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

(II)

1. Introduction

This manual contains installation and operation instructions for the JWL Series weighing indicator. Please read the manual completely before installation and operation.

2. Precautions

Place the scale on a flat and stable surface (Refer to Section 3-3).

 Verify that the input voltage and the plug type matches the local AC power supply (Refer to Section 4-4).

- Make sure power cord does not pose a potential obstacle or tripping hazard.
- Keep the scale away from EMI noise, strong wind and vibration, which might cause incorrect reading.
- Do not drop loads on the platform.
- Disconnect the power supply while cleaning the scale.
- O not immerse the scale in water or other liquids.
- Service should be performed by authorized personnel only.

3. Before Using the Product

3-1 Unpacking and Checking

Open the package and check the instrument for transport damage. Immediately inform your dealer if you have complaints or if parts are missing. The package should contain:

- Scale body
- •Weighing platform (plastic base with stainless steel pan)
- Power cord
- User manual

3-2 Installing Components

1) Before using the scale, remove the delivery protection screw (rotate counterclockwise), which located underneath the scale, and cork the plug buckle.

Note: the JWL-30K model is shipped without the shipping protection screw.

2) Cover the weighing pans on the scale body properly.

3-3 Leveling the Scale

To compensate for small irregularities or inclinations at the location, the scale can be leveled. The scale is equipped with a level indicator at the front panel .Adjust the leveling feet until



the air bubble in the indicator is centered as shown.

Note: The scale should be leveled each time its

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location is changed.

4. Product Introduction



6. Stainless steel weighing pan

11. Plug buckle

4-1 Specifications & General Features

Specifications

Model	JWL-1.5K	JWL-3K	JWL-6K	JWL-7.5K	JWL-15K	JWL-30K	
Capacity (Kg)	1.5	3	6	7.5	15	30	
Division-1 (g)	0.5	1	2	2	5	10	
Division-2 (g)	0.2	0.5	1	1	2	5	
Division-3 (g)	0.1	0.2	0.5	0.5	1	2	
Division-4 (g)	0.05	0.1	0.2	0.2	0.5	1	
Display	LCD(liqui	LCD(liquid crystal display), digits 31mm high, with back lighting					
Pan size	294X228X13.5mm						
Scale Dimensions	341X294X104mm						
Power Supply	AC	: 110V/220	V (AC±109 battery	%) or built-in (6V/4A)	rechargea	ible	

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General Features

- Auto shut off, built-in rechargeable batteries or AC alternative
- Multiple functions: tare, preset tare, simple counting, check weighing, accumulation and display for every deal.
- Large bright backlit LCD with prominent 29mm high digits and LED backlight
- Software filtering design and adjustable weighing displaying speed according to different environments.
- Easy operation with big keys and high weighing resolution
- Single point calibration and linear calibration available
- RS-232 serial communication interface(PC, printer, relay)

4-2 Display

4-2-1 LCD Display



Low battery indication

Tare or Preset Tare Indication

Center of Zero Indication, The zeroing range is ±2% of weighing capacity.

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TARE Symbol "▼" points at **"TARE"** when manual Tare action is done.

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Preset Tare Symbol "▼" points at "Preset Tare" when preset tare value is set.

"**NET**" Net weight--Gross weight minus Tare. Symbol "▼" points at "**NET**" when manual Tare or preset are actions are done.

"UW" Under simple counting mode, Symbol "▼" points at "UW" when unit weight is lower than 4/5 of scale division. Unit weight is too small for ensuring accurate quantity calculations. ○

CHARGE Charge Lamp

Red--- battery is charging

Green---battery is fully charged

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 smaller than lower limit.

res %斤兩<math>1boz Units of measure kg

Stable indication

4-2-2 Keyboard



	Short press steps through activated weighing units, release on desired one.
G/N	Displays gross and net weight by turns
TARE	 Tares the weight of the container or accepts the keypad tare entries Cancel the tare Select the later parameter in the same level Select the later record when checking the accumulation record Shift keys rightwards
ZERO ESC	 Zeros the display (within 2% of max.capacity) Exits from certain operation without save
M- SET	 Long press to enter function setting Deletes accumulation records Delete the present accumulation record for the sake of wrong accumulation operation under the accumulation mode.
M+ SAVE	 Adds the indicated weight into accumulation memory During editing, save and return to the higher option
	 Memory recall Select the former parameter in the same level Select the former record when checking the accumulation record Shift keys leftwards
PRINT HI	 During setting value, add 1 to the current value Set the upper limit of the check weighing Print
HOLD	 During setting value, deduct 1 to the current value Set the lower limit of the check weighing Hold function

(II)

4-3 Power supply

Please verify the local AC power source and switch the two-stage switch to the proper place before plugging into the power outlet.

