

JWI-3100 Series

Weighing Indicator

User Manual

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1. Introduction

Thank you for deciding to purchase a JWI-3100 Weighing indicator. The goods 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.
- ⊙ Warm up for 15 minutes before using first time.
- ⊙ 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.
- ⊙ Over 2 years without using the scale for the first time, please charging fully before utility.
- ⊙ Please cut off the charging power after the battery is fully charged.
- ⊙ If the charge indicator indicates red light (24 hours or more) when the battery is charged, please check the scale or replace a new battery.

3. Product Introduction

3-1 Specification and Feature

Specification

Model	JWI-3100
Input sensitivity	0.2uV/DIV
Input voltage range	-2mV to 20mV
Load cell excitation	DC 5V ,Up to 4 ×350 ohm load cells
System linearity	0.007% of full capacity
Input impedance	10M ohm or more
A/D conversion mode	$\Delta-\Sigma$
A/D internal resolution	700,000 count
A/D conversion speed	10 times/second

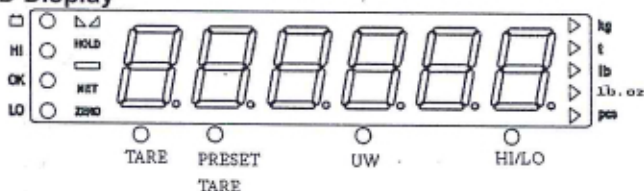
External display resolution	15,000 count
Display	6 digits
Power supply	AC 100V/220V (AC±10%) or Rechargeable battery (6V/4A)

Feature

- Up to 1/15000 resolution
- Attractive outline design with durable ABS housing
- Backlit LED display with prominent 34mm high digits
- Adjustable filtering level for weighing under various conditions
- Zero / Tare / Weighing / Simple counting / Hold / Net & Gross Weight / Check weighing function
- Suitable for a wide range of bases and load cells
- Adjustable capacities, resolutions and parameters(suitable resolution range 300---30000)
- Adjustable stand for bench scale

3-2 Front Panel

3-2-1 LCD Display



Low battery indication

ZERO Center of Zero Indication. The zeroing range is $\pm 2\%$ of scale capacity.

Stable indication

TARE Symbol "▼" points at "TARE" when the weight of the container is tared .

Preset Tare Symbol "▼" points at "Preset Tare" when Tare value entered via keypad.

NET Net weight--Gross weight minus Tare. Symbol "▼" points at "NET" when Tare or Preset Tare action are done.

UW Symbol "▼" points at "UW" when calculated unit weight is lower than 4/5 of scale division. Unit weight is too small for ensuring accurate quantity calculations.

HOLD Symbol "▼" points at "HOLD" when the hold function is enabled.

kg
t
lb
lb. oz
gms

Units of measure

- HI The item on the weighing pan is greater than the upper limit
OK The item on the weighing pan is between upper and lower limits.
LO 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.

3-2-2 Keyboard



◀/G/N key

- ☆ Displays gross and net weight by turns
- ☆ Long press for the choice of sampling
- ☆ Shift key(shift leftwards)

+ /PRINT/HI key

- ☆ The number increases one when value setting
- ☆ Print out when setting manual print
- ☆ Long press higher limit initials higher limit setting

-/HOLD/LO key

- ☆ The number decreases one when value setting
- ☆ Remain the weighing display in the window (5 options)
- ☆ Long press lower limit initials lower limit setting

TARE key

- ☆ Tare manually
- ☆ Long press to enter preset tare
- ☆ Shift key (shift rightwards).

ZERO/ESC key

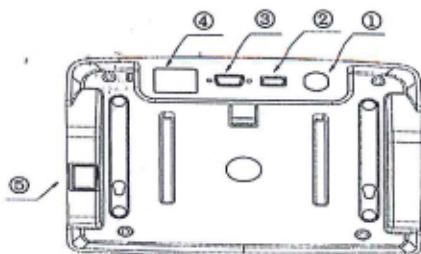
- ☆ Zeros the display
- ☆ Short press to save and exit from the setting mode
- ☆ Long press to exit from the setting mode without saving.

