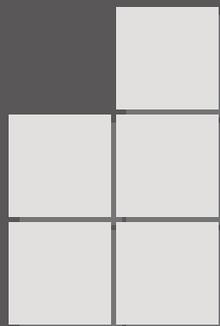
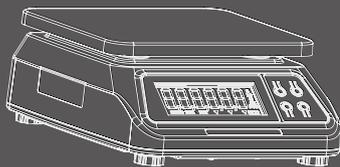


SHANGHAI DIGITAL BALANCE ELECTRONIC CO., LTD



INTRODUCTION

Thank you for purchasing the DSW-100 series simple weighing scale from SHANGHAI DIGITAL BALANCE ELECTRONIC CO., LTD.

The DSW-100 series has many features and designed functions that are conducive to operate and increase customer satisfaction. We believe that all your needs will be fully match.

You can discover many convenient functions and features through this manual.

SCALE FEATURE

- DSW-100 has weighing and counting functions.
- Backlit display with automatic energy saving mode. In addition, the brightness of the backlight and the auto-off time are set by the user.
- In addition to using the AC adapter, it can also be powered by a built-in universal dry battery (alkaline dry battery with battery model R20P SIZE-D 1.5V), which is very suitable for use in a mobile working environment.
- Display backlight brightness level can be set from 0 to 9, level 0 turns off the backlight, level 9 is the brightest.

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OPERATIONAL WARNING



Please follow the instructions below to operate the product to ensure product and personal safety.



Before installation, it is important to check whether the power supply indicated by the brand name matches to ensure the normal operation of the machine.



Keep your fingers dry when inserting or removing the power Plug to avoid electric shock.



Sharing sockets with other high-power devices can cause large fluctuations. Make sure that one scale uses a matching power outlet.



Metal objects or liquids can cause fire or rust in the scale. Keep an appropriate distance from the scale to avoid damage.



Do not insert metal or flammable objects at the interface to avoid damage to the machine or fire.



Do not scratch or modify the power cord, bend excessively or place heavy objects on top to avoid fire or short circuit.



If the scale falls, please turn off the switch and power Plug immediately, suspend use, and contact the service personnel in time to avoid fire or electric shock.



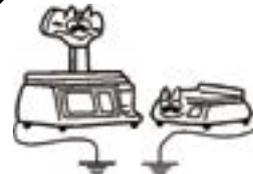
When the scale emits smoke or strange smell, please stop using it immediately, turn off the switch and power supply, and contact the service personnel in time.



Immediately turn off the switch and Plug when metal fragments or liquids enter the interior, suspend use and contact service personnel to avoid fire or electric shock.



To avoid disconnection of the power cord or peeling of the cord when unplugging the power cord, do not pull on the cord.



Make sure that the scale and extension cable are properly grounded, as this can cause external metal parts to be electrostatically charged to prevent fire or electric shock.



Do not remove, repair or modify the scale body, high-voltage, high-heat parts or internal edges to ensure personal safety.

⊕ PRECAUTIONS

Please follow the prompts to extend the life.

- Please avoid placing the product in the following locations:
If the temperature is too high or too low, direct sunlight, wet place;
At the shared power supply, excessive vibration, dust, and moisture.
- Do not press the button too hard, please touch the button.
- Do not suddenly bump into the machine to avoid damaging the load cell.
- Do not press the center of gravity on the weighing platform to avoid damage to the load cell.
- To clean the weighing pan and keyboard, use a dry cloth and wipe with a detergent. Do not use thinner or other volatile solvents.
- In order to ensure the normal use of the scale, before starting the operation every day, adjust the level and lock the foot nut, and place a known weight of the item on the weighing platform to check the weighing of the scale.
- Do not place the instrument on an unstable or inclined surface to avoid dropping.
- Use standard thermal paper to store thermal paper under direct sunlight, high temperatures, dust, or moisture.
- When the mechanical equipment is moved to a higher temperature in a place with a lower temperature (such as a refrigerating room), because the temperature difference is large, the power supply cannot be turned on immediately to prevent the condensation of the water vapor and cause damage to the machine.
- Keep one socket and one machine, avoiding high voltage or equipment that may cause power interference.
- Thermal print head failure is not covered by the warranty. Please use and maintain the equipment properly according to the instructions or service personnel's recommendations.
- Do not use the long-distance line of the power Plug of the scale. Be sure to keep it in the AC socket. Keep the hand dry when pulling the Plug. Excessive bending and pulling will damage the power cord and cause fire or electric shock.

***NOTICE**

If you have any questions,
please contact your local
dealer or visit our website:
www.dbscale.com.cn
Thank you.

1.1 Product specifications

◦ Maximum range	3 kg	6 kg	15kg	30kg	30lb
	60lb	3/6kg	6/15kg	15/30lb	30/60lb

- Internal fractional value Up to 100,000
- Display division value Range 1000 ~ 20000

1000	1250	1500	2000	2500
3000	4000	5000	6000	7500
10000	12500	20000		

- Nonlinear error <0.008% FS (display only)

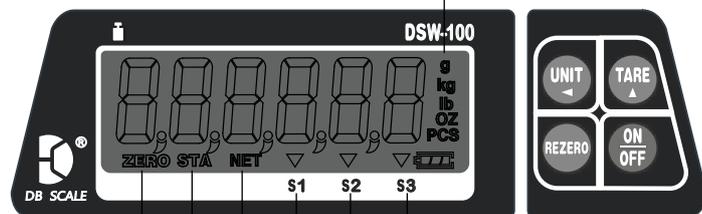
- Maximum counting range 0 ~ 60000PCS
- Operating temperature 0 ~ 40°C
- Use relative humidity 15% ~ 85%RH(No condensing)

- Display device

Monitor	6-digit LCD, 14 indicators
Capacity indicator	4
Unit of weight	5 of them, g/kg/lb/oz/pcs
Status Indicator	6 of them are ZERO/STABLE/NET/S1/S2/S3
Decimal symbol	You can choose "." or ","
Operation buttons	[REZERO]/[UNIT/ ←]/[TARE/ ↑]/[ON/OFF]
Power supply	1. 4 R20P SIZE D 1.5V dry batteries 2. External AC adapter DC 5~12V/0.5A
Interface	1 RS-232 interface (data 600 ~ 57600 bit/s baud, 8bit Data, 1bit Stop, No parity bit)/1 USB communication interface

1.2 Indicator display

The unit of weight is “g” (gram)/“kg” (kg)/“lb” (pound)/“oz” (ounce)/when in counting mode, the corresponding “g” / “kg” / “lb” / “Oz” / “PCS” indicator lights



- Weight zero indicator, light when the weight is "0"
- When the weight value is stable, the indicator lights
- When the displayed value is net weight, the indicator lights

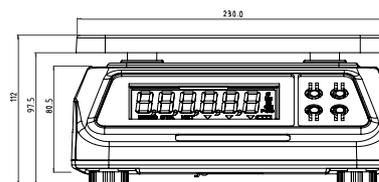
- When S3 is displayed, when the weight is locked (HOLD), the indicator lights
- When S2 is displayed, when the electronic scale is in the process of setting and calibration, this indicator lights
- When the counting mode is set in the number of samples, this indicator lights

