DC-400

Counting Scale

Operation Manual

RICE LAKE
W E I G H I N G   S Y S T E M S

Contents

*Technical training seminars are available through Rice Lake Weighing Systems. Course descriptions and dates can be viewed at **www.ricelake.com/training** or obtained by calling 715-234-9171 and asking for the training department.*

1.0   Introduction

The DC-400 Series is capable of dealing with a wide variety of items, both large and small, through the skillful control of two sensors. From paper products to steel, the DC-400 can count almost anything.

Manuals are available for viewing and/or downloading from the Rice Lake Weighing Systems website at **www.ricelake.com/manuals**

Warranty information can be found on the website at **www.ricelake.com/warranties**

1.1   Safety

Safety Signal Definitions:

⚠ DANGER	*Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. Includes hazards that are exposed when guards are removed.*
⚠ WARNING	*Indicates a potentially hazardous situation that, if not avoided, could result in serious injury or death. Includes hazards that are exposed when guards are removed.*
⚠ CAUTION	*Indicates a potentially hazardous situation that, if not avoided, could result in minor or moderate injury.*
IMPORTANT	*Indicates information about procedures that, if not observed, could result in damage to equipment or corruption to and loss of data.*

General Safety

Do not operate or work on this equipment unless this manual has been read and all instructions are understood. Failure to follow the instructions or heed the warnings could result in injury or death. Contact any Rice Lake Weighing Systems dealer for replacement manuals.

⚠ **WARNING**

Failure to heed could result in serious injury or death.

Do not allow minors (children) or inexperienced persons to operate this unit.

Do not step on the unit.

Do not jump on the scale.

Do not use for purposes other then weight taking.

Do not place fingers into slots or possible pinch points.

Do not use this product if any of the components are cracked.

Do not exceed the rated specifications of the unit.

Do not make alterations or modifications to the unit.

Do not remove or obscure warning labels.

1.2   Standard Features

- Digital printing scale consists of counting function and label printing function via RS-232
- Easy paper handing achieved by a special designed mechanism
- Built-in clock automatically updates date and time
- Quick response to weight changes
- Capacity: 500g/5kg, 2.5kg/25kg
- High Resolution Display: 1/50,000, 4-interval
- Internal Resolution: 1/1,000,000
- Remote platform connector support four 350 Ohm load cells
- 202 x 32 pixels FSTN type LCD with back-light
- Integrated touch panel
- 55 switch keys
    - On/Off key
    - 10 numeric keys
    - 26 character keys
    - 18 operational keys
- Ethernet function
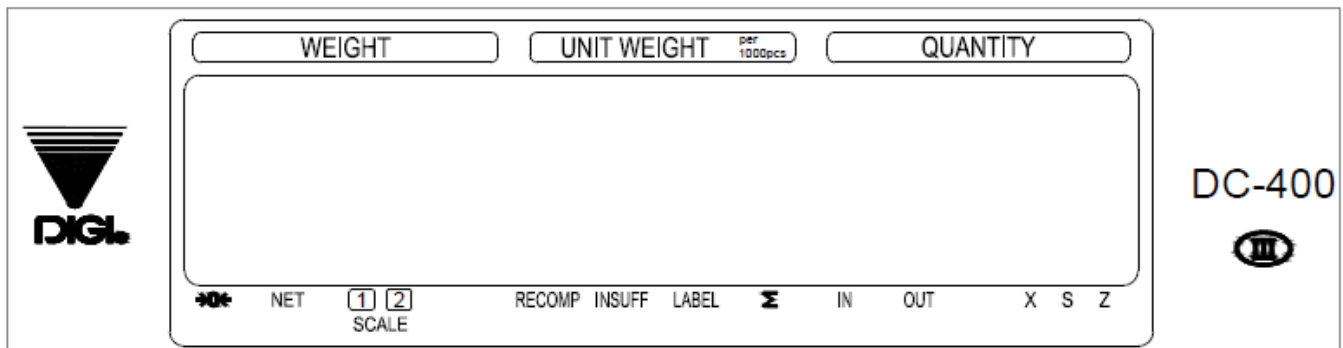- RS-232C I/F for data communication and barcode scanner connection

1.3   Display

Figure 1-1. Display

Indicator	Function
→0←	Displays when zero point is adjusted and weight is stable
NET	Displays when tare subtraction is performed
SCALE 1	Displays when Scale 1 (built-in platform) is selected
SCALE 2	Displays when Scale 2 (remote platform) is selected
RECOMP	Displays when unit weight recomputing is possible
INSUFF	Displays when net weight is below a specific percentage range of the capacity weight
LABEL	Displays when label printing mode is chosen
SUM	Displays when quantity accumulation is done
IN	Displays when Inventory IN (for Counting mode)
OUT	Displays when Inventory OUT (for Counting mode)
X	Displays when in Report mode
S	Displays when in Programming mode
Z	Displays when in Service mode

Table 1-1. Display Functions

1.4   Key Sheet Layout

Figure 1-2. Key Overview

| Key	Function
ON/OFF	Turns display on and off
REPRINT	Issue label or receipt in *R mode*, print out report in *X mode*
PIECES	Compute unit weight by sampling, escape the programming screen without saving the data in *X* and *S mode*
UNIT WEIGHT	Set unit weight in Registration mode
MODE	Switch control modes
CODE	Call up PLU data in Registration mode, store the programmed data in *S mode*
(feed)	Feed paper
+	Add total quantity, select programming item such as item code, factory name is *S mode*, select Report Type in *X mode*
–	Correct the sales data, select programming item such as Item Code, Factory Name in *S mode*, select *Report Type* in *X mode*
CLEAR	Clear Alphanumeric Data, select "**YES**" in *S*, *X* and *Z mode*
REZERO	Reset weight display to zero
TARE	Set or clear tare values, select "**NO**" in *S*, *X* and *Z mode*, Item test print in *S mode*
0-9	Input numerical value
.	Enter decimal point
A to Z	View the Preset data such as ID CODE, PART NAME in *R mode*, enter Alphabetic data in *R mode* (ID CODE) and *S mode*
SCALE	Switch between scale 1 and scale 2
LOT NO	View the Lot Number or program new Lot Number for temporarily printing
SHIFT UP	Select Top function or symbol of the desired key for entering

Table 1-2. Key Descriptions

Key	Function
SHIFT DOWN	Select Bottom function of desired key for entering
≪	Move cursor LEFT
≫	Move cursor RIGHT
INSERT T	Insert data
CHAR TYPE V	Code type entered
LETTER SZ W	Switch from upper and lowercase
CHAR SZ X	Change font size

Table 1-2. Key Descriptions (Continued)

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W E I G H I N G   S Y S T E M S

2.0   Setup

2.1   Weigh Mode

To enter *Weigh mode*:

1. Plug unit into electrical outlet.
2. Ensure power switch on bottom of scale is switched to on position.
3. The screen will display *C-RETRY* and *T-IGNORE*.

4. Press ⌷TARE to enter *Weigh mode*.

2.2   Change Mode

Start in *Weigh mode*.