UNIT/SET key

- ☆ Exchange the weighing units
- ☆ Long press to enter the parameter setting

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

1. Switching power supply (100V~240V)
2. (6V/4A) Internal Rechargeable Battery

Power Consumption

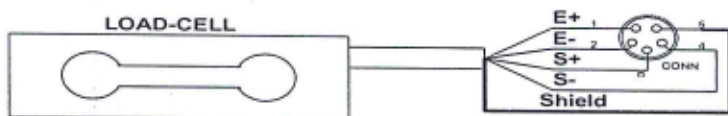
330mW with backlight (about 70 hours available)

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.

4. Installation Instructions

4-1 Load cell connecting

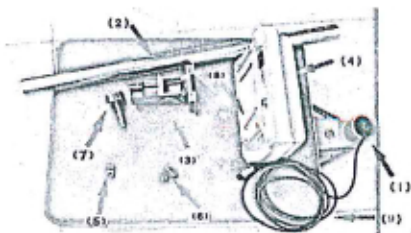


	PIN	SIGNAL
LOAD CELL	1	E+
	2	E-
CONNECTION	3	S+
	4	S-
	5	SHIELD

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

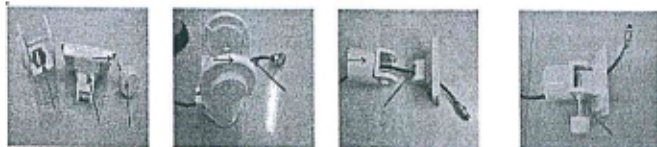


Step 1: Thread the wire of the Load Cell (9) on the Rod seat (1) through the upright pole (2), insert the upright pole into the rod seat and then lock it with two screws (5).

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, lock the screw.

5. Setting Mode

5-1 Maximum Weighing Capacity & Accuracy Setting

1. Press and hold key **ZERO/ESC** and **TARE/▶** while powering on the scale. When the window displays "150.00 KG", release the key and it enter the capacity setting
2. Press **+ / PRINT / HI** or **HOLD / LO / -** to choose common used capacity. Press **◀ / G / N** or **TARE/▶** to shift the decimal point and press **UNIT** to choose kg, t, lb or 台斤.

Note: if not the needed capacity, long press **UNIT/SET** until the number leftmost is blinking to set the capacity casually. Please do as follows.

- Press **◀ / G / N** or **TARE/▶** to shift key leftward or rightward
- Press **+ / PRINT / HI** or **- / HOLD / LO** to change the value.
- Press **◀ / G / N** or **TARE/▶** until the decimal point is blinking.
- Press **+ / PRINT / HI** or **- / HOLD / LO** to shift the decimal point
- Press **UNIT/SET** to choose kg, t, lb or 台斤
- Press **ZERO/ESC** to save and enter into division setting when the window displays "0.01 KG"

Note : LONG press **ZERO/ESC** is to return to weighing mode without saving.

3. Press **+ / PRINT / HI** or **HOLD / LO / -** to choose common used division. Press **◀ / G / N** or **TARE/▶** to shift the decimal point

Note: if not the needed division, long press **UNIT/SET** until the number rightmost is blinking to set the division casually. Please do as follows.

- Press **◀ / G / N** or **TARE/▶** to shift key leftward or rightward
- Press **+ / PRINT / HI** or **- / HOLD / LO** to change the value.
- Press **◀ / G / N** or **TARE/▶** until the decimal point is blinking.
- Press **+ / PRINT / HI** or **- / HOLD / LO** to shift the decimal point
- Press **ZERO/ESC** to save and enter into calibration setting.

4. The window displays CAL. Press **TARE/▶** to enter calibration setting while LONG press **ZERO/ESC** to exit and return to weighing mode.

5-2 Function Setting

1. Press and hold **UNIT/SET** while powering on or long press **UNIT/SET** under normal weighing mode to enter function setting.
2. Press **◀ / G / N** or **TARE/▶** to shift between the functions
3. Press **UNIT/SET** to enter the parameter setting.
4. Press **◀ / G / N** or **TARE/▶** to shift between the function parameters
5. Press **ZERO/ESC** to save and return to the previous parameter or long press **ZERO/ESC** to exit without saving and return to the previous parameter.

6. Press **ZERO/ESC** and return to normal weighing mode.

5-3 Description of Parameter Values

1. **Offset** Offset value

Displays the offset value and the keypad testing can be conducted

2. **brightness** brightness choices

1,2,3,4 available for choice. The more the level, the brighter the display

3. **power-saving** power-saving parameters choices

5, 10, 30, 60, OFF available for choices. The scale enters into power-saving mode within 5, 10, 30, or 60 seconds (available) under weighing mode. LED displays a small decimal in point in the power-saving mode.