1.3 Basic function keys

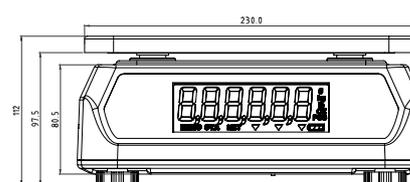
Keyboard type		Specific display
	Unit conversion key	In setting mode, select set digit, in weighing mode, unit conversion and or counting sampling confirmation button (only valid under the conditions allowed by counting mode)
	Tare mode key	In the setting mode, select the set digit, in the weighing mode, the peeling operation or long press for 3 seconds to enter the function (counting mode) button key (only valid under the conditions allowed by the counting mode)
	Zero key	It is the operation confirmation and data save button in the setting mode, and the zero operation button in the weighing mode
	Power key	Host power switch, exit setting in setting mode

1.4 Global view

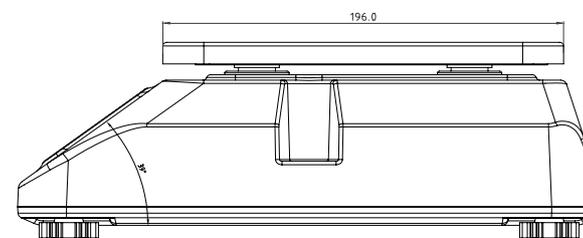
■ Front view



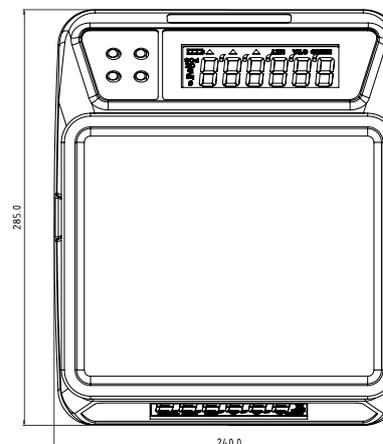
■ Back view



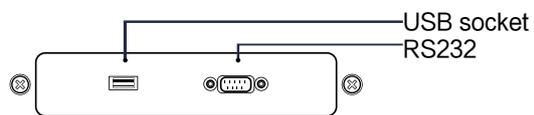
■ Side view



■ Top view

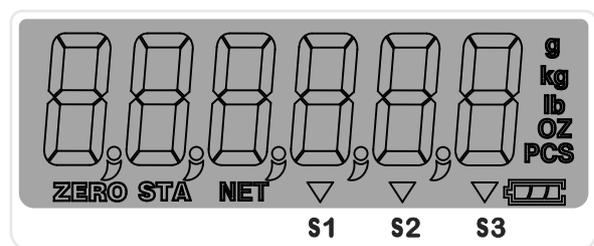


1.5 Interface



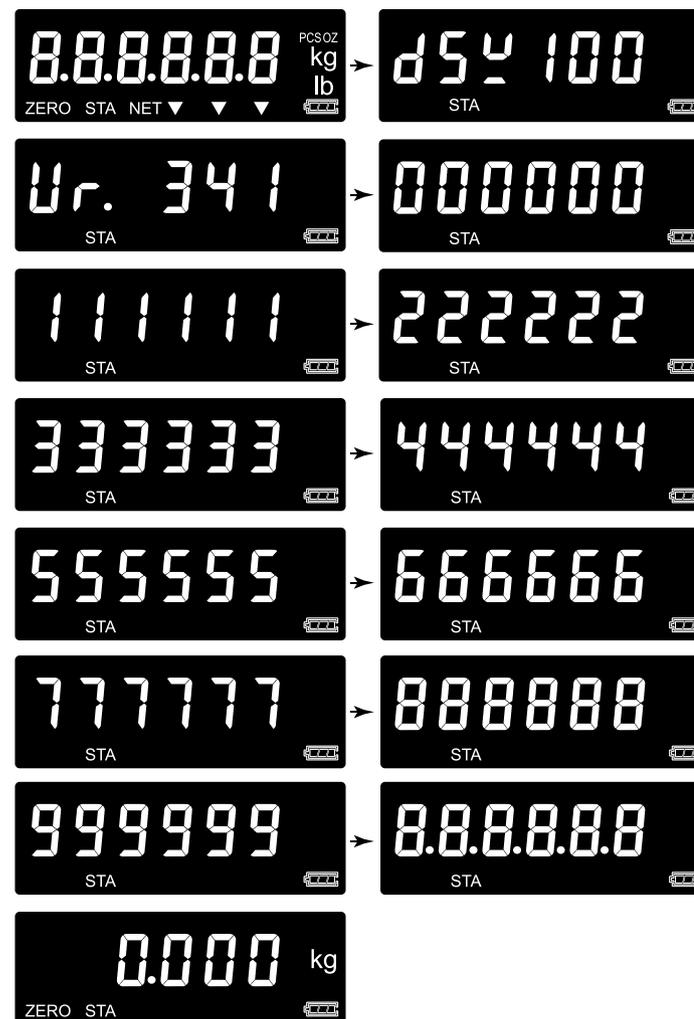
1.6 Display

■ Main/sub screen



2.1 Boot operation

· Toggle the reset switch on the bottom left side of the scale



Note:

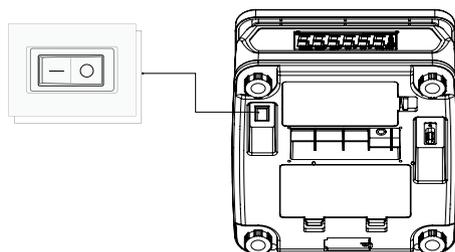
1. During the field check, press the [REZERO] key to exit the field check and enter the weighing mode.
2. When the battery capacity indicator shows only one frame, it means that the internal battery voltage is too low, please replace the battery. (Please use 4 alkaline batteries with R20P SIZE-D 1.5V battery type).
3. DSW100 is the instrument model; Ur.341 is the software version number

2.2 Shutdown operation

- Method one: click [ON/OFF] button to shut down



- Method 2: Turn off the reset switch



- Method 2: Unplug the AC power and shut down



Note:

When charging is not required, unplug the AC power

2.3 Zero operation

- Make sure that the scale is in a stable state and put a heavy object, the weight must be less than the set allowable zero setting range, such as 0.500kg



- Click [REZERO] and remove the heavy object, which shows -0.500kg



- Click [REZERO] again to reset to zero



Note:

- If the placed weight exceeds the zero setting range, press the [REZERO] key, and the tare operation will be completed.
- The zero setting range can be selected by setting SPEC 04 BIT 3, BIT2.

