



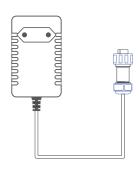
## Part 1 UNBOXING

### **Standard**





Bracket



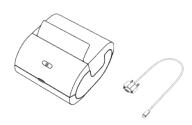


**FOX Indicator** 

Operating Temperature:10°C-40°C Battery Life:13h Charging Specification:12V1A Power Adapter

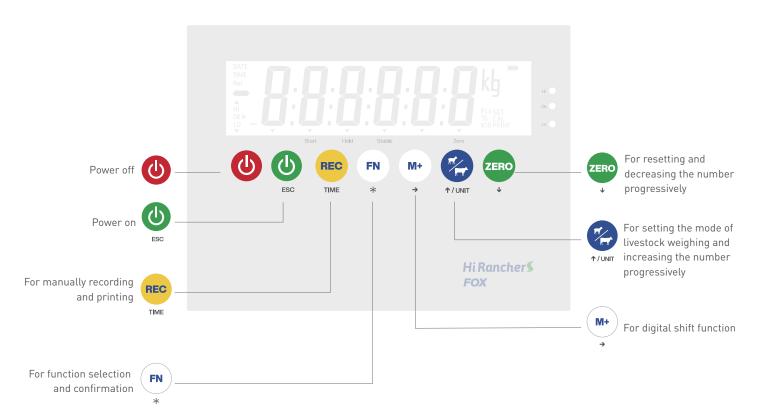
RS232

## **Optional**



Printer

## **Key Functions**

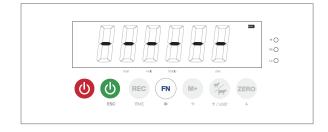


Press to power on, load the product version number [Uer 2.05], the panel will sequentially display the numbers 0 to 9 for self - testing, and finally show [0.0].

If you want to skip the self - test, press  $\P$ , display  $\P$ ----- $\P$ , Processing is completed, showing  $\P$ 0.0 $\P$ 

Press to power off.





[----]

[Uer 2.05]



[0.0]

#### Tips:

When the load bars are correctly connected and stable, the device can enter the weighing state, and the  $_{\text{Stable}}^{\blacktriangledown}$  stays on.

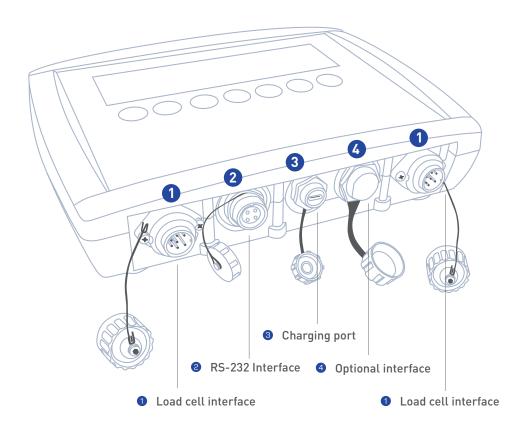
## **Display Panel**



#### Tips:

When the battery level is low, the battery indicator flashes. It is recommended to recharge before use.

### **Interface Introduction**



## Part 2 INITIAL SETUP

### 2.1 Date and Time Set

#### 2.2.1: Hour, Minute, Second Setting



1. Long press ♠ , release after the long beep "dri - " ends.

Default display is hour, minute, second.



2. Press to change the time; the currently flashing character can be calibrated.

Press or to select the digit. Press continue to shift and set each digit.



3. Press to confirm it. Press to return.

#### 2.2.2: Year, Month, Date



1. Long press , release after the long beep "dri - " ends, press switch to year, month, day.



2. Press to enter the year setting; the currently flashing character can be changed by or . Press to shift and set each digit.



3. Press to confirm year, month, and day setting, press to return.

### 2.2 Unit Conversion

The default unit of the indicator is kilograms. If you need to use pounds as the unit, follow the steps below to switch between the two units.



