

JWI-3000C Series

Counting Indicator

User Manual

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1. Introduction

Thank you for choosing a JWI-3000C counting indicator from Jadever. This scale has the excellent performance and splendid properties under severe quality management. It is recommended to read this manual in full before using it for good function application.

2. Precautions

- ⊗ Place the indicator on a flat and stable surface .
- ⊗ Verify that the input voltage and the plug type matches the local AC power supply . See 3-4 power supply.
- ⊗ Keep the indicator away from EMI noise , strong wind and vibration ,which might cause incorrect reading.
- ⊗ Avoid sudden temperature changes (suitable operating temperature is between 0℃~40℃.)
- ⊗ Disconnect the power supply when cleaning the indicator .
- ⊗ Do not immerse the indicator in water or other liquids .

3. Product Introduction

3-1 Specifications & Features

Specifications

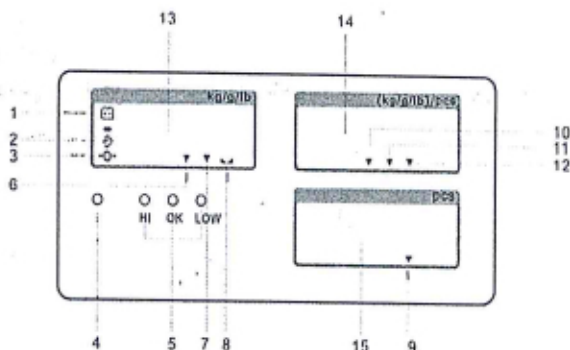
Model	JWI -3000C
Input sensitivity	0.13uV/D
Input voltage range	-0.5mV to 16.5mV
Load cell excitation	AC 5V ,Up to 8 ×350 ohm load cells
System linearity	0.003% of full scale
Input impedance	10M ohm or more
AD conversion mode	△-S
A/D internal resolution	700,000 count
AD conversion speed	8 times/second
External display resolution.	15,000 count
Displays	LCD (6 Digits , 5 Digits, 6 Digits)
Power supply	AC 110V/220V (AC ± 10%) or Rechargeable battery (6V/4A)

Features

- Resolution up to 1/15000, and 1/60000 available
- ACAI function results in a more accurate count by increasing the reference weight
- Single point and linear calibration available
- HI/OK/LO quantity checking function
- Zero range setting and filter setting for counting under various condition
- Accumulation, Accumulation Display and Accumulation clear functions
- Unit weight memory up to 20 pcs
- RS232 interface (Optional) for PC or Printer

3-2 Front Panel

3-2-1 Display



- 1) Low battery indication
- 2) Tare or Preset Tare indication
- 3) Center of Zero Indication. The zeroing range is $\pm 2\%$ of weighing capacity.
- 4) **Charge Lamp**
- 5) **HI Lamp (ON)** –The weight on the weighing pan is greater than the upper limit
OK Lamp (ON) – The weight on the weighing pan is between upper and lower limits
LOW Lamp (ON)– The weight on the weighing pan is greater than 20e but smaller than lower limit
- 6) **"PRESET TARE"** Symbol "▼" points at "PRESET TARE" when Tare value entered via numeric keys.
- 7) **"NET"** Net weight--Gross weight minus Tare. Symbol "▼" points at "NET" when TARE or PRESET TARE action is done.
- 8) **"STABLE"** Stable indication, Symbol "▲" appears at the top of "STABLE" when scale is in stable condition.
- 9) **"ACAI"** Symbol "▼" points at "ACAI" when Automatic counting accuracy improvement is

functioning.

- 10) "**M+**" Symbol "▼" points at "**M+**" when scale is in accumulation mode.
- 11) "**UW**" Under entering a known unit weight mode, Symbol "▼" points at "**UW**" when entered unit weight is lower than 4/5 of scale division. Unit weight is too small for ensuring accurate quantity calculations.
- 12) "**SMPL**" Under the sample counting mode, Symbol "▼" points at "**SMPL**" when calculated unit weight is lower than 4/5 of scale division or the quantity of sample is less than 10 pieces.
- 13) "**UNIT WEIGHT**" Unit Weight Window --Displays the average unit weight value, or number of weights.
- 14) "**TOTAL COUNT**" Total count window --Displays the calculated number of pieces on the weighing pan, or accumulated piece count value.
- 15) "**WEIGHT**" Weight Window--Displays weight of object on weighing pan, or accumulated weight value.