2.4 Tare operation

- Make sure that the scale is in a stable state and put on heavy objects. The weight must be less than the set allowable peeling range, such as 2.500kg



- Click [TARE] and remove the heavy object, which is displayed as -2.500kg



- Click [TARE] again to resume zero setting



Note:

- If the placed weight exceeds the allowable zero setting range, the tare operation will be performed after pressing the tare key.
- The peeling range can be modified by SPEC 04 BIT 0 to select the allowed peeling range of 50%FS or 100%FS

2.5 Counting and weighing operation

Method one Enter weighing mode by setting button

- Ensure that the scale is in a stable state
- Press and hold the [REZERO] button for a long time, and click the [←] button three times to enter the customer function settings



- Click the [REZERO] button to turn down to Spec03



- Modify the default "1011" to "1010"



- Click the [REZERO] button to save, press [ON/OFF] to exit the setting



- (6) Click the [↑] button to enter the counting operation, the default display is 10 pieces, you need to put 10 pieces of goods on the weighing pan to count



- (7) Click the [ON/OFF] button to check the total weight. If the number of pieces placed on the weighing pan exceeds 10 pieces, click the [↑] button to increase the number of objects placed on the weighing pan



If there is already weight on the weighing pan when entering the counting and weighing, click the [REZERO] button to execute the peeling function, after which the weighing items can be placed



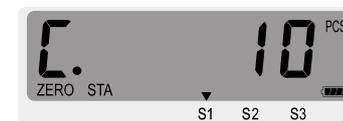
Click [←] key again to select the quantity, click [ON/OFF] key to exit the selected state



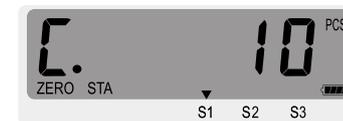
Method Two Long press [↑] key to enter weighing mode

- Make sure the scale is stable

- (1) Press and hold the [↑] key for 5 seconds to enter the weighing mode



- (2) Click the [↑] button to enter the counting operation, the default display is 10 pieces, you need to put 10 pieces of goods on the weighing pan to count



- (3) Click the [ON/OFF] button to view the total weight. If the number of pieces placed on the weighing pan exceeds 10 pieces, click the [↑] button to increase the number of objects placed on the weighing pan



Note:

Increase the number of pieces by increasing to "10, 20, 30, 40, 50, 100, 200, 300, 400, 500, 1000", after reaching the maximum value "100", then press [↑] will display the total weight interface, again Click [↑] to enter the counting and weighing default "10 pcs"

2.6 Weight unit switch

- Make sure the scale is stable
- Put a heavy object on the weighing pan, such as 0.545kg



- Click the [←] key, it is displayed as 1.202lb; click the [←] key again, it is displayed as 19.22oz; the third click the [←] key, it is displayed as 545g; the fourth time it is restored to 0.545kg



- After removing the heavy objects, click [REZERO] to resume zero setting

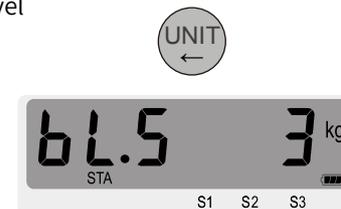


Note:

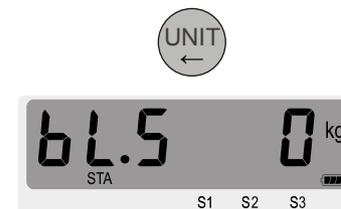
To enable this switching function, SPEC03 bit.2 must be set to 0

2.7 Backlight brightness setting

- Make sure the scale is stable
- Press and hold the [←] key for 5 seconds, knowing that "bL.S 3" appears on the screen, and the displayed "3" is the backlight brightness level



- Click [←] to increase the brightness, the minimum brightness is 0 (without backlight), and the maximum brightness is 9



- Click [REZERO] to save and exit



Note:

When working with batteries, reduce the brightness level of the backlight as much as possible. To reduce battery consumption and extend battery life

3.1 Keyboard shortcuts

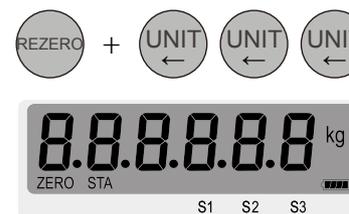
No.	Setting type	Quick operation
1	Enter user function setting mode	REZERO + UNIT ← UNIT ← UNIT ←
2	Enter system function setting mode	REZERO + UNIT ← TARE ↑ UNIT ←
3	Enter system internal code detection mode	REZERO + TARE ↑ TARE ↑ UNIT ←
4	Enter the system full calibration mode	REZERO + UNIT ← TARE ↑ TARE ↑
5	Restore factory SPEC settings	REZERO + TARE ↑ ON/OFF UNIT ←

Note:

- (1) When performing quick operations, you need to hold down the [REZERO] key for a long time while pressing other keys;
- (2) Before restoring the factory SPEC settings, you need to open the calibration switch at the bottom of the scale body

3.2 Customer function entry

- Press and hold the [REZERO] button, and click the [←] button three times to enter the spec setting



- Click [↑] key to enter the setting, [←] key becomes the shift key, will increase "0" from right to left; [↑] key becomes the increment key, increase "1" from right to left



- After the operation, click [REZERO] to save and enter the next item; click [ON/OFF] to exit without saving



3.3 Customer function SPEC definition

■ SPEC NO.00

【 BIT 3/BIT 2 】 Backlight auto-off time setting			
00:10 seconds	01:20 seconds	10:30 seconds	11:Do not close
【 BIT 1 】 Allow automatic entry into power saving mode			
0:Allow		1:Forbid	
【 BIT 0 】 Automatic shutdown time setting (after 3 minutes of no operation)			
00:10 seconds		10:30 seconds	

Note:

- (1) When the backlight brightness is set to "0", the backlight will not automatically turn on;
- (2) 60 seconds to enter power saving mode

*The default is 1100, the backlight does not turn off automatically; allow to enter the power saving mode; no automatic shutdown

■ SPEC NO.01

【 BIT 3 】 Backlight function settings			
0:Allow		1:Forbid	
【 BIT 2/BIT 1/BIT 0 】 RS-232 baud rate setting			
000: Port closed	001: 1200	010: 2400	011: 4800
100: 9600	101:19200	110:38400	111: 57600

*The default is 0100, the backlight function is turned on; the baud rate of RS-232 is 9600

■ SPEC NO.02

【 BIT 3/BIT 2 】 RS-232/USB communication mode setting			
00:General command response method		01: Simple command (A) response method	
10: POS/ECR communication method		11: Continuous weight data output method	
【 BIT 1 】 Allow RS-232 port data output when the weight is unstable			
0:Allow		1:Forbid	
【 BIT 0 】 RS-232 port data output format setting			
0:Standard		1:Special	

*The default is 1000, the RS-232/USB communication mode is set to POS/ECR communication mode; the RS-232 port data output is allowed when the weight is unstable; the standard RS-232 port data format is output

■ SPEC NO.03

【 BIT 3 】 Allow "comma" as decimal point			
0:Allow		1:Forbid	
【 BIT 2 】 Weight unit conversion (kg/LB) [UNIT / ←]			
0:Allow		1:Forbid	
【 BIT 1/BIT 0 】 [TARE/ ↑] key function setting (in weighing mode) after the clock			
00:Weight display lock(HOLD)	01: Gross weight/net weight switch	10: Function key for counting mode	11: Tare operation key only

*The default is 1011, it is forbidden to use a comma as the decimal point; it is allowed to use the [←] key to switch the weight unit; [↑] key is only the tare operation key in the weighing mode

■ SPEC NO.20

【 BIT 3/BIT 2 】 RS-232 SPECIAL DATA MODE SELECT			
00: Special format 1: Data format protocol 1		01: Special format 2: Data format protocol 2	
10: Special format 3: TOLEDO MODE protocol		11: Special format 4: DIGI MODE protocol	
【 BIT 1/BIT 0 】 RS-232 SERIES DATA BIT AND PARITY VALUES			
00: 8 data bits, NO Parity	01: 7 data bits, Even Parity	10: 7 data bits, Odd Parity	11: 7 data bits, Mark Parity