4. **Auto-off**

Off : Non power off

5 · 10 · 30 · 60(minutes) : Auto power off after 5, 10, 30, 60 minutes under the condition that there is no action and the weight is equal or lower than 9d

5. **Unit setting**

Init : Press key **UNIT/SET** to select the default unit when powering on the scale: kg, t, lb...final .(final=keep the final being used unit when power off)

Use: Press key **UNIT/SET** to select the weighing unit. **on** : Enable the unit **off** : Disable the unit

Note: Press **UNIT/SET** to choose the weighing unit. Press **◀G/N or TARE/ ▶** to enable / disable the unit

6. **Zero range**

d0, d1, d2, d3, d4 and d5. (d= scale division)

7. **Hold function**

HoLd - 0 : no hold function

HoLd - 1 : Peak hold. Press any key to release

HoLd - 2 : Hold after stable. Press any key to release

HoLd - 3 : Hold after stable. Release after moving away the article. The hold value is based on the current value and its range could be set in sub menu. Accumulation hold function is available, that is you could add article after hold the first value.

HoLd - 4 : Press key **HOLD/LO/-** to hold. Press any key to release

HoLd - 5 : Hold automatically.(Optional dynamic animal weighing function)

Sub menu for Hold 3: INF (default: infinity) /10 /20 /50 /100 /200 /500 /1000 2000 /5000 /10000 /20000 /50000

H=current hold value, R=hold value range, d= division, W= actual weight

Keep to hold the value when $|W-H| \leq R \cdot d$, or the scale will exit the hold function. The scale will cancel the hold function when empty the weighing pan, if choose INF setting.

Sub menu for Hold 5: default hold value arrange (HD): 0100

Disable the hold function automatically: $|CW-CH| > HD \cdot d$, CW=actual weight, CH=current hold value, HD=hold value arrange.

Disable the hold function manual: press HOLD button to cancel the current hold value.

NOTE: The function works only the weight is above 20d

8. Check weighing memory

on : Check weighing function is auto-on when restart the indicator

off : Check weighing function would not auto-on when restart the indicator

9. Stable Check Weighing

On: Check weighing after stable indicator appears and the weights is between the upper and lower limit

Off: Check weighing when the weights is between the upper and lower limit

10. Check Weighing buzzer beep

Hi : There will be a warning sound when the weight of articles exceeds the upper limit, and the weight is equal or more than 20d

LO: There will be a warning sound when the weight of articles exceeds the lower limit, and the weight is equal or more than 20d

OK : There will be a warning sound when the weight of articles is between the upper and lower limit (including the upper and lower limits), and the weight is equal or more than 20d

OUT : There will be a warning sound when the weight of articles is beyond the upper & lower limit, and the weight is equal or more than 20d

no.beep : no beep

11. External device, such as, ET, CX, PC, JMS, Godex, BIRCH, ZEBRA, GP, DMP, CK, T.CONT, EXCEL.

CX: MMS screen (V0.02 version)

CK: thermal printer (paper size 57.5mm)

JMS: connecting the weighing system software

T.CONT: the format of output is compatible with Toledo Continuous Mode

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

U.KEY: U.KEY connector to work with PC directly.

$\overline{b} \overline{i} \overline{r} \overline{H}$ = Birch printer (paper size 5cm*3cm)

$\overline{G} \overline{o} \overline{d} \overline{E}$ = Godex printer (paper size 5cm*3cm)

$\overline{Z} \overline{E} \overline{B} \overline{r} \overline{H}$ = Zebra printer (paper size 5cm*3cm)

$\overline{G} \overline{P}$: Adhesive sticker label printer (5cm*3cm)

$\overline{D} \overline{M}$ = Dot matrix printer

$\overline{E} \overline{E}$ = Large LED display

$\overline{P} \overline{C}$ = Computer

12. $\overline{R} \overline{S} \overline{2} \overline{3} \overline{2}$ RS-232 Serial Transmission Rate

9600 · 4800 · 2400

13. $\overline{P} \overline{r} \overline{t}$ Print mode

contin : Continuous print

stable : Stable print (weight is equal or more than 20d)

key : Manual print by pressing key **PRINT**

14. $\overline{P} \overline{r} \overline{f}$ Print format

See the appendix (more than 100 formats. The appendix just shows two formats.)