3-2-2 Keyboard



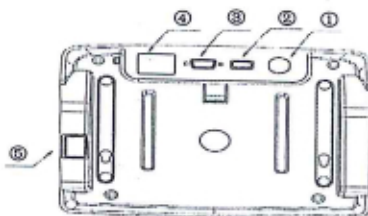
- 1) **0 ~9** numeric keys Enter specific values for tare; unit weight and other data entries.
- 2) **.** key Decimal point
- 3) **SMPL** key Short press to enter the sampling mode. Long press to close ACAI after sampling. And shift Units when setting capacity.
- 4) **G N/SET** key Shift the displays of Gross weight and Net weight after tare. Long press to enter parameters setting. And turn on or turn off check weighing when entering HI, LO, OK setting.
- 5) **UWS/ITEM** key Find out the unit weight in memory or reset the unit weight again. Input the indicated unit weight via numeric keys and press it to start counting function.
- 6) **M+/SAVE** key Accumulate the records of counting or weighing. Save the changing parameter. Set the capacity and resolution.
- 7) **M-/HI** key Clear the input figures. Set the value of HI. Enable the blinking figure plus one when inputting the figures.
- 8) **ZERO/ESC** key Zero the display (within 2% of max.capacity) or cancel Tare action.

Exit from the setting without saving..

- 9) **◀/MR** key Recall and display the total Accumulation data (weight, total count and number of weights) and the first 10 records in details. Circle the choices in the setting. Make the blinking spot shift leftwards when inputting the figures.
- 10) **PRINT/LO** key Press the key to print when printing manually is selected. Set the LO value. Enable the blinking figure decrease one when inputting the figures.
- 11) **TARE/▶** key Input the weight of the object on the weighing pan as a Tare value ; Inputs the indicated value entered via the numeric keys as a pre-set Tare value ; cancel tare action. Display rightwards the first 10 records in detail. Make the blinking spot shift rightwards when inputting the figures.

3-3 Rear Panel

- 1) Port for connecting load cell.
- 2) USB port
- 3) RS-232 port
- 4) power socket
- 5) power ON/OFF switch



3-4 Power supply

Please verify the local power source, before plugging into the power outlet, and use the individual power socket and original adaptor.

Alternative power supply

- 1) (9V/400mA) Adaptor
- 2) (6V/4A) Internal Rechargeable Battery

Power Consumption

About 300mW, 80hrs (without backlight)

About 380 mW, 65hrs (with backlight)

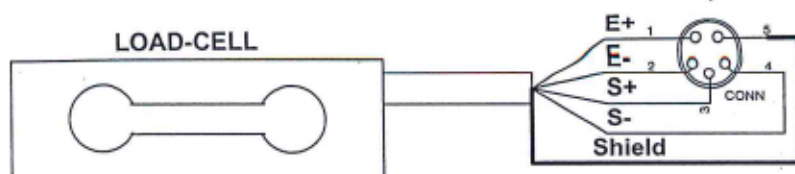
Low battery warning

When  appears in the upper left corner of the weight window, the battery power requires recharging. The charge lamp turns green from red when the recharging is completed (which takes about 8 hours). Disconnect the scale from power supply when it is fully charged.

Note: Battery is to be replaced only by an authorized service dealer. Risk of explosion can occur if replaced with the wrong type or connected improperly.