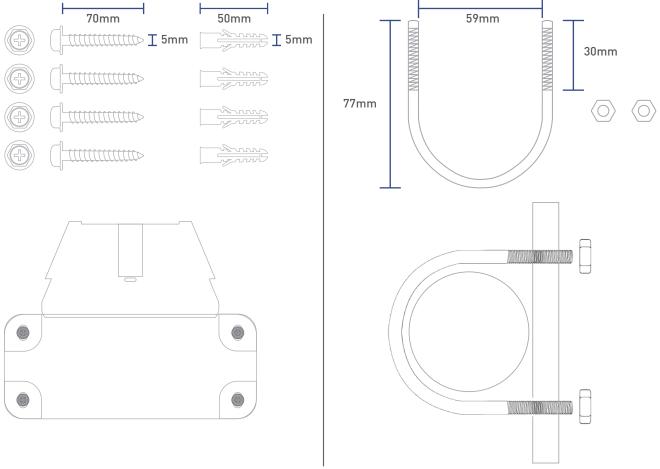
1. Long press, and you'll hear a long beep of "dri - " .Release after the long beep ends.





2.Hear a short "drip drip" sound,indicating a successful unit conversion.

## Part 3 INSTALL BRACKET

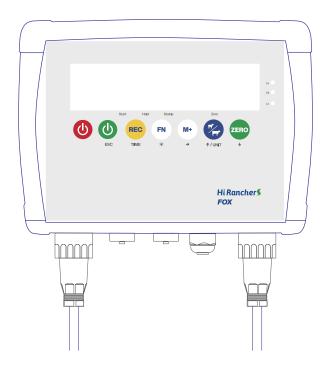


Two installation ways:

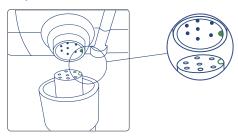
- 1. Mount the stand on a flat vertical surface or a round wooden post using the 4 screws provided with the unit;
- 2. Install the bracket on a vertical or horizontal pole and secure with "U" shaped bolts.

## Part 4 START WEIGHING

## 4.1 Connecting the Load Bars

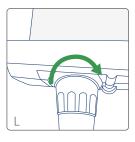


#### Step1.



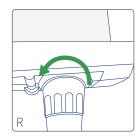
Hold the black plug and insert it into the hole. We have set up corresponding raised parts and recesses for proper alignment. (As shown in the green part of the figure)

#### Step2.



Turn clockwise to tighten.

#### Step3.



Tighten the other end in the same manner by turning counterclockwise.

#### Tips:

- 1. When removing the connector, hold the connector body itself. Do not pull it out by holding the blue cable, as this may cause damage and affect the weighing accuracy.
- 2. After use, cover the connector with the black cap to prevent dust from entering and causing blockages, which may affect precision.

### 4.2 Power On and Zero the Scale

Normally, the indicator will display [0.0], after it is powered on and stabilized. If it has weight when power on, press key to zero the indicator. (Zero range: 2% of the full scale.)



[0.0]

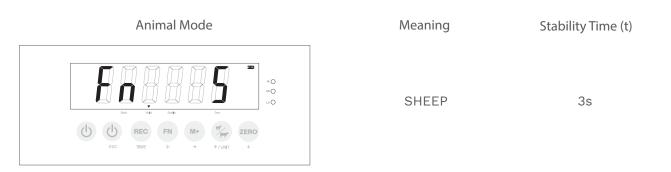
Full Scale\*: The maximum measurement range that the scale can measure.

### 4.3 Session

To help you monitor and manage the weight of animals more effectively, Indicator supports to create sessions of each weighing, which allows you to record the weight of each session of animals at different stages of growth, store and analyze the gained weight, etc. You can also use the check-weighing function to sort and select.

#### 4.3.1: Set Animal Mode

Due to the varying habits and body sizes of different animal species, their behavior on the scale can differ significantly, which affects the stabilization time of the indicator reading **t\*** and, consequently, the accuracy of the weighing results. To achieve more precise weighing results and enable dynamic weighing, the indicator is equipped with an Animal Mode function to meet the needs of various scenarios.



 $t^*\mbox{:}$  The interval time from the appearance of the  $\mbox{\:\tiny Start}$  symbol to the  $\mbox{\:\tiny Hold}$  symbol .

# Animal Mode ### Animal Mode



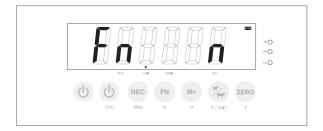


GROUP 7s



USER 0-9s

#### **Animal Mode**



Meaning

Stability Time (t)

Manual Weighing

3s

When you choose this mode, after cattle steps onto the scale, press key, it will start weighing when start lights up; and Hold lights up after 3 seconds, the value is locked. If the weight is not correct, press key to reweigh it.



#### **Operating Procedures:**

Set the animal mode by pressing . The device will default to the last set animal mode . Fn S/C/g/U/n . If no setting has been made before, it will display . Use the or to select the mode, and press to confirm.