*The default is 0000, the special data format protocol 1; RS-232 communication protocol uses 8 data bits, no check

■ SPEC NO.21

【 BIT 3 】 Data (serial port) output weight unit selection			
0: Synchronize with the displayed weight unit		1: Use the original set weight unit	
【 BIT 2/BIT 1/BIT 0 】 POS/ECR communication protocol selection (can be switched by pressing [Tare key] when turning on)			
000: POS/ECR TYPE-0 Most P.O.S, ECRs and Some TEC P.O.S System	001: POS/ECR TYPE-1 NOT USE	010: POS/ECR TYPE-2 SHARP ER-Axxx, ER-A450T, New SANYO ECRs	011: POS/ECR TYPE-3 NOT USE
100: POS/ECR TYPE-4 CRS, NCR2170 and Many other ECRs, Most P.O.S	101: POS/ECR TYPE-5 NCI General SAMSUNG SPS-300, ER-900, Most P.O.S	110: POS/ECR TYPE-6 SAMSUNG ER-670, ER-5100, SPS-520, Most P.O.S	111: POS/ECR TYPE-7 DELTA cash register protocol

Note:

1. SPEC21 command "D, CR, LF" response mode
2. For the PROTOCOL (interface protocol) of POS/ECR TYPE-0 ~ 7 in SPEC21, please refer to the following description of this article (POS/ECR INTERFACE) 9600 Baud rate, 7 Data bit, Even Parity, 1 Stop bit (TYPE-6: 9600 Baud rate, 8 Data bit, None Parity, 1 Stop bit)
3. Set the unused setting bits to "0"

4. RS232C interface data format, stop bit is 1 bit, data bit 7 or 8 bits are optional. (SPEC 01,02 = SELECT.)

5. After the USB port is connected, the machine will automatically detect the data input by the USB port. If there is data input, the data communication of the USB port will be turned on

*The default BIT 3 is 1, use the original set weight unit

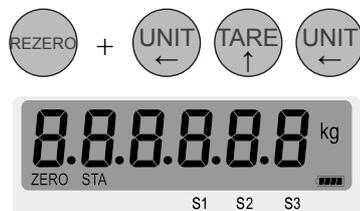
No default BIT 2/BIT 1/BIT 0, POS/ECR communication protocol selection (can be switched by pressing [Tare key] when turning on)

3.4 System function entry

■ Use the tool to click the (SPAN SW) button at the bottom of the screen to make the calibration switch on.



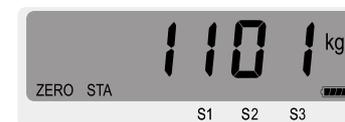
■ Press and hold the [REZERO] key for a while, and click [←][↑][←] to enter the spec setting.



■ After clicking the [↑] key to enter the setting, the [←] key becomes a shift key and will increase "0" from right to left; the [↑] key becomes an incremental key and increases "1" from right to left.



■ After the operation, click [REZERO] to save and enter the next item; click [ON/OFF] to exit without saving.



3.5 System function definition

■ SPEC NO.04

【 BIT 3/BIT 2 】 Reset range selection			
00: ± 2% FS	01: ± 4% FS	10: ± 10% FS	11: Unlimited
【 BIT 1 】 NO PRESET TARE OP.			
0: Forbid		1: Allow	
【 BIT 0 】 TARE RANGE			
0: <50% FS		1: <100% FS	

*The default is 0100, the reset range is ± 4%FS; preset tare weight is prohibited; tare range <50% FS

■ SPEC NO.05

【 BIT 3 】 Auto clear conduction	
0: When the net weight is greater than 5d	1: When the net weight is greater than 5d and the gross weight is greater than 21d

【 BIT 2/BIT 1 】 SYSTEM ON START ZERO RANGE			
00: ± 2% FS	01: ± 4% FS	10: ± 10% FS	11: Unlimited
【 BIT 0 】 AUTO CLEAR TARE			
0: Allow		1: Forbid	

*The default is 1101, then the automatic clearing conditions are when the net weight is greater than 5d and the gross weight is greater than 21d; the initial zero point is allowed to be within ± 10% FS; automatic tare weight removal is prohibited

■ SPEC NO.06

【 BIT 3/BIT 2 】 Negative weight display			
00: When the net weight is less than negative 2D, "UF." is displayed	01: When gross weight is less than negative 2D, "UF." is displayed	10: There is no load weight prompt display, showing the load value	11: Invalid setting
【 BIT 1 】 Manual TARE CLEAR			
0: Allow		1: Forbid	
【 BIT 0 】 When the calibration permission switch is closed, the weight inner code display is allowed			
0: Allow		1: Forbid	

*The default is 1001, there is no negative weight prompt display, showing the weight value; manual tare weight clearing is allowed; weight inner code display is prohibited when the calibration switch is allowed to be closed

■ SPEC NO.07

【 BIT 3 】 After the weight unit is converted, the weight unit symbol flashes to allow setting	
0: Allow	1: Forbid
【 BIT 2 】 Do not use	
【 BIT 1 】 Allow counting operation	
0: Allow	1: Forbid
【 BIT 0 】 Exceeding the zero point area at startup allows the use of the original zero position	
0: Allow	1: Forbid

*The default is 0001, the weight unit symbol is allowed to flash after the weight unit is converted; counting operation is allowed; the original zero is forbidden to be used when the area exceeds the zero point when starting

■ SPEC NO.08

【 BIT 3/BIT 2 】 Benchmark (when calibrated) weight unit (g/kg/lb)			
00: g	01: kg	10: lb	11: OUNCE
【 BIT 1 】 WHEN WEIGHT IS NOT ZERO, NO PRESE TARE OP.			
0: Allow		1: Forbid	
【 BIT 0 】 Not Stable Hold			
0: Allow		1: Forbid	

*The default is 1101, then the base (when calibration) weight unit is OUNCE; when the weight is not zero, zero setting is allowed; when the weight is unstable, locking is prohibited

■ SPEC NO.09

【 BIT 3 】 Dual rang weight check by			
0: Only the net weight is dual range		1: Both are dual range display	
【 BIT 2 】 Dual range automatic conversion (fixed range) Multi interval (only for fix mode1)			
0: Single range		1: Dual range	
【 BIT 1/BIT 0 】 Fix full capacity, select mode (Only when SPEC 10, bit0="1")			
00: 6000	01: 15000	10: 3000	11: Invalid setting

*The default is 1010, both are dual range display; dual range is automatically converted to single range; fixed range is 3000

■ SPEC NO.10

【 BIT 3 】 NO Tare Accumulation	
0: Forbid	1: Allow
【 BIT 2 】 No Tare Subtraction	
0: Forbid	1: Allow
【 BIT 1 】 Reset after peeling	
0: Allow	1: Forbid
【 BIT 0 】 System mode select	
0: Free weight full value setting	1: Fixed weight full value setting

*The default is 1100, which allows tare weight increase operation; allows tare weight decrease operation; allows zero reset operation after tare removal; range setting mode selection is set by free weight full value