15. $\overline{F} \overline{i} \overline{l}$ Filtering setting

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

Options: 1 · 2 · 3 · 4

16. $\overline{T} \overline{a} \overline{r} \overline{e} \overline{Z} \overline{e} \overline{r} \overline{o}$ Tare/Zero condition

stable : Only after the stable indication appears, Tare/Zero function acts after pressing down key **TARE** or **ZERO**

always : Tare/Zero function acts by pressing down key **TARE** or **ZERO** even if it is not stable

auto: Press down key **TARE** or **ZERO** even if it is not stable, but Tare/Zero function acts after stable

17. $\overline{O} \overline{n} \overline{O} \overline{f} \overline{f}$ weight memory parameters.

ON display the previous weight when powering on again

OFF not display the previous weight when powering on again

18. $\overline{r} \overline{c} \overline{c} \overline{e} \overline{t}$ parameter initialization

Press **UNIT/SET** twice to begin initialization until the window displays "OK"

6 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** for 5 seconds 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 calibration.
3. Wait till the window displays the first calibration value. (the window displays **1.000kg**)

Note: The first calibration value is default. (For example: if the capacity is 3kg, then the first calibration value is 1kg.) If the capacity has been changed, the default value is 1/3 of full load.

If you need to change the value, do as the following: Press **UNIT/SET** to enter the value setting. Press **◀/G/N** or **TARE** to move leftwards or rightwards. Press **+ /PRINT/HI** or **HOLD/LO/-** to change the value. Press **ZERO/ESC** to save.

4. Put the corresponding weight (default: 1/3 of full load) on the weighing pan and then press **TARE** to complete the first point calibration.

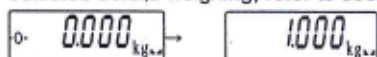
Note: After the first point calibration, the window can display the weight value. If no need for the other point calibration, move to Step 6 to finish the calibration procedure.

5. Add another weight to the current weight. The window will show the total weights value. Press **TARE** to complete. Repeat this step to complete multi-point calibration.
6. Press **ZERO/ESC** to save. After the window displays "OK", it will return to normal weighing mode.

7. Operation

7-1 Weighing

Begin with no load on the scale, the display reading zero. Place item(s) to be weighed on the scale. The display shown is 1.000kg, gross weight. (The desired weighing unit should be selected before weighing, refer to section 5-5.)

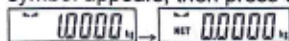


7-2 Manual Tare & Preset Tare

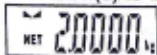
When weighing a sample that must be held in a container, tare stores the container weight into

memory.

- 1) Under the weighing mode, place the container on the weighing pan, wait till stable symbol appears, then press the key **TARE/▶**. The container is tared.



- 2) Place the item(s) to be weighed into the container. The weight displayed is the net weight.



- 3) Remove all items from the weighing pan, the screen displays the tare value.



- 4) To clear tare with an empty pan, press down key **TARE/▶** or key **ZERO/ESC**.

Preset Tare

- 1) Long press key **TARE/▶** for 3 seconds. The scale is now in Digital inputting mode with the left-most digit blinking.



- 2) Press key **◀/G/N** or **TARE/▶** to shift leftwards or rightwards. Press key **+/PRINT/HI** or **HOLD/LO/-** to increase or decrease setting values. E.g. here we set the Preset Tare value as 0.500kg.



- 3) Press key **ZERO/ESC** to save and return to weighing mode,
- 4) Put the load on the container, the scale will automatically deduct the value of the container from the total value.
- 5) Press **TARE/▶** or key **ZERO/ESC** with no load on the pan if the tare function is to be cancelled.

7-3 Check Weighing

Use this mode to compare the weight of an item to Lower, and Upper limits. When the check weighing mode is enabled, the "▼" indicator will turn on.

Upper limit setting

- 1) Long press key **+/PRINT/HI**. The scale is now in Digital inputting mode with the left-most digit blinking.




- 2) Press **◀/G/N** or **TARE/▶** to shift key leftwards or rightwards. Press **+/PRINT/HI** or **HOLD/LO/-** to change the value.