4. Installation

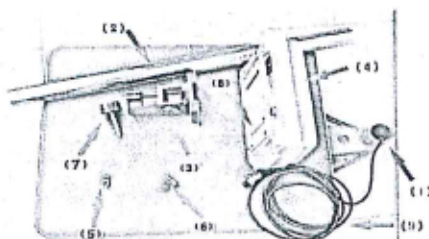
4-1 Load Cell Connection



	PIN	SIGNAL
LOAD CELL	1	E+
	2	E-
CONNECTION	3	S+
	4	S-
	5	SHIELD

4-2 Assembly Description of Upright Pole

- (1) Rod seat
- (2) Upright pole
- (3) Bracket
- (4) Indicator
- (5) Screw (for fixing the upright pole)
- (6) Screw (for fixing the Bracket)
- (7) Knob pole
- (8) Bracket slot
- (9) Load cell wire

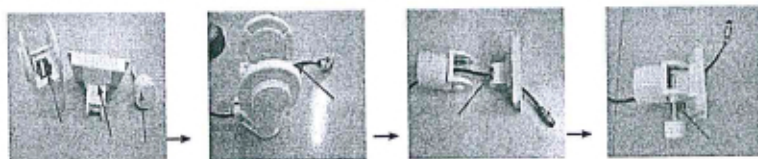


Step 1: Thread the wire of the Load Cell (9) on the rod seat (1) through the upright pole (2), insert the upright pole into the rod seat and then lock it with two screws (5).

Step 2: After threading the Load Cell wire through the bracket (3), attach the bracket to the upright pole and then lock it with the screw (6).



Note: if the load cell connector is too big to thread through the bracket, separate the bracket by removing the Knob pole (7), see the following pictures.



Step 3: Install the indicator (4) on the bracket, with the bracket aligning with the bracket slot (8) of the indicator.



Step 4: After connecting load cell connector to load cell port, the installation is completed.



Note: Use the knob pole (7) to adjust the inclination angle of indicator and the screw (6) to adjust direction of the indicator. After adjusting the indicator to an optimal position and lock the screw.

5. Setting Mode

5-1 Maximum Weighing Capacity Setting and Resolution Setting

- 1) Turn on the power while pressing key **M+/SAVE**.



It enters capacity setting.

- 2) **Method 1:** Press key **M-/HI** or **PRINT/LO** to shift the common capacities. And press key **◀/MR** or **TARE/▶** to make decimal point shift leftwards or rightwards. Please key **SMPL** to choose the units kg, g or lb.

Method 2: If no common capacities are wanted, please press **G N/SET** key to set the capacity freely. The figure leftmost is blinking. Then press key **◀/MR** or **TARE/▶** to shift left or right and key **M-/HI** or **PRINT/LO** to change the figures (or via numeric keys). When the decimal point is blinking, please press key **M-/HI** or **PRINT/LO** to change its position. Please key **SMPL** to choose the units kg, g or lb.

Please press key **M+/SAVE** to save after changing and come to resolution setting. While press **ZERO/ESC** key to return to weighing mode without saving.

- 3) The window displays as shown on the right when it comes to resolution setting.



- 4) **Method 1:** Press key **M-/HI** or **PRINT/LO** to shift the common resolutions. And press key **◀/MR** or **TARE/▶** to make decimal point shift leftwards or rightwards.

Method 2: If no common resolutions are wanted, please press **G N/SET** key to set the resolution freely. The figure leftmost is blinking. Then press key **◀/MR** or **TARE/▶** to

shift left or right and key **M-/HI** or **PRINT/LO** to change the figures (or via number keys).
When the decimal point is blinking, please press key **M-/HI** or **PRINT/LO** to change its position.

Please press key **M+/SAVE** to save after changing and come to calibration setting.

While press **ZERO/ESC** key to return to weighing mode without saving.

- 5) The window displays as shown on the right when it comes to resolution setting.

Press key **TARE/▶** to start calibration.



Press key **ZERO/ESC** to exit without saving.



5-2 Function Setting



- 1) Press **G N/SET** key while powering on

Or long press **G N/SET** key in the weighing mode to enter parameter setting.