■ SPEC NO.11

【 BIT 3 】 Do not use			
【 BIT 2/BIT 1/BIT 0 】 Decimal point position on of scale			
000: No decimal point	001: One decimal (00000.0)	010: Two decimal places (0000.00)	011: Three decimal places (000.000)
100: Four decimal places (00.0000)	101: Five decimal places (0.00000)		

*The default is 0011, the weight display decimal places are three decimal places (000.000)

■ SPEC NO.12

【 BIT 3 】 CALIBRATION MODE			
0: Weight calibration mode		1: Full correction mode	
【 BIT 2/BIT 1/BIT 0 】 Weight minimum division value			
000: 1	001: 2	010: 5	011: 10
100: 20	101: 50	110: 100	111: Not used

*The default is 0001, then the full-scale calibration method is the heavy calibration mode; the minimum weight division value is 2

■ SPEC NO.13

【 BIT 3/BIT 2/BIT 1/BIT 0 】 Resolution selection			
0000: 1000d	0001: 1250d	0010: 1500d	0011: 2000d
0100: 2500d	0101: 3000d	0110: 4000d	0111: 5000d
1000: 6000d	1001: 7500d	1010: 10000d	1011: 12500d
1100: 15000d	1101: 20000d	OTHERS	Not used

*The default is 0101, the resolution is 3000d

■ SPEC NO.14

【 BIT 3/BIT 2/BIT 1/BIT 0 】 Allow overload to display the number of divisions			
0000: 0d	0001: 1d	0010: 2d	0011: 3d
0100: 4d	0101: 5d	0110: 6d	0111: 7d
1000: 8d	1001: 9d	1010: 10d	1011: 11d
1100: 12d	1101: 13d	1110: 14d	1111: 15d

*The default is 1001, the number of divisions allowed for overload display is 9d

■ SPEC NO.15

【 BIT 3/BIT 2/BIT 1/BIT 0 】 Do not use

*The default is 0000

■ SPEC NO.16

【 BIT 3/BIT 2/BIT 1/BIT 0 】 Do not use

*The default is 1111

■ SPEC NO.17

【 BIT 3/BIT 2/BIT 1 】 Do not use	
【 BIT 0 】 Display measured internal values	
0: Allow	1: Forbid

*The default is 1111, which allows displaying the measured internal value

■ SPEC NO.18

【 BIT 3/BIT 2/BIT 1 】 Do not use	
【 BIT 0 】 Display items for measuring voltage	
0: Display battery voltage	1: Displays the percentage of battery power remaining

*The default is 0000, the battery voltage is displayed in the project clock for measuring voltage

■ SPEC NO.19

【 BIT 3/BIT 2/BIT 1/BIT 0 】 Do not use

*The default is 0000

Note:

1. Set the unused setting bits to "0"
2. FS is full weighing value
3. The system function is used to define the setting of measurement specifications. The user cannot change it by himself, and it must be set by a professional technician.

4.1 Full scale calibration

- Click the switch below the scale body to open the calibration



- Modify BIT 3 of SPEC 12 to "0"



- Click [REZERO] button to save



- Turn on the calibration switch again. Long press [REZERO], click [←] [↑] [↑] to enter the calibration, display the maximum weight of calibration

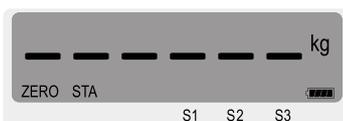




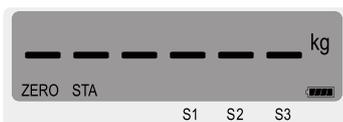
- Click [←] Shift, [↑] Increment, can be modified to the weight to be calibrated, such as 5kg



- Click [REZERO] to enter zero calibration and wait



- Put the corresponding weights, and click the [REZERO] button to enter the full-scale calibration



- Remove the weight to complete the calibration and return to the weighing interface

Note:

- The DSW-100 instrument system can be fully calibrated with a standard weight greater than 10% of the full weight
- The calibration switch (SPAN SW) must be on

4.2 Full scale rate correction

- Click the switch below the scale body to open the calibration



- Modify BIT 3 of SPEC 12 to "1"



- Click [REZERO] button to save



- Put a heavy object on the weighing platform, such as 10.005, the weight has deviation



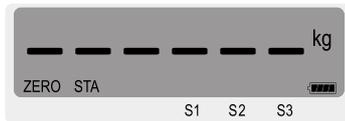
- Turn on the calibration switch again. Long press [REZERO], click [←] [↑] [↑] to enter the calibration, display the previous calibration Scaling parameters, such as 37.500



- Click [←] Shift, [↑] Increment, modify to the calculated scale parameter



- Remove the heavy object, and press [REZERO] to enter the zero confirmation and wait, click [REZERO] again to enter the zero confirmation



- Put on the weight, and display the actual weight value of the modified weight



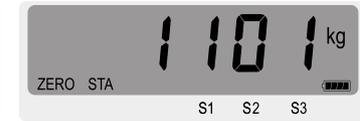
- Remove heavy objects and return to weighing mode

Note:

- When there are items on the load-bearing table or zero confirmation is not required, you can press the [ON/OFF] key to directly exit the calibration mode and return to the weighing mode.
- The calibration switch (SPAN SW) must be turned on.
- Calculation of the new standard rate:
Actual weight $W1=10.00\text{kg}$ Display weight $W2=10.005\text{kg}$ The original standard rate of the instrument is $V1=37.500$
Then the correction rate $V2 = W1 \cdot V1 / W2 = 10.00 \cdot 37.500 / 10.005 = 37.48$

4.3 Internal code check/display

- Modify BIT0 in SPEC 05 to "1"



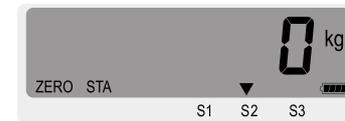
- Click [REZERO] button to save



- Click the switch below the scale body to open the calibration



- Long press [REZERO] key, click [↑] [↑] [←] to enter the internal code check



- Click [↑] button to display [A/D] internal code



- Click [ON/OFF] key to return to weighing mode



5.1 Reset

■ Click the button below the scale body to turn on the calibration switch



■ Long press [REZERO] key and click [↑] [ON/OFF] [←] Restore factory settings



Note:
Restoring factory settings does not include restoring the modified values of BIT 3/ Spec 10 BIT 0/ Spec 09/ Spec 11/ Spec 12/ Spec 13

5.2 Factory default

Coding	Defaults	Coding	Defaults
SPEC00	1100	SPEC04	0100
SPEC01	0100	SPEC05	1101
SPEC02	0100	SPEC06	1001
SPEC03	1011	SPEC07	1010
SPEC20	1100	SPEC08	0111
SPEC21	0000	SPEC09	1010
		SPEC10	1100
		SPEC11	0011
		SPEC12	0001
		SPEC13	0101
		SPEC14	1001
		SPEC15	0000
		SPEC16	1111
		SPEC17	1111
		SPEC18	0000
		SPEC19	0000

5.2 Factory default

Prompt information list

Weight overload	OF
Gross or net weight is negative	UF.
When the [REZERO] button is pressed	888888
System zero error	0 - E r
System zero exceeds the allowable range	z r . E r r
Calibration switch is in "on" state	S O n
Calibration switch is in "off" state	S O F F

7.1 POS serial protocol used in China

7.1.1. RS232C Interface protocol: The baud rate is set by SPEC01, bit2~0 (1200~57600). The stop bit is 1 bit and the data bit is 8 bits.

