DIGITAL SCALES ™

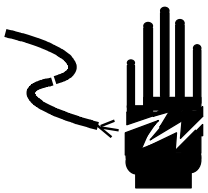
DIGIWEIGH

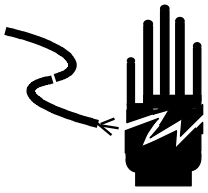
DWP-5000FL

WEIGHING INDICATOR

User Manual

Rev1.1

		WARNING
	Ask professional personnel to debug, detect and repair indicator.	

		WARNING
	Please keep good grounding of indicator.	

WARNING

In electrical connection of indicator, please cut off the power supply in advance. Wait for 30 seconds between power-on of the indicator for 2 times.

Pay Attention to Static Electricity

The indicator is a device sensitive to static electricity, thus please take anti-static precautions in use and maintenance.

CONTENTS

Technical parameters

- Data Transfer: Wireless: From weighing scale to indicator data transfer methods is bluetooth.
- Bluetooth interface (Optional)
- Version of bluetooth: BLE5.0

  Maximum transmitted power: +4dbm Antennae: PCB antennae
- 3.5”TFT color screen display
- 6 function buttons. Operation is simple and convenient
- IP grade: IP5x
- Inner resolution: 1 million
- Weight upgrading rate: 10 times per second
- Power supply mode

  DC 12V±10% or DC 24V±10%
- Micro thermal printer (Optional)
- Operating temperature: -10℃-40℃, relative humidity < 85 %
- Storage temperature: -20℃~60℃, relative humidity < 85 %

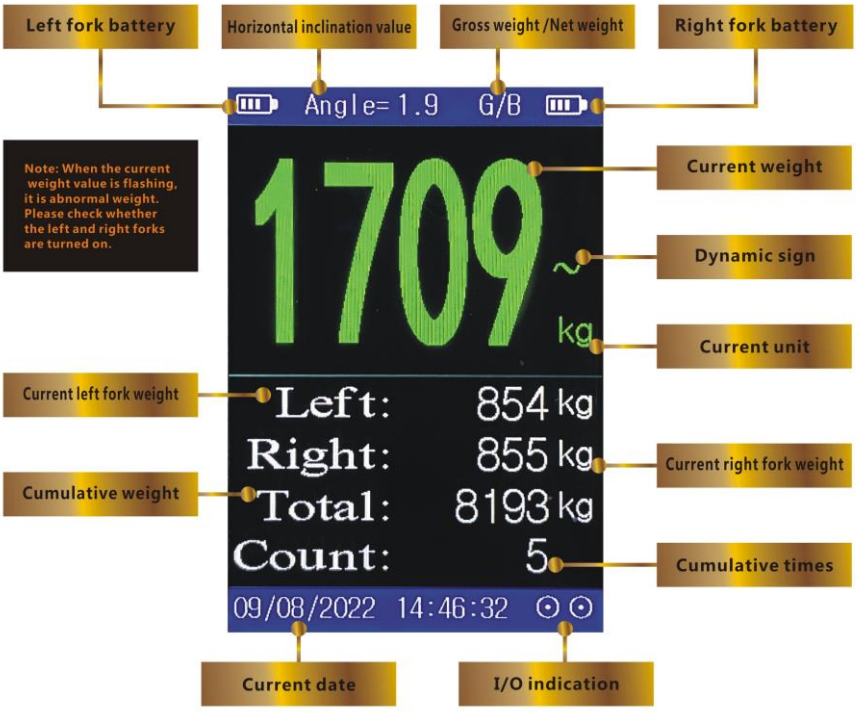
1. Main functions

- Basic weighing function: resetting, removing the peel, clearing the peel and accumulation.
- Automatic screen saver and automatic shutdown for energy-saving function
- Customized printing formats and communication protocol

2. Boundary dimension

Instrument size: detailed as below figure (mm); instrument weight: 2.0kg

3. Introduction of panel



4. Introduction of keys

Sign	Mode	Short press	Long press
	Normal	Turn on	Turn off
	Reset	Return	-
	Normal	-	Enter calibration
	Reset	Move cursor to left	-
	Normal	Add current weight to total	Clear the total
	Reset	Move cursor to right	-
	Normal	Tare (gross weight to net weight)/ Remove the tare (net weight to gross weight)	Enter to adjust the angle difference
	Reset	Choose the next setting Number decrease	-
	Normal	Zero key	Enter to check the internal code of left/right fork
	Reset	Choose the previous setting Number increase	-
	Normal	Print	Enter reset menu
	Reset	Confirm	-

5. Function

1. Manual zeroing (semi-automatic)

A. Press [ZERO] key to make the indicator return to zero
B. The display value deviates from the zero point, but when it is within zero setting range, the [ZERO] key works. Otherwise, the [ZERO] key will not work. For the parameter selection and setting method of the zero setting range, please refer to the relevant chapters of the parameter setting.
C. The zeroing operation can be performed only when the stability sign is bright.