Mode	Operation
To enter *X mode*	Press ⌷MODE twice within 3 seconds
To enter *S mode*	Press ⌷MODE again
Te enter *Z mode*	Press ⌷MODE again
To enter *Password Set mode*	Press ⌷MODE again
To enter *Weigh mode*	Press ⌷MODE again

Table 2-1. Change Mode

2.3   Span Switch

To enable Span Switch:

1. Locate span switch threaded opening on the bottom of the scale.
2. Insert non-conductive tool into opening until switch is enabled.
1. To verify Span Switch is enabled enter *Z mode*.

2. Press and hold ⌷REZERO and enter ⌷2, ⌷8, ⌷4.
3. Unit will display *SPAN SWITCH OFF or ON*, exits after 3 seconds.

📝 Note | *Span Switch will remain enabled until unit is turned off or button is pressed again.*

2.4   Set Country

The country is set on initial use of the scale. Enter **Z mode** before setting country. Span Switch must be enabled to set country.

Operation	Function
Press and hold [REZERO] and press [8], [8], [2], [2]	To enter Country Setting mode
Press [+] or [−]	Select country
Press [✱ REPRINT]	Update country setting
Press [$ C PART NO] or [INSERT T] to skip this step	Load default SPEC setting
Press [$ C PART NO]	Change scale type
Press [✱ REPRINT]	Update scale setting
Press [+]	Select capacity
Press [✱ REPRINT]	Update capacity
Press [$ C PART NO] or [INSERT T] to skip this step	Clear Memory

Table 2-2. Set Country

2.5   Calibration

Span Switch must be enabled. Enter **Z mode** before calibrating.

### 2.5.1   Calibration for Scale 1 (Internal Scale)

Operation	Function
Press and hold [REZERO] while pressing [8], [7], [1], [5]	Enter Calibration
Press [✱ REPRINT]	Ready to calibrate zero point
Confirm no weight is on scale, press [✱ REPRINT]	Calibrating zero point
Put weight on scale, press [✱ REPRINT]	Calibrating Span Point 1
Take weight off scale	Scale is ready for second weight
Place a second weight on scale, press [✱ REPRINT]	Calibrating Span Point 2
Take second weight off scale	Sale is ready for third weight
Place a third weight on scale, press [✱ REPRINT]	Calibrating Span Point 3
Take third weight off scale	Scale is ready for fourth weight
Place fourth weight on scale, press [✱ REPRINT]	Calibrating Span Point 4
Take weight off scale	Return to **Z mode**

Table 2-3. Calibration for Scale 1

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2.5.2 Calibration for Scale 2

Operation	Function
Press and hold [REZERO] while pressing [8], [7], [1], [5]	Enter Calibration
Press [SCALE]	Select Scale 2
Press [*REPRINT]	Set weight decimal point
Press [«] or [»]	Increase or decrease the number of decimal points
Press [*REPRINT]	Store weight decimal point setting, ready to enter platform capacity
Enter capacity, press [*REPRINT]	Store capacity setting, ready to enter minimum display
Enter minimum display, press [*REPRINT]	Store minimum display setting, ready to select Single- or Multi-Interval
Press [«] or [»] to select Single- or Multi-Interval and then press [*REPRINT]	Store interval setting
Enter Max1 setting, press [*REPRINT]	Store Max1 setting, ready to enter minimum display in weighing range Max1 The operation scenario only occurs on multi-interval
Enter Min D1, press [*REPRINT]	Store Min D1, ready to calibrate zero point Reference weight for calibration must exceed or equal 10% full scale capacity
Confirm no weight is on scale, press [*REPRINT]	Calibrating zero point
Enter Span calibration weight, press [*REPRINT]	Calibrating span
Press [MODE]	Return to *Z mode*

Table 2-4. Calibration for Scale 2

2.6 Set Password

Enter *Z mode* before setting passwords.

Operation	Function
Press [MODE]	Display password for *X mode* XXXX: Password If 0 displays, no password is set
Enter 4-digit numerical password, press [✱ REPRINT]	Set *X mode* password using keypad Press [✱ REPRINT] to save password for *X mode*
Press [✱ REPRINT]	Display password for *Z mode*
Enter two-digit numerical password, press [S C PART NO]	Clear Z password
Press [✱ REPRINT]	Display password for PWD mode
Enter 4-digit numerical password	Set four-digit PWD mode password using keypad
Press [✱ REPRINT]	Return to *Weigh mode*

Table 2-5. Set Password

2.6.1 Using Passwords

1. Press [MODE] twice within 3 seconds to enter setup menu. If a mode is password protected there is a prompt for a password.

2. Enter password then [✱ REPRINT] to enter into mode.

3. If no password is set prompt is not given.

2.7 Adjustment

2.7.1 Span Switch Setting Display

1. Enter *Z mode*.

2. Press and hold [REZERO] and enter [2], [8], [4].

3. Unit will display *SPAN SWITCH OFF or ON*, exits after 3 seconds.

2.7.2 Internal Count Display

1. Enter *Z mode*.

2. Press and hold [REZERO] and enter [0], [0], [9].

2.8   Clear Files

This function is used to clear files in Memory.

Enter **Z mode** before operation.

Operation	Function
Press [REZERO] and enter [2], [3], [0]	PLU File
Press [+]	Select to clear report files
Press [+]	Select to clear memory data
Press [✳ REPRINT]	To save
Press [CLEAR] or [TARE]	Press [CLEAR] to clear file data or [TARE] to quit

Table 2-6. Clear Files

3.0 Program Mode

In Program mode there are two ways to select a programming file:

1. Enter the number key corresponding to the program

2. Press $\boxed{+}$ or $\boxed{-}$ key to select the data file

The following are programmed in Program mode (**S mode**):

Key	Data Files
1	PROGRAM PLU
2	PROGRAM FACTORY
4	PROGRAM DATE AND TIME
5	PROGRAM ADDRESS
7	PROGRAM TEXT
8	PROGRAM FREE FORMAT
9	PROGRAM LOGO
10	MEMORY STATUS
11	INTERFACE TEST
12	PROGRAM MULTI-BARCODE
13	PROGRAM 2D BARCODE TEXT

Table 3-1. Program Mode files

3.1 Program Mode Entry

1. From **Weigh mode** press $\boxed{\text{MODE}}$ three times to enter **S mode**.

2. Press $\boxed{+}$ or $\boxed{-}$ to scroll through programs in **S mode** or press numerical program key to go directly to program desired.

3.2 PLU FILE

The following are programmed in **PLU Program** mode.

Step	Items
S1.0	ID CODE ENTRY
S1.1	UNIT WEIGHT
S1.2	TARE WEIGHT
S1.3	LABEL FORMAT
S1.4	PART NAME
S1.5	PART NUMBER
S1.6	LOT NUMBER
S1.7	LOCATION
S1.8	INVENTORY
S1.9	THRESHOLD
S1.10	SELECT SET POINT TYPE
S1.11	SET POINT 1
S1.12	SET POINT 2
S1.13	ADDRESS NUMBER (if Address exists)

Table 3-2.   PLU PROGRAMS

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3.2.1 Program Item File

Item data is programmed by the following procedure.