#### 4.3.2: Set Animal Group



[S 000A]



[S 002A]



(S 002B)

After confirmation (4.3.1), it will display the session number (defaulting to the last set session). For the first time setting, it will display [S 000A].

(The three-digit range is 001 to 255; 000 is an unconfirmable state.)

Use the to select the number, and press to confirm.

#### Example:

If the same session is weighed a second time/batch, directly press , it will default to the next letter. For example.

If the animal session number was previously set to [S 002A], and you'll keep weighing the same session, press directly, the last letter will automatically change to the next letter in the alphabet, displaying as [S 002B], and so on.

#### Tips:

The session pattern is e.g. 【S 001A】.

The first letter is the animal mode, S/C/g/U/n; the three digit number represents the session number --001 to 255 can be set; the last letter denotes the batch number A...Z.

#### 4.3.3: Checkweigh (i.e., setting the upper and lower limits of the weighing range)

By default, it is divided into three zones-- High, Ok, Low. If this weighing function is not required, you can set L to 000000 and H to a value greater than the maximum capacity of the scale, like 900000.

Once the weight checking settings are completed, a corresponding indicator light will light up for each weighing: Hi  $\bullet$  Ok  $\bullet$  Lo  $\bullet$  .



#### Setting operations



[L01000]



[000000]

#### Lower Limit Setting:

#### (Continue 4.3.2)

Press and to display the previously set lower limit value. If no value has been set before, it will display [L01000], indicating a lower limit of 100.0 kg (the decimal point is not displayed). Press to display [000000]. The currently flashing character can be changed by or ress to move the digit, and press to confirm.



【H02000】



[000000]

#### **Upper Limit Setting:**

After confirming the lower limit setting, the display will immediately jump to the previously set upper limit value. If no upper limit has been set before, it will display a random value e.g. [H02000], indicating an upper limit of 200.0 kg (the decimal point is not displayed). Press to display [000000]. The currently flashing character can be adjusted.

Use or to select the desired number.

Press to cycle through each digit for adjustment, and press to confirm.

To use the animal session saved in the last shutdown, on the [0.0] interface, click and to enter.

If there are issues with inaccurate or unstable weight readings, ensure that the weighing beam is securely and evenly mounted on a level surface, free from stones or soil. Also, ensure that the weighing beam is correctly connected to the indicator.

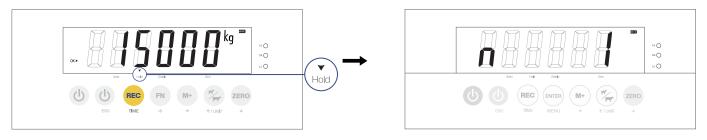
## Part 5 RECORD DATA

If you have not set up an animal group, the weighing data will not be recorded. For instructions on setting up a group, refer to Section 4.3 in the table of contents.

When the weight value is stable (the Stable indicator appears), press to record the displayed weight value and the number of records.

For example, If the stable weight value is 1500 kg, it will display [1500.0].

When the Hold indicator appears, click to record. The display will show In 1], where the number 1 indicates the sequence number of the recorded entry.



## Part 6 TRANSFER DATA

## 6.1 Setting the Print Format



1.Press , display [Print]



2.Press , display Adr 00 The default display value is 00, and no change is required.



3. Press , display [b1 24]
The default display is 96. It can be changed to 24, 48, 96 or 192 as needed.



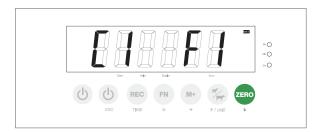
4.Press , display 【CHE1 n】



5. Press , default display 【C1 Ct1】
The format for CT1 is described in Section 6.5.







8.Press , display 【C1 F1】

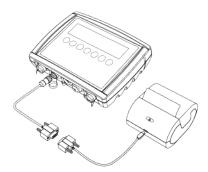
The format for F1 is described in Section 6.5. If you need to connect to a printer, the output format must be set to F1.

## **6.2 Connecting the Printer**









Connection Diagram

Press twice to display the latest session. Press or to switch groups, and press to proceed to the next step.

By default, 【Prt rt】 is displayed, indicating that all summary data of the group will be printed. Press or to switch the printing mode. 【Prt rd】 will be displayed, indicating that all data of the group will be printed item by item. Press to initiate the transfer, and 【-----】 will be displayed to indicate that the transfer is in progress.

