button

↓

Complete transaction

Label Formats

The LE.3k has 9 predefined labels barcodes. To choose a label format please do the following:

Fprog + Prog

↓

Enter new label number

↓

Amend

Label #	Image	Label #	Image
1	**Type 3 (862049) (40mm)**	2	**Type 4 (862050) (60mm)**
3	**Type 6 (862051) (56mm FR)**	4	**Type 6 (862051) (56mm EN)**
5	**Type 7 (862036) (80mm FR)**	6	**Type 7 (862036) NFT**
7	**Type 7 (862036) (80mm EN)**		

Print adjust

To adjust the print height, please do the following:

```
┌─────────────────────────┐
│      Fprog + Prog        │
└─────────────────────────┘
            ↓
┌─────────────────────────┐
│         X key            │
└─────────────────────────┘
            ↓
┌─────────────────────────┐
│          39              │
└─────────────────────────┘
            ↓
┌─────────────────────────┐
│      Accu confirm        │
└─────────────────────────┘
            ↓
┌─────────────────────────┐
│ Increase or decrease value as │
│        needed*           │
└─────────────────────────┘
            ↓
┌─────────────────────────┐
│         Amend            │
└─────────────────────────┘
```
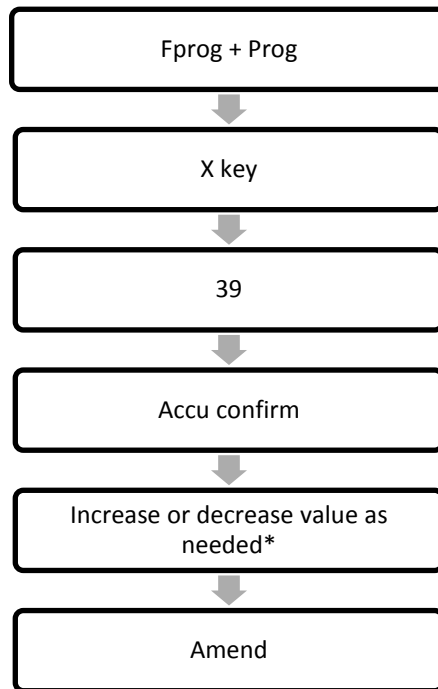
*1 increment = 1 pixel
  8 pixels = 1 mm

Printer sensor calibration (E7.11)

Please complete the following steps if the scale shows E7.11 while printing labels.
1. Check if the correct labels are used.
2. Reinstall the roll, and make sure the media is guided properly trough the sensors.
3. Turn off the scale. Press and hold the Feed key then switch on the scale, hold this key until self-check has completed. The printer will feed a few labels while calibrating.

Spec setting

The list below shows you the most commonly used spec settings. To adjust the desired spec, please do the following:

```
┌─────────────────────────┐
│      Fprog + Prog        │
└─────────────────────────┘
            │
            ▼
┌─────────────────────────┐
│         X key            │
└─────────────────────────┘
            │
            ▼
┌─────────────────────────┐
│ Input spec number to be modified │
└─────────────────────────┘
            │
            ▼
┌─────────────────────────┐
│      Accu confirm        │
└─────────────────────────┘
            │
            ▼
┌─────────────────────────┐
│ Increase or decrease value as │
│          needed          │
└─────────────────────────┘
            │
            ▼
┌─────────────────────────┐
│         Amend            │
└─────────────────────────┘
```
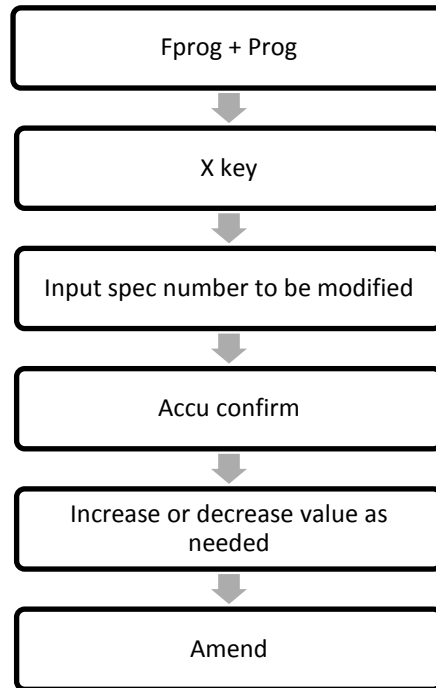
Spec #	Description	Note
20	Printing speed:	0~99 0 is fastest 99 is slowest. (default is at 33)
22	Darkness of printing:	Gray Level of Gap Paper
35	Auto new line mode:	Enable or disable printing on multiple lines.
50	Ethernet type:	0 for: wired network or 1 for Wi-Fi
51	Wi-fi security	0 for no Security, 1 for WEP, 2 for WPA/WPA2.
52		0 for open system, 1 for Shared key
104	Date format:	o 0 for YYYY.MM.DD
		o 1 for YY.MM.DD
		o 2 for :MM/DD/YY
		o 3 for MM-DD-YY
		o 4 for DD/MM/YY
		o 5 for DD-MM-YY
150	Scale Ip address:	First segment of IP address
151		Second segment of IP address
152		Third segment of IP address