Operation	Function
From **Weigh mode** press [MODE] three times	Enter **S mode**
Press [✱ REPRINT]	Enter **PLU Program** mode
Enter ID Code, press [✱ REPRINT]	Enter ID code then press [✱ REPRINT] to store
Enter weight	Enter weight
Enter tare value then [✱ REPRINT]	Place a tare weight on scale. If tare value is known, enter the tare value by numeric keys
Press [«] or [»]	Select label format from options displayed
Press [✱ REPRINT]	Set label format
Enter part name, press [✱ REPRINT]	Enter part name then press [✱ REPRINT] to store
Enter part number press [✱ REPRINT]	Enter part number
Enter lot number press [✱ REPRINT]	Enter lot number
Enter inventory press [✱ REPRINT]	Enter Inventory
Enter threshold press [✱ REPRINT]	Enter Threshold
Press [+] or [−]	Scroll through Set Point type (%/Qty, %/Weight, Qty/Qty, Weight/Weight)
Press [✱ REPRINT]	Select Set Point type
Enter Set Point 1 press [✱ REPRINT]	Enter Set Point 1
Enter Set Point 2 press [✱ REPRINT]	Enter Set Point 2
Enter Address number press [CODE]	Return to **S mode**

Table 3-3. Item Function Data

Note

Unit Weight value can be entered by Numeric Key or Weight Sampling.

1. Numeric Key can be a maximum 5 digits and 1 decimal point for Unit Weight.

2. Weight Sampling:

Place the product on scale when Insufficient indicator is ON.

Place the 10 pieces of product on scale (Insufficient indicator lighted up) and then press Pieces to do sampling. After a few seconds, a message ADD 3 will appear on the display. If the samples are heavy enough the insufficient indicator light will be off.

Add three pieces of product on scale and press Pieces. After a few seconds, the Unit Weight value will appear on Unit Weight column and Unit weight entering column.

Place the product on scale when Insufficient indicator is OFF

Insufficient Indicator light will be OFF, if the weight exceeded the insufficient weight setting. Place the product on scale (Ex. 1kg =100pcs).

Enter the known quantity (Ex. 100) and press Pieces key (If the quantity is 10 pieces, press Pieces key to sample without entering the quantity). Wait for Unit Weight computation to be completed. The Unit Weight value will appear on Unit Weight column and the Unit Weight entering column.

3.2.2 Delete Item Code

1. Enter *Item Code Program* mode.

2. Enter ID Code.

3. Press ⌐−⌐.

4. Press [CLEAR] to delete, [TARE] to cancel.

3.2.3 Label Format List

Label Format No.	Label Standard	Label Size (mm)
0	DEFAULT	Label size set in specification setting
1	T1	60 x 28
2	T2	60 x 31
3	T3	60 x 34
4	T4	60 x 40
5	T5	60 x 43
6	T6	60 x 46
7	T7	60 x 49
8	T8	60 x 55
9	T9	60 x 37
10	T10	60 x 40
11	T11	60 x 43
12	T12	60 x 49
13	S	40 x 28
14	A	40 x 46
15	B	40 x 46
16	C	40 x 62.5
17	F1	*
18	F2	*
19	F3	*
20	F4	*
21	F5	*
22	F6	*
23	F7	*
24	F8	*
25-115	F9-F99	*

Table 3-4. Label Formats

📝 **Note** | **F1-F99 are available only when Free Format is programmed.*

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3.2.4 Factory Name File

Factory name is used for programming a short text describing the name of a factory. A maximum of 32 factory names can be programmed. The default factory name label can be set in SPEC 56, print centering of factory name on label can be selected at SPEC 57.

📝 **Note** | *Factory Name will not print on the label if the selected label format without print area for Factory Name or SPEC 55 is set to 0: NO PRINT.*

Operation	Function
From **Weigh mode** press [MODE] three times	Enter **S mode**
Press [2] or [+]	Select **Program Factory** mode
Press [✳ REPRINT]	Enter **Program Factory** mode
Enter Factory #, press [✳ REPRINT]	Enter Factory number (1-32)
Enter Factory name	Font choices display
Press [SHIFT UP] or [SHIFT DOWN] then press [CHAR SZ X]	Change font size (S1-S5; M1-M5)
Press [CODE]	Store data, return to **S mode**

Table 3-5. Program Factory Name

3.2.5 Print Factory Name Report

The Factory Name report can be printed on receipt paper. A full report includes all programmed factory data and a single report includes one factory data only.

Operation	Function
From **Weigh mode** press [MODE] three times	Enter **S mode**
Press [2] or [+]	Select **Program Factory** mode
Press [✳ REPRINT]	Enter **Program Factory** mode
Press [TARE]	Enter Factory name report print mode
Press [✳ REPRINT]	Enter start number
Press [✳ REPRINT]	Enter end number
Enter Factory number	Factory number for printed report
Press [TARE]	Print report, return to factory name mode

Table 3-6.   Factory Report

3.2.6   Delete Factory Name File

Operation	Function
From **Weigh mode** press [MODE] three times	Enter **S mode**
Press [2] or [+]	Select **Program Factory** mode
Press [✱ REPRINT]	Enter **Program Factory** mode
Enter factory number	Factory number will display
Press [–]	**DEL? Y-C N-T** displays
Press [CLEAR] to delete, [TARE] to cancel	Return to **S mode**

Table 3-7. Delete Factory File

3.3   Program Date and Time

The built-in clock system automatically works once set.

Operation	Function
From **Weigh mode** press [MODE] three times	Enter **S mode**
Press [4] or [+]	Select **Date and Time Program** mode
Press [✱ REPRINT]	Enter **Date and Time Program** mode
Enter date (MM/DD/YY) press [✱ REPRINT]	Enter Month, Day and Year
Enter Time (HH:MM) press [✱ REPRINT]	Store time and date, return to **S mode**

Table 3-8. Time and Date

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3.4 Address File

Address file is used to program factory address, which can be assigned in each item to be printed on the label. Standard format does not have a print area for address, the address cannot be printed when using these formats. To print an address on the label, a Free Format with an address print area programmed must be used. Maximum 16 Address (No. 1-16) can be programmed with up to eight programmable lines. The number of lines depend on the size of the print area or character size entry.

3.4.1 Program Address File

Operation	Function
From **Weigh mode** press [MODE] three times	Enter **S mode**
Press [5] or [+]	Select **Address Program** mode
Press [✱ REPRINT]	Enter **Address Program** mode
Enter Address number press [✱ REPRINT]	Enter Address number
Enter Address line 2	Enter address
Press [SHIFT UP] or [SHIFT DOWN] then press [CHAR SZ X]	Change font size (S1-S5; M1-M5)
Press [CODE]	Store data and return to **S mode**

Table 3-9. Program Address

3.4.2 Print Address File

Operation	Function
From **Weigh mode** press [MODE] three times	Enter **S mode**
Press [5] or [+]	Select **Address Program** mode
Press [✱ REPRINT]	Enter **Address Program** mode
Press [TARE]	Enter Address report print mode
Press [✱ REPRINT]	Enter start number
Press [✱ REPRINT]	Enter end number, print address full report
Enter Address number	Enter address number (Ex. 1) print single report
Press [TARE]	Return to **Address Program** mode

Table 3-10. Print Address

3.4.3 Delete Address File

Operation	Function
From *Weigh mode* press [MODE] three times	Select *Address Program* mode
Press [5] or [+]	Enter *Address Program* mode
Press [REPRINT]	Select *Address Program* mode
Enter Address number	Address number 1-16
Press [−]	*DEL? Y-C N-T* displays
Press [CLEAR] to delete, [TARE] to cancel	Return to *S mode*

Table 3-11. Delete Address File

3.5 Memory Status

This functions if used for checking the number of existing PLU and remaining programmable PLU

1. From *Weigh mode* press [MODE] three times, press [1] and then [0] to select *Memory Status Program* mode.
2. Enter the *Free Format* file to be deleted.
3. Press [REPRINT].
4. Press [TARE] to return to *S mode*.