- 2) Press key **◀/MR** or **TARE/▶** to circle the parameters
3) Press key **G N/SET** to enter the selected parameter.
4) Press key **◀/MR** or **TARE/▶** to circle the items of present parameter.
5) Press key **M+/SAVE** to save after changing and return to parameters choosing. While
Press key **ZERO/ESC** to return without saving.
6) Press key **ZERO/ESC** again to return to weighing mode.

5-3 Parameters

- 1) **SET00** internal code checking
2) **SET01** backlight modes shifting

Options are On, OFF, and AUTO

ON= Backlight

OFF= No backlight

AUTO= Auto-on with items greater than 9d placed on the pan. Auto-off within 2s,4s,6s..., 20s, ever (ever=the backlight lasts forever with more than 9d placed on the pan) when it is stable.

- 3) **SET02** Auto-off

Off : Non power off

5, 10, 30, 60(minutes) : Scale will remind operator to turn off scale when there is not any operation (with less than 9d of gross weight) within 5min,10, 30, or 60min, after screen show -----.

- 4) **SET03** current using units setting (for weighing window and unit weight window)
options are : kg kg g g g lb lb

E.g. When Kg, G is selected, means weighing window current using unit is kg and unit weight window current using unit is g

How to set current using units?

When parameter SET02 UNIT is selected, press **SMPL** to choose the desired unit, press **M+/SAVE** to save the setting, then press **◀/MR** or **TARE/▶** to advance to next parameter setting.

- 5) **SET04**  zero range setting: d0, d1, d2, d3, d4, d5.
d0 (one division), d1 (2 divisions), d2 (3 divisions), d3 (4 divisions), d4 (5 divisions) and d5 (6 divisions)
- 6) **SET05**  whether to save the upper & lower limit of quantity checking: on, off
OFF = previously set quantity checking values are not retained when the unit is turned on.
ON = previously set quantity checking values are retained when the unit is turned on.
- 7) **SET06**  stable weight checking setting: on, off
On: it starts checking weight when the weight and quantity are within the checking range and the stable symbol appears.
Off: it starts checking weight once the weight and quantity are within the checking range
- 8) **SET07**  beep setting: Hi, ok, Lo, out, no.beep
Hi: There will be a warning sound when the material quantity is more than the upper limit, and the weight of the material is more than 20 divisions
Ok: There will be a warning sound when the quantity of the articles is between the upper and lower limit (including the upper and lower limits).
Lo: There will be a warning sound when the material quantity is less than the lower limit, and the weight of the material is more than 20 divisions.
Out: There will be a warning sound when the material quantity exceeds the upper and lower limits, and the weight of the material is more than 20 divisions
no.beep: No sound alarm.
- 9) **SET08**  external equipment setting: PC, JMS, Godex, BIRCH, ZEBRA, GP, DMP, CK, ET, CX
PC: computer output
JMS: connect with weighing system
GODEX: Godex printer (paper size 5cm*3cm)
BIRCH: Birch printer (paper size 5cm*3cm)
ZEBRA: Zebra printer (paper size 5cm*3cm)
GP: Adhesive sticker label printer (paper size 5cmx3cm)
DMP: Dot matrix printer(SH-24)
CK: thermal printer (Chinese available)

ET: Large LED display

CX: CX large screen display (version 0.02)

EXCEL: Work with the function of "Use Serial Keys" in Windows in outputting the data to Excel. Reference user manual: <http://www.jadever.com.cn/Download.aspx>

Note: Special setting is needed by distributor if you want to print in Chinese.

10) **SET09** $\overline{b} \overline{r} \overline{u} \overline{d}$ baud rate setting: **9600**、**4800**、**2400**

11) **SET10** $\overline{p} \overline{r} \overline{t} \overline{n}$ printing modes setting: **key**, **stable**, **contin**

contin: Printing continually

stable: Printing automatically when get a stable weight (more than 20d)

key: Printing by pressing keys

12) **SET11** $\overline{p} \overline{r} \overline{t} \overline{f}$ printing format setting: prt01~prt03

Use the numeric key to set the format directly.

13) **SET12** $\overline{f} \overline{i} \overline{l}$ filtering setting: **1**, **2**, **3**, **4**

Set the filtering level in which the stable indication turns on. The higher the setting, the slower stabilization time.