153		Forth segment of IP address (0 means DHCP mode)
217	Set min weight to print:	Default 20 when set to 4 min weight is 20 g.
234	Prepack mode re-arm	To set the min weight change required for the printer to rearm set Spec234
		0= Return to 0
		1= Less than 1 DEGREE
		2= Less than 2 DEGREE
		3= Less than 3 DEGREE
		4= Less than 4 DEGREE
		5= Less than 5 DEGREE
		6= Less than 6 DEGREE
		7= Less than 7 DEGREE
		8= Less than 8 DEGREE
		9= Less than 9 DEGREE
		10= Less than 10 DEGREE
		11= Less than 11 DEGREE
		12= Less than 12 DEGREE
		13= Less than 13 DEGREE
		14= Less than 14 DEGREE
		15= Less than 15 DEGREE
		16= Less than 16 DEGREE
		17= Must decrease and increase than 15/16 last MEASURE
		18= Must decrease and increase than 14/16 last MEASURE
		19= Must decrease and increase than 13/16 last MEASURE
		20= Must decrease and increase than 12/16 last MEASURE
		21= Must decrease and increase than 11/16 last MEASURE
		22= Must decrease and increase than 10/16 last MEASURE
		23= Must decrease and increase than 9/16 last MEASURE
		24= Must decrease and increase than 8/16 last MEASURE
		25= Must decrease and increase than 7/16 last MEASURE
		26= Must decrease and increase than 6/16 last MEASURE
		27= Must decrease and increase than 5/16 last MEASURE
		28= Must decrease and increase than 4/16 last MEASURE
		29= Must decrease and increase than 3/16 last MEASURE
		30= Must decrease and increase than 2/16 last MEASURE
		31= Must decrease and increase than 1/16 last MEASURE
258	Word-break function:	Specify amount of characters to be printed before word will be split into 2 lines.
265	Date mode for month:	0 for digits, 1 for two characters

480	Nutritional facts table type:	0 for USA mode, 1 for Canada mode		
340	Display setting contrast:	LCD's contrast		
341		LCD's brightness		
484	100g, ¼ lbs. key:	0 for disable, 1 for 100g, 2 for ¼ lbs., 3 for 100g and ¼ lbs. key enabled (programmable in call mode only.)		

Admin/ user Spec

Spec ID	Description	Level	Note
0	Label: Item Print Format	user	Print formats. 0 = not to print, 1~xxxx = selected print format
1	Label: Item Barcode Format	user	Barcode formats. 0 = not to print, 1~xxxx = selected barcode format
2	Label: Item Barcode Flag	user	
3	Label: Item Print Times	user	
4	Label: Item Print Reversed	user	0: No Reverse, 1: Print 180°Reversed
5	Label: Sum Print Format	admin	Print formats. 0 = not to print, 1~xxxx = selected print format
6	Label: Sum Barcode Format	admin	0 means not to print, 1~99 are to print in appoint barcode formats.
7	Label: Sum Barcode Flag	admin	
8	Label: Sum Item Print Times	admin	
9	Label: Sum Print Reversed	admin	0: No Reverse, 1: Print 180°Reversed
10	Label 2: Item Print Format	admin	
11	Label 2: Item Barcode Format	admin	
12	Label 2: Item Barcode Flag	admin	
13	Label 2: Item Print Times	admin	
14	Label 2: Item Print Reversed	admin	0: No Reverse, 1: Print 180°Reversed
15	Label 2: Sum Print Format(0~99)	admin	
16	Label 2: Sum Barcode Format(0~99)	admin	
17	Label 2: Sum Barcode Flag(0~99999)	admin	
18	Label 2: Sum Item Print Times(0~99)	admin	
19	Label 2: Sum Print Reversed|0|0:Normal|1|1:Reversed	admin	
20	Print Speed Decrease(0~99)	admin	
22	Gray Level of Gap Paper(0~15)	admin	0 is lightest, 9 is darkest. The print color lighter, the damage to print header smaller. Suggest users use lighter grey level.
27	Wide of Report Printing(0~99mm)	admin	Unit of setting number is mm.
28	Font for Report Print|0|0:10*18|1|1:18*26|2|2:26*34	admin	
29	Heat Protect(0~30s)	admin	

