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1. Introduction

Thank you for deciding to purchase a JWE Weighing scale from Jadever. This 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 scale on a flat and stable surface. See 3-3 Leveling the Scale for details.

Verify that the input voltage and the plug type matches the local AC power supply. See 4-3 Power supply.

Warm up the scale for 15minutes before using it the first time.

Keep the scale away from EMI noise, strong wind and vibration, which might cause incorrect reading.

Avoid sudden temperature changes (suitable operating temperature is between -5℃~ 40℃.)

Disconnect the power supply when cleaning the scale.

Do 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   User manual
Stainless steel pan   Wire **(power cord)**

3-2 Installing Components

1. Before using the scale, remove the Delivery protection screw (rotate counterclockwise), which is located underneath the scale. This screw ensures protection of the load cell during transport.
2. Cover the stainless steel pan on the plastic pan 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 location is changed.

4. Product Introduction
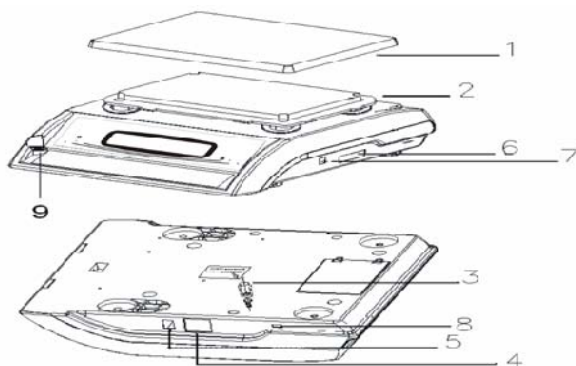
1) Stainless Steel weighing pan
2) Plastic weighing pan
3) Delivery Protection Screw
4) Power socket
5) On/Off Switch
6) HI-LO-OK Signal Output and Bilateral RS-232 Standard Interface
7) Print Button
8) Two-stage Switch
9) Bubble Level Indicator

## 4-1 Specifications & General Features

Specifications

Model	JWE-3K	JWE-6K	JWE-15K	JWE-30K
Capacity	3000g	6000g	15kg	30kg
Division(g)	0.1g	0.2g	0.5g	1g
Display	LCD With Backlight 25mm(H)×8mm(W), 6 digits			
Unit	kg lb lboz g pcs□□□□□□□□□□			
Interface	Bi-direction RS-232 (Optional)			
Pan size	334mm×245mm Stainless steel			
Power	AC 110V/220V (AC±10%) or Rechargeable battery 6V/4A			
Operating Temp.	-5 ~ 40 23 ~ 104			
Maximum Humidity	85 relative humidity, non-condensing			

General Features

- 3kg/0,1g~30kg/1g
- 1/30,000 display resolution
- Water-resistant durable keypad
- Auto power off / Auto backlight
- HI/LO/OK setting can be stored
- HI/LO/OK alarm function
- Soft-ware filtering
- Stainless steel weighing pan is for long-term operation
- Operated by power supply or rechargeable battery
- Internal battery charger
- Clear LCD display with backlight
- Overweight and delivery protection
- Option: RS-232 interface