7.1.2. The RS232C interface can be used by setting SPEC 02, 20, 21.

7.1.3. The RS232C interface is commonly used as a digital communication protocol. Provide continuous weight data output format.

The factory settings are: baud rate=9600bit/s, data=8, STOP=1, no parity bit.

SPEC 01=X100, Baud=9600bit/s

SPEC 02=1100, continuous weight data output

SPEC 20=XX00, Data=8bit, Stop=1bit, no parity

SPEC 21=0XXX. The output data is synchronized with the display data (when there is weight unit conversion)

SPEC 21=1XXX. The output data is not synchronized with the display data (only the output calibration is the set weight unit)

7.1.4. Digital weighing protocol, continuous weight data output (standard) format: (according to factory settings)

Standard format of serial data output:

SPEC SETUP: SPEC 01=0100, SPEC 02 = 1100, SPEC 20 = 0000, SPEC 21 = 0000.

DATA FORMAT. 06 20 67 30 0D 47 30 30 31 2E 30 30 30 0D 54

① ② ③ ④ ⑤ ⑥ ④ ⑤

30 31 30 2E 30 30 30 0D 0A

⑥ ④ ⑦

① 06H boot byte, the first byte of the message output.

② 20H 67H "_ g" weight unit, (6BH, 67H "kg", 6CH, 62H "lb", 6CH, 7AH "oz")

③ 30H/31H weight is stable/weight is unstable.

④ 0DH data segment separator.

⑤ 47H "G" gross weight data field start byte, 4EH "N" net weight data field start byte, 54H "T" tare data field start byte

⑥ Weight data field

⑦ 0AH End of telegram.

7.1.5. Serial continuous weight data output special format

7.1.5.1 Continuous data output, special format 1 (Special data type 1)

SPEC SET: SPEC02 =11X1 , SPEC20= 0000, SPEC21= XXXX

DATA FORMAT. 3DH(=),3XH(MSB),3XH,3XH,2EH("."),3XH,

3XH,3XH(LSB),0DH

7.1.5.2 Continuous data output, special format 2 (Special data type 2)

SPEC SET: SPEC02 =11X1, SPEC 20= 0100, SPEC 21= XXXX
 DATA FORMAT. 3XH(MSB),3XH,3XH,3XH, 2EH("."),3XH,3XH(LSB), 0DH

NET WEIGHT (XXX.XXX)	CR
------------------------	----

Note 1: All characters are printed in ASCII code. Contains only the numerical symbol, the net weight value, and the ending character CR(0DH), with the higher value coming first. When the value is "negative", the highest bit output is 2EH(" - "). The numeric fields are 7-byte (ASCII) characters.

Note 2: No weight unit symbol. When weight is converted, the value output is the value of the unit of weight set at the time of calibration.

For example: 1. The weight value of 2.56,
 The output data: 30H, 30H, 30H, 32H, 2EH, 35H, 36H, 0DH
 2. The weight value of -2.56,
 The output data: 2DH, 30H, 30H, 32H, 2EH, 35H, 36H, 0DH

7.1.5.3 Continuous data output, Special data type 3 (TOLEDO SCALES TYPE)

SPEC SET: SPEC02 =11X1 , SPEC 20= 1000, SPEC 21= XXXX

STX	SW 1	SW 2	SW 3
NET WEIGHT	TARE WEIGHT	CR	

No decimal point command. Total has 17 digital ASCII code.
 [STX] WORD ASCII START FLAGE (02H) , [CR] WORD ASCII (0DH)

STATE WORD ,[SW1]

STATE WORD 1			
BIT 0,1,2			
BIT 0	BIT 1	BIT 2	DECIMAL POINT POSITION
1	0	0	XXXXX0
0	1	0	XXXXXX
1	1	0	XXXX, X
0	0	1	XXX. XX
1	0	1	XX. XXX
BITS 3		BITS 4	
0		0	
0		1	
DISPLAY SUBBSECTION			
X1			

1	0	X2
1	1	X5
BITS 5		= "1"
BITS 6		= "1"
BITS 7		= "0"

[SW2] and [SW3]

SW 2 STATE WORD 2	
BITS	FOUNCTION
0	GROSS =" 0" , NET =" 1"
1	NEGativer =" 1" positive =" 0"
2	OVERFULL =" 1" ,NOMRA =" 0"
3	Stable =" 1" ,Not stable "0"
4	W e i g h t U n i t : g =" 00" ,kg =" 01" lb =" 10" , once =" 11"
6	"1"
7	"0"

SW 3 STATE WORD 3	
BITS	FOUNCTION
0	= "0"
1	= "0"
2	= "0"
3	= "0"
4	= "1"
5	= "1"
6	= "1"
7	= "0"

Ex1. The NET WEIGHT is -124.50kg
 The data format is 0x02,0x7c,0x59,0x70,0x30,0x31,0x32,0x34,0x35,0x30, 0x30,0x31,0x32,0x34,0x35,0x30,0x0d.

7.1.5.4 Special data type 4 TERAOKA SCALES TYPE

DIGI RS232 Communication type.
 SPEC SET: SPEC02 =11X1 , SPEC 20= 1100, SPEC 21= XXXX

STABLE WORD	NET WEIGHT TEXT (With decimal point) + RS_CR + RS_LF
-------------	--

The mode efficiency NET WEIGHT data length is 7 digital With decimal point & with stable word .
 STABLE word 0x30 (30H)= STABLE , 0x31(31H) = UNSTABLE
 RS_CR 0x0D (0DH)
 RS_LF 0x0A (0AH)

Note 1: The above setting value 'X' is the bit that does not affect this mode of operation, (0/1 is ok)

Note 2: No weight unit symbol. When weight is converted, the value output is the value of the unit of weight set at the time of calibration.

Ex1. The NET WEIGHT is -124.50kg (The negative weight display function spec06.bit3,2=10 has been set)
 The data format is 0x30,0x2d,0x31,0x32,0x34,0x2e,0x35,0x30,0x0d,0x0a
 Ex2. When NET WEIGHT is overload. (Weight overload)
 The data format is 0x30,0x20,0x20,0x20,0x20,0x20,0x4F,0

7.2 SPECIAL DATA TYPE

7.2 SPECIAL DATA TYPE

x46,0x0d,0x0a

Ex3. When NET WEIGHT is underload. (When the weight is less than -2 divisions, and the negative weight mask function spec06.bit3,2=00,01 has been set)

The data format is 0x30,0x20,0x20,0x20,0x20,0x20,0x55,0x46,0x0d,0x0a

7.1.6 Get weight data by command:

7.1.6.1. Get standard weight data command 1 (a simple command to get weight data using single characters)

SPEC SETUP: SPEC 01=X100, Baud=9600bit/s

SPEC 02=010X, Simple command data output

SPEC 20=XX00, Data=8bit,Stop=1bit,No parity

Input command: Use single character (byte) command: A(41H) or a(61H)

Output message: Output 5 Byte (ASCII Code) weight data, no decimal point, high digits in front, no sign.