2. Peeling and clearing operation

In the weighing display state, when the displayed weight is positive and weighing is stable, press the [Tare] key to deduct the displayed weight value as the tare weight. At this time, the indicator shows that the net weight is 0, and the symbol is “G\B” change to “Net”, then press [Tare] key to clear the tare weight, return to the gross weight state, and the symbol changes from “Net” to “G\B”.

3. Accumulation and accumulative weight clearing operation

A. Accumulation operation

In the weighing display state, when the displayed weight is positive and the weighing is stable, press the [Add] key, the accumulated times will increase by 1 and the current weight will be accumulated into the accumulation unit as shown in the figure below:

Before accumulation

After accumulation

B. Accumulative weight clearing operation

Press and hold the [Add] key for about 2 seconds until "Total: 0" and "Count: 0" are displayed, indicating that the accumulated weight has been cleared. As shown below:

4. Printing operation

A. Weighing ticket printing

In the weighing display state, when the displayed weight is positive and the weighing is stable, press the [Print] key, and the printer will print the current weighing ticket in the following format:

B. Cumulative weight printing

In the weighing display state, quickly press the [Print] key twice, the printer will print the current accumulated times and accumulated weight in the following format:

Below instructions only for trained engineer.

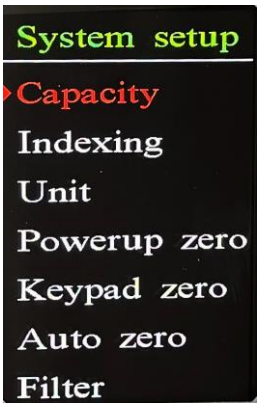
6. Setting and calibration：

Long press “Print”，enter system setting menu，press“ ▲ ”or“ ▼ ”;

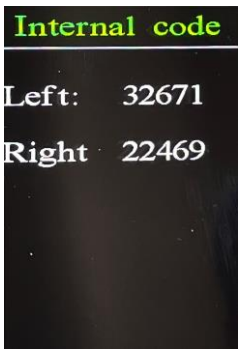
Pick up the parameter（the chosen one is in red），press“ ↵ ”enter menu of next level or confirm the setting 。Press“ ↱ ”to return to the menu of previous menu。

When input the number, press “ ◄ ” “ ► “ to move the cursor to left and right. Press “ ▲ ” “ ▼ ”to change the number。

A、 Parameter setting of scale

	Long press “Print” to enter system setup menu. Press “Print” to enter the menu of next level.
	Description of system parameter: Capacity: 1-20000 (optional) Indexing: 1、2、5、10、50 (optional) Unit: kg、lb、g、t、N (optional) Power up zero： off、5%、10%、20%、50% (optional) Keypad zero：off、5%、10%、20%、50% (optional) Auto zero：off、1、2、3、4、5 (optional) Filter：0、1、2、3、4、5 (optional)

B、Check the internal code of left and right fork

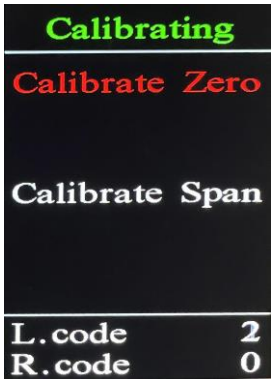
	Long press “Zero” to check the internal code of left and right fork. Apply force to the weighing area of forks and observe the change of internal code for checking the working condition of forks and bluetooth.