3.6 Programming Multi Barcode Files

Operation	Function
From *Weigh mode* press [MODE] three times	Enter *S mode*
Press [1] and then [2], or [+]	Select *Multi Barcode Program* mode
Press [REPRINT]	Enter *Multi Barcode Program* mode
Enter Multi Barcode number, press [REPRINT]	Enter Multi Barcode number, press [REPRINT] to store data
Press [+]	Scroll through Multi Barcode data type
Press [REPRINT]	Select type
Enter barcode data, press [REPRINT]	Enter barcode data, press [REPRINT] to store data
Press [+]	Select Multi Barcode type
Press [CODE]	Store data, return to *S mode*

Table 3-12. Programming Multi-Barcode Files

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3.7   2D Barcode Text File

Maximum 999999 2D barcode texts are available for 2D barcode.

Operation	Function
From **Weigh mode** press [MODE] three times	Enter **S mode**
Press [1] and then [3], or [+]	Select **2D Barcode Text Program** mode
Press [* REPRINT]	Enter **2D Barcode Text Program** mode
Enter 2D Barcode Text number, press [* REPRINT]	Enter 2D Barcode Text number to be used, press [* REPRINT] to store data
Enter text data	Enter text data needed
Press [SHIFT UP] or [SHIFT DOWN] then press [CHAR SZ X]	Change font size if needed (**S1-S5**; **M1-M5)**
Press [CODE]	Store data, return to **S mode**

Table 3-13.   Program 2D Barcode Text File

3.7.1   Deleting 2D Barcode Text Files

1. From **Weigh mode** press [MODE] three times, press [1] and then [3], or [+] to select **2D Barcode Text Program** mode.

2. Enter 2D barcode text number to be deleted.

3. Press [−].

Press [CLEAR] for yes, [TARE] to cancel. Record is deleted and display returns to **S mode**.

4.0   Registration Mode

4.1   Rezero and Weighing Check

All weighing operation will be performed based on the procedure below.

1. Press [REZERO]. The screen will display 8's across the display.
2. Place an item on the scale.
3. Remove the item from the scale and check to ensure scale goes back to 0.0000 kg.

4.2   Tare Subtraction

One Touch Tare Subtraction

1. Confirm scale is at zero. See
2. Place the tare weight on the scale.
3. Press [TARE] to subtract tare weight.
4. Remove tare weight from scale.
5. Press [TARE] to clear tare weight.

Digital Tare Subtraction

1. Confirm scale is at zero. See
2. Key in tare weight using the keypad.

📝 **Note** | *Tare weight must be entered with leading and trailing zeros (i.e.0.0000)*

3. Press [TARE] to clear tare weight.

4.3   Item Call Up

1. Confirm scale is at zero. See
2. Enter the ID Code.
3. Press [CODE].
4. Press [CLEAR] to return to standby mode.

4.4   Set New Item Code in Registration Mode

This function is used to program a new item in Operation mode and update item files. To enable this function, SPEC 4 must be set to 0 in advance.

1. Confirm scale is at zero. See
2. Enter new ID code.
3. Press [CODE] to store the new item in item files.
4. Enter unit weight with keypad.
5. Press [UNIT WEIGHT] to update weight to new item.
6. Press [CLEAR] to return to standby status.

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4.5   Accumulation and Subtraction

There are two ways to issue a label or receipt for individual products:

1. Place the product on the scale.
2. Enter the known quantity of the product.

4.5.1   Accumulation and Subtraction

1. Confirm scale is at zero. See Section 4.1 on page 18

2. Enter item number and press CODE to call up item.
3. Enter the known quantity for the product for accumulation. (Max. 9999999)

4. Press CLEAR to exit Total mode.
5. Place product on the scale.

6. Press + to accumulate total.

7. Press CLEAR to exit Total mode.
8. Enter the known quantity for the product for subtraction.

9. Press ✱ REPRINT to issue label or receipt.

10. Remove product from scale and press CLEAR.

Note | *Auto exit from Total mode can be selected using SPEC 14.*

4.6   Unit Weight Operation

User can set new weight by sampling the product or enter the known unit weight by numeric keys.

4.6.1   Sampling

1. Confirm scale is at zero. See Section 4.1 on page 18
2. Place the product on the scale.

> **Note** *When placing samples on the scale if INSUFF has an arrow above it add more samples until it disappears. Then enter quantity using keypad and press Pieces.*

3.Enter the product quantity.

4.Press [PIECES] to sample.

> **Note** *Display Accuracy Unit Weight calculation during recomputing can be set at SPEC 9.*

4.6.2   Numeric Key

1. Confirm scale is at zero. See Section 4.1 on page 18
2. Place product on the scale.
3. Enter the known unit weight using the keypad.
4. Press [UNIT WEIGHT] to store.

4.6.3   Recomputing Unit Weight in Memory

This function is used to set new unit weight by sampling and updating item file in Counting mode.

1. Confirm scale is at zero. See Section 4.1 on page 18
2. Enter item number and press [CODE] to call up item.
3. Place the product on the scale until the indicator **RECOMP** has an arrow above it.
4. Press [PIECES] to recompute.

> **Note** *Display Accuracy Unit Weight calculation during recomputing can be set at SPEC 9.*

5. Press [UNIT WEIGHT] to update new weight to item file.

> **Note** *SPEC 4, SET TO NEW ITEM, must be set to 0:yes, to be able to save unit weight.*

6. Remove product from scale, press [CLEAR] to clear the item.

4.7   Inventory Operation

This function is used to store the product quantity in or out in item file. Inventory operation is only available after calling up an item and then pressing [SHIFT DOWN] + [I IN] or [SHIFT DOWN] + [J OUT] for IN or OUT inventory respectively. There are two ways to store the quantity data to inventory field of the item, manual transaction and total transaction of the individual item only. Inventory operation is not available for multiple items.

4.7.1   Manual Transaction

1. Confirm scale is at zero. See Section 4.1 on page 18

2. Enter item number and press [CODE] to call up item.

3. Press [SHIFT DOWN] + [i IN] to select Inventory IN.

Note *Press [SHIFT DOWN] + [i IN] for Inventory IN, press [SHIFT DOWN] + [H NON-ADD] to clear Inventory operation.*

4. Place the product on the scale.

5. Press [* REPRINT] to store the quantity into the item Inventory IN.

Note *In order to save the quantity into the item inventory SPEC 4, SET TO NEW ITEM must be set to 0:Yes.*

6. Remove the product from the scale and press [CLEAR] to clear item.

4.7.2   Total Transaction

1. Confirm scale is at zero. See Section 4.1 on page 18

2. Enter item number and press [CODE] to call up item.

3. Press [SHIFT DOWN] + [J OUT] to select Inventory OUT.

Note *Press [SHIFT DOWN] + [i IN] for Inventory IN, press [SHIFT DOWN] + [H NON-ADD] to clear Inventory operation.*

4. Place the product on the scale.

5. Press [+] to accumulate.

6. Press [CLEAR] to exit from Total mode.

7. Enter known quantity using keypad, press [+].

8. Press [* REPRINT] to store the quantity to Inventory OUT.

9. Remove the product from the scale and press [CLEAR] to clear the item.

4.8   Function Key

4.8.1   Net/Gross Key

Gross weight displays are available in Registration mode by pressing [SHIFT DOWN] + [M NET/G] to enter Gross mode.