14) **SET13** $\overline{z} \overline{e} \overline{r} \overline{o}$ zeroing or taring setting: **stable**, **auto**, **always**

stable: Taring or zeroing works when get a stable weight only after pressing the key **TARE** or **ZERO**

always: Taring or zeroing works no matter if it gets a stable weight or not after pressing the key **TARE** or **ZERO**

auto: Press key **TARE** or **ZERO** when unstable, but it works only when get a stable weight.

15) **SET14** $\overline{o} \overline{f} \overline{f}$ weight memory parameter: **on**, **off**

On: display the last weight when powering on again

Off: do not display the last weight when powering on again

16) **SET15** $\overline{h} \overline{i} \overline{l} \overline{o}$ the kinds of checking: **Qty.ck**, **Wt.ck**

Qty.ck: start amount checking

Wt.ck: start weighing checking

17) **SET16** $\overline{r} \overline{e} \overline{s} \overline{e} \overline{t}$ parameter initialization

press key **G N/SET** then key **M+/SAVE** to start initialization. It is finished when displaying OK.

6. Single and Multi-point Calibration

Note: Before calibration, please set the capacity first. The unit used in calibration is the one that has been set before. During the calibration procedure, LONG press **ZERO/ESC** to

return to normal weighing mode without saving.

Here we take 3kg/10g as an example

1. Press and hold **TARE/▶** while powering on.

Do not release it till the window displays "CAL"

2. With no load on the weighing pan,
press **TARE/▶** to start zero point calibration.

3. Wait till the window displays the first calibration value.

Note: The first calibration value is default. If the value has been changed, the default value is 1/3 of full load.

If you need to change the value, do as the following: Press key **G N/SET** to enter the value setting. Press key **◀/MR** or **TARE/▶** to move leftwards or rightwards. Press key **M-/HI** or **PRINT/LO** to modify the value (or via numeric keys). Press key **M+/SAVE** to save.

4. Put the corresponding weight on the weighing pan,
and then press **TARE/▶** to complete the first point calibration.

Note: After the first point calibration, the window can display the weight value. If no need for the other point calibration, move to Step 6 to finish the calibration procedure.

5. Add another weight 500g to the current weight. The window will show the total weights value. Press **TARE/▶** to complete.

Repeat this step to complete the calibrations of on3, on4 and on5.

6. Press **ZERO/ESC** to save. After the window displays "1111", It will return to normal weighing mode.

Note: the window displays **0000** automatically when on5 is finished. It will be saved and return to the normal weighing.

7. Operation

7-1 Weighing

Place item to be weighed on the scale. The Weight window shows 1.00kg, Gross Weight.

7-2 Tare & Preset Tare

Tare

When weighing a sample that must be held in a container, tare and store the container weight into memory.

- 1) Under the weighing mode, put the container on the scale.

Press the key **TARE** to complete tare action.

The  symbol appears and the window displays as shown on the right

- Put the item into the container.

Then the window displays the net weight.

- Clear the pan. The window displays the taring weight

That is the weight of container.

- To cancel tare action, clear the pan and press **TARE/**

Preset Tare

Method 1:

- Press **TARE/** for three seconds, it enters to preset tare setting.

Preset-tare value setting: Press key **◀/MR** or **TARE/▶** to shift and key **M-/HI** or **PRINT/LO** to modify the value (or via numeric keys).

Press key **M+/SAVE** to save and return to weighing mode.

- Put the items into the container and the weight of container will be tared automatically from the total weight.

- To cancel tare action, clear the pan and press **TARE/▶** or **ZERO/ESC**.

Method 2:

- Enter the tare value by pressing the numeric button, the screen will show the tare value, then press **TARE/▶**:

- Place the items into the container and the weight of container will be tared automatically from the total weight.

- To cancel tare action, clear the pan and press **TARE/▶** or **ZERO/ESC**.

7-3 Checking function

7-3-1 Upper & Lower Weight Limit Checking

Upper weight limit

- Long press key **M-/HI** under the weighing mode.