4-2 Front Panel

4-2-1 Display
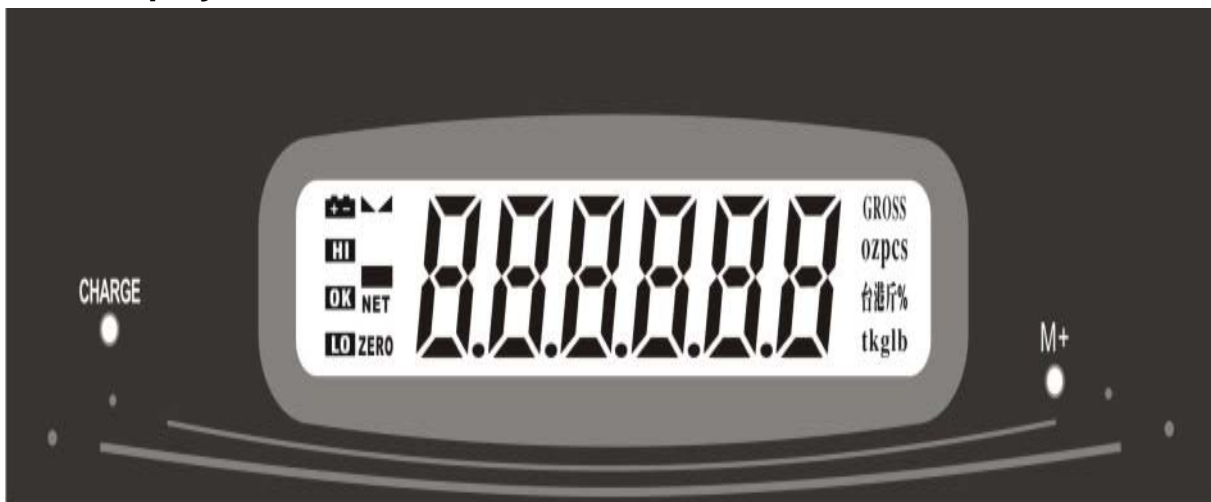
🔋 Low battery indication.

HI The weight on the weighing pan is greater than the upper limit.

OK The weight on the weighing pan is between upper and lower limits.

LO The weight on the weighing pan is smaller than lower limit.

◢◣ The weight is stable.

NET Net weight indicator.

ZERO When **"ZERO"** indicator appears, the scale is in zero status.

ozpcs
台港斤%
tkglb Units of measure

Charge Lamp Lights to indicate battery recharging (red) or charged (green).

Accumulation Lamp Lights up when accumulation function is enable.

4-2-2 Keyboard

1) **M+/MR** key   Memory /Memory recall

2) **MC/SET** key   Enables weight checking function /clear previous accumulation data

3) **MODE** key   Cycles through kg, g, lb, lb-oz,□, □□, □□,pcs and %   Enable □□□ □

and □□ under the setting mode if needed .

4) **TARE◀** key   Tares the weight of the pan / shiftkey, moves to the left.
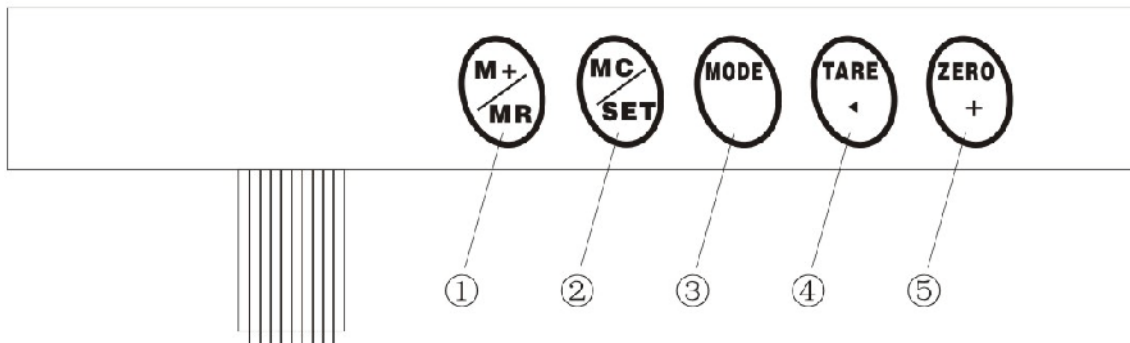
5) **ZERO+** key   Cancels tare / zero the scale ((within 2% of max.capacity) / increase values.

4-3 Power supply

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

Alternative power supply

1) AC 110V/220V (AC±10%)
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 display 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 replaced only by an authorized service dealer .Risk of explosion can occur if replaced with the wrong type or connected improperly.

5. Operations
5-1 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 1000g, gross weight.

5-2 Tare

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

Tare

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

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 the key **TARE ◀** (after the appearance of

"ZERO") or key **ZERO+.**

5-3 Weight Checking

1) Under the weighing mode, press key **MC/SET** to enable the weight checking function.

