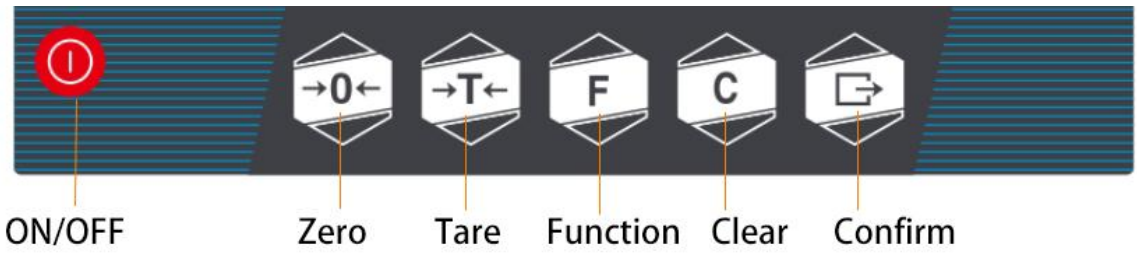
Weighing Indicator

Manual



Please read this instruction carefully before using this product.

■ Safety Instruction

Warning ⚠

- Please observe the following clauses and the notes in this manual. If you do not follow the notes, there will be a risk of serious injury or accident.
- If the fault or abnormality of this product may cause a serious accident to the system, please set up the appropriate protection circuit outside.
- Do not use outside of the specification specified in this product.Otherwise, it may lead to electric shock, fire and malfunction
- Do not use in flammable or explosive gas places
- Do not disassemble or modify this product.Otherwise, it may lead to electric shock, fire and malfunction

Attention

- Please do not use it on atomic energy and life-related medical devices and other equipment.
- All input-output signal lines of this product, in order to prevent the occurrence of surges, please set the appropriate surge suppression circuit.
- The installation of this product is in the form of disc installation. In order to avoid the user getting close to the high-voltage part such as the power terminal, please take necessary measures on the final product.
- In order to prevent damage to the instrument and machine failure, please install appropriate capacity of fuse and other safety circuit breaker protection instruments on the power line connected with the instrument or on the input and output line of large current capacity.
- Please do not mix metal sheet or wire fragment into this product, otherwise it may cause electric shock, fire and failure.
- Please tighten the terminal screw properly. If not tightened completely, it may cause electric shock and fire.
- Be sure to clean after cutting off the power supply.
- When cleaning, please wipe off the dirt of this product with a soft dry cloth.Do not use a hygroscopic agent.Otherwise, it may cause deformation and discoloration.
- Please do not use hard objects to rub or tap the display.
- The installation, commissioning and maintenance of this product shall be carried out by qualified engineers and technicians.

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Before using

- ◆ In order to use the product safely for a long time.Regular maintenance is necessary.Some parts of this product are subject to life limit.The performance will be changed over the years.
- ◆ This manual is subject to change without notice and updated at any time. Please refer to the latest version for reference.If you have any questions, please contact us.
- ◆ The Company shall not be liable for any direct or indirect losses other than the products themselves

1.Installing

Warning ⚠

In order to prevent electric shock and machine failure, please make sure to turn off the power before install and disassemble the machine.

1.1 Installing Attention

(1) Please use indicator within the following environmental conditions：

- Working temperature：-40~85℃
- Working humidity：35~85%RH，without condensation（absolute humidity：MAX. W. C 29.3 g/m3 dry air at 101.3kPa）
- Setting environmental conditions：Indoor using，height＜2000m

(2) Please avoid to install following place：

- Places where dew is likely to form due to drastic temperature changes
- Places where corrosive and flammable gases are produced
- Places where the product vibrates directly or is likely to be impacted
- Places with a lot of dust, salt and metal powder
- Places with large clutter interference and prone to static electricity, magnetic field and noise
- Places with air conditioning and warm air is directly blown
- Places with direct sunlight
- Places where heat accumulation may occur due to thermal radiation

(3) Please consider the points as below in installing place：

- Don't block around the product and the vent L for not to interfere with the heat dissipation.Do not leave enough ventilation space.
- Please ensure that there is more than 50mm space above and below the indicator for wiring and maintenance.
- Do not install directly above the heating device (heaters, transformers, semiconductor operators, high-power resistors).
- Please use a forced fan or a cooling machine to cool it when the using temperature is above 50℃.But do not let the cooling air directly blow to the indicator.
- For improving noise resistance and safety, please try to keep away from high pressure machines, power lines and power machines for installation.