1. Confirm scale is at zero. See Section 4.1 on page 18
2. Place weight on scale.

3. Press [TARE] to subtract tare weight.

4. Add more weight on scale.

5. Press [SHIFT DOWN] + [M NET/G] to enter Gross mode.

6. Press [SHIFT DOWN] + [M NET/G] to return to Net mode.

7. Remove all weight from scale and clear tare value.

4.8.2 Switch Platform Key

Switching platform is available in Operation mode by pressing [SCALE] to switch between Scale 1 and Scale 2.

1. Confirm scale is at zero. See Section 4.1 on page 18

2. Enter item number and press [CODE] to call up item.

3. Press [SCALE] to switch between scale 1 and 2.

4.8.3 Switch Weight Unit Key

This function is used to change the weight unit between kg and lb in Operation mode. The default weight unit is set using SPEC 600. To enable this function SPEC 642, KG/LB Inhibit, must be set to 0:No in advance.

1. Confirm scale is at zero. See Section 4.1 on page 18

2. Put weight on scale.

3. Press [SHIFT DOWN] + [M NET/G] to change weight unit from kg to lb. Press again to change back.

4.8.4 View Item Key

The following view keys list enables user to view the items data in operation mode.

Key Combination	Function
[SHIFT DOWN] + [A ID CODE]	View Id Code
[SHIFT DOWN] + [B P. NAME]	View Part Name
[SHIFT DOWN] + [C PART NO]	View Part Number
[SHIFT DOWN] + [D LOCATE]	View Location
[SHIFT DOWN] + [E INVENT]	View Inventory
[SHIFT DOWN] + [F THHOLD]	View Threshold
[SHIFT DOWN] + [G SET PT]	View Set-Point Data (Set point 1 and 2)

Table 4-1. View Item Key

1. Confirm scale is at zero. See Section 4.1 on page 18

2. Enter item number and press [CODE] to call up item.

3. Enter [SHIFT DOWN] and View Key [A ID CODE] through [G SET PT].

📝 **Note** *Use [«] or [»] to view Set Point 1 and 2.*

4. Information will be displayed.

4.8.5   Address No Key

1.   Confirm scale is at zero. See Section 4.1 on page 18

2.   Enter item number and press [CODE] to call up item.

3.   Press [SHIFT DOWN] + [L ADDR] to temporarily change the address number to print on label.

4.   Enter new address and press [REPRINT] to store.

5.   Place the product on the scale and press [REPRINT].

6.   Remove the product from the scale and press [CLEAR].

4.8.6   Lot Number Key

This function is used to set and save new lot number in Registration mode. To use this function the SPEC 12, Keep lot number in Registration mode, must be set to 0:Allow in advance.

1.   Confirm scale is at zero. See Section 4.1 on page 18

2.   Enter item number and press [CODE] to call up item.

3.   Press [LOT NO].

> 📝 **Note** *To print original item and lot number on label, place the product on scale and press [REPRINT].*

4.   Enter new lot number using keypad.

5.   Place the product on scale and press [REPRINT].

6.   Remove the product from the scale and press [CLEAR].

4.8.7   Sequence Number Key

This function is used to allow the user to set and save new sequence number in Registration mode.

1.   Confirm scale is at zero. See Section 4.1 on page 18

2.   Press [SHIFT DOWN] + [SHIFT DOWN].

3.   Enter new Sequence number. Press [CLEAR] twice to exit.

5.0   Report Mode

The DC-400 has report function to print out various kinds of transaction reports for analysis and checking. The types of reports are below:

- **Item Report** - Print item data programmed
- **Inventory Report** - Print item inventory data and item in/out count
- **Shelf Location Print** - Print shelf location label.

5.1   Report Mode Entry

1. From **Weigh mode** press [MODE] twice to enter **X mode**.

2. Press [+] or [−] to scroll through report types

3. Press [*REPRINT] to select report type.

5.2   Item Report

Item Report can be printed on receipt paper. **All Item Report** or **One Item Report** can be selected to print.

5.2.1   One Item Print

1. From **Weigh mode** press [MODE] twice to enter **X mode**.

2. Press [+] or [−] to scroll through options to **Item Report**.

3. Press [*REPRINT] to select **Item Report**.

4. Press [+] or [−] to scroll through options to **One Item Print**.

5. Press [*REPRINT] to select **Item Report**.

6. Enter existing Item Code for One Item Report printing.

7. Press [*REPRINT] to print report.

5.2.2   All Item Print

1. From **Weigh Mode** press [MODE] twice to enter **X mode**.

2. Press [+] or [−] to scroll through options to **Item Report**.

3. Press [*REPRINT] to select **Item Report**.

4. Press [+] or [−] to scroll through options, find **All Item Print**.

5. Press [*REPRINT] to print **All Item Print**.

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5.3   Inventory Report

Inventory Report has three possible report print options, *Threshold Print*, *In and Out Count Print*, and *Clear In and Out Count File*. The reports print on receipt paper.

5.3.1   Threshold Report

Threshold report shows under stocked or over stocked items at various levels by presetting the optimal stock levels. This prevents out of stocks and keeps an optimum inventory balance. Threshold report can be printed by entering the stock level percentage. Only items stock level or below the entering percentage will print on the report.

The formula for stock level is: Stock Level% = [(Inventory- Threshold)/Threshold] X 100

5.3.1.1   Print Threshold Report

1.   From *Weigh mode* press [MODE] twice to enter *X mode*.

2.   Press [+] or [−] to scroll through options to *Inventory Report*.

3.   Press [✱ REPRINT] to select *Inventory Report*.

4.   Press [+] to scroll through options to *Threshold*.

5.   Press [✱ REPRINT] to select *Threshold*.

6.   Press [✱ REPRINT] to select *Stock%.*

7.   Enter the percentage of stock level.

8.   Press [✱ REPRINT] to print Threshold report. To stop printing press **FEED**.

5.3.2   In/Out Count Report

1.   From *Weigh mode* press [MODE] twice to enter *X mode*.

2.   Press [+] or [−] to scroll through options to *Inventory Report*.

3.   Press [✱ REPRINT] to select *Inventory Report*.

4.   Press [+] to scroll through options to *In/Out Report*.

5.   Press [✱ REPRINT] to print In/Out report. To stop printing press **FEED**.

5.3.2.1   Clear In/Out Report

1.   From *Weigh mode* press [MODE] twice to enter *X mode*.

2.   Press [+] or [−] to scroll through options to *Inventory Report*.

3.   Press [✱ REPRINT] to select *Inventory Report*.

4.   Press [+] to scroll through options (*Clear Daily, Clear Term, Clear All*).

5.   Press [✱ REPRINT] to select option.

5.4   Shelf Location

Shelf location is used to select shipping label format of the item for shipment. If standard format does not have the print area for programmed shipping data it is required to use a free format with the print area for programmed shipping data.