The number leftmost is blinking.

- Press key **◀/MR** or **TARE/▶** to shift and key **M-/HI** or **PRINT/LO** to modify the value (or via numeric keys)

- Press key **G N/SET** to start or close weighing checking

- Press key **M+/SAVE** to confirm and save. Press key **ZERO/ESC** to return to weighing mode without saving.

Lower limit weight

- Long press key **PRINT/LO** under the weighing mode.



The number leftmost is blinking.

- 2) Press key **◀/MR or TARE/▶** to shift and key **M-/HI or PRINT/LO**

to modify the value (or via numeric keys)

- 3) Press key **G N/SET** to start or close weighing checki

- 4) Press key **M+/SAVE** to confirm and save. Press key **ZERO/ESC** to return to weighing mode without saving.

Put the sample on the weighing pan.

HI indication appears, when the item on the weighing pan is greater than the upper limit

OK indication appears, when the item on the weighing pan is between upper and lower limits.

LO indication appears, when the item on the weighing pan is smaller than lower limit

Note: the item on the weighing pan should be more than or equal to 20e.

7-3-2 Upper & Lower Quantity Limit Checking

Upper Quantity Limit

- 1) Long press key **M-/HI** under the weighing mode.

The number leftmost is blinking.

- 2) Press key **◀/MR or TARE/▶** to shift and key **M-/HI or PRINT/LO**

to modify the value (or via numeric keys).

- 3) Press key **G N/SET** to start or close weighing checking.

- 4) Press key **M+/SAVE** to confirm and save. Press key **ZERO/ESC** to return to weighing mode without saving.

Lower Quantity Limit

- 1) Long press key **M-/HI** under the weighing mode. The number leftmost is blinking.

- 2) Press key **◀/MR or TARE/▶** to shift and key **M-/HI or PRINT/LO**

to modify the value (or via numeric keys)

- 3) Press key **G N/SET** to start or close weighing checking

- 4) Press key **M+/SAVE** to confirm and save. Press key **ZERO/ESC** to return to weighing mode without saving.

Put the sample on the weighing pan.

HI indication appears, when the item on the weighing pan is greater than the upper limit.

OK indication appears, when the item on the weighing pan is between upper and lower limits.

LO indication appears, when the item on the weighing pan is smaller than lower limit .

Note: the item on the weighing pan should be more than or equal to 20e.

7-4 Basic Counting

7-4-1 Entering a Known Unit Weight

- 1) Under the weighing mode, use the numeric keys together with key “.” to input unit weight value, and then press **UWS**.



- 2) Put the items on the weighing pan, the scale starts counting.



Note: Symbol “▼” points at “UW” when entered unit weight is lower than 4/5 of scale division.

Unit weight Memory

- 1) When there is one unit weight on the screen, and press **UWS/ITEM** key.
- 2) Then enter a number for each unit weight. Use **◀/MR** or **TARE/▶** key to shift and **M-/HI** or **PRINT/LO** key to modify the value (or via numeric keys)
- 3) Press key **M+/SAVE** to confirm and save. Press key **ZERO/ESC** to return to weighing mode without saving.

Note: the maximum unit weight memory could up to 20pcs (00-19).

Unit weight Calling-out

- 1) Press **UWS/ITEM** key. The window displays as shown on the right.
- 2) Input the number of unit weight. Press key **◀/MR** or **TARE/▶** to shift and key **M-/HI** or **PRINT/LO** to modify the value (or via numeric keys).
- 3) Press key **M+/SAVE** to confirm called-out weight and return to the weighing mode. Press key **ZERO/ESC** to exit and return to weighing mode.



7-4-2 Sample Counting and ACAL

Sample Counting

- 1) Put samples onto on the weighing pan (or into a tared container) and input the quantity with numeric keys, then press key **SMPL**.



The unit weight is calculated, with Symbol “▼” pointing at “ACAL”.