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2.Wiring

Warning ⚠

◆ In order to prevent electric shock and machine failure, please make sure to turn off the power before install and disassemble the machine.

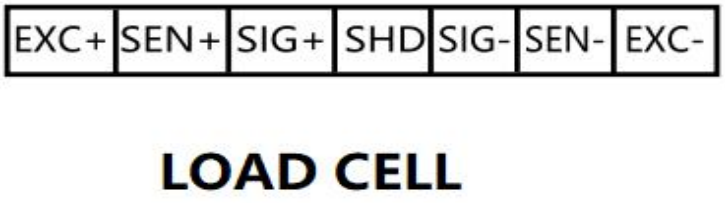
2.1 Wiring Attention

- In order to avoid the influence of noise interference, please keep the input signal line away from the instrument power line, power line and load line for wiring.
- Ensure that the indicator power is not affected by the noise of power supply when wiring.Recommended to use noise filter when it is easy to be affected by noise.
  ---Please twist the wire into a twist.The shorter the twist distance, the better the noise defense effect.
  ---Please make sure that the noise filter is installed on the grounded disk and that the wiring between the output side of the noise filter and the power terminal is the shortest.
- Please use the power according to the power specification.
- Please avoid mixing interference with the measuring circuit
  --Separate the measurement loop from the power line (power loop) or ground loop.
  --For electrostatic interference, the use of shielding wire effect is good.
- To prevent misoperation, do not connect any wires to terminals that are not in use.

2.2 Terminal Constitute

2.3 Loadcell Connection

∅ **Indicator connect with resistance strain type loadcell.Connection method:6 wire connection:**



3. Basic Operation

■ Key Function

No.	Key		Function
1	Display Window		Display the weighing data in the weighing mode; Display the parameter in the setting mode
2	Status Light	ZERO	When lit, indicates the total value is zero
		STABLE	When lit, indicates the force value is stable
		NET	When lit, indicates the current display is net weight

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		kg/g	Unit Indication
			Flashing: Bluetooth initialization completed, waiting for connection; Steady on: Bluetooth connection successful
			Green: Charging completed, Red: Low battery voltage
3			In the weighing mode, press and hold for more than 2 seconds to enter the setting state. In the setting mode, save the modified parameter values and switch to the next parameter.
4	→0←		In the weighing mode, reset; In the setting mode, when displaying parameter numbers: switch to the previous parameter; When modifying parameter values, increase the parameter value.
5	→T←		In the setting mode, when displaying parameter symbols: switch to the next parameter; When modifying parameter values: activate the cursor, with the leftmost number flashing, allow modification after activation, short-press to move the numeric cursor; In the weighing mode, tare function and clear tare
6	F		In the weighing mode, [Function] button; In the setting mode, enter the value modification state
7	C		In the setting mode, clear the displayed value; In the menu mode, exit the current menu

4.Parameter setting

Press for more than 2 seconds to enter the user parameters setting mode.Display **MRSTER** and prompt for password

Super password：→0← →T← →0← →T←　（For setting all parameters）

User password：→0← →0← →0←　（Only for setting F2 parameters）

Press , indicators shows **SETUP** means it has entered the user parameters mode.

- If F1.1 is OIML or NETP ,it cannot set F1,F5.1 and F5.4 according to above method.

If need to set F1 ,it must power off the indicator.Then press S1 button on PCB board while power on till it displays **SETUP**.It can enter to setting mode without password and set any parameter.

- If F1.1 is other，it can only enter to setting mode by above method.

4.1 Key function at setting mode:

→0←：Select prev. parameter

→T←：Select next parameter

C：Return to prev. setting,exting the setting

F：Return to prev. setting

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：Confirm input value,confirm exit

Digital input operation:press F to change parameter

Press C to clear all input value

Press →0← to decrease；Press →T← to increase.

Press to confirm input value.

