Content

1. Introduction

This manual contains installation and operation instructions for the JWI-520 weighing indicator. please read the manual completely before installation and operation.

2. Product Introduction

2-1 Specifications & Features

2-1-1 Specification of JWI-520 Stainless Steel Indicator:

Model	JWI-520	
Version	Lithium battery version	Lead-acid battery version
Waterproof and dustproof grade	IP68	
Overall dimension (mm)	254×86×170	
Accuracy of indicator	3000~15000	
Weighing LED height of word 8 (mm)	36	
Weighing LCD height of word 8 (mm)	43	
Zero range	±4%	
Tare range	100%	
Rechargeable battery	5V/4000mAH lithium battery	6V/4500mAH lead-acid battery
Transformer	5V/2A electronic 100~240V/50~60Hz	9V/1A electronic 100~240V/50~60Hz
T type frame assembly	Optional assembly: 38mm pole height, stainless steel T type frame 1pc; stainless steel tube support 1pc; M6×8 jackscrew 2pcs; L type small wrench 1pc; M4×8 stainless steel screw 4pcs	
RS232 interface	Optional	
RS485 interface	Optional	

2-1-2 Basic data of full Stainless Steel Platform:

Plate size(cm)	2828	3040	4050	5060	6080
Waterproof and dustproof grade	IP68				
Capacity(kg)	15/30/60	30/60/150	60/150/300	60/150/300	150/300/600
Load cell size(mm)	150×35×40	150×44×40	150×60×62	150×60×62	150×90×74 side hole

2-1-3 Working temperature: -5~+35℃

2-1-4 Storage temperature: -25~50℃

3. Keyboard and indication meaning

3-1 keyboard

OFF	Turn off key
ON/ ZERO	Turn on / do ZERO key
SET (0~9)	Setting parameter and inputting numbers
TARE	Tare key

3-2 Indication meaning

Indication	Meaning
3101.x	Version number of software
dc x.xx	The voltage of battery is x.xxV
Err-00	Load cell wiring error or AD error
Err-01	Calibration switch is not short while calibrating
Err-02	Counting mode, under sampling

Err-03	When calibration, the placed weight is too small and it refuses to calibrate. (Weight should more than 10% max. capacity)
- - - -	Overload, show this as the weight over 100%FS+9e, with the DING sound. Then you should reduce the weight.

4. Operations

4-1 Power on and Power off:

① Power on:

Press <ON/ZERO> key, It displays software version after "DING" sound, and then dc-x.xx (voltage of battery is 3~4.2V), self-inspection, 9,8,7···1,0, and the "zero" lamp lighting. Now it's in working state.

② Power off:

Press <OFF> key to power off.

③ Auto power off:

It will be auto power off after 10 minutes when scale is in at ZERO and with no operation.

④ Low voltage off:

It will be auto power off when the voltage is too low.

4-2 Calibration

1. Switch on the adjust key（the adjust key is in the indicator）.

  Press <ON/ZERO> to power on .

2. Press <SET/0~9> and <ON/ZERO> 3 seconds at the same time.

  It shows the last capacity.   For example: c-60 means 60kg.

Press <SET/0~9>   to choose c-30, c-60, c-100, c-150,c-200, c-300,c-600,

  c-1500, c-3000, c-6000 （c is capacity and unit is kg）

3. Press <TARE> to do tare action.

4. Now it displays internal number 0. If it is not 0, press <ON/ZERO> to zero.

5. Place more than 10% max. capacity standard weights on plate.

  Press <TARE> to input the value of weights after internal number is stable.

  Press <SET/0~9> to add 1. Press <TARE> to input next value till to finish.

And then it shows CAEnd for 1 second and return to weighing.

(Please attention to the place of decimal point when inputting values)

6. If display Err03, it means calibration fault.

The reason is: weights are too small or input wrong value.

4-3 Zero

When without tare, the weight display is ≤4% Max. capacity. Press <ON/ZERO> and the display shows " 0 ", "ZERO" Lamp lighting.

4-4 Weighing

Put weight to pan, and it shows the weight, ◥◤ lamp lighting.

4-5 Tare

Put a container on plate and press <TARE >, it shows 0 and "ZERO" lamp off. Then "TARE" lamp lighting. Put the weight on container and it shows net weight. Remove the weight and container together, it displays negative tare and "ZERO" lamp lighting. Now press <TARE > and it returns to normal weighing.

4-6 Power saving

Show "0" with auto power saving after 40 seconds. Put a weight to start weighing again.

4-7 Battery

Battery Lamp	Battery voltage
▣▣▣	Full capacity
▣▣	Half capacity
▣	Low battery
▣▣▣ flashing	Will auto turn off

4-8 Charging

Put the plug in the socket, $\sim$ is charging lamp. ▮▮▮ is lighting when charging.

Show voltage： after power on and on"0", at the same time press <ON /ZERO> and <TARE > three seconds, now show the battery voltage, press <SET/0~9> to exit.