Note:

- The larger the sample size, the more accurate unit weight.
- Symbol “▼” points at “SMPL” when calculated unit weight is lower than 4/5 of scale division or the quantity of sample is less than 10 pieces.

- 2) Remove the samples and put the load on, the scale begins to count.
- 3) Press key **M-/HI** to exit and return to the weighing mode.

ACAI

Automatic Counting Accuracy Improvement (ACAI) results in a more accurate count by increasing the reference weight without the need to count additional parts. A higher reference weight is important when there is a risk of inconsistent piece weights or if the reference weight is close to the minimum. ACAI uses an initial averaging unit weight to count additional pieces that are placed on the scale. After a few seconds, the scale gives a beep as the new higher reference weight is used to recalculate the averaging unit weight. The process can be repeated as long as the additional weight is less than the previous reference weight. Once this limit is exceeded, ACAI is turned off.

Manual ACAI closing: ACAI acts automatically after sampling when ACAI indication appears. Long press **SMPL** key to turn off ACAI when ACAI indication disappears. ACAI re-acts when sampling again.



7-5 Accumulation, Accumulation Display and Accumulation clear

Accumulation

- 1) Enter the indicated unit weight, press key **UWS/ITEM** and put first piece of load on the weighing pan (or into a tared container). (Refer to 7-4-1 and 7-4-2)
 - 2) Press key **M+/SAVE**, the first accumulation event is displayed momentarily before Symbol "▼" pointing at "M+". The display reverts to normal weighing mode in a second. Remove the first piece.
 - 3) Put the second piece of load on, and then press key **M+/SAVE** to add the second accumulation event into memory. Repeat step 2-3 till accumulation actions are finished.
- Note: Maximum is 99 pieces. It is able to calculate the second deal when returning to zero after the first one under the condition of more than (or equal to) 20d with stability.



Accumulation display

- 1) Press key **◀/MR** to displays the total accumulation data (weight, quantity and number of weights)



- 2) Press key **◀/MR or TARE/▶** to check the total events and the first 10 accumulation events in detail.



- 3) When connecting PC, printer DMP or CK, press **PRINT/LO** to output the events.

Note: ① **XX**=total accumulation events; **11XX**=the single accumulation

Accumulation clear

To clear the total accumulation data or the first 10 accumulation events, press key **◀/MR or TARE/▶** to shift the events and then press key **M-/HI** to clear. Symbol "▼" disappears when the total accumulation data is deleted.

7-6 Initialization of the Scale to Printer (Optional)

Step 1	Press G N/SET key while powering on or long press G N/SET key in the weighing mode to enter parameter setting. Press key ◀/MR or TARE/▶ to circle the parameters and select SET08 <i>Printer</i> .
Step 2	Press G N/SET to enter the external equipment choosing. Press key ◀/MR or TARE/▶ to select the type of printers. Press G N/SET to start initialization. The window of unit weight displays the type of printer. And the window of total amount displays UNSU or <i>init?</i> .
Step 3	When UNSUP appears, it means the printer can't be initialized.. Press key ZERO/ESC to return to the printer choosing. It needs to be initialized when <i>init?</i> appears. Press key M+/SAVE to start initialization or press key ZERO/ESC to return to the printer choosing without initialization. It displays ok when initialization is finished and shows the type of printer after one second. Go further to other parameter setting or press key ZERO/ESC to return to weighing mode.

7-7.The Control from PC to Scale (Optional)

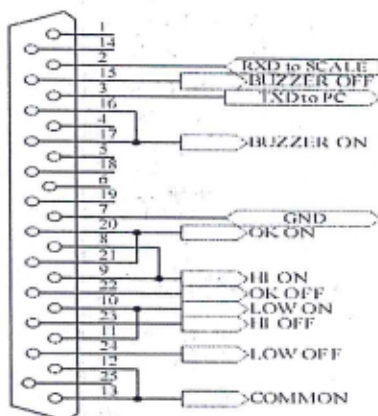
Step 1	Install the RS232 and choose the external equipment PC.
Step 2	Open the serial port to modify. Input the letters Z, T, C, R and P in the sending window and press key Send again. The scale can conduct the responding function. Z= Zero, T=Tare, R and P=Printer, C=Cancel Tare.