Alternative power supply

 AC 110V/220V (AC±10%)
 (6V/4A) Internal Rechargeable Battery Power Consumption About 300 mW without backlight About 380 mW with backlight

Low Battery Warning

When **the** appears in the upper left corner of the weight window, the battery 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.

5 Function Setting and Description of Parameter Values

5-1 Function Setting

 Press and hold *M-/SET* while powering on or long press *M-/SET* under normal weighing mode to enter function setting. The window displays *"check*". Setting item "*P00*" displays

momentarily at the left bottom

- 2. Press **// MR** or **TARE**/ to shift between the functions
- 3. Press *M-/SET* to enter the parameter setting.
- 4. Press **//MR** or **TARE**/**to** shift between the function parameters
- 5. Press **M+/SAVE** to save and return.
- 6. Press **ZERO/ESC** to exit without saving.

5-2 Description of Parameter Values

1. P00:

Displays the offset value and the keypad testing can be conducted

- 2. P01:
 - Off : No backlight
 - Auto : Auto on with items greater than 9d placed on the weighing pan or any key is

pressed. But auto off after N seconds (N=2s, 5s, 10s, 20s, ever) with no action Ever= It is always on when the weights over 9e

On: Backlight on

3. **P02:**

Off : Non power off

5, 10, 30, 60(minutes)

4. P03:

Init : Press key Unit to select the default unit when powering on the scale: pcs, 斤, lboz,

g, kg, final .(final=keep the final being used unit when power off)

Use: Press key **Unit** to select the weighing unit. **on** : Enable the unit **off** : Disable the unit

5. P04: ^J ^J ^J Zero range

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

- 6. P05:
 - 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
 - HoLd 4 : Press key HOLD/LO/- to hold. Press any key to release

7. P06: Check weighing memory

on : Check weighing on off : Check weighing off

8. P07: $\begin{bmatrix} & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\$

on: Check weighing under the condition that the weight is within the limits and the stable indication appears

off: Check weighing under the condition that the weight is within the limits

9. P08: $\prod_{i=1}^{n} \prod_{j=1}^{n} \prod_{i=1}^{n} Check Weighing buzzer beep$

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

```
10. P09:
```

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 $\frac{1}{2} \prod_{i=1}^{n} \frac{1}{2} = \text{Birch printer (BP545,TDP643)}$ $\frac{1}{2} \prod_{i=1}^{n} \frac{1}{2} = \text{Godex printer}$ $\frac{1}{2} \frac{1}{2} \frac{1}{2} = \text{Codex printer (CK,SH-24)}$ $\frac{1}{2} \frac{1}{2} = \text{Dot matrix printer (CK,SH-24)}$ $\frac{1}{2} \frac{1}{2} = \text{Computer}$ $\frac{1}{2} \prod_{i=1}^{n} \frac{1}{2} = \text{Connecting the weighing managing system}$ $\frac{1}{2} \prod_{i=1}^{n} \frac{1}{2} = \text{Connecting the weighing managing system}$ $\frac{1}{2} \prod_{i=1}^{n} \frac{1}{2} = \text{Cx large screen display(version 0.02)}$ $\frac{1}{2} \prod_{i=1}^{n} \frac{1}{2} = \text{the output format is compatible with Toledo Continuous Mode}$ Note: Special setting is needed by distributor if you want to print in Chinese. $\frac{1}{2} \prod_{i=1}^{n} \frac{1}{2} = \text{Work with the function of "Use Serial Keys" in Windows in outputting the data to Excel. Reference user manual: http://www.jadever.com.cn/Download.aspx}$

11. P10: DILL RS-232 Serial Transmission Rate

9600, 4800, 2400

12. **P11:**

contin : Continuous print

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

key : Manual print by pressing key PRINT

13. P12: Frint format

See the appendix (more than 100 formats. The appendix just shows two formats.) 14. P13: $\begin{bmatrix} r \\ r \end{bmatrix}$ 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

15. P14 : J - L 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

16. **P15 : , , , , , RTC set**

on: Enable RTC function off: Disable RTC function RTC setting:

When the window shows "on", press *M-/SET* to enter RTC setting and the window shows

the year. Press **//MR** or **TARE**/**to choose date and time.** Press **M-/SET** to enter

setting. Press **//MR** or **TARE**/**b** to shift key leftward or rightward; Press **+**/**PRINT**/**HI** or

HOLD/LO/- to change the value. Press **M+/SAVE** to return.

17. P 16:

ON display the previous weight when powering on again

OFF not display the previous weight when powering on again

18. P17 : r [] [] Initialization

Press *M-/SET* then press *M+/SAVE* to initialization and the window display **RESET**.