5.Parameter

Main parameter			
Symbol	Name	Name	Instruction
F1	F1	Scale Setting	Configuration parameter for scale
F2	F2	Application Setting	Setting for application parameter
F3	F3	Indicator Setting	Configuration parameter for indicator
F4	F4	Communication Setting	Setting for communication
F5	F5	Maintance Setting	Maintance indicator
F6	F6	Exit Setting	Exit setting

1： Scale Setting						
No.	Symbol	Menu	Parameter Name	Data range	Default	
01	F1.1	none	Certification	no、oiml、ntep、other	no	
02	F1.2	F1.2.1	Unit	Kg、lb	lb	
		F1.2.2	Capacity option	1r 2r	1r	
		F1.2.3	Full Capacity（First State）	3~100000	6	
		F1.2.4	Division（First State）	0.0001~10	0.001	
		F1.2.5	Full Capacity(Second State)	3~100000	3	
		F1.2.6	Division（Second State）	0.0001~10	0.001	
03	F1.3	F1.3.1	GEO factor	0~31	16	
		F1.3.2	No-linear Revision	Linon、LinOFF	LinOFF	
		F1.3.3	Calibration			
04	F1.4	F1.4.1	Auto-zero Tracking	OFF、0.5d、1d、3d	0.5d	
		F1.4.2	Initial zero range	OFF、2%、10%、20% F1.1 set to OIML：Fixed to 10%	10%	
		F1.4.3	Manually zero range	OFF、2%、10%、20% F1.1set to OIML：fixed to 2%	2%	
05	F1.5	F1.5.1	Auto Tare	On、OFF	OFF	
		F1.5.2	Auto Clear Tare	On、OFF	OFF	

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		F1.5.3	Tare locked	On、OFF	OFF	
		F1.5.4	Auto tare Threshold Value	0~FS（full capacity）	10	
		F1.5.5	Auto Tare Reset Value	0~FS（full capacity）	10	
06	F1.6	F1.6.1	Digital Filter	LO/MED/HIGH/HIGH3 HIGH4/HIGH5	MED	Set para-meters based on the actual version.
			Digital Filter	0、1、2、3、4、5	3	
		F1.6.2	Stable Range	0.5d、1d、3d	0.5d	
07	F1.10	none	Restore Default Setting	F1 parameter Reset		

2:Application Setting						
No.	Symbol	Menu	Parameter Name	Data range	Default	
01	F2.1	None	Function	MUL10/Unit/OVEr/Count	MUL10	
02	F2.2	F2.2.1	Display Type	CHECh/CLASS	CHECh	
		F2.2.2	Target Weight Input Way	Weight/Manual	Weight	
		F2.2.3	Plus Tolerance	0~FS（full capacity）	0.010	
		F2.2.4	Minus Tolerance	0~FS（full capacity）	0.010	
03	F2.3	None	APW function	On、OFF	OFF	
04	F2.10	None	Restore Default Setting	F2 Parameter Reset		

3.Indicator Setting						
No.	Symbol	Menu	Parameter Name	Data range	Default	
01	F3.1	F3.1.1	Timeout function	0~1000s	60	
		F3.1.2	Screen Light	Lo、HIGH	Lo	
02	F3.2	None	Auto Power-off	0~60mins	5mins	
03	F3.3	None	Battery Type	Li-Po、Lead-A 、Dry	Li-Po	
04	F3.10	None	Restore Default Setting	F3 Parameter Reset		

4.Communication Setting						
No.	Symbol	Menu	Parameter Name	Data range	Default	
01	F4.1	F4.1.1	Port 1 Baud Rate	1200/2400/4800/9600/19200/38400/57600/115200	9600	
		F4.1.2	Data Check-bit	7-odd/7-even/8-none	8-none	