- 3) Press **UNIT/SET** to turn on or off the weighing check. (Note: the light of HI/LO will be on after activating this function.)
- 4) Press **ZERO/ESC** to confirm and save the upper limit value.

Lower limit setting

- 1) Long press key **-/HOLD/LO**. The scale is now in Digital inputting mode with the left-most digit blinking. 

- 2) Press **◀/G/N** or **TARE/▶** to shift key leftwards or rightwards. Press **+ /PRINT/HI** or **HOLD/LO/-** to change the value.

- 3) Press **UNIT/SET** to turn on or turn off the weighing check

- 4) Press **ZERO/ESC** to confirm and save the lower limit value.

Place 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

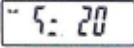
Note: the item on the weighing pan should be more than or equal to 20e.

Please reset the HI/LO value after changing the unit.

7-4 Simple Counting

- 1) Press key **UNIT/SET** to select the unit "PCS" under the weighing mode. 

- 2) Press key **◀/G/N**, the ex-factory default sample quantity (10 pcs) is displayed.

- 3) Use key **+ /PRINT/HI** or **HOLD/LO/-** to choose the sampling amount. Available options are 0, 20, 50, 100, 200, 500, 1000(pieces). 

- 4) Put the corresponding samples on the weighing pan, and then press key **TARE / ▶**

"SAMP" is displayed momentarily before the display reverts to the sample size.



- 5) Remove the samples and put the load on, the scale calculates the amount of the load.

- 6) To go back to the normal weighing mode, remove the load and press key **UNIT/SET** to select the proper weighing unit.

Note:

1. The larger of the sample size, the more accurate unit weight.
2. Symbol "▼" points at "UW" when calculated unit weight is lower than 4/5 of scale division.

7-5 Printer Initialization (Optional)

Press UNIT/SET while turning on the scale to enter setting mode.

Step 1. Press G/N or TARE Choose parameter PERI

Step 2. Press UNIT/SET to enter external device setting, press G/N or TARE to choose the printer needed, such as Godex.

Step 3. Connect the printer to scale, and press UNIT/ SET, screen will show UNSUP or INIT. If screen shows UNSUP, it means the printer doesn't need to be initialized, and then press ZERO to return. If screen shows INIT, it means the printer needs to be initialized.

Step 4. When screen shows init. Press UNIT/SET to initialize the printer, screen shows init...ok, then the model name of the printer.

Step 5. Press ZERO Twice to save setting, and back to normal weighing mode.

7-6 Input commands (Optional)

Connect the indicator and computer. Set Parameter P09 to "PC" and P11 to "Key". Run serial port debugging program on the computer. Input the capital number "Z", "T", "R" in the sending area, and the indicator can conduct the corresponding actions and have key sound at the same time.

Z=zero T=tare R=print

8. Error message and trouble shootings

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.Need calibration 3. 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 failure	Re-weld EEPROM or contact the maintenance department.
ERR5	Overload condition	Remove the overload item
ERR6	Exceeds the display range	-----
ERR8	Weight checking value is higher than full load value	Reset the weight limit value.
ERR9	Exceed tare or pre-tare range	$0 < \text{Tare value} \leq \text{full load}$
ERR10	Wrong calibration weights	Place the right test weights and the calibration value should be below full load.

Appendix 1

Printing Device	Printing Type	Printing Format
PC	prt-01	1.000 kg
	prt-02	G.W.: 1.500 kg T.W.: 0.500 kg N.W.: 1.000 kg
	prt-03	1.000 kg