30	Feed Sensor Position(0~255)	admin	
31	Narrow Bar Dot Number of Barcode(0~9,0 means default)	admin	
32	Wide Bar Dot Number of Barcode(0~19,0 means default)	admin	
33	Font of Barcode readable character(0~2)	admin	
35	Auto New Line Mode|0|0:Forbidden|1|1:Allowed	admin	0: One line mode; 1: Auto new line mode
36	ITF25 frame mode|0|0:No frame|1|1:Up and down frame|2|2:Around frame	admin	2: around frame
37	ITF25 frame width(0~31)	admin	Frame dots
38	ITF25 left and right blank width(0~31)	admin	Left and right blank dots
39	Gap Paper: Pre-feed Distance	user	Device is reverse feed if number > 1000
40	Device Number(0~9999999)	admin	0
41	RS232 Baud Rate|0|0:300|1|1:600|2|2:1200|3|3:2400|4|4:4800|5|5:9600|6|6:19200|7|7:38400|8|8:57600|9|9:115200	admin	9600, 6: 19200, 7: 38400, 8: 57600, 9: 115200.
42	USB-Disk Auto Update|0|0:No Update|1|1:Auto Update	admin	0: No Update, 1: Auto Update
43	Ethernet Connect|0|0:No connect|1|1:Server Mode|2|2:Client Mode	admin	0: No auto connect,
44	Ethernet Auto Re-connect(0~65535)	admin	0: do not try connect again
45	Ethernet Auto Reboot if Configure Changed|0|0:Disable|1|1:Enable	admin	0: Disable, only reset change Ethernet config.
46	Latency Time of USB Linking(0~99,Each 10 for 1s,0 for Default)	admin	0: Default wait 2s
47	USB Power Always ON|0|0:Disable|1|1:Enable	admin	1: USB always power on only used in special appliance
48	Ethernet Overtime Interval(0~31s)	admin	
49	Password Authorization|0|0:Local operation only|1|1:Communication operation allowed	admin	
50	Ethernet Type|0|0:Wire-Network|1|1:Wireless-Network	admin	
51	Security Mode|0|0:No Security|1|1:WEP|2|2:WPA/WPA2	admin	
52	Security Option|0|0:Open System|1|1:Shared Key	admin	
65	Reprint|0|0:Reprint Forbidden|1|1:Print Label 1|2|2:Print	admin	3: Print one piece for each of bill 1 and bill 2,

	Label 2|3|3:Print Label 1 and 2|4|4:Print Label 1 and 2 as Sale Operation		
66	Quit Change Display (0: Push Any Key For Quit; 1~99: Auto Quit For Specified Second)	admin	1~99: Auto Quit Exit Specified Second
70	Allowed Zero Purchase|0|0:Forbidden|1|1:Allowed	admin	0: Forbid; 1: Allow
71	No Weigh Sale for Weight PLU|0|0:Forbidden|1|1:Allowed, 1 pc only|2|2:Allowed, multi pcs allowed	admin	2: Allow
72	Clear Sale Buffer if Press 【Sale】|0|0:Not Clear|1|1:Clear	admin	0: Not clear, 1: Clear.
74	Buy Back(0~31, 0 for disable all, +1 for exist log buy back, +2 for new input buy back, +4 for mix allowed with sale, +8 for amount switch, +16 for price switch)	admin	0: Forbid, 1: Allow.
75	PLU forbidden|0|0:No forbidden|1|1:Weight PLU forbidden|2|2:Count PLU forbidden|3|3:All PLU forbidden	admin	2: Count PLU forbidden;
76	T-Sale PLU forbidden|0|0:No forbidden|1|1:T-Sale Weight PLU forbidden|2|2:T-Sale Count PLU forbidden|3|3:All T-Sale PLU forbidden	admin	2: T-Sale Count PLU forbidden;
77	Manual Weight Entry|0|0:No manual weight entry|1|1:Manual weight entries enable and batch print in auto mode|2|2:Manual weight entries enable and prepack in auto mode|3|3:Manual weight entries enable but not in auto mode	admin	0: Disable, 1-3: Enable
78	【Auto mode】Get into Special Sale Mode|0|0:Auto mode forbidden|1|1:Swith to batch print mode|2|2:Swith to prepack print mode|3|3:Swith to lock PLU mode|4|4:Swith to auto print mode	admin	3: Switch to lock PLU mode
79	Sale mode select|0|0:Forbid|1|1:Allow	admin	0: Forbid, 1: Allow.
80	PLU Fast-Prog|0|0:Forbidden|1|1:Allowed with authentication|2|2:Allowed	admin	0: Forbid, 1: Allow.
81	ScPLU Fast-Prog|0|0:Forbidden|1|1:Allowe	admin	0: Forbid, 1: Allow.