2) Begin by pressing the key **MODE**. The value of upper limit will display first, with the

left-most digit blinking.

3) To change the upper limit, Press key **ZERO+** to increment the flashing digit and the key

TARE ◀ to shift to the next digit.

4) Advance to the lower limit setting by pressing key **MODE** with the left-most digit

blinking. Repeat the procedure above to set the lower limit.

5) When the lower limit has been set, press key **MODE** to store the settings and begin

weight checking.

6) Press key **M+/MR** to cancel Weight Checking and return to weighing mode.
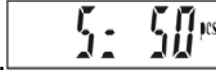
5-4 Simple Counting

1) Under the weighing mode, press key **MODE** to select the unit "PCS"

2) Press key **MC/SET** to choose the sampling amount (Options are 25, 50 and 100), then

put the simples on the weighing pan.

3) Wait till the appearance of CAL
4) Two seconds later, the sampling action ends up with a beep.
5) Remove the samples, and put the load on, the scale calculates the amount of the load.

6) Remove the load and press key **MODE** to select the desired weight unit to go back to

weighing mode.

5-5 Percentage weighing

1) Under the weighing mode, press key **MODE** to select the unit "%"

2) Press key **MC/SET** to choose the percentage (Options are 25%, 50% and 100%), then

put the simple on the weighing pan,
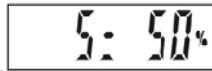
3) Wait till the appearance of CAL
4) Two seconds later, the sampling action end up with a beep.
5) Remove the sample, and put the load on, the scale calculates the percentage of the load.

6) Remove the load and press key **MODE** to select the desired weight unit to go back to

weighing mode.

5-6 Accumulation, Accumulation Display & Accumulation Clearing
Accumulation

1) Under the weighing mode, put the item on the weighing pan. Press key **M+MR** at the

appearance of "◣◢" and the Accumulation Lamp Lights up.
2) Remove the item and the display goes back to zero before the next accumulation can

register. The maximum is 99 pieces.)

Accumulation Display

Press key **M+MR** to display total accumulation data (number of weighments & total weight) and back to weighing mode.

`ALL08` kg	`8.0000` kg	`ZERO  0.0000` kg

Accumulation Clearing

To clear accumulation data, press key **MC/SET** while the total weight is displayed. The accumulation lamp goes off when the accumulation data is deleted.

6. Calibration

1.For best results, calibrate the scale at regular intervals. Temperature changes, geographic gravity variations, altitude changes and abuse are few reasons why a scale may need recalibration.

2**.** Here we take JWE-3K as an example.

6-1 Single Point Calibration

1　Press and hold key **MODE** while powering on the scale. The screen displays "CAL", then release the keys. `CAL`

2　Press key **TARE ◀** to enter the zero point calibration mode. `ZERO  CAL`

3　Press key **MODE** to select calibration weight value. Options are1/3 of full load, 2/3 of full load and full load. E.g., options for JWE-3K are 1, 2 and 3(kg). `1 kg`
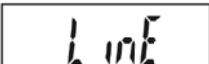
4　Put the corresponding weights on the weighing pan, then the calibration procedure starts. `CAL  kg`

5　The calibration procedure is completed with a beep and "`PASS`" flashing. Now, remove all the weights. `PASS  kg`

6　Press key **ZERO+** to return to weighing mode, key **MODE** to advance to next setting menu.

6-2 Linear Calibration

1　Press and hold key **TARE ◀** while powering on the scale. The screen displays `L inE`, then release the keys. `L inE`

2) Press key **MODE** to enter the zero point calibration mode. ☐ On 0 ☐

3) Wait till **On 1** appears, put weights of 1/3 of full load on the weighing pan and press down key **TARE** ◀ E.g., for JWE-3K ,1/3 of full load is 1kg. ☐ On 1 ☐

4) Wait till **On 2** appears, and then put weights of 2/3 of full load on pan and press down key **TARE** ◀ E.g., for JWE-3K, 2/3 of full load is 2kg. ☐ On 2 ☐

5) Wait till **On 3** appears, then put weight of full load on and press TARE ◀ E.g., for JWE-3K, full load is 3kg. ☐ On 3 ☐

6) The calibration procedure ends up with a symbol of "PASS". ☐ PASS kg ☐

7) Remove all the weights, and then press key **ZERO+** to return to weighing mode.