4-9 Parameter setting

Press <SET/0~9> for 3 seconds to enter setting and show main menu. Press <SET/0~9> to choose continuously. It displays as bellow:

rAngE (set limit)

UnItS (choose unit)

A-OFF (choose auto power off)

FILt (set display mode)

Zero (set auto zero)

bUZZE (set buzzle)

d (choose division)

LU- (brightness adjusting)

4-9-1 rAngE (set upper and low limit)

4-9-1-1 When it shows rAngE, press <TARE> to set limit values. Press <SET/0~9> to choose ON or OFF. "ON" is start limit function. "OFF" is Exit limit function. Press <TARE> to confirm.

4-9-1-2 When choose "on" , Press <tare> to enter to set limit value. "under" lamp is lighting and max figure is blinking. Press <set/0~9> once to add numbers. Press <tare> to confirm. When finishing setting under values it will auto exit and then set "over"(same as set under limit).After finish setting, it will back into weighing.

4-9-1-3 When low limit > high limit, it displays off, and then exit.

4-9-1-4 Alarming indicate: m is the weight.

When m≥ high limit, "over" lamp is lighting and flickering.

When low limit <m<high limit, "accept" lamp is lighting (not flickering).

When m≤ low limit, "under" lamp is lighting.

Caution: when the display is not stabilization, no lamp lights.

4-9-2 Units

4-9-2-1 when it displays units, press <tare> to enter and press <set/0~9> to change units. Then press <tare> to confirm. Units: h9(kg), pcs(counting), lb.lb (decimal pounds)

4-9-2-2 Counting: when it displays "pcs", press<tare>. Now "pcs" lamp lighting.

Longtime press <on/zero>, it displays count and return to 0. Then put the sample (as much as possible, but don't more than max.capacity). After stable, press <tare>. Press <set/0~9> to add values and press<tare>to choose. After finishing, it display pcs and pcs lamp lighting.

Caution: pick quantities of max. less than 30000.

4-9-3 A-off

When it displays A-off, press <tare> to enter and press <set/0~9> to choose n or y. n is not in auto power off situation. y is after 10 minutes in zero, it will be auto-off.

4-9-4 Filt (set display mode)

When it displays filt, press <tare>to enter and press <set/0~9> to choose filt-1 or filt-2 or filt-3 or filt-4. Press <tare>to confirm.

Filt-1: Single animal scale function. Weighing in 3 seconds after place weight. is lighting.

Filt-2: Many animal scale function. It shows very slowly after place weight., then lighting.

Filt-3: It will show fast when add weight to scale. (suggestion)

Filt-4: It will show more faster when add weight to scale.

4-9-5 Zero

When it displays zero, press <tare>to enter and it displays zero range x.x. (x.x is auto zero range: 0.5d, 1d, 1.5d, 2d, 2.5d, 3d, 3.5d, 4d, 4.5d and 5d. d is division value. Press <set/0~9> to choose and press <tare> to confirm and return weighing.

4-9-6 Buzzer

When it displays buzzer, press <tare> to enter and press <set/0~9> to choose on or off, "on" is using "ding…" Sound in upper and lower limit situation. "off" is without "ding…" Sound.

4-9-7 d

When it displays d, press <tare> to enter and press <set/0~9> to choose division. Press <tare> to confirm. There are three divisions of each capacity. When you choose the smaller one, the speed of display will be slower.

4-9-8 Lu-

When it displays lu-, press <tare> to enter and press <set/0~9> to choose. lu-1 is lower brightness. lu-2 is higher brightness. Press <tare> to confirm.

 4-9-9 Install and Adjust

4-9-9-1 Stainless steel indicator

Opening the back over of indicator , welding the leads of load cell by color , ring the welding point with heat shrinkable tube , contraction after heating , then place all the lines into sealing bowl , fix the lines and sealing by 704 glue , air dry after 1 hour . Meaning : Red(power+) , Black(power-),Green (signal+) , White(signal-)

4-9-9-2 Stainless steel platform scale

Inserting the pole into platform base and fix it by L type small wrench , then install indicator on T type frame.

5. Notes

5-1 Normal notes

5-1-1 Please read the instruction manual before usage.

5-1-2 Please calibrate scale regularly.

5-1-3 Do not overloading. Not throw heavy things on the scale violently. The damage for overloading is not within the range of guaranteed maintenance.

5-1-4 Don't touch chemicals such like solvent, etc.

5-1-5 Keep the scale clean in order to weighing well.

5-1-6 There is a lead seal on the bottom of the scale. Users are not allowed to remove the seal. If the seal is damaged the scale is not guaranteed for maintenance.

5-2 For sealed lithium battery

5-2-1 The working temperature of battery is -10℃~+50℃. It can be circle charged about 500 times at 20℃.

5-2-2 Please don't change battery by yourself.

5-2-3 Please charge in time. Please full charge if you don't use the scale for a long time. Please charge at least 3 months.

5-2-4 The capacity of battery will be reduced after charge/discharge many times.