	d		
82	Spec Fast-Prog|0|0:Forbidden|1|1:Allowed with authentication|2|2:Allowed	admin	0: Forbid, 1: Allow.
83	Fast-Pro of PLU Price|0|0:Forbidden|1|1:Long Push 【-@】to Modify PLU Price|2|2:Push 【-@】to Modify PLU Price|3|3:Push 【-@】to Modify PLU Price, and Long Push to Modify PLU Name	admin	cargo name
87	Dummy PLU|0|0:Disable|1|1:Enable	admin	
88	Dummy PLU Shortcut|0|0:Disable|1|1:Enable	admin	
89	Step-skip of PLU Fast-Prog Equal to PLU Prog(P32 Equal to P31)|0|0:Disable|1|1:Enable	admin	1: Enable, P331 and P332 do same effect
90	Account Calculating Background|0|0:Forbidden|1|1:Allowed	admin	
91	Account Function|0|0:Enable|1|1:Disable	admin	0: Enable, 1: Disable
92	Dummy Number|0|0:Disable|1|1:PLU Dummy|2|2:Salesman Dummy|3|3:PLU and Salesman Dummy	admin	number decided by Spec093 and 094
93	PLU-no of By-Weight T-Sale(MISC PLU)(0~9999999)	admin	
94	PLU-no of By-Count T-Sale(MISC PLU)(0~9999999)	admin	Refer to Spec092
95	PLU-no of Service Fee PLU(0~9999999)	admin	
104	Date Type	user	|0|:YYYY.MM.DD |1|:YY.MM.DD |2|:MM/DD/YY |3|:MM-DD-YY |4|:DD/MM/YY |5|:DD-MM-YY
105	Shelf Day Print|0|0:Using PLU setting|1|1:Shelf Printing based-on Spec106 if PLU Do not set Shelf Day|2|2:Shelf Printing based-on Spec106|3|3:Not Print Shelf	admin	Do not have print set, print according to Spec106
106	Shelf Days	user	Number of days for global shelf life
107	Number of Sale Buffers(0~,0 means default)	admin	0: maximum allowed buffer