5.4.1   Shelf Location Print

1. From **Weigh mode** press [MODE] twice to enter **X mode**.

2. Press [+] or [−] to scroll through options to **Shelf Location Print**.

3. Press [✱ REPRINT] to select.

4. Enter ID Code then press [✱ REPRINT].

5. Press [«] or [»] to select label format.

6. Press [✱ REPRINT] to print Shelf Location label.

6.0 Specification Settings

Span Switch must be enabled to use this function.

Enter *Z mode* before setting.

Operation	Function
Press and hold [REZERO] and enter [2], [8], [4].	Specification options will display.
Press [+] or [−]	Increase or decrease Specification count.
Enter SPEC #, press [PIECES]	Enter desired Specification number.
Press [«] or [»]	Moves cursor right or left.
Enter specification option, press [*REPRINT]	Enter option according to table, press [*REPRINT] to move to next Specification.
Press [CODE]	Store the updated information and return to *Z mode*.

Table 6-1. Specification Entry

Note *Press [TARE] to return to Z mode without saving.*

6.1 Customer Specification Settings

SPEC	Option	Description
00	Auto power saving when no weight change & no key press	
	0	Inhibit
	1	3 minutes
	2	10 minutes
	3	30 minutes
	4	1 hour
	5	3 hours
01	Power saving mode	
	0	Back Light off
	1	Power off
02	Negative Counting	
	0	No
	1	Yes
03	Extent of insufficient samples	
	0	0.1%
	1	0.2%
	2	0.0%
04	Set new item during registration mode	
	0	Yes
	1	No
05	Date order	
	0	Month/Day/Year
	1	Day/Month/Year
	2	Year/Month/Day

Table 6-1. Customer Specification Settings

SPEC	Option	Description
06	Time format	
	0	24 Hour
	1	12 Hour (am/pm)
07	Unit weight auto recomputing	
	0	No
	1	Yes
08	Sampling times for unite weight calculation	
	0	15 Times
	1	20 Times
09	Display accuracy unit weight calculation during recomputing	
	0	No
	1	Yes
10	Set point buzzer	
	0	On
	1	Off
11	Clear all input keys in one touch	
	0	Yes
	1	No
12	Keep lot number in registration mode	
	0	Allow
	1	Inhibit
13	Job Sequence	
	0	Disable
	1	Enable
14	Auto exit from add more	
	0	No
	1	Yes
15	SIO Select Job	
	0	No operation
	1	Track N Print (TNP)
	2	Force Balance (FB)
	3	PC Connection
	4	Printer Connection
	5	Barcode Scanner
16	RS-232C Baud Rate (SIO)	
	0	1200
	1	2400
	2	4800
	3	9600
	4	19200
	5	38400
17	RS-232C Data length (SIO)	
	0	7 bits
	1	8 bits
18	RS-232C Parity bit (SIO)	
	0	None
	1	Odd
	2	Even

Table 6-1. Customer Specification Settings (Continued)

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SPEC	Option	Description
19	RS-232C Stop bit (SIO)	
	0	1 bit
	1	2 bits
20	RS-232 Option card with 8 PIN DIN2 and 8 PIN DIN1	
	0	Not connected
	1	Printer/Force balance
	2	Force balance/Printer
	3	Printer/PC
	4	PC/Printer
	5	PC/Force balance
	6	Force Balance/PC
21	RS-232 Baud Rate for 8 PIN DIN1 connector (optional card)	
	0	4800
	1	9600
	2	19200
	3	38400
22	RS=232 Data length for 8 PIN DIN1 connector (optional card)	
	0	7 bits
	1	8 bits
23	RS-232 Stop bit for 8 PIN DIN1 connector (optional card)	
	0	1 bit
	1	2 bits
24	RS-232 Parity bit for 8 PIN DIN1 connector (optional card)	
	0	None
	1	Odd
	2	Even
25	RS-232 Baud rate for 8 PIN DIN2 connector (optional card)	
	0	4800
	1	9600
	2	19200
	3	38400
26	RS-232 Data length for 8 PIN DIN2 connector (optional card)	
	0	7 bits
	1	8 bits
27	RS-232 Stop bit for 8 PIN DIN2 connector (optional card)	
	0	1 bit
	1	2 bits
28	RS-232 Parity bit for 8 PIN DIN2 connector (optional card)	
	0	None
	1	Odd
	2	Even
29	RS-232 Connection to Force Balance	
	0	Disable
	1	Enable
30	Type of Force Balance	
	0	Export
	1	HR-60 (JAPAN)
	2	SHG-200 (JAPAN)
	3	SHG-300 (JAPAN)

Table 6-1. Customer Specification Settings (Continued)

SPEC	Option	Description
31	PC/PRN Output data method	
	0	No operation
	1	Count condition (PC only)
	2	By [+] / [−] /Print Key (PC/PRN)
	0	For both cases 1 & 2
32	Select external printer type	
	0	Eltron LP2622/LP2722 or TVP1000
	1	SE250
	2	DP122 (JAPAN)
33	External Eltron/TVP printer download label format	
	0	Enable
	1	Disable
34	Print when press [+] / [−] key	
	0	Disable
	1	Enable
35	PC data with header	
	0	Yes
	1	No
36	PC data header type	
	0	Code
	1	Title
37	Barcode scanner (BCS) connection	
	0	Disable
	1	Enable
38	Barcode scanner (BCS) with header	
	0	Yes
	1	No
39	Track N Print (TNP) Timeout	
	0	2 seconds
	1	8 seconds
	2	32 seconds
40	Selection of Track N Print network interface	
	0	No interface (RS-232)
	1	Ethernet - coaxial cable
	2	Ethernet - twisted cable
41	Port number (IP address)	
	Range	1-254
42	Set scale number	
	Range	0-999999
43	Select receipt or label paper printing	
	0	Print receipt paper
	1	Print label paper
44	Printing speed for receipt	
	0	Slow
	1	Normal
	2	High

Table 6-1. Customer Specification Settings (Continued)

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W E I G H I N G   S Y S T E M S

SPEC	Option	Description
45	Printing speed for label	
	0	Slow
	1	Normal
	2	High
46	Label printing density	
	0	Low
	1	Medium
	2	Medium high
	3	High
48	Peel sensor function	
	0	Disable
	1	Enable
49	Number of reprint labels	
	0	No label
	1	1 label
	2	2 labels
50	Selection of label and receipt printing operation	
	0	All operation (In/out/non-add)
	1	Out (shipping operations)
	2	In (receiving operations)
	3	In & Out (receiving and shipping)
	4	No printing
51	Human readable barcode printing format	
	0	Do not print
	1	Print
52	Item data (such as ID code, part name, part no. & lot no.) printing format	
	0	Center
	1	Left aligned
53	Date title print	
	0	No
	1	Yes
54	Weigh data and quantity print	
	0	Do not print
	1	Print
55	Print factory name on label	
	0	Do not print
	1	Print
56	Default printing label factory number	
	Range	0-32
57	Format of printing factory name	
	0	Centered
	1	Left aligned
58	Selection of logo to print on label	
	0	Do not print
	1	Logo 1
	2	Logo 2
	3	Logo 3
	4	Logo 4