For example: weight = 1.235kg then: 30H,31H,32H,33H,35H

Note: 1. The above setting value 'X' is a bit that does not affect this working mode, (0/1 are both possible)

2. When using this command to obtain weight data, the output data format does not include the weight unit, and after the weight unit is converted, the value output will not change, only the value of the weight unit set during calibration.

7.1.6.2. Get standard weight data command 2 (Use standard commands to get weight data)

SPEC SETUP: SPEC 01=X100, Baud=9600bit/s

SPEC 02=000X, command mode data output

SPEC 20=XX00, Data=8bit, Stop=1bit, no parity

Input command: 3-byte command: 02H,0DH,0AH

Output message: Output 24 Byte (ASCII Code) weight data, including weight unit, stability indicator, decimal point, sign, The high digits come first.

Message format: 06 20 67 30 0D 47 30 30 31 2E 30 30 30 0D 54 30 31 30 2E 30 30 30 0D 0A

Note: 1. The above setting value 'X' is a bit that does not affect this working mode, (0/1 are both possible)

2. When using this command method to obtain weight data, the output data format includes the weight unit, and after the weight unit is converted, the numerical output will be based on the unit value of the displayed weight.

7.2 Standard POS serial port protocol

DSW-100 FOR POS/ECR INTERFACE & Protocol

7.2.1 POS/ECR Interface

DSW-100 POS/ECR Version can interface with most POS/ECRs by selecting

TYPE 0 to TYPE 7. (TYPE 0, 2, 4, 5, 6, 7)

7.2.2 POS/ECR (Type Selection)

(1) POS/ ECR-Type TYPE selected in making sure the power has been turned off.Press and hold the tare key before turning on the power.

At this point, the electronic scale will display the currently selected POS/ECR type, which will be displayed on the monitor as "P.O.S.T. 0".

Indicates that you have selected (POS/ ECR-type 0). You can press the tare key again to select another POS/ECR.

Press zero to save the Settings and return to weighing mode.

(2) If you want to change POS/ECR type then press 'TARE' key to change POS/ECR Type.

(3) To save current POS/ECR type, press the [ZERO] key.

DISPLAY	MENU	Description / RS-232C Serial
"t 00"	POS/ECR -TYPE 0	Most P.O.S, ECRs and Some TEC P.O.S System / 9600 Baud rate, 7 Data bit, Even Parity, 1Stop bit
"t 02"	POS/ECR -TYPE 2	SHARP ER-Axxx, ER-A450T, New SANYO ECRs, Using RS-232 and others /9600 Baud rate, 7 Data bit, Even Parity, 1Stop bit
"t 04"	POS/ECR -TYPE 4	CRS, NCR2170 and Many other ECRs,Most P.O.S Software / 9600 Baud rate, 7 Data bit, Even Parity, 1Stop bit.
"t 05"	POS/ECR -TYPE 5	NCI General, SAMSUNG SPS-300, ER-900, Most P.O.S Software / 9600 Baud rate, 7 Data bit, Even Parity, 1Stop bit.
"t 06"	POS/ECR -TYPE 6	SAMSUNG ER-670, ER-5100, SPS-520, Most P.O.S Software / 9600 Baud rate, 8 Data bit, Non Parity, 1Stop bit.
"t 07"	POS/ECR -TYPE 7	DELTA cash register protocol Communication type / 9600 Baud rate, 8 Data bit, Non Parity, 1Stop bit.

7.2.3 TYPE-0 INTERFACE

Most P.O.S Systems, ECRs and some TEC P.O.S Systems.

1) PROTOCOL

```

EXTERNAL DEVICE      SCALE(DSW-100)
<ENQ> ----->      Initiate communication
<-----> <ACK> : Acknowledge the request of
weight data
<DC2> ----->      Request of weight data(Inquiry)
<-----> <STX> : start transmission
<-----> <ID > : Scale type identifier
<-----> <W5> : Weight data
<-----> <W4> : Weight data
<-----> <W3> : Weight data
<-----> <W2> : Weight data
<-----> <W1> : Weight data
<-----> <BCC> : Block Check Character
<-----> <ETX> : Transmission end
    
```

POS/ECR,PC DSW-100
D-SUB Connector (9-PIN SUB CONNECTOR)

i>Scale Type Identifies

ID

2kg -> G (47H)	-
5kg -> H (48H)	5lb -> K (4BH)
6kg -> C (43H)	-
10kg -> I (49H)	10lb -> L (4CH)
15kg -> A (41H)	15lb -> F (46H)
20kg -> J (4AH)	20lb -> M (4DH)
25kg -> P (50H)	-
30kg -> B (42H)	30lb -> D (44H)
-	50lb -> N (4EH)
60kg -> O (4FH)	60lb -> E (45H)

Data Byte: <STX><ID><W5><W4><W3><W2><W1><BCC><ETX>

ii> Block Check Character

: <BCC> has all data bytes except <STX> and <ETX> through exclusive OR(XOR).

* Parity Bit: Even

iii> Serial Communication 9600 Baud rate, 7 Data bit, Even Parity, 1 Stop bit

※Response time: Typ. 50ms, Max. 150ms

7.2.4 TYPE-2 INTERFACE

: Discontinual RS-232C Interface

SHARP ER-AXXX, ER-A450T, New SANYO ECRs using RS-232,TOLEDO 3213 etc.

1) PROTOCOL

```

POS/ECR      SCALE( DSW-100 )
Command <W> ----->
<-----> Response
<STX> XXXXX <CR> : weight data (kg,lb, oz)
Error message : <STX><status byte><CR>
    
```

2) REMAKE

W : 57H (ASCII code)
STX : 02H (ASCII code)
CR : 0DH (ASCII code)

3) STATUS BYTE

PARITY BIT	ALWAYS ==1		ZERO		MINUS	OVER LOAD	MOTION
BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0

Bit 4=1 Scale at Zero , Bit 4=0 Not at Zero
Bit 2=1 Weight is Minus, Bit 2=0 Weight is not Minus
Bit 1=1 Over Capacity, Bit 1=0 Not Over Capacity
Bit 0=1 Scale in Motion, Bit 0=0 Stable

4) Serial Communication 9600 Baud rate, 7 Data bit, Even Parity, 1 Stop bit

Ex) Weight : 12.34 lb

```

POS/ECR      SCALE (DSW-100)
W<57H> ----->
<-----> <02H><30H><31H><32H><33H>\
STX 0 1 2 3
    
```

<34H><0DH> : ASCII code

4 CR

Ex) Weight : 423.5 oz

```

POS/ECR      SCALE (DSW-100)
W<57H> ----->
<-----> <02H><30H><34H><32H><33H><
STX 0 4 2 3
    
```

35H><0DH> : ASCII code

5 CR

※Response time: Typ. 50ms, Max. 150ms

7.2.5 TYPE-4 INTERFACE

> NCI ECR(NCR2170), SAMSUNG ER-5100,ER-5115, CRS .etc

1) PROTOCOL

```

POS/ECR                               SCALE (DSW-100)
<W>  ----->
<CR>  ----->
===== Inquiry
<----- <LF> XX.XXX LB <CR>
<----- <LF> S b1b2 <CR><ETX>
===== lb CASE
<----- <LF> XX.XXX KG <CR>
<----- <LF> S b1b2 <CR><ETX>
===== kg CASE
    
```