108	Number of Maximum Accumulate(0~65535,0 means default)	admin	0: maximum allowed accumulate
110	Manual Discount: Forbidden|0|0:All Allowed|1|1:Forbidden U.Price Discount|2|2:Forbidden T.Price Discount|3|3:Forbidden All Discount	admin	2, Forbidden T.Price Discount
111	Manual Discount: Lower Limit(0~255, Percent)	admin	
112	Manual Discount: Upper Limit(0~255, Percent)	admin	
113	Percent Discount Arithmetic|0|0:Subtract Percent|1|1:Add Percent	admin	0: Subtract 1: Addition
114	Auto Percent Discount Rate(0: No Automatic, 1~99: Automatic Rate)	admin	1~99: Discount with this number
115	Auto Discount: Price Lock|0|0:No Auto Discount|1|1:Price Lock if Auto Discount Is Effective|2|2:Price Lock If Auto Discount Is Setting|3|3:Price Lock for All PLU	admin	Price change and discount is disabled when price is tracking.
116	Global Tax Sort|0|0:No Global Tax Sort|1|1:Tax Excluded Mode|2|2:Tax Excluded Mode, PLU's Price is aftertax|3|3:Tax Include Mode	admin	2: Default is include Tax with Excluded Rate
117	Global Tax Rate(One per ten thousand ‰,0~9999)	admin	0.01% tax rate, for 17%, need input 1700
118	Amend Mode in Sale|0|0:Manual Operation (Not Record)|1|1:Clear All (Record)|2|2:Clear All (Not Record)|3|3:Manual Operation (Record)	admin	2: Not record and clear
119	Scanner checkout|0|0:Not checkout, ignore redundant information|1|1:Checkout, ignore redundant information|2|2:Checkout, not ignore redundant information	admin	2: Checkout, not ignore redundant information
120	Scanned Barcode|0|0:Do nothing|1|1:Deal with External Barcode(Index mode)|2|2:Deal with Internal Barcode(Note mode)|3|3:Deal with all mode	admin	2: Only do interior bar code match
121	Deal method with note=0|0|0:Search User PLU|1|1:Deal with By-Weight T-Sale PLU|2|2:Deal with By-Count T-Sale PLU	admin	2: Think as temporary by-count PLU
122	Internal Barcode 1: Format Number(0~99)	admin	

123	Internal Barcode 1: Flag Number(0~9999999)	admin	
124	Internal Barcode 2: Format Number(0~99)	admin	Group 2 interior bar code format
125	Internal Barcode 2: Flag Number(0~9999999)	admin	
126	Internal Barcode 3: Format Number(0~99)	admin	Group 3 interior bar code format
127	Internal Barcode 3: Flag Number(0~9999999)	admin	
128	Internal Barcode 4: Format Number(0~99)	admin	Group 4 interior bar code format
129	Internal Barcode 4: Flag Number(0~9999999)	admin	
135	Salesman Login|0|0:Disable, Save with Salesman=0|1|1:Disable, Save with Salesman=1~4 in V1~V4|2|2:Enable, V1~V4 Controlled by Same Salesman|3|3:Enable, V1~V4 Controlled by Different Salesman|4|4:Enable, V1~V4 Controlled by Same Salesman, Pass=0 Salesman Cannot login|5|5:Enable, V1~V4 Controlled by Different Salesman, Pass=0 Salesman Cannot login	admin	
136	Waiter Mode|0|0:Disable|1|1:Enable, forbidden dummy personnel|2|2:Enable, allowed dummy personnel	admin	2: Enable, allowed dummy personnel
137	Waiter Memory Mode|0|0:Always clear|1|1:Memory last one|2|2:Memory in buffer	admin	2: Memory in buffer
139	EAN/UCC CRC|0|0:Standard|1|1:Non-standard	admin	
140	SID Auto Clear|0|0:No Clear|1|1:Half Day(12:00?0:00)|2|2:Daily|3|3:Each Sunday|4|4:Each Monday|5|5:Monthly|6|6:Quarterly	admin	1: Half day clear(12:00 and 0:00)
141	Stock Report|0|0:Disable(A44 Report Enable)|1|1:Enable(A44 Report Disable)	admin	1: open stock report(A44 report not open)
142	Unit Mode of Stock Amend|0|0:Only PLU's Unit Allowed|1|1:Default By-Weight Unit and By-Count Unit Allowed|2|2:All System Unit Allowed	admin	2: allow use all own unit
143	FID/SID Print Mode(0:Print as	admin	

