FWN-V5L

STAINLESS STEEL WATERPROOF WEIGHING INDICATOR

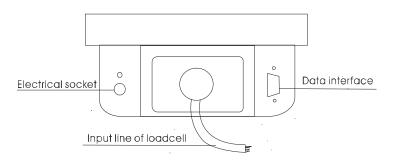
USER'S MANUAL

1. Technical Parameters

- 1.1 A/D Conversion principle: \triangle - Σ
- 1.2 Display accuracy: 1/3000 ---- 1/30000
- 1.3 A/D Resolution: 300000
- 1.4 Bridge voltage: DC 5V, could connect 4 pcs 350Ω loadcells
- 1.5 Capacity: 15kg/33lb、30kg/66lb、60kg/132lb、100kg/220lb、150kg/330lb、300kg/661lb、 600kg/1322lb、1000kg/2204lb、1500kg/3306lb、3000kg/6613lb
- 1.6 Serial communication interface: RS-232, Baud rate 1200, 2400, 4800, 9600 optional
- 1.7 Print: RS-232 Serial print output
- 1.8 Output value amount of three-way switch
- 1.9 Power supply: AC 220V 50Hz / inner 6V4Ah sealed rechargeable battery
- 1.10 Working temperature: $-5 \sim 35 \degree C/23 \sim 95\degree F$
- 1.11Storage temperature: -25 \sim 55°C/-13 \sim 131° F
- 1.12 Size: 212×136×105mm(8.3x5.3x4.1 inch)
- 1.13 Weight: 2.5kg/5.5lb

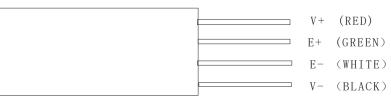
2. Installation

2.1 Bottom schematic drawing of indicator



2.2 Connection between indicator and loadcell

2.2.1 Input signal line of loadcell:



2.2.2 Operation: Slip input line of loadcell on to waterproof heat pipe, slip four input signal line on to thinner heat pipe, then weld the corresponding four input signal lines and four output signal lines. Then, use heat dry to blow the pipe contraction.

Note: When install we must cut off the power supply of loadcell, must unite securely. **Note**: Preventing static electricity, welding on platform is prohibited!

3. Calibration

3.1 Random point calibration.

3.2 Press
$$\begin{array}{c} \text{SET} \\ \text{PRT} \end{array}$$
 to turn on and not let off, till to hear a warning tone and now release $\begin{array}{c} \text{SET} \\ \text{PRT} \end{array}$, after zero, the same time press $\begin{array}{c} \text{SET} \\ \text{PRT} \end{array}$, enter to calibration.

3.3 when it displays
15->30->60->100->150->300->600->1000->1500->3000(Means Max. capacity is:
15kg/33lb、30 kg/66lb、60 kg/132lb、100kg/220lb、150 kg/330lb、300 kg/661lb、600
kg/1322lb、1000kg/2204lb、1500 kg/3306lb、3000 kg/6613lb), press zero to confirm.
3.4 when it displays ,confirm no weight on plate and press, display
1 = -5, the last number is 5> 4 -> 3> 2> 1, if the zero is stable, after display 1, now into next step.
3.5 when it displays , put any weight on centre of plate, press , display
, the last number is 5> 4 -> 3> 2> 1, if the data is stable, after
display 1, now into next step.
3.6 For example when it displays 300.00, it means 300kg (661.3lb) is Max. capacity,
press zero into next step.
3.7 when it displays , input the value of weight on plate: press , to
change the flashing digit, press to change the number, press to choose.
Now finish and show the weight value.
 Default unit is kg after into calibration. it could be most accurately when use a weight approach 1/2 Max. capacity.
•Please use a loadcell fit in the max. capacity.
4. Function and Operating4.1 Button Function
ON OFF Turn on/off.
Confirm function while Setting and calibration.
Choose function while Setting and calibration.
Displace digital function while Setting and calibration.
Add up current weight、times and total value.

Change units; Clear total data while adding up; Quit function while setting.
Enter and quit counting.
4.2 Zero
 G.W. data is in zero range (±4% Max. capacity), press to zero. Cannot zero when there have a tare. 4.3 Tare
While stable, no Negative number and not at zero, press, tare lamp lights. If it is zero
and with a tare, press to quit N.W., tare is zero, tare lamp off. 4.4 Print
When data transmission is EtB (see 5.6), press PRT to send current data to PC or printer. 4.5 Add up
4.5.1When data is stable and stable lamp lights, press to add current data(weight or quantities) to memory, now display add up times and total value. Add up should at zero,
Max. 255 times. Exceed Max. times it will show N - OF, Exceed Max. memory capacity it
will show C – OF.
4.5.2At zero, press to show add up times and total value, return to zero after one second.
4.5.2 Press MC to clear total data.
4.5.3While changing between weighing and counting or turn on scale again, auto clear total
data.
4.6 Change unit Under weighing state, press to change units (see 5.2), under counting state, cannot change units.
4.7 Counting
4.7.1Press, counting indicate lights, show sample number SAP 10 , press to
choose sample number 10->20->50->100->200->500->1000, press to confirm,
now show LOAd C , now place the corresponding sample number, press to finish, now display the sample number.
4.7.2While counting, press to quit counting and return to weighing.