6.Calibration

Note: Before calibration, please set the unit first. The unit used in calibration is the one that has been set before. During the calibration procedure, press **ZERO/ESC** to return to normal weighing mode without saving. Here we take 3kg/1g as an example

- 1. Press and hold *TARE* while powering on. Do not release it till the window displays "*CAL*".
- With no load on the weighing pan, press *TARE* to start zero point calibration. " on 0 "is blanking at the left bottom.

3. Wait till the window displays the first calibration value. "on l"appears at the left bottom.

Note: The first calibration value is default. With the same capacity, the last first calibration point value can be recorded. 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

M-/SET to enter the value setting. Press _/MR or TARE/_ to move leftwards or

rightwards. Press+/PRINT/HI or HOLD/LO/- to change the value. Press M+/SAVE to save.

4. Put the corresponding weight on the weighing pan, and then press TARE to complete

the first point calibration. " $\vec{a} \vec{n} \vec{c}$ " appears at the left bottom.

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 mass to the current weight. The window will show the total weight. Press

TARE to complete. " \mathcal{I} " appears at the left bottom. $\int_{\mathcal{I}} \mathcal{I} \mathcal{I} \mathcal{I}_{kg}$

6. Press **M+/SAVE** to save. After the window displays $\prod_{j=1}^{n} \prod_{j=1}^{n} \prod_{j=1}^{n} n$, 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 1000.0g, gross weight. (The desired weighing unit should be selected before weighing, refer to section 7-5.)



7-2 Manual Tare & Preset Tare

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

Manual Tare

(II)

1) Under the weighing mode, place the container on the weighing pan, wait till stable

symbol appears, and 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 **//MR or TARE/** to move leftwards or rightwards. Press+**/PRINT/HI or**

HOLD/LO/- to change the value. Press M+/SAVE to save and return to weighing

3) Put the load on the container, the scale will automatically deduct the value of the container from the total value.

NOTE: Press Key *G***/***N* to display gross and net weight by turns.

 Clear the load on the container, and press TARE/ or ZERO/ESC to cancel the pretare.

7-3 Check Weighing

Lower limit setting

1. Begin by pressing down key HOLD/LO/-. The scale is now in digital inputting mode

with the right-most digit blinking. $\prod_{k=1}^{n} \prod_{k=1}^{n} \prod_{k$

To set the value of lower limit, press key /MR to shift leftwards, key TARE/ to shift rightwards, key +/PRINT/HI to increase setting values and key HOLD/LO/- to decrease setting value. Key M-/SET to enable or disable the weighing checking

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3. To save the Lower limit and return to weighing mode, Press key **M+/SAVE**

Upper limit setting

1. Begin by pressing down key +/PRINT/HI. The scale is now in digital inputting mode with

the right-most digit blinking.



2. To set the value of upper limit, press key **//MR** to shift leftwards, key **TARE**/**b** to shift

rightwards, key +/PRINT/HI to increase setting values and key HOLD/LO/- to

decrease setting value.

11	П	ĩ	П	Π		н
11	IJ	Ľ.	IJ	IJ	kg	•

3. To save the upper limit and return to weighing mode, press key M+/SAVE

Place the sample on the weighing pan, if the sample weight is under the lower weight range while over or equal 20d, the LOW lamp will light up. If the sample is within the lower and upper weight range while over or equal 20d, the OK lamp will light up. If the sample is over the upper weight range while over or equal 20d, the HI lamp will light up.

7-4 Simple Counting

- 1. Press key **UNIT** to select the unit "PCS".
- 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

are10、20、50、100、200、500、1000(pieces).

4. Put the corresponding samples on the weighing pan, and then press key TARE/. "

Sump is displayed momentarily before the display reverts to the sample quantity.

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- 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** to select the proper weighing unit.

Note:

- 1. The larger 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 Accumulation, Accumulation Display and Accumulation clear

Accumulation

Under the weighing mode, put the item on the weighing pan. Press key M+/SAVE at the

Remove the item and the display goes back to zero before the next accumulation can register. (The maximum is 99 pieces, display the latest 10 accumulation events in details)

Accumulation Display

Press key M-/SET to display the accumulation data

/MR or **TARE**/ to check the total accumulation and each accumulation event in detail.

The number of weighments is indicated by Auxiliary display at the left bottom.

 k^2 XX=Total accumulation ; \vec{n} XX=certain accumulation

Accumulation Clear

To clear accumulation data (total accumulation data or one of the accumulation events), press key *M-/SET* while the data is displayed. To exit and return to normal weighing mode

press key ZERO/ESC.

7-6 Printer initialization by the indicator operation

Press *M-/SET* while powering on to enter parameter setting. Use key */MR* or *TARE/* to shift to P09 *FC* .