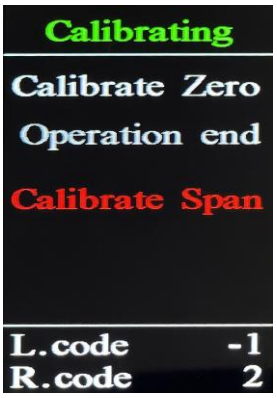
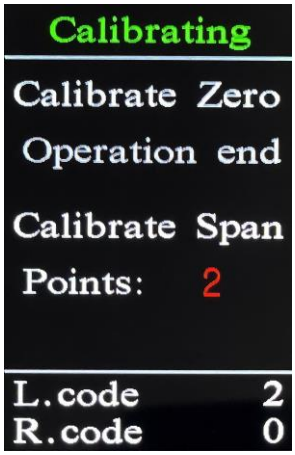
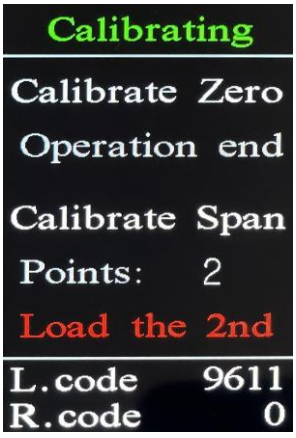
C、Angle adjustment

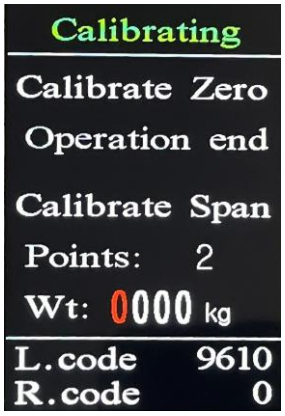
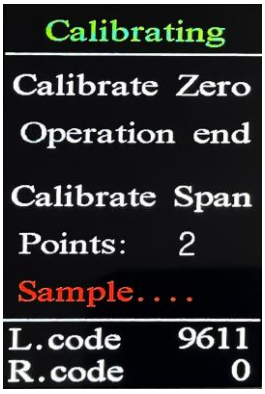
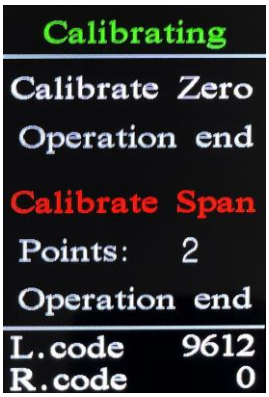
	Long press “Tare” to enter the setting of angle adjustment. It will remind to remove the weight applied to left and right forks. Remove the weight and press “Print” to enter the menu of next level.
	It will remind to apply weight to left fork. Please intention the capacity of weight should be more than 200kg. Observe the change of internal code. When the number is stable, press “Print” to enter the menu of next level.
	It will remind to apply weight to right fork. When put weight to right one, please intention to apply the same capacity with that of the left fork. Observe the internal code. When the number is stable, press “Print” to enter the menu of next level.

	It will show“operation end” Press“Print”or“Return”to go back to the main menu.

D、Calibration

	Long press “Cal”to enter calibration. Please ensure finish angle adjustment before calibration. Press“Zero”or“Tare”for choosing zero point calibration or loading point calibration. If it is the first time of calibration, zero point calibration, and then loading point calibration. Press“Print”to enter the zero point calibration
	Zero point calibration. It will remind to remove the weight applied to scale and keep no weight on the scale. When the internal code is stable, press“Print ”to enter menu of internal code sampling.

	Sampling in zero point calibration. After sampling finish, enter next level menu. Zero point calibration ends.
	When showing zero point calibration ends, then loading point calibration. Press “Print” to enter loading point calibration.
	Setting the number of loading points. If only calibrate the zero point and one loading point, set Points to “2”. After setting the number of calibration points, press “Print” to next menu.
	It reminds to apply weight (2nd loading point) Weight can be put on either left or right fork. It is better to put weight onto both two forks (bear the weight evenly) After putting the weight, observe the change of internal code. Press “Print” to enter menu of next level when the code is stable.

	Input the number of the applied weight. Switch the cursor with “Cal” & “Add”; Change the number with “Tare” & “Zero” Input the right number and press “Print” to enter sampling interface.
	After sampling, enter to next interface.
	Loading point calibration ends, press “Print” or “return” to back to main menu.

7. Continuous output format specification

Start of text	Current total weight	Left fork weight	Right fork weight	End of text
0x02	XXXXX	YYYYY	ZZZZZ	0x0d 、0x0a

1、 Weight value is ASCII text.

2、 XXXXX = YYYYY + ZZZZZ.

3、 Transmission frequency：20 FPS.

4、 Example：0x02 0x30 0x30 0x33 0x30 0x30 0x30 0x30 0x31 0x30 0x30 0x30 0x30 0x32 0x30 0x30 0x0d 0x0a

Example：Total weight:300kg，Left fork weight：100kg，Right fork weight：200kg