Table 6-1. Customer Specification Settings (Continued)

SPEC	Option	Description
59	Selection of Barcode Type	
	0	Code128
	1	Ean128
	2	Code39
60	Auto Print Function	
	0	Between setpoint 1 and 2
	1	Disable
61	Ethernet Functions	
	0	No operation
	1	Scale genie
	2	Data transfer mode
62	RS-232C Software handshaking	
	0	Disable
	1	Enable
63	Sample Quantity	
	0	10 pieces
	1	25 pieces
	2	50 pieces
	3	100 pieces
64	Scale A or B	
	0	Manual
	1	Auto
65	Unit of pieces weight	
	0	1000 pieces
	1	1 piece
66	RESERVED	
67	IMS	
	0	Disable
	1	Enable
68	Epson II	
	0	Disable
	1	Enable
70	UPD lot & part number	
	0	Disable
	1	Enable
71	Text 11-16 in TTL	
	0	Disable
	1	Enable
72	Comma in quantity	
	0	Disable
	1	Enable
73	Print barcode	
	0	With header
	1	All without header
	2	Quantity without header
74	Overwrite unit WT	
	0	No
	1	Yes (if unit WT =0)

Table 6-1. Customer Specification Settings (Continued)

SPEC	Option	Description
75	Reset sequence number	
	0	No
	1	Yes (when print)
76	Selectable printer	
	0	Disable
	1	Enable
77	Selectable prints	
	0	Disable
	1	Enable
78	Transaction ABC	
	0	Disable
	1	Enable
79	ID Manager	
	0	Disable
	1	Enable
80	DHCP	
	0	Disable
	1	Enable
81	2D Item-TTL SEQ#	
	0	Disable
	1	Enable
82	TTL SEQ NUM INC	
	0	Yes
	1	No
83	Wireless Comm	
	0	Disable
	1	Enable
84	Select UW/scale	
	0	Disable
	1	Enable
85	Scale 1 per pcs	
	0	Disable
	1	Enable
86	Scale 2 per pcs	
	0	Disable
	1	Enable
87	Scale 3 per pcs	
	0	Disable
	1	Enable
88	Scale 4 per pcs	
	0	Disable
	1	Enable
89	Auto print condition	
	0	No condition
	1	WT=below
90	Print condition	
	0	No condition
	1	Lot number

Table 6-1. Customer Specification Settings (Continued)

SPEC	Option	Description
91	SP buzzer condition	
	0	Standard
	1	Inside set point
	2	Outside set point
100	Server IP address	
	Range	1-255
101	⌁ Key	
	0	Enable
	1	Disable
102	Black bar sensing label	
	0	Normal
	1	Black bar sensing
103	Transparent film label	
	0	No
	1	Yes
104	Print checking line	
	0	Print
	1	Do not print
105	Print label orientation	
	0	From bottom
	1	From top
106	Default label format for item printing	

0	T1	NA	A		13	A	T7	T8
1	T2	A	B		14	B	T8	T9
2	T3	B	C		15	C	T9	T10
3	T4	C	U2		16	F1	T10	F1
4	T5	U2	U3		17	F2	F1	F2
5	T6	U3	U4		18	F3	F2	F3
6	T7	U4	U5		19	F4	F3	F4
7	T8	U5	U6		20	F5	F4	F5
8	T9	U6	U7		21	F6	F5	F6
9	T10	U7	U8		22	F7	F6	F7
10	T11	U8	T5		23	F8	F7	F8
11	T12	T5	T6		24	-	F8	-
12	S	T6	T7					

Table 6-1. Customer Specification Settings (Continued)

SPEC	Option	Description		
107	Default label format for total printing			

0	T1	NA	A	13	A	T7	T8
1	T2	A	B	14	B	T8	T9
2	T3	B	C	15	C	T9	T10
3	T4	C	U2	16	F1	T10	F1
4	T5	U2	U3	17	F2	F1	F2
5	T6	U3	U4	18	F3	F2	F3
6	T7	U4	U5	19	F4	F3	F4
7	T8	U5	U6	20	F5	F4	F5
8	T9	U6	U7	21	F6	F5	F6
9	T10	U7	U8	22	F7	F6	F7
10	T11	U8	T5	23	F8	F7	F8
11	T12	T5	T6	24	-	F8	-
12	S	T6	T7				

SPEC	Option	Description
108		Print manual weight signature on item label
	0	Inhibit
	1	Allow
109		Left alignment of price and weight on label
	0	NO
	1	Price
	2	Weight
	3	Price and Weight
110		Print $ and weight unit of label
	0	Do not print
	1	Print
111		Print checksum for item barcode
	0	Disable
	1	Enable
112		Zero suppress for date and time
	0	Disable
	1	Enable
113		Enlarge line spacing for G3 font on item label
	0	Inhibit
	1	Allow
114		Alignment of commodity name on label
	0	Center
	1	Left
	2	Justify
115		Continuous label
	0	Disable
	1	User programmable

Table 6-1. Customer Specification Settings (Continued)

SPEC	Option	Description
116	Multi barcode type	
	0	EAN128
	1	RSS
	2	CODE128
	3	PDF417#
	4	GS1 QR Code#
	5	GS1 DataMatrix #
	6	GS1 Databar Composite
	7	Codabar
	8	Code39
	9	GM Code #
117	Enable password mode	
	0	Allow
	1	Inhibit
	2	Allow multi password
118	Year format	
	0	YY
	1	YYYY
120	Character size for barcode data	
	0	Large
	1	Small
121	Print format of month	
	0	Number
	1	2 Alphabetic
	2	3 Alphabetic
122	Numeric key entry reset	
	0	3 sec
	1	5 sec
	2	Disable
123	Total label printing	
	0	Do not print
	1	Print
124	Tare Override	
	0	Allow
	1	Inhibit
125	Setting of Client/Server	
	0	Client
	1	Server/Workstation
126	Mask barcode last human readable check digit	
	0	No
	1	Yes
127	Wireless communication	
	0	No
	1	Yes
128	Print control for image	
	0	Disable
	1	Enable

Table 6-1. Customer Specification Settings (Continued)

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SPEC	Option	Description
129	Gratuitous ARP	
	0	Disable
	1	Enable
130	RTS/CTS handshaking of RS-232C	
	0	On
	1	Off
131	Symbol format for date print	
	0	Dash
	1	Period
	2	Null
132	Width of stacked symbol in segments for RSS barcode	
	0	2
	1	4
	2	6
	3	8
133	Print quality of 2D barcode	
	0	Mid
	1	High-mid
	2	High
	3	Highest (for QR code only)
134	RSS and 2D barcode human readable interpretation print	
	0	All
	1	GTIN only
	2	No print
135	Barcode check line	
	0	Print
	1	Do not print
136	Feed for continuous label	
	0	No
	1	Yes
137	Gap value in-feed operation	
	0	Re-adjustable
	1	No change
138	Weight data synchronization function	
	0	Allow
	1	Inhibit
	2	Enforce
140	Recalculate label and gap value by [REZERO] and FEED key	
	0	Allow
	1	Inhibit
141	FTP Client auto connection interval (minute)	
	Value	0-9999
142	FTP Client data connection mode	
	0	Port
	1	PASV
143	Ethernet IC reset interval (minute)	
	Value	5-999