7. Setting Mode& Description of Parameter Values

Setting Mode

1) Long-press key **MODE** while powering on the scale to enter setting mode. The screen displays "CAL", then release the keys.

2) Press key **MODE** to circle through setting modes.

3) Press key **M+MR** to choose function.

4) Press key **MC/SET** switch on and off the chosen function. Press key **ZERO+** to save the setting and back to the weighing mode. If more settings are needed, press key **MODE** again.

Description of Parameter Values

1) **CAL** Calibration See "7. Calibration"

2) **On** kg Set the active weight unit. The following setting are available:

kg, g, lb, lb-oz,☐, ☐☐, ☐☐,pcs and % . **On** (Enable); **OFF** (disable)

3) **Init:** kg Set the init weight unit. The following setting are available:

kg, g, lb, lb-oz,☐, ☐☐, ☐☐,pcs and %. **On** (Enable); **OFF** (Disable)

4) F $iL.$ 2 Set the filtering level in which the stable indication turns on .The higher the setting, the slower stabilization time. Options are Fil 1,Fil 2,Fil 4 and Fil 8.

5) $AutNO$ Set the period of inactivity before the scale automatically turns off. Options are Aut.NO=non power-off,Aut.5, Aut.10, Aut.30 and Aut.60(minutes).

6) $litAut$ Set the activation mode of backlight. Options are lit.Aut=Auto on with items greater than 9d placed on the weighing pan, lit.ON = Backlight on and lit.OFF=Backlight off.

7) $ZEro.0$ Set zero display range. Options are Zero.0(one division) , Zero.1(2 divisions), Zero.2(3 divisions), Zero.3(4 divisions), Zero.4(5 divisions) and Zero.5(6 divisions) .

8) $bAu.96$ Set RS-232 Serial Transmission Rate. Options are bAu.96(9600), bAu.48(4800) and bAu.24(2400)

9) $PrtPr$ Set Print mode .Options are Prt.Pr(manual print), Prt.St(Stable print) and Prt.Co(Continuous print)
Note: In the continuous print mode, computer will be automatic chosen as the external device.

10) $PEri$ PC Set external Interface. Options are PC, SH, ZEBRA,TP, AX, EZ2-S and tdp-643.

11) $ii.OFF$ Set Weight checking memory. ON (Enable); OFF (Disable)

12) $bEEPin$ Set Weight checking buzzer beep. Options are beep.Un, beep.IN, beep.NO and beep.LO.

13) $rtC.OFF$ Set RTC Function. ON (Enable); OFF (Disable)

8. Serial Interface

If external interface is needed, please select the proper two-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 Connector
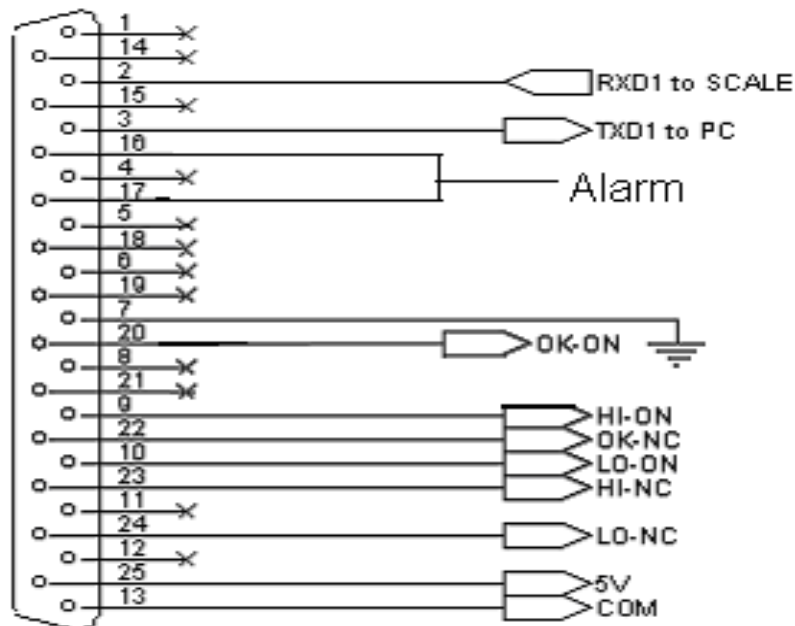
RS232/RELAY