If you connect to our company's matching printer, the connecting cable will be included. For other printers, please prepare the connecting cable yourself.

## 6.3 Connecting Bluetooth

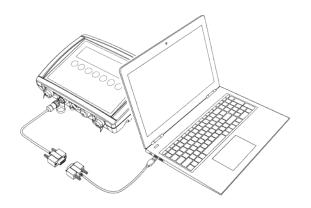
The Bluetooth module replaces the original wired serial port transmission with wireless Bluetooth transmission, and the parameter settings are consistent with those inside the indicator. By using serial port software on a mobile device, you can connect to the indicator via Bluetooth to receive data.

#### **Connection Steps:**

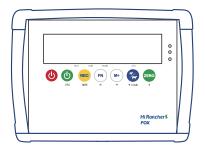
- 1. Turn on the indicator and ensure that the Bluetooth module is in discoverable mode (indicated by a flashing light).
- 2. Enable Bluetooth on your mobile device and open a serial port app (e.g., FeasyBlue or any other app that supports the SPP protocol, available for download on app stores for different systems).
- 3. Select SPP mode in FeasyBlue.
- 4. Scan and select the Bluetooth name corresponding to the device (consult the supplier for the default name).
- 5. After a successful connection, the device will transmit data via Bluetooth in the format set in Section 6.1.



## 6.4 Connect computer.

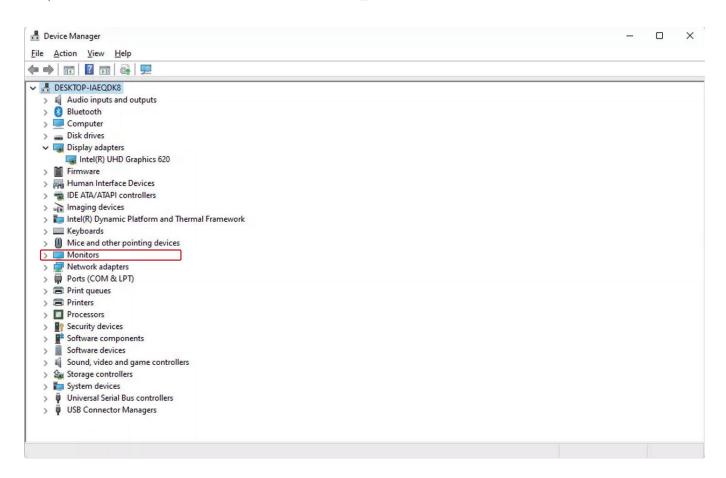


1. Connect the instrument using the 232-to-USB cable included in the packaging (refer to the diagram).

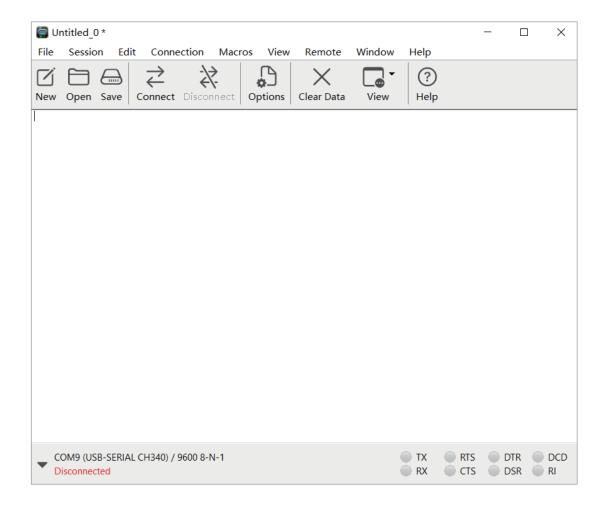


2. Turn on the indicator.

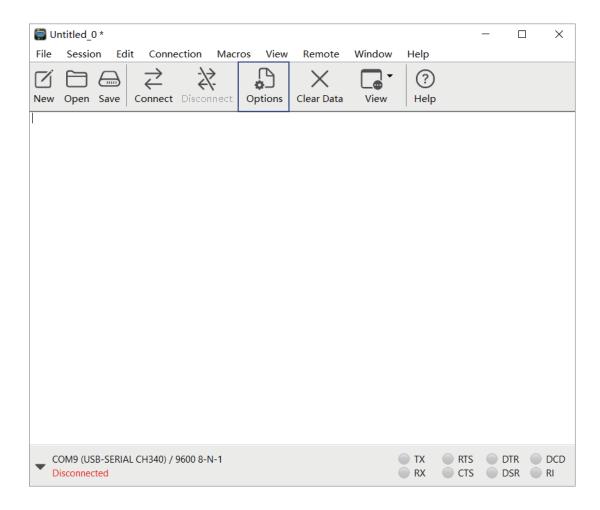
3.On the computer, open Device Manager and locate the COM port under "Universal Serial Bus Controllers." Ensure the USB-to-serial port driver is installed. If not, download it from: [CH341SER.EXE - Nanjing Qinheng Microelectronics] [https://www.wch-ic.com/downloads/CH341SER\_EXE.html).