Table 6-1. Customer Specification Settings (Continued)

SPEC	Option	Description
144	Offset position for printing receipt	
	0	0mm
	1	1mm
	2	2mm
	3	3mm
	4	4mm
	5	-1mm
	6	-2mm
	7	-3mm
	8	-4mm

Table 6-1. Customer Specification Settings (Continued)

6.2 Weight and Measurement Specification Settings

Note *Span Switch must be enabled when accessing this mode.*

SPEC	Option	Description
600	Scale unit specification	
	0	gram
	1	kilogram
601	Display resolution	
	0	1/10,000
	1	1/5,000
	2	1/2,500
602	Internal Count	
	0	500,000
	1	1,000,000
603	Minimum display (increment) for Scale A	
	0	2
	1	1
	2	5
	3	10
604	Weight decimal point for Scale A	
	0	0
	1	0.0
	2	0.00
	3	0.000
	4	0.0000
605	Load cell sensitivity selection (mV/V) for Scale A	
	0	4.00 mV/V
	1	3.76 mV/V
	2	3.52 mV/V
	3	3.28 mV/V
	4	3.04 mV/V
	5	2.80 mV/V
	6	2.56 mV/V
	7	2.32 mV/V
	8	2.08 mV/V
	9	1.84 mV/V
	10	1.60 mV/V
	11	1.36 mV/V
	12	1.12 mV/V
	13	0.88 mV/V
	14	0.64 mV/V
	15	0.40 mV/V
606	Load cell type for Scale-1	
	0	500g/5kg twin load cell
	1	2.5g/25 kg twin load cell

Table 6-2. Weight and Measurement Specification Settings

SPEC	Option	Description
607	A/D Board type for Scale-1	
	0	Normal
	1	Prevent from small vibration/fast change in display
	2	Prevent from medium vibration
	3	Prevent from large vibration/slow change in display
608	External Scale B connection	
	0	Disable
	1	Enable
609	Minimum display (increment) for Scale B	
	0	2
	1	1
	2	5
	3	10
610	Weight decimal point position for Scale B	
	0	0
	1	0.0
	2	0.00
	3	0.000
	4	0.0000
611	Load cell sensitivity selection (mV/V) for Scale B	
	0	4.00 mV/V
	1	3.76 mV/V
	2	3.52 mV/V
	3	3.28 mV/V
	4	3.04 mV/V
	5	2.80 mV/V
	6	2.56 mV/V
	7	2.32 mV/V
	8	2.08 mV/V
	9	1.84 mV/V
	10	1.60 mV/V
	11	1.36 mV/V
	12	1.12 mV/V
	13	0.88 mV/V
	14	0.64 mV/V
	15	0.40 mV/V
612	Load cell type for Scale B	
	0	Standard/Normal load cell
	1	Abnormal load cell with large offset
613	A/D Board type for Scale B	
	0	Normal
	1	Prevent from small vibration/fast change in display
	2	Prevent from medium vibration
	3	Prevent from large vibration/slow change in display
614	External Scale C connection	
	0	Disable
	1	Enable

Table 6-2. Weight and Measurement Specification Settings (Continued)

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SPEC	Option	Description
615		Minimum display (increment) for Scale C
	0	2
	1	1
	2	5
	3	10
616		Weight decimal point position for Scale C
	0	0
	1	0.0
	2	0.00
	3	0.000
	4	0.0000
617		Load cell sensitivity selection (mV/V) for Scale C
	0	4.00 mV/V
	1	3.76 mV/V
	2	3.52 mV/V
	3	3.28 mV/V
	4	3.04 mV/V
	5	2.80 mV/V
	6	2.56 mV/V
	7	2.32 mV/V
	8	2.08 mV/V
	9	1.84 mV/V
	10	1.60 mV/V
	11	1.36 mV/V
	12	1.12 mV/V
	13	0.88 mV/V
	14	0.64 mV/V
	15	0.40 mV/V
618		Load cell type for Scale C
	0	Standard/Normal load cell
	1	Abnormal load cell with large offset
619		A/D Board type for Scale B
	0	Normal
	1	Prevent from small vibration/fast change in display
	2	Prevent from medium vibration
	3	Prevent from large vibration/slow change in display
620		Tare range settings
	0	100% Full Scale
	1	<50% Full Scale
	2	<5% Full Scale
621		Digital tare setting
	0	Disable
	1	Enable
622		Digital tare accumulation
	0	No
	1	Yes
623		Priority of tare operation
	0	One touch tare priority
	1	Digit tare priority

Table 6-2. Weight and Measurement Specification Settings (Continued)

SPEC	Option	Description
624	Tare subtraction	
	0	Yes
	1	No
625	Tare addition	
	0	Yes
	1	No
626	Tare value exchange	
	0	Yes
	1	No
627	Zero tracking when tare	
	0	Yes
	1	No
628	Tare when scale swap	
	0	Old tare
	1	Clear tare
629	Weight reset when tare	
	0	Yes
	1	No
630	Auto clear tare when rezero	
	0	No
	1	Yes
631	Initial start range settings	
	0	+Unlimited-10% full scale
	1	± 2% Full scale
	2	+/- 10% Full scale
632	Zero range settings	
	0	+Unlimited-10% full scale
	1	+/- 2% Full scale
	2	+/- 10% Full scale
633	Zero lamp lighting method	
	0	Gross weight
	1	Net weight
634	Rezero when changing scale	
	0	No Rezero
	1	Rezero
635	Stability check when changing scale	
	0	Stability check
	1	No stability check
636	Internal count protected by Span Switch	
	0	No
	1	Span Switch protect
637	Calibration/default SPEC/SPEC142 mode protected by Span Switch	
	0	Span Switch protection
	1	No protection
638	Display at minus weight	
	0	Minus gross <= 9e
	1	Minus gross weight mask

Table 6-2. Weight and Measurement Specification Settings (Continued)

SPEC	Option	Description
639	Masked display at minus weight	
	0	Gross weight
	1	Net weight
640	Over weight masked	
	0	At + 1D
	1	At + 9D
641	Selection of scale starting method	
	0	Auto start
	1	Manual start
642	Kg/lb lamp inhibit	
	0	No
	1	Yes
643	Gross mode display	
	0	Yes
	1	No
644	Selection of decimal point type	
	0	Period display
	1	Comma display
646	Automatic unit weight clear conditions	
	0	Disable
	1	Over Net 5D & Gross 21D & weight stable
	2	>= Net 1D & weight stable
	3	>= Net 1D & quantity >0 & weight stable
700	Version display when power on	
	0	Allow
	1	Inhibit
702	Angle rotation for certain items printing	
	0	Counter clockwise
	1	Clockwise
703	Net/gross multi interval	
	0	Gross multi-interval
	1	Net multi-interval
704	Manual clear of tare	
	0	Allow
	1	Inhibit
705	Password setting	
	0	Allow
	1	Inhibit

Table 6-2. Weight and Measurement Specification Settings (Continued)