8-2 Single Option

1) RS232+RTC+Relay+ TDP / SH-24 TP / ZEBRA / GODEX EZ)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

8-3 RS-232 Output Format

Baud Rate   2400 4800 9600
Data Bit   8
Parity   N (None)
Stop Bit   1
Code   ASCII
Bit Format

	LSB							MSB		
	0	1	2	3	4	5	6	7	8	
Start Bit									Parity	Stop Bit

Data Format

1. Kg

G/N/T	.	W	.	+/-						k	g	CR	LF
						weight							

Example:
T.W.:
+ 1.000 kg
N.W.:
+ 1.000 kg
G.W.:
+ 2.000 kg

2 g

G/N/T	.	W	.		+/-							g	CR	LF
						Weight								

Example
T.W. :
+   0.0   g
N.W. :
+   1000.0   g
G.W. :
+   1000.0   g

3 lb

G/N/T	.	W	.		+/-							l	b	CR	LF
						Weight									

Example:
T.W. :
+   2.2050 lb
N.W.:
+ 2.2050 lb
G.W.:
+ 4.4100 lb

4.☐☐

G/N/T	.	W	.	+/-				-			G	-	t	l	.	T	C R	LF
					Weight													

Example:
T.W.:
+ 1-10.7G-tl.T
N.W.:
+ 1-10.7G-tl.T
G.W.:
+ 3- 5.3G-tl.T

5.☐☐

G/N/T	.	W	.	+/-				-			G	-	t	l	.	H	C R	LF
					Weight													

Example

T.W. :

+ 1-10.5G-

tl.H N.W. :

+ 1-10.5G-

tl.H G.W. :

+ 3- 4.9G-tl.H

6□□

G/N/ T	.	W	.	+/-					C	-	J	i	n	CR	LF
						Weight									

Example:

T.W. :

+ 2.0000 C-Jing

N.W. :

+ 1.9998 C-Jing

G.W. :

+ 3.9998 C-Jing

7 lb/oz

G/N/ T	.	W	.	+/-							l	b	CR	LF
						Weight								

Example

T.W.:

+ 0- lb 0.000 OZ

N.W.:

+ 2- lb 3.280 OZ

G.W.:

+ 2- lb 3.270 OZ

8 pcs

T	o	t	a	l		+/-					p	c	s		CR	LF

Example

Total + 645 pcs

9. %

+/-						%	C	LF
	%							

Example

+24%

G = GROSS   N = NET

9. Troubleshooting and Error Message

Error message	Problems	Solutions
Err2 *-Err2*	Initial zero point exceeds /-30% (take 10% as reference basis)	1. Check whether there are other alien articles on the scale pan, remove those articles. 2. LOAD CELL failure, which requires to be changed or to contact our Service.
Err3 *-Err3*	Higher or lower than A/D resolution range.	1. Check whether it is A/D failure, if yes, please replace AD. 2. LOAD CELL failure, replacement is required or contact our Service.
Err4	EEPROM Chksum failure	Re-sold EEPROM or contact our Service.
Err5	Overload condition	Remove weight that is greater than the scale capacity from the pan.
Err6	Wrong calibration weights	Calibrate with the correct calibration weights or contact service
OUEr2	Accumulated number of weighments(max: 99 pieces) or weight exceeds the display range.	1. No more accumulations. 2. Reset the Tare value.
▨	Low battery	Recharge the battery. The scale can be used while it is recharging.