	number; 1~9:Print in specified length with '#')		
150	Ethernet IP 1(0~255)	admin	
151	Ethernet IP 2(0~255)	admin	When Spec153 is 0, device will connect to network by DHCP. Otherwise use appointed IP to connect the network
152	Ethernet IP 3(0~255)	admin	
153	Ethernet IP 4(0~255, 0 means DHCP mode)	admin	
154	PC's Ethernet IP 1(0~255, effective only in client mode)	admin	
155	PC's Ethernet IP 2(0~255, effective only in client mode)	admin	
156	PC's Ethernet IP 3(0~255, effective only in client mode)	admin	When the network under clients state (Spec043=2) , appoint PC's IP.
157	PC's Ethernet IP 4(0~255, effective only in client mode)	admin	
158	Gateway IP 1(0~255)	admin	
159	Gateway IP 2(0~255)	admin	
160	Gateway IP 3(0~255)	admin	Gateway: not use DHCP to connect to network
161	Gateway IP 4(0~255)	admin	
162	Mask IP 1(0~255)	admin	
163	Mask IP 2(0~255)	admin	
164	Mask IP 3(0~255)	admin	Gateway: not use DHCP to connect to network
165	Mask IP 4(0~255)	admin	
166	Server Mode Socket(0~65535)	admin	
167	Client Mode Socket(0~65535)	admin	Do not change such setting unless there are expert! Irrelevant change will make the network do not work
168	UDP Listen Socket(0~65535)	admin	
169	UDP Broadcast Socket(0~65535)	admin	
170	Primary DNS 1(0~255)	admin	
171	Primary DNS 2(0~255)	admin	
172	Primary DNS 3(0~255)	admin	
173	Primary DNS 4(0~255)	admin	
180	Display and Printing of Decimal Point|0|0:Dot|1|1:Comma	admin	1: Comma','
181	Printing of Kilocharacter|0|0:No printing|1|1:Dot|2|2:Comma|3|3:Quotation Mark	admin	2: Comma','

182	Display of Kilocharacter|0|0:Not display|1|1:Display based on Spec181	admin	1: Display based on Spec181
185	Unit Printing of Weight|0|0:No printing|1|1:Printing	admin	0: No printing; 1: Printing
186	Unit Printing of Unit Price|0|0:No printing|1|1:Printing	admin	0: No printing; 1: Printing
187	Unit Printing of Money|0|0:No printing|1|1:Printing	admin	0: No printing; 1: Printing
188	Unit Price Length(0:Automatic, 1~7)	admin	
189	Total Price Length(0:Automatic, 1~7)	admin	
190	Dot Matrix Screen: PLU Information Display|0|0:Auto Fix|1|1:Font 1 Display|2|2:Font 0 Display|3|3:2-Line Mode	admin	
191	Dot Matrix Screen: AD-Message Display|0|0:Auto Fix|1|1:Font 1 Display|2|2:Font 0 Display|3|3:2-Line Mode	admin	
192	Dot Matrix Screen: Idle Mode	user	|0|:Display Time |4|:Store Name |5|:Device Name |8|:Label text 1 |9|:Label text 2 |10|:Label text 3 |11|:Label text 4 |12|:Label text 5 |13|:Label text 6 |14|:Label text 7 |15|:Label text 8 |21|21:Special text 6 |22|:Special text 7 |23|:Special text 8
193	Dot Matrix Screen: Idle Mode Source	user	|0|:Display Accumulation |1|:Display AD-Message
194	Dot Matrix Screen: PLU Information Source 1|0|0:PLU Name|1|1:Text 1|2|2:Text 2|3|3:Text 3|4|4:Text 4|5|5:Text 5|6|6:Text 6|7|7:Text 7	admin	
195	Dot Matrix Screen: PLU Information Source 2|0|0:PLU Name|1|1:Text 1|2|2:Text 2|3|3:Text 3|4|4:Text 4|5|5:Text 5|6|6:Text 6|7|7:Text 7	admin	
196	Decimal Point of Count In Barcode Print(0~5)	admin	
228	Price Convert between Different Weight Unit|0|0:Allowed|1|1:Only Default Weight Allowed|2|2:Forbidden|4|4:Auto	admin	2: Forbidden

	convert		
229	Weight Switch|0|0:Not Allowed|1|1:Long Press to Switch|2|2:Single Press to Switch	admin	2: allow
234	Degrees of Zero back(0~31)	admin	
240	Wide of Thermal Header(mm:0~64)	admin	
244	Ignore PBS Sensor|0|0:No Ignore|1|1:Ignore	admin	Use to eliminate error E7.12
245	Ignore PDS Sensor|0|0:No Ignore|1|1:Ignore	admin	Use to eliminate error E7.11
246	Ignore PPS Sensor|0|0:No Ignore|1|1:Ignore	admin	Use to eliminate error E7.14
247	Password Hold Function|0|0:Disable|1|1:Hold Drawer Password Only|2|2:Hold Passwords except Admin|3|3:Hold All Passwords	admin	
249	PLU Storage Mode(PLU Text Length≈Total Length-150)|0|0:System default mode|1|1:256 Bytes Mode|2|2:512 Bytes Mode|3|3:1024 Bytes Mode|4|4:2048 Bytes Mode	admin	2: Long PLU mode (360 characters per PLU)
250	No-Accumulation Mode【Accu】is Doing Same Operation as【Print】|0|0:Disable|1|1:Enable	admin	
251	Discount Menu of Unit Price|0|0:Disable discount menu|1|1:nable, default mode is based on【Key】|2|2:Enable, default mode is PERCENT mode|3|3:Enable, default mode is MINUS mode|4|4:Enable, default mode is FIX mode	admin	
252	Discount Menu of Total Price|0|0:Disable discount menu|1|1:nable, default mode is based on【Key】|2|2:Enable, default mode is PERCENT mode|3|3:Enable, default mode is MINUS mode|4|4:Enable, default mode is FIX mode	admin	
253	Call PLU by "Note" when Press 【PLU】|0|0:Based on PLU number|1|1:Based on PLU note	admin	
254	Auto【PLU】Function|0|0:Disable|1|1:Enable in	admin	