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		F4.1.3	Xon/Xoff control	On/OFF	OFF	
		F4.1.4	Send checksum	On/OFF	OFF	
		F4.1.5	Indicator Address	1~32	1	
02	F4.2	F4.2.1	Communication Mode	OFF/FC 1/FC 2/FC 3/ FC 4/FC 5	FC 4	
		F4.2.2	Communication protocol	Print/APrint/SICS/Toledo /YH-A9/RTU/PF 0/PF 2/PF 7/PF 9/PF 10/PF 16/PF 17	Toledo	
		F4.2.3	Commucation Frequency	1~200times/s	30	
03	F4.3	F4.3.1	Printing Type	MULTI/SinGLE	MULTI	
		F4.3.2	Printing Data	Standr/Over/Count	Standr	
		F4.3.3	Printing Language	Eng/CHn	Eng	
		F4.3.4	New-line character	0~9	3	
		F4.3.5	Auto Printing Threshold Value	0~FS(Full Capacity)	0.010	
		F4.3.6	Auto Printing Reset	0~FS(Full Capacity)	0.010	
04	F4.4	F4.4.1	Port 2 Baud Rate	1200/2400/4800/9600/19200/38400/57600/115200	9600	
		F4.4.2	Data Check-bit	7-odd/7-even/8-none	8-none	
05	F4.5	F4.5.1	Communication Mode	OFF/FC 1/FC 2/FC 3/ FC 4/FC 5	FC 4	
		F4.5.2	Communication protocol	AOUT/IOOUT/A7/PF 0/PF 2/PF 7/PF 9/PF 10/PF 16/PF 17	A7	
		F4.5.3	Commucation Frequency	1~100 times/s	30	
06	F4.6	F4.6.1	Zero Output	0~65535	10868	
		F4.6.2	Capacity output	0~65535	54730	
07	F4.10	None	Restore Default Setting	F4 Parameters Reset		

5.Maintance Setting						
No.	Symbol	Menu	Parameter Name	Data range	Default	
01	F5.1	F5.1.1	Zero Reading	Zero Internal Code when calibration		
		F5.1.2	Linear Calibration	Loading weight when linear calibration		
		F5.1.3	Calibration Internal Code	Corresponding Internal code when loading weight		

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		F5.1.4	Full capacity weight	Full capacity loading weight		
		F5.1.5	Full Capacity Internal code	Corresponding Internal code when full capacity		
02	F5.2	None	Key Testing			
03	F5.3	None	Display Testing			
04	F5.4	None	AD Internal Code			
05	F5.5	None	Port 1 Testing			
06	F5.6	None	Printing Parameter list			
07	F5.10	None	Reset Parameter	F1~F4 all parameter set to default,not affect calibration parameter and scale capacity		

6.Exit setting						
No.	Symbol	Menu	Parameter Name	Data range	Default	
01	F6	None	Save parameter	Press confirm key, save and quit; Press Tare,display ABORT， press confirm key,quit but not save parameter		

6.Calibration

When any part of the weighing system changes and the current parameters cannot meet the user's requirements for users.It should be calibrated.

6.1 Enter calibration setting

First enter weighing parameter before calibration.Set the full capacity and division to meet your request.
Enter calibration setting mode by the step 【4.parameter setting method】(The fist parameter).
Suggest the calibration weigt is 80% of capacity.

6.2 Calibration Process

■ 6.3.1 Calibration method and Process

Calibration method to enter the setting menu

📖 1.Method 1:

1. F1.3.2 set to OFF；
2. Enter F1.3.3,Press confirm button and display **E SCL.**Remove the standard weight on platform .Then press confirm button and display **10 CAL.** Set the displayed digit to 1. Display **FULL LD** and then load standard weight.
3. Load the standard weight on platform.Then press confirm butto.Showing **000000 ,** input the

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loaded weight capacity and then press confirm button display **10 CAL.** Set the displayed digit to 1.

4. Display **done** ， finish to calibration.

🕮 2.Method 2:

1. F1.3.2 set to On；
2. Enter F1.3.3 Press confirm button and display **E SCL** ， emove the standard weight on platform .Then press confirm button and display **10 CAL.**Set the displayed digit to 1.Display **add LD** and then load standard weight.
3. Load the standard weight on platform.Then press confirm butto.Showing **000000**， input the loaded weight capacity and then press confirm button display **10 CAL.** Set the displayed digit to 1. Display **FULL LD,**then load the standard weight.
4. Display **done** ,calibration finished.