4.0pen "CoolTerm", as shown in Figure . (download address: [Roger Meier's Freeware](https://freeware.the-meiers.org/))



5. Press "Options" to configure the serial port, as shown in Figure .



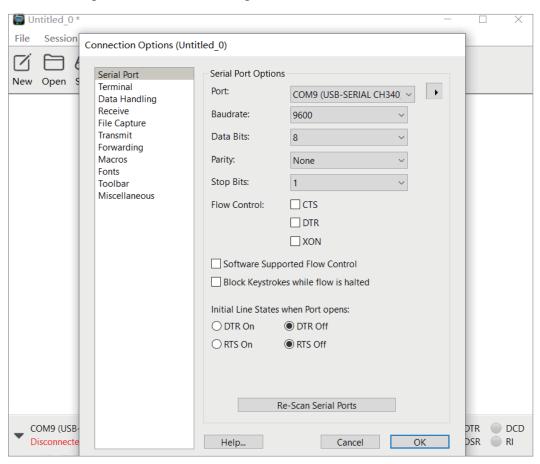
6. Select the port from Device Manager.

Set the software's serial parameters to match the instrument's.

Default serial settings:

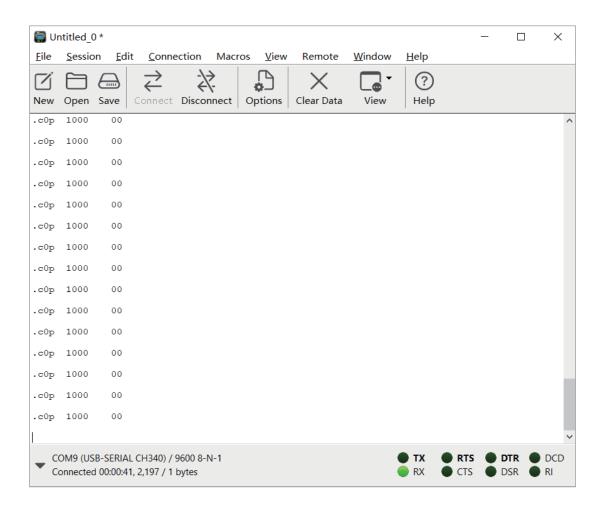
Baud rate: 9600, Data bits: 8, Parity: None (n), Stop bits: 1.

Other settings should follow the figure.



7. After configuration, click "Connect" to receive data from the instrument.

The instrument starts transmitting data (default format Ct1), To change the output format, refer to Section 6.1 to adjust the settings.



# **6.5 Output Format**

## 1.Continuous mode (Ct1, Ct2):

Ct1: Continuously outputs ASCII codes in the specified format, regardless of weighing stability.

Character	1	2	3	4	6-10	11-16	17	18
Data	STX	SWA	SWB	SWC	XXXXXX	YYYYYY	CR	CKS
		Status Word			Display weight			

- 1. STX: Data output starts with hexadecimal 02, corresponding to the ASCII character for "Start of Text".
- 2. SWA, SWB, SWC: Status words A, B, and C, respectively. Details are provided in the table below.

SWA	Bite7	Bite6	Bite5	Bite4	Bite3	Bite2	Bite1	Bite0
А	0	1	1	0	0	0	0	1
С	0	1	1	0	0	0	1	1
D	0	1	1	0	0	1	0	0
В	0	1	1	0	0	0	1	0
Е	0	1	1	0	0	1	0	1
	Check Digit	Always 1	Always 1	Always 0	Always 0		sponding doint position 001:X0 010:X 011:X.X 100:X.XX 101:X.XX	on