•Cannot save sample data after quit counting.

•While sampling, press_____to return to weighing.

4.8 Weight value alarm

4.8.1 When it displays 0, press PRT + zero the same time, enter to set up weight value alarm.

4.8.2Choose weight value alarm mode: press now repeat display OFF ->In ->oUt,

press to confirm.

oFF : close weight value alarm.

In : **Open** weight value alarm function, alarm in the set range, it sounds di-di-di.

out : **Open** weight value alarm function, alarm out of the set range, it sounds di-di-di.

4.8.3Low limit indicate lights, enter to set up low limit, press PRT, change the flashing digit from left ->right->left, press to choose **0**->**9**.Press to confirm and high limit indicate lights, enter to set up high limit (same as set up low limit). After Setup completes, start alarming.

4.8.4 Weight ≤ low limit: Low limit indicate lights, output value of the Road: 0; output value of other two Roads: High Resistance.

Low limit < Weight ≤ high limit: Accept indicate lights, output value of the Road: 0; output value of other two Roads: High Resistance.

Weight>high limit: high limit indicate lights, output value of the Road: 0; output value of other two Roads: High Resistance.

- High limit is equal or less than low limit, invalid.
- Data saves to next set.
- Data will change while unit changing.
- This function will be closed when close counting function.

4.9 Save power (see 5.5)

4.9.1 XK-3108A: More than 5 seconds at zero or 30 seconds at any other value, display is dimming; When Indication changes, the brightness is back to normal. After 10 minutes after indication is stable, auto power off.

4.9.2 XK-3108B: More than 5 seconds at zero or 30 seconds at any other value, backlight will close; When Indication changes, the backlight is opening. After 10 minutes after indication is stable, auto power off.

4.10 Charge

4.10.1 This indicator is supplied power by built-in 6V4Ah non-maintaining sealed lead-acid battery. When voltage is lower than 5.8V, charge indicate is flicking (XK-3108A) or battery indicate is flicking (XK-3108B), please charge immediately. When voltage is lower than 5.5V, it will be auto-off.

4.10.2 XK-3108A: When charging, charge indicate is flicking (flicking frequency is slower than low voltage flicking); When fully charging, charge indicate is always lighting.

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XK-3108B: When charging, Battery graphics within the square circulation changes. When fully charging, Battery graphics within blocks all light.

4.10.3 Please charge in time while loss power, try to charge full to save battery life. **4.11 Extra Function**

When it displays 0:

Press H^+ to turn on, enter to relative zero-source display mode, Press MC to turn on, enter to absolute zero-source display mode, Press PT H^+ to display voltage.

Under the above three status, press to return weighing or counting.

5. Set up Parameters

SET TARE PRT the same time, enter to set up parameters. When it displays 0, press TARE ZERO Press to choose parameter, press to confirm and enter to next step. 5.1 PrE (Display Accuracy) 1 means n=3000 2 means n=6000 3 means n=15000 4 means n=30000 default is 2 5.2 ZEr (Zero range) $0 \sim 4.5$ ($0 \sim 4.5$ display division), default is 2 5.3 Unt (units) 1 means kg 2 means kg 1b.lb 3 means kg 1b.oz 4 means kg, lb.lb, lb.oz, default is 1. (The default boot unit is pounds). 5.4 brt (Display brightness) $1 \sim 4$, default is 2 (**XK3108B** has no this function) 5.5 SAU (Save power) OF is close, On is open, default is On 5.6 FILT (Filter coefficients): $1 \sim 3$, different display speed and stability. default is 2 5.7 U (Data transmission) SHUL is close, SEr is continuous Send, **Stb** is send after SET PRT to send, default is SHUE stable. Etb is press 5.8 b (Baud rate): 1200、2400、4800、9600, default is 9600 After setting, return to normal status. UINT _____could quit set. During set up, press 6. Character Prompt

PP-8.0.1 Software version

- OF - Er Sen	Overload Not place weight on plate while calibrate or no output of loadcell.
TOAC C	Not enter the calibration state(Lock code is not short-circuit)
SLAC CSL Print	Count sampling is underweight Count sampling is serious underweight Send data
ER-OUT	Zero is higher while calibrate(There have weight on plate or loadcell Zero is
higher.) LOAD P -OFF	Load weight. Power off.

7. Maintenance notice

7.1 Before reading this manual, please don't turn the indicator on.

7.2 The indicator is a measuring apparatus assayed by force, should assay regularly, to ensure its accuracy.

7.3 The environment for use and method of keeping have a certain influence to life-span and dependability of this product, please avoid using and keeping in the following environments :

- Outside the high, low-temperature place where the technical indicator stipulates (temperature - 10 ℃- +40 ℃/14-104 F);
- Place of strong vibration, easy to be knocked into ;
- Temperature changes too fast or air flow in the violent place, such as the sunlight penetrates the air outlet of the air conditioning directly.
- You must charge the battery at least per 3 months when you don't use the scale for a long time.