7. Function & Parameter Instruction

7.1 Weighing Parameter

■ F1.1 Certification Request

◆F1.1 --- Certification

Option ： **NO** **---** No need certification（Default-value）

OIML **---** Meet OIML request

ntep **---** Meet NTEP request

other **---** Meet other request

■ F1.2 Capacity&division

◆F1.2.1 --- Unit

Option：1 --- kg ;2---lb

◆F1.2.2 --- Capacity

Option：1r ---- 1 section capacity（Default-value）；2r --- 2 section capacity

◆F1.2.3 --- Full Capacity（1 section capacity）

Option：3 -----100000 （Default-value 6）

◆F1.2.4 --- Division of 1 section capacity

Option：0.0001~10（Default-value 0.001）

◆F1.2.5 --- 2 section capacity

Option：3 -----100000 （Default-value 3）

Notes：Setting value of 2 section capacity must be less than that of 1 section capacity

◆F1.2.6 ---Division of 2 section capacity

Option：0.0001~10（Default-value 0.001）

■ F1.3 Calibrate Scale

◆F1.3.1 --- Gravity factor

Option：GEO 0~~~GEO 31（Default-value GEO 16）

◆F1.3.2 --- No-linear Revision

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Option：LinOn --- Allowed；LinOFF--- Forbid（Default-value）；

◆F1.3.3 --- Calibration

Check 6.2 calibration process。

■ F1.4 Zero Function

◆F1.4.1 --- Auto-zero Tracking

Option：OFF,0.5d(Default-value),1d,3d

◆F1.4.2 --- Initial zero range

Option：OFF,2%,10%(Default-value),20%

◆F1.4.3 --- Manually zero range

Option：OFF,2%(Default-value),10%,20%

If F1.1 set to OIML,F1.4.2 is 10%，F1.4.3 is 2%

■ F1.5 Tare function

◆F1.5.1 --- Auto Tare

Option：On,OFF (Default-value)

◆F1.5.2--- Auto Clear Tare

Option：On,OFF (Default-value)

◆F1.5.3--- Tare locked

Option：On,OFF (Default-value)

◆F1.5.4--- Auto Tare Threshold Value

Option：0~F.S. (Default-value10)

◆F1.5.5--- Auto Tare Reset Value

Option：0~F.S. (Default-value10)

■ F1.6 Digital Filter（Set parameters based on the actual version.）

◆F1.6.1--- Digital Filter

Option： LO ----- No filter 0 -------- No filter

Med ----- Moderate filter((Default-value) 1 ----- Moderate filter((Default-value)

HIGH ----- Severe filter 2 ----- Severe filter

HIGH3 ----- Severe filter 3 ----- Severe filter

HIGH4 ----- Severe filter 4 ----- Severe filter

HIGH5 ----- Severe filter 5 ----- Severe filter

◆F1.6.2--- Stable Range

Option： 0.5d(Default-value),1d,3d

■ F1.10 Restore Default-value

Make the parameter of F1 set to default-value.Not affect calibration parameter and scale capacity&division.

7.2 Application parameter

■ F2.1 F button function

Option： MUL10 ------- X10 funcyion(Default-value)

Unit ------- Units switch function

Over ------- Over/Under function

Count ------- Count function

Dyna ------- Hold dynamic average data

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Peakhd ------- Peak hold
Anmial ------- Animal Scale
G2N ------- Gross & net weight switch function

■ F2.2 Over/Under function

◆F2.2.1--- Display Mode

Option： CHECH -------- Check weighing function(Default-value)
CLASS -------- Classifying function

◆F2.2.2--- Target weight input method

Option： WEIGHT -------- Get target weight by weighing method(Default-value)
MANUAL -------- Manual input target value

◆F2.2.3--- Plus Tolerance

Option：0~FS (Default-value 0.010)

◆F2.2.4--- Minus Tolerance

Option：0~FS (Default-value0.010)

■ F2.3 APW function

Option：On,OFF (Default-value)

Note：F2.1 is effective when set in count mode.

■ F2.10 Restore Default-value

Make F2 parameter set to default-value。

7.3 Indicator setting

■ F3.1 Display

◆F3.1.1--- Overtime function

Option：0，10~999s (Default-value 60s)。Set to 0.Forbid this function.

◆F3.1.2 --- Display light

Option：Lo (Default-value 60s) ---- Standard light；HIGH ---- High light

■ F3.2 Auton Power-off

Option：0,5~60min. (Default-value 5min.)。Set to 0.Forbid this function.