	idle mode|2|2:Enable in PLU mode|3|3:Enable in all mode		
255	Digit number for auto【PLU】(0:Disable, 1~7:Auto【PLU】after digitals number inputted)	admin	
256	Pre-Print Function	user	|0|:Disable |1|:Enable
258	Maximum Characters Take Over to New Line(0~31)	admin	
259	Mode Auto Quit(0~15: +1: Batch Print, +2:PrePack, +4:Lock PLU, +8:Auto Print)	admin	
260	Need Admin Password In Certain Mode(0~31: +1: Sale, +2:Prog, +4:Account, +8:Drawer, +16:Unit Price)	admin	
261	By-Weight PLU Forbidden in Certain Mode(0~15: +1: Batch Print, +2:PrePack, +4:Lock PLU, +8:Auto Print)	admin	
263	Call PLU in Idle Mode(0~9999999)	admin	
265	Date Print Mode: Month	user	|0|:Digits |1|:Two Characters
266	Date Display Mode	user	|0|:Default |1|1:Using Spec104 and 265
269	Print Forbidden|0|0:Default|1|1:Forbidden	admin	
271	Auto Upgrade|0|0:Disable|1|1:Enable	admin	
274	Maximum PLU Number(0~9999999)	admin	
277	Default Working Mode|0|0:Normal|1|1:Batch Print|2|2:PrePack|3|3:Lock PLU|4|4:Auto Print	admin	
280	Salesman authorization|0|0:Forbidden|1|1:Enable	admin	
300	Item Service Fee|0|0:Forbidden|1|1:Allowed, not collect total percent again|2|2:Allowed, collect total percent again	admin	
301	Item Service Fee: Default Method|0|0:Unit Price Mode|1|1:Total Price Mode|2|2:Percent Mode	admin	2: Percent mode

302	Total Service Fee: Input Method|0|0:Manually Call, Price Input|1|1:Manually Call, Percent Input|2|2:Manually Call, Auto Price|3|3:Manually Call, Auto Percent|4|4:Auto Call, Auto Price|5|5:Auto Call, Auto Percent	admin	4: Auto transfer, take auto price
303	Total Service Fee: Auto collect based number(% or price number)	admin	
304	Service Fee: Percent Collection based Number|0|0:Pre-Tax|1|1:After-Tax	admin	1: Based on price after tax
307	Service Fee Permission|0|0:Forbidden|1|1:Allowed	admin	0: Forbidden, 1: Allowed
308	Service Fee Re-Input|0|0:Forbidden|1|1:Allowed	admin	0: Forbidden, 1: Allowed
340	Dot matrix LCD's contrast(0~7)	user	
341	Dot matrix LCD's brightness(0~31)	user	
417	PTR: ITF25 frame width(0~31)	admin	Frame dots
450	PDF417: Checksum Level(0~9, 9: System default level)	admin	
451	PDF417: Columns Number(0~30, 0:Auto sizing)	admin	
452	PDF417: Rows Number(0~90, 0:Auto sizing)	admin	
453	PDF417: Bar Width(0~6, 0: Default 3)	admin	
454	PDF417: Bar Height(0~18, 0: Default 6)	admin	
455	QR: Check Level(0~3)	admin	
456	QR: Version(0~31)	admin	
457	QR: Bar Size(0~6, 0 Means Default，Default is 3)	admin	
480	Nutrition Table	admin	|0|:USA Mode |1|:Canada Mode
481	Nutrition Table Width in Dot(200~432)	admin	
482	US Nutrition Font Offset(0~19)	admin	
483	CA Nutrition Font Offset(0~19)	admin	
484	Special Unit	admin	|0|:Disable |1|:100g Enable |2|:1/4lb Enable |3|:100g and 1/4lb Enable