- 2. Press *M-/SET* to enter the external device setting. Press */MR* or *TARE/* to choose the printer model
- 3. Shift to certain printer model. Press *M-/SET* and the window will show "UNSUP" or "INIT?"

"UNSUP" means the printer is no need for initialization. Press ZERO/ESC to return.

"init?" means the printer is should be initialized. Press *MR/SAVE* to initialize the printer. When the initialization is finished, the window will show "ok". And then displays the printer model. Press *ZERO/ESC* to return.

7-7 Input commands

Connect the indicator and computer. Run serial port debugging program on the computer. Input the capital number "Z", "T", "R", "C", "P" in the sending area, and the indicator can conduct the corresponding actions.

Z=zero T=tare C=cancel tare R/P=reading / print

8. Serial Interface

If external interface is needed, please select the proper three-in-one board first, which integrates RTC (time display), RS-232 and relay (weight checking) functional module onto one circuit board. Only after this board is adopted, the three functions can be realized.

8-1 RS-232 Diagram



Single Option

1) RS232+RTC+Relay+ (SH-24, BP545D, Godex and ZEBRA) printer

2) RS232+RTC+Relay+ LED Light Tower (Applicable to the quality control of the factory product quantity or weight and that of the total production line.)

3) RS232+RTC+Relay+Computer

9. Troubleshooting and Error Message

Error Message	Problem	shootings		
ERR0	Exceed the zero range	The item should be within 2% of full load		
ERR2	Exceed the initial zero point	 Check whether there are other alien articles on the scale pan, remove those articles. LOAD CELL failure, which requires to be changed or to contact our Service. 		
ERR3	Exceed the A/D resolution range	 Check whether it is A/D failure, if yes, please replace AD. LOAD CELL failure, replacement is required or contact our Service. 		
ERR4	EEPROM failure	Re-sold EEPROM or contact our Service.		
ERR5	Overload condition	Remove weight that is greater than the scale capacity from the pan.		
ERR6	Exceeds the display range			
ERR7	Accumulated number of weighments exceeds the display range	Delete the exceeding weighments		
ERR8	Lower limit is higher than upper limit	re-act the upper limit setting and lower limit setting		
ERR9	Exceed tare or pre-tare range	The tare value should be over zero and less than or equal to full load.		
ERR10	Wrong calibration weights	Place the right weights(the calibration value ≤ full load)		

Appendix 1 : printing format (Optional)

(II)

Printing Device	Format	Sample
2004.11.25 12:28:26 1. 000 kg	prt-01	
2004.11.25 12:27:58 G.W. : 1. 500 kg T.W. : 0. 500 kg N.W. : 1. 000 kg	prt-02	



	(II)	
2004.11.25 12:28:26 1. 000 kg	prt-01	
2012.04.26 13:05:33 G.W.: 100.00 kg T.W.: 0.00 kg N.W.: 100.00 kg	prt-02	
2010.01.01 06:31:54 (01) 1.765 kg (02) 1.760 kg (03) 1.760 kg 	When <section-header> appear under display of accumulation, press key PRINT to the print out.</section-header>	

NOTE:

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

- As for BRICH/GODEX/ZEBRA 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/CK 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".

🖅 Run	X
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	access.cpl
	OK Cancel <u>B</u> rowse

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.

Accessibility Options	1	
Keyboard Sound Display Mouse General		
Automatic reset		
Turn off accessibility features after idle for:		
5 minutes	Settings for SerialKeys	? 🛛
Notification	Choose the port where you conner	rt an alternative input device
Give warning message when turning a feature on	choose the poit where you connet	x an akemative input device.
Make a sound when turning a feature on or off	Serial port:	Baud rate:
SerialKey devices	COM1	♥ 9600 ♥
SerialKey devices allow alternative access to keyboard and	7'	
Use Serial Keys Settings		OK Cancel
Administrative options		
Apply all settings to logon desktop		
Apply all settings to defaults for new users		
OK Cancel Apply		

3. Test if Serial Keys works well.

(II)

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

New Text Document - Notepad		
File Edit Format View Help		
2011.11.12 13:14:15 200	0. 00	~

Export weighing data to Excel

- 1. Open Excel.
- 2. Press [Print], then Excel will show Date and Weighing data.



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3. Use "Format Cells" to beautify Excel:

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Troubleshooting

- 1. Enable "Fast User Switching" function will disable "Use Serial Keys" in the computer. Note: Start->"Control Panel "->"User Account"-> "Fast User Switching" function.
- The data export requires only "GND+RX+TX" three lines, while some wire include nine lines (including usb 9-25pin adapter), which may cause abnormal function. Note: cut other useless line to check if these three lines work well.