■ F3.3 Battery type

Option：Li-Po (Default-value) ；LEAD-A –Acid-lead battery；Dry – Dry battery

■ F3.10 Restore Default-value

Make F3 parameter set to default-value。

7.4 Communication setting

■ F4.1 Port 1 Parameter

◆F4.1.1--- Baud rate

Option：1200,2400，4800,9600（Default-value）,19200,38400,57600,15200

◆F4.1.2--- data/check-bit

Option：7-odd ：7-odd parity；7-even： 7-even parity；8-none： 8 none parity (Default-value)

◆F4.1.3--- Xon/Xoff control

Option：On,OFF (Default-value)

◆F4.1.4--- Send checksum and character

Option：On,OFF (Default-value)

◆F4.1.5--- Indicator address

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Option：1~32 (Default-value1)

■ F4.2 Port 1 communication protocol

◆F4.2.1--- Communication mode

Option： OFF - Close sending
FC 1 - Continuous sending
FC 2 - Stable sending 1 time
FC 3 - Command sending
FC 4 - Button sending (Default-value)
FC 5 - Continuous transmission only when stable

Instruction：

OFF ：Close serial interface data output

FC 1：Continuous sending weight by set sending frequency

FC 2： Stable sending once(Power on and zero,send data once if the weight is more than 5d after the goods stabilized.Send the data again after the weighing test is stabilized when take goods down to zero)

FC 3： PF 0 and PF 9 protocol supports interactive commands

FC 4: Press confirm button to send data once at this mode

FC 5：Continuous sending.（Power on and zero,it can send the data.If the weight on platform is equal or more than 1d,send current weight.If it is more than 1d and then zero,send data again.If the weight is minus on platform,not send data.）

◆F4.2.2--- Commucation protocol

Option： Print - Command type printing
APrint - Auto-printing
SICS - SICS Balance protocol output
Toledo - TOLEDO Continuous sending protocol
YH--A9(Default-value) - Yaohua A9 protocol
RTU - Modbus-RTU protocol
PF 0 - PF 0 Protocol format
PF2 - PF 2 Protocol format
PF4 - PF 4 Protocol format
PF7 - PF 7 Protocol format
PF9 - PF 9 Protocol format
PF10 - PF 10 Protocol format
PF16 - PF 16 Protocol format
PF17 - PF 17 Protocol format
PF18 - PF 18 Protocol format

◆F4.2.3---Communication Frequency

Option：1~200times/s

■ F4.3 Command Type/Auto-printing Type

◆F4.3.1---Printing Type

Option：MULTI(Default-value) - Multi-line output; SinGLE - Single-line output

◆F4.3.2---Printing Data

Option：Standr(Default-value) - Standard type
Over - over/under type

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Count - Count type

◆F4.3.3---Printing Language

Option：Eng(Default-value) --- English; CHn ---- Chinese

◆ F4.3.4---New-line Character

Option：0~9 new-line character（Default-value3）

◆F4.3.5---Auto-printing threshold value

Option：0~FS full capacity（Default-value0.010）

◆F4.3.6---Auto-printing reset

Option：0~FS full capacity（Default-value0.010）

■ F4.4 Port 2 parameter

◆F4.4.1--- Baud Rate

Option：1200,2400,4800,9600(Default-value),19200，38400，57600，115200

◆F4.4.2--- data/check-bit

Option：7-odd ：7-odd parity；7-even： 7-even parity；8-none： 8 none parity (Default-value)

■ F4.5 Port 2 communication protocol

◆F4.5.1--- Communication mode

Option： OFF - Close sending

FC 1 - Continuous sending

FC 2 - Stable sending 1 time

FC 3 - Command sending

FC 4 - Button sending (Default-value)

FC 5 - Continuous transmission only when stable

Instruction：

OFF ：Close serial interface data output

FC 1：Continuous sending weight by set sending frequency

FC 2： Stable sending once(Power on and zero,send data once if the weight is more than 5d after the goods stabilized.Send the data again after the weighing test is stabilized when take goods down to zero)