Display Character Reference

Symbol	7-segments digit	Symbol	7-segments digit	Symbol	7-segments digit	Symbol	7-segments digit	Symbol	7-segments digit
0	0.	C	C.	O	O.	(	C.	Ï	0.
1	1.	D	D.	P	P.	)	J.	Ô	0.
2	2.	E	E.	Q	9.			Ù	0.
3	3.	F	F.	R	R.	À	0.	Û	0.
4	4.	G	G.	S	5.	Â	0.	Ü	4.
5	5.	H	H.	T	E.	Æ	0.		
6	6.	I	1.	U	U.	Ç	C.		
7	7.	J	J.	V	U.	È	0.		
8	8.	K	K.	W	4.	É	P.		
9	9.	L	L.	X	H.	Ê	0.		
A	A.	M	M.	Y	4.	Ë	0.		
B	b.	N	N.	Z	2.	Î	1.		

Error code

Number	Meaning	Possible solution
E0.00	Alarms for measurements	
E0.01	Weight is not stable when the scale starts up.	Make sure there are no heavy goods on the tray and the tray is stable.
E0.02	Exceed the allowed start-up zero range	Make sure there are no heavy goods on the tray and the tray is on the bracket. If error code persists, load cell may be broken.
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 accumulate 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 execute the 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 after inputting payment amount. Refer to Spec060.
E1.17	Payment is less than sale price.	Charge enough money which is larger than sale price.
E1.18	System cannot execute accumulative operations while locking PLU.	Before accumulative operations, system needs to exit lock PLU (or auto mode) first.
E1.19	System cannot switch buffers into buffer with accumulation while locking PLU.	Operate in current buffer, or exit lock PLU (or auto mode).
E1.20	Not allow no weigh sale for weight goods	Refer to Spec071.

E1.21	Less than smallest sale weight	Weight needs to be larger than smallest sale weight.
E1.22	Larger than largest sale weight	Weight needs to be smaller than largest sale weight.
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
E1.26	Manual weight entry is forbidden	Refer to Spec077
E1.27	Manual weight entry failed for weight is not zero.	Take off goods, or press 【Zero】
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	Cannot enter special sale mode	Selected PLU have conflict with special sale mode, select again
E1.31	Working on forced auto printing after zero-return. PLU Quitting is forbidden.	Finish printing of current PLU.
E1.32	Transfer sale buffer is forbidden under accumulate mode	Press【Confirm】or【Cancel】 exit the accumulate mode, then go on transfer
E1.33	Transfer sale mode forbidden	Refer to Spec079
E1.34	The scanned barcode cannot be parsed	Confirm the scanned PLU have been edited, interior barcode format station right
E1.35	Tare renew function forbidden	Must turn over tare, then go for tare
E1.36	Salesman is not exist	Login with exist personnel
E1.37	Salesman's password cannot be 0	Login with personnel whose password is not 0
E1.38	Service charge is forbidden	Open the function at Spec307
E2.00	Alarms for forbidden	
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 quitting via pressing【Sale】【Prog】【Account】 is forbidden.	Quit the menu by press【Cancel】sometimes.
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 hardware	
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 8th column from the left and 5th 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 5.1.2 to calibrate again
E7.11	Gap paper is not taken away.	Take away the printed label paper. **If the alarm still persists refer to chapter printer sensor E 7.11.**
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.
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 5.1.2.**
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 recalibrate, this failure will not affect 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	Hardware error	Inside examine and repair code, if restart again and again, but still exist this question, need return to factory for repair
E7.51		
E7.52		
E7.53		
E7.54		
E7.61		
E7.62	Wire-Network module do not exist or working irregular	If no wire-network module in present scheme, please close the network module(set Spec043=0) .
E7.63	Wireless-Network module do not exist or working irregular	If no wireless-network module in present scheme, please choose wire-network module(set Spec050=0) .
E7.70	AD work irregular or loadcell irregular	Confirm loadcell is correctly installed
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=1 to close the power detect module
E7.82	DC power is too high	If device is working with battery, it means battery is not match with the device.

		If user confirm that power is right, please set Spec235=1 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.