8. Serial Interface

If external interface is needed, please select the proper RS 232 board firstly, and only when this board is adopted, the functions can be enabled.

Note: RTC and Relay are unavailable.

8-1 RS-232 connector



9. Troubleshooting and Error message

Error Message	Problem	Solution
ERR0	Exceed the zero range	The item on the pan should be within 2% of full load.
ERR1	Model setting error. Resolution should be within 300-300000	Adjust or reset the capacity first then adjust resolution
ERR2	Initial zero point exceeds 30% of full load	1.Remove the obstacle article under the pan 2.Replace the load cell or contact the maintenance department.
ERR3	Exceed the A/D resolution range	1. Replace A/D 2..Replace the load cell or contact the maintenance department.
ERR4	EEPROM Chksum failure	Re-weld EEPROM or contact the maintenance department.
ERR5	Overload condition	Remove the overload item
ERR6	Exceeds the display range	-----

ERR7	Accumulated number of weights exceeds the display range	Delete the exceeding weights
ERR9	Exceed tare or pre-tare range	0 < Tare value = full load
ERR10	Wrong calibration weights	Place the right test weights and the calibration value should be below full load.

Appendix 1

BIRCH/GODEX/ZEBRA/GP printing format

Prt-01

10 pcs

Prt-02

0.500 kg

Prt-03

N.W.: 0.500 kg
U.W.: 0.0500 kg/pcs
Total: 10 pcs

CK, DMP printing format

Prt-01

10 pcs

Prt-02

0.500 kg

Prt-03 (printing in English)

N.W.:
0.500 kg
U.W.:
0.0500 kg/pcs
Total:
10 pcs

Prt-03 (CK printing in Chinese)

N.W.:
0.500 kg
U.W.:
0.0500 kg/pcs
Total:
10 pcs

When the window of unit weight shows $\frac{100}{0.05}$, the printing format of accumulation display is as follows

(01) 1.000 kg
20 pcs
(02) 1.000 kg
20 pcs
(03) 1.000 kg
20 pcs

(03) 3.000 kg
60 pcs

NOTE:

The printing sample could be of different kinds of formats. When there is specific demand about the format, conduct as follows

- 1) As for **BRICH/GODEX/ZEBRA/GP** printers, the factory designs the format as planned and email to the user. Add the format into the previous format file via computer. Then it is successful to add the new format and able to print the new format.
- 2) As for **DMP** and **CK** printers, it needs to change the scale design

Appendix 2: Exporting data to PC in the form of EXCEL

Introduction:

Connect the scale with PC and set the parameter of external device as "EXCEL" on the scale, then you could export the weighing data to PC in the form of EXCEL. With this function, you could record/accumulate/average/data statistical analysis the testing data, which we could call it as **scale-computer data management function**.

Note: pls enable "Use Serial Keys" function in the computer.

Hardware connection and settings

1. Use transmitting serial wire or USB wire to connect scale and pc.
Note: pls install usb driver first, if you use usb wire.

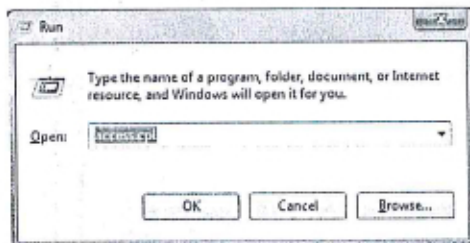
2. Parameter settings in scale:

"PERI" = "EXCEL"	(external device)
"BAUD" = "2400"/"4800"/"9600"	(baud rate)
"PRT.M" = "KEY"/"STABLE"	(printing model)
"PRT.F" = "PRT.F01"	(printing format)

Enable the function of "Use Serial Keys" in the computer

Set Windows XP as a example:

1. Press "Start" -> "Run", and enter "access.cpl" -> "OK".



2. In the dialog box "Accessibility Options", enter General option, choose "Use Serial Keys"