Weight unit ascii code table

No	UNIT	Unit Character	ASCII CODE	
1	LB	The Characters l and b	(0x6C)	(0x62)
2	KG	The Characters k and g	(0x6B)	(0x67)
3	g	The Characters " "and g	(0x20)	(0x67)
4	OZ	The Characters o and z	(0x6F)	(0x7A)

- (A) XX.XXX = Weight value (Decimal point: variable)
- (B) S = The Character S
- (C) b1b2 = Two status Characters

i> Status Bytes

Bit No	B1	B2
Bit 7	Parity Bit	Parity Bit
Bit 6	0	0
Bit 5	1 (Always 1)	1 (Always 1)
Bit 4	1 (Always 1)	1 (Always 1)
Bit 3	0	0
Bit 2	0	0
Bit 1	1 = Scale at Zero 0 = Not at Zero	1 = Over Capacity 0 = Not Over Capacity
Bit 0	1 = Scale in Motion 0 = Stable	1 = Under Capacity 0 = Not Under Capacity

ii>Simplified Status Codes

B1	B2	STATUS Definition
ASCII Character (ASCII Code)	ASCII Character (ASCII Code)	
0 (30H)	0 (30H)	OK
1 (31H)	0 (30H)	Motion
2 (32H)	0 (30H)	Scale at Zero
0 (30H)	1 (31H)	Under capacity
0 (30H)	2 (32H)	Over capacity

- iii> Serial Communication 9600 Baud rate, 7 Data bit, Even Parity, 1 Stop bit
- ※Response time: Typ. 100ms, Max. 300ms

7.2.6 TYPE-5 INTERFACE

> NCI GENERAL , SAMSUNG ER-5115, ER-5100 and Most P.O.S

Software

1) PROTOCOL

```

POS/ECR                               SCALE (DSW-100)
<W>  ----->
<CR>  ----->
===== Inquiry
<----- <LF> XX.XXX LB <CR>
<----- <LF> S b1b2 <CR><ETX>
===== lb CASE
<----- <LF> XX.XXX KG <CR>
<----- <LF> S b1b2 <CR><ETX>
===== kg CASE
    
```

Weight unit ascii code table

No	UNIT	Unit Character	ASCII CODE	
1	LB	The Characters l and b	(0x6C)	(0x62)
2	KG	The Characters k and g	(0x6B)	(0x67)
3	g	The Characters " "and g	(0x20)	(0x67)
4	OZ	The Characters o and z	(0x6F)	(0x7A)

- (A) XX.XXX = Weight value (Decimal point: variable)
- (B) S = The Character S(0x53)
- (C) b1b2 = Two status Characters

i>Status Bytes

Bit No	B1	B2
Bit 7	Parity Bit	Parity Bit
Bit 6	0	0
Bit 5	1 (Always 1)	1 (Always 1)
Bit 4	1 (Always 1)	1 (Always 1)
Bit 3	0	0
Bit 2	0	0
Bit 1	1 = Scale at Zero 0 = Not at Zero	1 = Over Capacity 0 = Not Over Capacity
Bit 0	1 = Scale in Motion 0 = Stable	1 = Under Capacity 0 = Not Under Capacity

ii>Simplified Status Codes

B1	B2	STATUS Definition
ASCII Character (ASCII Code)	ASCII Character (ASCII Code)	
0 (30H)	0 (30H)	OK
1 (31H)	0 (30H)	Motion
2 (32H)	0 (30H)	Scale at Zero
0 (30H)	1 (31H)	Under capacity
0 (30H)	2 (32H)	Over capacity

Weight Data Decimal point (Type 4, 5)

kg	Position	lb	Position	oz	Position
2kg	X.XXX	5lb	X.XXX	80oz	XX.XX
5kg	X.XXX	10lb	XX.XXX	160oz	XXX.X
6kg	X.XXX	12lb	XX.XXX	200oz	XXX.X
10kg	XX.XXX	20lb	XX.XX	400oz	XXX.X
20kg	XX.XX	50lb	XX.XX	800oz	XXX.X
30kg	XX.XX	60lb	XX.XX	1000oz	XXXX.X

iv>Serial Communication 9600 Baud rate, 7 Data bit, Even Parity, 1 Stop bit

※Response time: Typ. 100ms, Max. 300ms

7.2.7 TYPE-6 INTERFACE

> SAMSUNG ECR (ER-670, ER-5100, SPS-520), Most P.O.S

> 9600 baud rate

> 8 Data bit

> Non Parity

> 1 stop bit

1> PROTOCOL

EXTERNAL DEVICE(ECR)

SCALE(DSW-100)

<ENQ> ----->

Initiate communication

<----->

<ACK> : Acknowledge the request of

weight data

<DC1> or <DC2>----->

DC1 : For Weight Data

DC2 : For All Data (DSW-100 NOT

USE)

<----->

Send Data Block

2> The Data Trains

1. "DC1"

SOH STX STA SIGN W5 W4 W3 W2 W1 W0 UN1 UN0 BCC ETX EOT

Command DATA BLOCK Command

> Remark

- STA : A WEIGHING STATUS OF THE SCALE

SCALE IS STABLE -> "S" ,

NOT STABLE -> "U"

- SIGN : SIGN OF THE WEIGHT DATA

ZERO AND POSITIVE WEIGHT -> " " ,

NEGATIVE WEIGHT -> "- "

OVER LOAD -> "F"

- W5 THROUGH W0 ->

WEIGHT DATA

※BUT ALL "F" WHEN THE SCALE IS PUT ON OVER LOAD.

- UN1 THROUGH UN0 ->

UNIT OF WEIGHT (Kg , g , lb , oz)

- BCC : BLOCK CHECK CHARACTER

Serial Communication 9600 Baud rate, 8 Data bit, None Parity, 1 Stop bit

※Response time: Typ. 50ms, Max. 150ms

7.2.8 TYPE-7 INTERFACE

> DELTA cash register protocol Communication type (Only the original weight unit value output)

FIX WORD	NET WEIGHT TEXT (With decimal point) + RS_CR + RS_LF
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1> PROTOCOL

Cash Register
Scales(DSW-100)

D CR LF

<-----
S W W W . W W W CR LF

2> The Data Trains

D: 0x44
CR: 0x0D
LF: 0x0A

S: Sign “+” : 2BH , ” - “: 2DH

WWW . WWW: 6 digits for WEIGHT
.: 0x2E

This type efficiency NET WEIGHT data length is 7 digital With decimal point .

S (FIX WORD) 0x2B (Weight is positive value) / 0x2d (Weight is minus value)
D 0x44
RS_CR 0x0d
RS_LF 0x0a

3) Serial Communication 9600 Baud rate, 8 Data bit, Non Parity,
1 Stop bit

Ex1. When NET WEIGHT is 0.460kg.
The data format is 0x2b, 0x30, 0x30, 0x30, 0x2e, 0x34, 0x36,
0x30, 0x0d, 0x0a
Ex2. When NET WEIGHT is -0.460kg.
The data format is 0x2d, 0x30, 0x30, 0x30, 0x2e, 0x34, 0x36,
0x30, 0x0d, 0x0a

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