	prt-04	<div style="border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin-bottom: 5px;">ST GW + 100.00 kg</div> <div style="border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin-bottom: 5px;">UT GW + 100.00 kg</div> <div style="border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin-bottom: 5px;">UT NW - 200.00 kg</div> <div style="border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin-bottom: 5px;">ST NW - 200.00 kg</div> <p>ST= stable, UT=unstable; NW= net weight, GW= gross weight</p>
	prt-05	<div style="border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin-bottom: 5px;">ST, GS, + 100.00kg</div> <div style="border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin-bottom: 5px;">US, GS, + 100.00kg</div> <div style="border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin-bottom: 5px;">US, NT, - 200.00kg</div> <div style="border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin-bottom: 5px;">ST, NT, - 200.00kg</div> <p>ST= stable, UT=unstable; NW= net weight, GW= gross weight</p>
	prt-06	<div style="border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin-bottom: 5px;">ST, + 100.00kg</div> <div style="border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin-bottom: 5px;">ST, - 100.00kg</div> <p>"ST," is the prefix.</p>
	prt-07	<div style="border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin-bottom: 5px;">+ 100.00kg</div>
	prt-08	$\gamma+00002621=^L$
BIRCH/GODEX/ZEBRA/CK/GP	prt-01	<div style="border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin-bottom: 5px;">1.000 kg</div>
	prt-02	<div style="border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin-bottom: 5px;">G.W.: 1.500 kg</div> <div style="border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin-bottom: 5px;">T.W.: 0.500 kg</div> <div style="border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin-bottom: 5px;">N.W.: 1.000 kg</div>
CK Printing Format	prt-02	<div style="border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin-bottom: 5px;">GW: 1.48 kg</div> <div style="border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin-bottom: 5px;">TW: 0.00 kg</div> <div style="border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin-bottom: 5px;">NW: 1.48 kg</div>
DMP	prt-01	<div style="border: 1px solid black; border-radius: 10px; padding: 2px; width: fit-content; margin-bottom: 5px;">1.000 kg</div>

	prt-02	<table border="1"> <tr> <td>G.W.:</td> <td>100.00 kg</td> </tr> <tr> <td>T.W.:</td> <td>0.00 kg</td> </tr> <tr> <td>N.W.:</td> <td>100.00 kg</td> </tr> </table>	G.W.:	100.00 kg	T.W.:	0.00 kg	N.W.:	100.00 kg
G.W.:	100.00 kg							
T.W.:	0.00 kg							
N.W.:	100.00 kg							
ET	prt-01	<table border="1"> <tr> <td>EtOut:</td> <td>1.00 kg</td> </tr> </table>	EtOut:	1.00 kg				
EtOut:	1.00 kg							
U-key	prt-01	0.985						
	prt-02	0.985 kg						

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** printer, 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

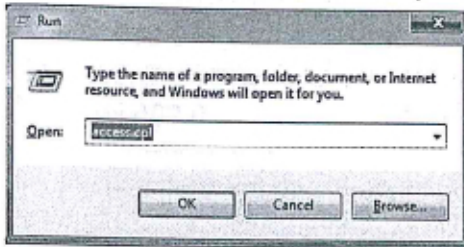
1. Use transmitting serial wire or USB wire to connect scale and pc.
Note: pls install usb driver first, if you use usb wire.

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

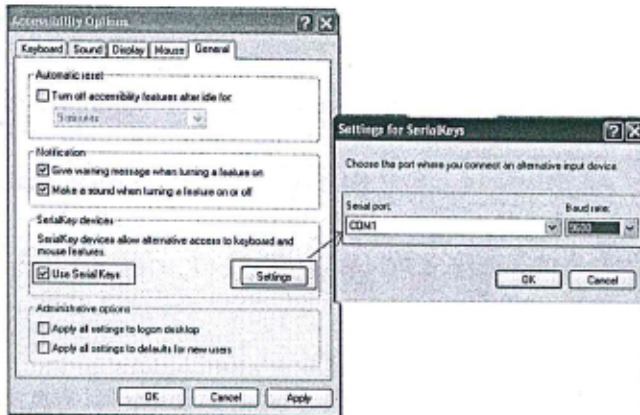
Set Windows XP as a example:

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



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

In the dialog box "Settings for SerialKeys", set the corresponding Serial port and Baud rate, which should be same as Baud rate in scale.



3. Test if Serial Keys works well.

Open a Text Document, and press the Print button on the scale. The Serial Keys works well, if pc exports the weighing data to Text.



Export weighing data to Excel

1. Open Excel.
2. Press [Print], then Excel will show weighing data.

A screenshot of the Microsoft Excel interface. The ribbon shows the "Home" tab with the "Clipboard" group selected. The active cell is A3, containing the formula "=f3". The spreadsheet area shows a table with the following data:

	A	B	C	D	E	F
1	WEIGHT(KG)					
2	0.352					
3	0.501					
4	0.638					
5	0.240					
6	0.371					
7	0.378					
8						

3. Use "Format Cells" to beautify Excel: