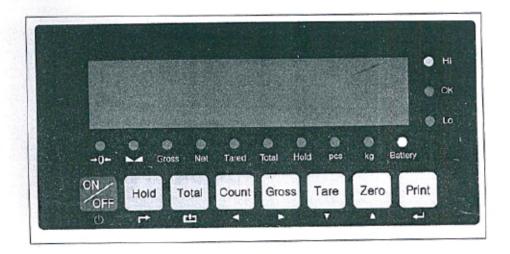
# Weighing indicator

## **USER MANUAL**





## Safety Instruction

For safety operation, pls. follow the safety instruction.



#### WARNING

Setting, calibration, inspection and repair of the indicator is prohibited by Non-professional staff.



#### WARNING

Pls. make sure the weighing display have good ground in using.





#### WARNING

The indicator is the static and sensitive equipment, cut off the power during electrical connections, internal components touched by hand is prohibited, and please take the measure of anti-static.

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## 1. Instruction

This weighing indicator is designed for bench scale, floor scale, ect.

#### 1.1 Main function

#### Weighing function:

Zero, tare, accumulation, printing, animal weighing.

Overload remind.

Print format: Date, Time, Net, Tare, Gross

#### Options:

Pinter

RS232/RS485 serial interface or second display

I/O

4~20mA

#### 1.2 Technical parameter

Accuracy class

OIML (III)

Maximum number of scale intervals

n < 10000

Input signal voltage

-5~20mV DC

Excitation circuit

5 VDC, 4 wire connection ,option 6 wire connection

Minimal load cell impedance

87 Ω, Maximum connect 6 load cell of 350Ω

1 µV /e

AC power

AC100~240V

Minimum input voltage per verification scale interval

Battery enduring life 6V4Ah lead battery or 7.4V4Ah Li battery 30h

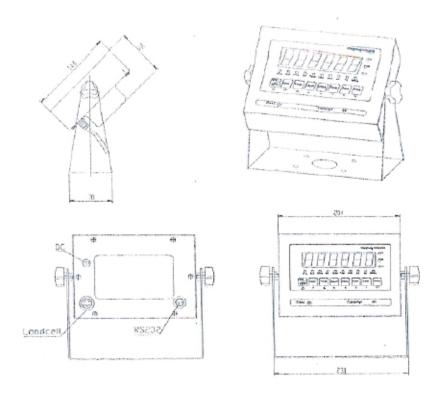
Operation temperature

- 10 °C ~ + 40 °C

Operation humidity

≤85%RH

#### 1.3 Drawing



#### 1.4 Battery instruction

- When you use the internal battery first time, you should charge the battery
   10-12 hours, to prevent low voltage resulted from self leakage of battery.
- The battery voltage could be checked from the light on the right bottom of the display. When low-voltage, "battery marking" flickering and Lobat shining on LCD display; Red light flickering on LED display, then please recharge the battery.
- 3. Charge time: 10-12 hours. And it works 40 hours.
- When the battery light turns green on LED display or "battery marking" all full on LCD display, it means charging finish.
- If you don't use the indicator for a long time, please take out the battery to protect the indicator from the battery leakage.

## 2. Installation and calibration

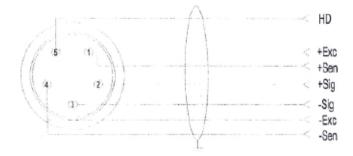
#### 2.1 Power supply connection

The indicator is powered by adapter, you plug the adapter directly into the "DC" pin at the back cover the indicator is ok.

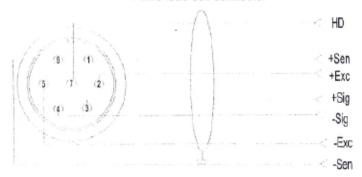
#### 2.2 Connection of load cell and indicator

The indicator can connect with 6 pcs load cell of  $350\Omega$  at most, 4 wire or 6 wire (option) load cell both ok.

There are two methods connection between load cell and indicator A. quick disconnect, as below:



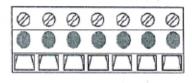
4 wire load cell connector



6 wire (option) load cell connector

#### B. Terminal trip connection (inner connection)

The signal cable for load cell (or the junction box) is connected with Load cell terminal trip on the printed circuit board of weighing indicator. Open Weighing indicator back cover, insert signal cable to Load cell terminal trip, and make sure the screw is fixed tightly.



For 4 wire load cell, connect EXC+ SIG+ HD SIG- EXC-.

For 6 wire load cell, take away RJ4 and RJ7 above the terminal trip, then connect SEN+ EXC+ SIG+ HD SIG- EXC- SEN-.

#### 2.3 Communication interface

RS232: DB9 Pin or 3 Pin

DB9 definition

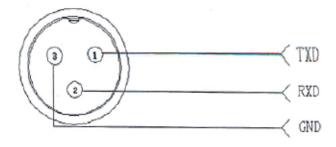


Pin function and definition as bellows:

DB9 joint	Definition	Function
2	TXD .	Transmit data
3	RXD	Receiving data
5	GND .	Ground interface

Note: if RS485 (option) A and B, The connection pin is 2 and 3 pin.

#### 3 Pin definition



#### Inner connection:



#### Pin definitions:

Pins	Definitions	Function
	TXD	Transmit data
RS232	RXD	Receiving data
	GND	Ground
DC405 (antion)	А	RS485 output "A" port
RS485 (option)	В	RS485 output "B" port

## 2.4 4~20mA output (option)

Technical parameters:

Resolutions: 1/1000

Outside Load: 0-500Ω

#### Connection:

Outside connection: 4~20mA, analog input + port connect with "1" pin of DB9, analog input - port connect with "6" pin of DB9.

CND	GND	$\mathbf{z}$	analog	input	module
Indicator	GND				ರ
Indicator	lout	+		Č i	đ
				ć ;	22

#### Testing:

Connect the 4~20mA to analog input module, then you can read the value of 4~20mA by CPU at analog input channel.

If you do not have analog input module, adjust the multimeter to the current stalls, series connection with the 4~20mA.

#### Calibration:

- Press" Print" and " Hold" go to C32, show [out-4], the output current should be 4mA.
- 2. If Press [ $\uparrow$ ] show [out-5], Press [ $\downarrow$ ] show [out-20], the output current should be 20mA.

#### Function instruction:

4~20mA correspond to Zero ~Max. capacity. After press" TARE", the weight will start from 4mA. Set C31=0, 0~20mA output mode; C31=1 4~20mA output mode.

If you need  $0\sim5V$  output, Set C31=0, Then connect  $250\Omega$  at the two ends of current output, will get 5 voltage at resistance two ends.

#### 2.5 Relay output signal function (option)

The indicator can output 4 signal, connect with the outside equipment the indicator can perform automatic control function and upper limit and lower limit alarm function. Perform function through setting C33, 4 signals.

#### As below

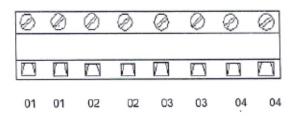
	Output port	Port definition	Function		
	Out1	Close output function	No output signal		
C33=0	Out2	Close output function	No output signal		
C33-0	Out3	Close output function	No output signal		
	Out4	Close output function	No output signal		
	Out1	Open overload control function	Output overload control signal		
	Out2	Open compliance control function	Output compliance control signal		
C33=1 Out3		Open underload control function	Output underload control signal		
	Out4	Open stable control function	Output stable control signal		
C33=2	Preserved, no function.				
C33=3	Preserved, no function.				

#### For example:

Check weight application. Connect indicator with yellow, green, red 3 lights. Yellow light on when overload, if ok the green light on. If under load red light on. And can connect with buzzer. There would be alarm remind when overload.

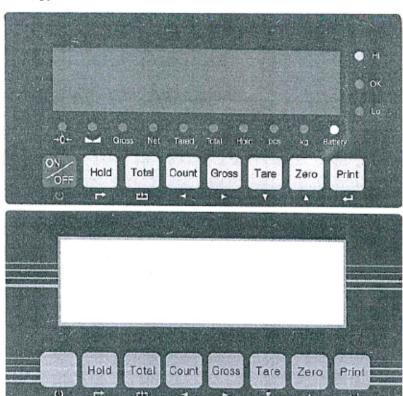
DB9 pin	definition	port	
1 pin	1st output signal pin	Out1	
6 pin	1 <sup>st</sup> output signal pin	Out1	
2 pin	2 <sup>nd</sup> output signal pin	Out2	
7pin	2 <sup>nd</sup> output signal pin Out2		
3 pin	3 <sup>rd</sup> output signal pin Out3		
8 pin	3 <sup>rd</sup> output signal pin Out3		
4 pin	4 <sup>th</sup> output signal pin Out4		
9 pin	4 <sup>th</sup> output signal pin Out4		

### Inner connection pin definitions



## 3. Basic operation

## 3.1 Keypad



LED	instruction			
8	Weighing data			
⇒∕≪⇒	Zero indicating			
	The weighing data is stable			
Gross	Gross weight			
Net	Net weight			
Tared	Tare status			
Total	Go to accumulation mode			

Hold	Hold mode	
PCS	Show the counting status.	
kg	kg unit	
HI	Over load	
OK	Ok	
Lo	Under load ·	

## Keys function

keys	Key name	Key function
Print	Print	Print
Zero	Zero	Zero the weight within zero range
Tare	Tare	At Gross mode, get the tare weight. At Net mode, clear the tare, get the Gross
Gross	Gross weight	At Net mode, check the Gross, after 3 seconds back to Net automatically     Work with "PRINT" weight 10 times
Count	Counting	Counting operation
Total	Accumulation	Accumulation     work together with "Print" to perform     The accumulation function and check the accumulation result
Hold	Holding the data	Holding the data     Work with "PRINT" go to calibration



#### Power on/off

Press 2 seconds to power on or power off

#### 3.2 Power on & off

Press 2 seconds to power on or power off, after power on the indicator show"000000-999999". After self inspection, it goes to the weighing mode. Pls. check it whether 6 bits LED/LCD display and the status light is good or not.

#### 3.3 Zero operation

#### 1. Initial zero setting

When power on the indicator, if the weight on the scale is within the initial zero range, indicator show zero automatically.

#### 2. Manually Zero setting

When the scales is stable, you can zero the weight within range by



#### 3.4 Tare operation

When the scales is stable, Press key, the gross weight is tared, indicator show the Net weight, the "Net" "tared" status light is on. At tare mode, Press" TARE" key, clear the tare weight, the indicator will show the gross weight.

#### 3.5 Accumulation operation

At Zero mode, load weight till stable, Press go to accumulation mode, "Total" light on, display" n 001", and then display loaded weight; unload the weight, back to zero, load the second weight again till stable. Press

total display"n002" then display the second loaded weight. Repeat it agin and again, maximum 999 times.

#### Check the accumulation

Press and hold it then press total, display "n\*\*", (it is the accumulating times) then show total weight, there are 8 digits totally. It shows the first 4 digits then the last 4 digits. For example, the first 4 digits is "0012", the last 4 digits is "34,56". It means the actual weight is "1234.56".

#### EXIT the accumulation function

When the indicator show the last 4 digits, Press hold it, the indicator show "clr n", it means don't clear the total Weight, Press "PRINT" key to back accumulative mode; if you want to clear total weight, Press "ZERO" or "TARE" key, "clr n" change to "clr y" it means clear total weight then Press "PRINT" to clear the total weight and exit accumulating mode.

#### 3.6 Print

If the weighing is stable, after connect with printer, press" PRINT" can print the weight. Note: at tare mode, print with tare, if negative weight, can not print. Set C30 for date format.

#### 3.7 Hold

There are two different hold function. Peak hold function and data hold function. And the setting is different accordingly.

option: 0=close hold function

1=Peak hold /2=Data hold

3=Auto hold/4=Animal hold

Instruction:

Peak-hold: it shows the max. data.

mainly application for materials testing, such as tension and pulling force.

Date-hold: it shows current weight value. Mainly application for animal weighing.

Auto-hold: When the pet keep stable on the scale, the indicator will automatically "Hold" for 6 seconds.

Animal-hold: Press" Hold" key, the indicator will show LOC" for 3 seconds, the "hold" light is on, During the 3 seconds, the indicator will catch the average weight and show it.