FC 3： PF 0 and PF 9 protocol supports interactive commands

FC 4: Press confirm button to send data once at this mode

FC 5： Continuous sending.（Power on and zero,it can send the data.If the weight on platform is equal or more than 1d,send current weight.If it is more than 1d and then zero,send data again.If the weight is minus on platform,not send data.）

◆F4.5.2--- Communication Protocol

Option： AOUT - Analog output

IOOUT - io output

A7 - Yaohua A7 protocol (Default-value)

PF 0 - PF 0 Protocol format

PF2 - PF 2 Protocol format

PF4 - PF 4 Protocol format

PF7 - PF 7 Protocol format

PF9 - PF 9 Protocol format

PF10 - PF 10 Protocol format

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PF16 - PF 16 Protocol format
PF17 - PF 17 Protocol format
PF18 - PF 18 Protocol format

◆F4.5.3---Communication Frequency
Option：1~100 times/s

■ F4.6 Port 2 analog output

◆F4.6.1---Zero output option：0~65535（Default-value：10868）

◆F4.6.2---Capacity output Option：0~65535（Default-value：54730）

■ F4.10 Restore Default-value

Make F4 parameter set to Default-value。

7.5 Maintance

■ F5.1 Adjusted value

◆F5.1.1---Zero Reading

◆F5.1.2---Loading weight when linear calibration

◆F5.1.3---Indicator reading when loading weight

◆F5.1.4---Loading weight of full capacity

◆F5.1.5---Corresponding data loading weight of full capacity

■ F5.2 Button testing

Display PRESS ,press button in turn.Display 1~5,press power-off button to exit.

■ F5.3 Display Testing

■ F5.4 Indicator Internal Code

■ F5.5 Port 1 testing

■ F5.6 Printing Parameter

■ F5.10 Parameter Reset

F1~f4 all parameter set to default-value。Not affect calibration parameter and capacity&division

7.6 Setting Exit

Display SAVE,press confirm button to save data and exit.
Press TARE button to show ABORT.
Then press confirm button to quit but not save the data.

7.7 Application Instruction

🕮 Zero

At weighing mode，press **>0<** **button to 0**
Zero：When showing weight is changed on platform,press this button to clear.
Zero function can be used when showing data in zero range.
Zero doesn't store after power-off.

🕮 Tare

At weighing mode,press **>T<** button to tare.
Tare value doesn't store after power off.

🕮 X10

At weighing mode,press **>F<** button,total amount enlarge 10 times.
X10：F2.1 set to MUL 10 .Press F button，division enlarge auto 10 times to get more precision weight.It will recover to standard automatically after 20s.At x10 displaying mode,it cannot print.

🕮 Unit switch

F2.1 set to Unit; at weighing mode,press **>F<** button to swith kg and lb.

🕮 Over/Under function --- Checkweighing ；

* F2.1 set to Over ;
* F2.1.1 set to CHECK – Checkweighing ；
* At weighing mode，press **>F<** to Over/Under function.Press F button for 2s.Indicator display the original weight.

If F2.2.2 is Weight – Get target value by weighing mode.Put new weight on platform,press F buttton to save the weight.

If F2.2.2 is Manual– Get target value by input type.Put new weight on platform,press F buttton to save the weight.

Notes： When weight less than target value and more than that of allowed tolerance range,showing “low”

When weight is in allowed tolerance of target value,showing”ok.

When weight more than target value and more than that of allowed tolerance range,showing “high”

🕮 Over/Under function --- Classifying type；

* F2.1 set to Over ;
* F2.1.1 set to CHECK –Classifying type；
* At weighing mode,press **>F<** button to Over/Under function.Press F button for 2s.Indicator display the original weight.

If F2.2.2 is Weight – Get target value by weighing mode.Put new weight on platform,press F buttton to save the weight.

If F2.2.2 is Manual– Get target value by input type.Put new weight on platform,press F buttton to save the weight.

Notes: When weight less than target value and more than that of allowed tolerance range,showing “nnnnnn”

When weight is in allowed tolerance of target value,showing “------”.

When weight more than target value and more than that of allowed tolerance range,showing “uuuuuu”

🕮 Count Function

* F2.1 set to Count --- Counting function .
* F2.1.1 set to CHECK – Checkweighing way.
* At weighing mode,press **>F<** button to count function.Showing quanity, press F button. Showing unit weight.