SWB	Bite7	Bite6	Bite5	Bite4	Bite3	Bite2	Bite1	Bite0
0	0	0	1	1	0	0	0	0
2	0	0	1	1	0	0	1	0
4	0	0	1	1	0	1	0	0
6	0	0	1	1	0	1	1	0
8	0	0	1	1	1	0	0	0
	0	0	1	0	0	0	0	0
>	0	0	1	1	1	1	1	0
	Check Digit	Always 0	Always 1	0:lb 1:kg	0:Stable 1:Unstable	0:Normal 1:Overload	0:Positive 1:Negative	Always 0

SWC: p(0x70)

- 1. XXXXXX: Displayed weight, six digits, no sign or decimal point. Leading zeros in non-weight data are replaced with spaces (0x20).
- 2. CR: 0x0D
- 3. CKS: Checksum, the complement of the sum of data from STX to CR. The highest bit is the check bit.
- 4. Ct2: Continuously outputs ASCII codes in the format specified below when the weighing is stable. [Format is the same as Ct1.]

## Printing Format One (F1):

0

Summarize Data (Prt rt)

S001A XX-XX-XXXX

Total No.:

Over No.: 0

Under No.: 0

Ok No.: 0

Total WT. 0kg

Avg WT. 0kg

Min WT. 0kg

Max WT. 0kg

Each Data (Prt rd)

S001A No.0003 XX-XX-XXXX XX:XX:XX 0kg

S001A No.0004 XX-XX-XXXX XX:XX:XX Okg

S001A No.0005 XX-XX-XXXX XX:XX:XX Okg

# Part 7 DELETING DATA

# 7.1 Delete All Data Records



Press and hold for three consecutive times, then press to display 【dEL ALL】. indicating the deletion of all data. Press again to proceed to the next step.



Displaying 【dEL n】 means canceling deletion, while 【dEL y】 means executing it. Press or to switch between them, and press to confirm the operation.



# 7.2 Delete Data Records of a Specified Session



Press three times in a row, switch by pressing or pressing and deletion of a set of data. Press to proceed to the next step.



1



Press again to enter session selection, switch sessions by pressing or or, and press to confirm the session to operate. Then display 【dEL n】 means canceling deletion, while 【dEL y】 means executing it. Press or to switch between them, and press to confirm the operation.

### Tips:

- 1. Deleting records of a specified session will remove all related entries under that session.
- For example, selecting session S001 (displayed as S 001A, S 001B, ..., S 001Z) will delete all associated records within that session.
- 2. Deleting the most recent session's records may cause issues with printing functionality when using the checkweighing and recording features for that session. Normal operations will resume after reconfiguring the session or rebooting the device.







# Part 8 TROUBLE SHOOTING

Problem	Testing Way	Solution		
	No Battery Power	Test the battery volume		
	No Dattery Fower	Charge the battery		
	Dattamilian	Test the battery volume whether it's lower than 5		
	Battery broken	Replace the battery		
Can't Power On		Whether the cable connected well		
	No AC nower	Connect it steadily		
	No AC power	AC power cable broken		
		Replace the cable		
	Main EEprom broken	Change mainboard or EEprom		
RS232 No output	Parametersset wrong	Adr=00 or 99 for continuous output		
	I arametersset wrong	Choose the right code		
	DC222 IC backs	Test the voltage between pin3 and pin5 and it should be between 0.2V-1.2V		
	RS232 IC broken	Change the IC		
Incomplete display		Power on the indicator again to check		
		Change the LCD		
	No backlight	Check the backlight pin loose or not		
	No backlight	Re-weld or replace		

Problem	Testing Way	Solution			
	Load cell problem	Disconnect the load cell and the display ok			
	Load cell problem	Change the load cell			
Display vibrating	Load cell Connect	Disconnect the load cell and the display ok			
	wrong	Check the connecting and correct it			
	Battery lower	When the battery volume < 10%			
	Buttery tower	Charge the battery			
	Overload	The weight >100%F.S. + 9d			
	Overtoad	Remove the overload weight			
OUER		Check the load cell ok and also the			
	Load cell problem	connecting correct or not			
		Recalibrate			
-OUER		The weight $<$ -20d or =-100%F.S. on			
-OOLIN	Minus overload	positive/negative weighing mode			
		Zero/Tare the scale or put the scale pan or cover			
	Load cell problem	Check the load cell ok and also the			
		connecting correct or not			
		Recalibrate			

Problem	Testing Way	Solution		
Can't Calibrate	IC broken	Test whether there is 2.35-2.6V voltage between +S and -S		
		Change IC		
ERR0R	Calibration weight too small	The calibration weight is less than 30%F.S.		
		Use the right weight		
	* Error display may follow by some numbers, it's the same reason			