Press" HOLD" key again to exit it.

#### 3.8 Count

- At weighing mode, load the weights on the platform scales, Press" Count" the indicator show" PCS 0" press" Zero" key input the quantity, press" Print" to confirm it.
- Load the goods on the platform scales, then the indicator will show the quantity.
- Press" Count" back to weighing mode.
- 3. If you want to weigh different goods, at weighing mode, put the sample on the platform scales, press" Count" the indicator show"0" Press "Print" hold it and then press "Count" the indicator show" PCS 0", press "Zero" input the sample quantity, press " Print" to confirm it. Then repeat the step 2 and 3.

## 4. Calibration and Parameter setting

## 4.1 Enter setting

There have two methods to enter the setting menu:

- Put the switch "MARK" to "On" position, enter calibration.
   And when calibration is finish. Put the switch "MARK" to "off" position.
   Then add the sealing screw at the back of indicator.
- when the switch "MARK" is on position, press the " ◀—I" hold it and then press" 
   <sup>→</sup> " enter calibration.

The key functions in setting:





- < LEFT
- ▷ RIGHT
- → BACK
- EXIT CALIBRATION
- O POWER

## 4.2 Step of calibration operation

# According to the second method which can enter setting menu, G01-G49

step	Method of operation	disp	lay	Remark
1		[C01	]	After you enter calibration mode,
				it display [C01 ]
2	press ◀— <sup>1</sup>	[C1	1]	Weight unit kg
3	press <b>◄</b> ──	[C02	]	Set decimal digits
	press ◄—J	[C2	0]	option: 0/1/2/3/4
	press ↑ or →	[C2	2]	Select decimal digit
				example: two decimal point: [C02 2]
4	press  —	[C03	]	Set graduation
	press ◀—J	[C3	1]	option: 1/2/5/10/20/50
	press  or	[C3	5]	Select required graduation
				example: graduation 5: [C03 5]
5	press ◀—	[C04	]	Max capacity
	press ◀—	[0100	.00]	
	press 1 or 1	[0100	.00]	example: max weighing 100kg:
	· ←			[0100.00]
	press 4—	[C05	]	Zero calibration
	press ◀──	[C5	0]	Option
	press 1	[C5	1]	0=no need zero calibration
	press ◀──	[CAL	9]	1=need zero calibration
		0 9 0 0	0	calibration zero please choose 1
6		[0000]	[00.0	and ensure scale is empty and
				"stable" light is on
				Ensure zero calibration,
				countdown. Till
				show[0.00](example for two
				decimal point).

7 press ◄—	[C06 ]	calibration
press ◄—□	[C6 0]	option:
		0=No need calibration
press 🕈 or 🛨	[C6 1]	1= need calibration
		Load weights on scales
press ◄—	[SPAN ]	according to max. capacity.
	[0100.00]	Suggest close to the max
		capacity, at least 10% of max.
		capacity.
press ↑ or ↓	[0080.00]	For example: the weights is
press ◄—	[CAL 9]	80kg
		As bellows:
	[0080.00]	Input the 0080.00, count down,
	[CAL End]	then indicator shows 0080.00 ,
		calibration is over.
		If you want to set application
		function parameter, press
		" ◄— '" . if you want to exit press
		" († )"
press <j< th=""><th>[C07 ]</th><th>Default parameters setting</th></j<>	[C07 ]	Default parameters setting
8 press ◄—	[C7 0]	option:0=non-restore default
press 1 or +	[C7 1]	parameters
		1=restore default parameters
		Note: after the above
		parameters setting finish, please
		do not set default parameters to
		avoid the original setting
	1 -2 -2 -2 -2 -2	parameters is lost.

## 4.3 Application function parameters setting chart

Function	Setting Item	parameters setting and instruction			
Warning tone	C08 Warning tone	options: 0 = close warning tone 1 = open warning tone			
Automatic power off	C09 Automatic power off	option: 0=close auto power.off  10= power off automatically if no change within 10 minute.  30= power off automatically if no change within 30 minute.  60= power off automatically if no change within 60 minute.			
Power saving setting	C10 Power saving setting	LED Version: option: 0= close power saving setting 3= close display if no change within 3min. 5= close display if no change within 5 min. LCD Version: 0=Close he backlight 1= backlight when the weight change or press the keyboard 2=constant backlight			
Hold function	C11 Hold mode	option: 0=close hold function 1=Peak hold /2=Data hold 3=Auto hold /4=Animal hold Instruction: Peak-hold: it shows the max. data, mainly application for materials testing such as tension and pulling force. Date-hold: it shows current weight value Mainly application for animal weighing.			