Count Sample：

Press F button 2s，showing sample quantity,press F button to select different sample quantity:5，10,20,50.Put the same quantity on scale platform and then press Confirm buttont back to count display state.

APW auto enhancement function.

If F2.3 = on，APW auto enhancement function allowed，with increase of the quantity,indicator will

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change the unit weight that close to the average weight to keep the accout prevision.

🕮 DynA function

* F2.1 set DynA ---Get average weight at dynamic mode.
  * At weighing mode,press **>F<** ,auto get average weight automaticly for dynamic type

🕮 PeakHD function

* F2.1 set to PeakHD ---Peak hold；
  * At weighing mode,press **>F<** ,auto showing the peak weight.

🕮 ANMIAL function

* F2.1 set to ANMIAL ---animal scale；
  * At weighing mode,press **>F<** ,Based on F1.6.2(stable range) value， auto take the weight that meet the stable range as showing weight.

7.8 Troubleshooting

Ø |————|：Over loadcell
Ø |_____|：Weight less than 5d
Ø |—no—|：Exceed zero range
Ø ----no----：This button function forbid or dynamic weighing.
Ø EEE or -EEE：F1.1 set to OIMLor NTEP.Canot zero after power on.
Ø Err 3: EEPROM caliabration wrong.
Ø Err 35: At dynamic mode when calibration
Ø Err 4: Sample weight too light at counting mode
Ø Err 6: EEPROM read-write error
Ø Err 70: Long time to press button or key shot circiut
Ø Er AD1:Loadcell signal exceed testing range
Ø Er AD2: Loadcell signal no response
Ø Indicator auto power off : Set auto power off function or battery is low voltage.
Ø Short battery working time: Undercharged battery or Battery life ended
Ø Battery cannot charge: Battery damaged
Ø Err Ad3(black screen) : No AD signal is detected. Check whether the sensor is properly connected.

8. Specification

■ Standard specification

Item		Specification
Power	DC power	5VDC±10%
Battery power	Li-ion battery	3.7V

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Consumed power	DC power	Less than 8W Typital value：2.4W（with 1 loadcell）
Insulation Resistance		≥100MΩ（500V DC MEGA standard）
Insulation Strength		2000V AC （Test condition：50/60Hz，1min.）
Anti-interference		IEC61000-4-2（Electrostatic Dischagre），Class Ⅲ IEC61000-4-4（EFT），Class Ⅲ IEC61000-4-5（Surge），Class Ⅲ
Protection Class		Stainless steel housing IP54（GB/T42-2008）
Operating Environment	Temperature	-10~40℃
	Humidity	35~85 %R•H，none condensation
	Installation	Indoor，Height＜2000m

■ Input Specification

ITEM	Specification
Loadcell power	DC 5V±2%，200mA（MAX）
Input Impedance	＞10MΩ
Zero adjustment range	0～5 mV
Input range	1～10 mV
Conversion mode	Sigma－Delta
Weight updated speed	30 times/s
Nonlinearity	±0.003%F•S（15bps）
Gain Drift	＜ 10 ppm / ℃ (It must use the matched connecting part when connect loadcell,otherwise it may destroy the drift)
High resolution precision	1 / 100000
Division	100~100000
Input signal	Proportion measure:connect 4/6 loadcell
Loadcell	Max. 4pcs 350Ω loadcell

■ Option Specification

ITEM		Specification	
Analog output	A1	Fast current output(4~20)mA、(0~10)mA、(0~20)mA	
	A2	Fast voltage output ±10V	
IO output	A3	IOoutput	

■ Power Supply Specification

Item	Specification
Power specification	5VDC±10%

★ Output specification confirmed by request and shown by the third part of model.

■ Main function

Item	Function
1	Standard weighing function：Zero,Tare,Clear,Print
2	Auto print function
3	Unit Switch：kg、lb
4	X10 function、check-weighing、count

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5	Chinese/English printer option
6	Support PQ16 printer to print Chinese
7	Indicator power save function,Battery low voltage indicate
8	Auto pow off function
9	Standard：GB/T 7724-2008

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