	C12	option:
Animal hold	Animal hold	0~9 second
sample time	sample time	
	C13	
Upper/lower	Upper limit	You can set it within the max, capacity limit
limit aļarm	alarm value	
	C14	
	Lower limit	
	alarm value	
Inner Code	C15	
display	Check inner	enter C15 to check the inner code
	code	

	C16	Enter C16, you can set the date, from
Date and time	Date	left to right: year/month/day
Date and time	C17	Enter C17, you can set the time from
	Time	left to right: hour/min./sec.
		option: 0= Close serial interface data
	7	output
		1=Continuous sending, connect big
	C18	display
		2=Print method, connect printer.
Communicatio	Serial interface data output method	3=Command request method ,
		connect computer.
n setting		4=PC continues sending format,
		connect computer.
		5=big display continuous sending
		format.
	C19	option:
	Baud rate	0=1200/1=2400/2=4800/3=9600
	C20	Option:
Zero range	Manually zero	0= close manually zero setting
	range	1=±1% max capacity

		2=±2% max capacity				
		option: 0= no initial zero setting				
		1=±1% max capacity				
	C21	2=±2% max capacity				
7	Initial zero range	5=±5% max capacity				
		10=±10% max capacity				
		Options:				
		0= close zero tracking				
		0.5=±0.5d				
		1.0=±1.0d				
	C22	2.0=±2.0d				
	Automatically zero	3.0=±3.0d				
	tracking range	4.0=±4.0d				
		5.0=±5.0d				
Zero tracking		Note: 1. d = division				
		2. the zero tracking range can				
		not bigger than manual zero range.				
	C23	Options:				
		0= close zero tracking time				
	Automatically zero	1= 1 second				
	tracking time	2= 2 seconds				
		3= 3 seconds				
Overland	C24	antian DO- alone avadend name				
Overload		option: 00= close overload range				
range	Overload range	remark: d =division				
		remark: d =division				
Negative	C25	Option: 0=-20d				
display	Negative display	10=10% max. capacity				
	range	20=20% max, capacity				
		50=50% max. capacity				
		100=100% max. capacity				

Standstill time	C26	Option:
	Standstill time	0= quick 1= medium 2= slow
	C27	Option:
	Standstill range	1= 1d 2=2d 5=5d 10=10d
		D= division
Digital filter	C28	option: 0= close dynamic filter
	Dynamic filter Instruction :	1=1 digital filter strength
	Dynamic filter is	2=2 digital filter strength 3=3 digital filter strength
	collecting the data	4=4 digital filter strength
	filter before loaded	5=5 digital filter strength
	weight stable.	6=6 digital filter strength
	When loaded	Note: Pls setting dynamic filter
	weight easily	strength carefully, the No. is
	shaking (for	bigger, more stable. if the loaded
	example animal),	weight shake not too much. The
	you can set this	setting is less than 3
	filter to make	
	weight display	
	more stable C29	option Oppless price files
	Noise filter	option: 0=close noise filter 1=1 digital filter strength
	TVOISE TIME	2=2 digital filter strength
		3=3 digital filter strength
		a digital man de diigan
	C30	C30=0 yy.mm.dd
	Print date format	C30=1 mm.dd.yy
		C30=2 dd.mm.yy
		C30=3 yy.mm.dd
Analog output	C31 output type	C31=0 0~20mA output
setting		C31=1 4~20mA output

4~20mA	C32 calibrate	Refer to 2.5
current	current .	
calibrate		
Relay output	C33 Relay output	C33=0 close relay output
setting		C33=1 Open relay output function 1
		C33=2 Preserved menu
		C33=3 Preserved menu
Muti	C34	C34= 0~99 Add. Code
communication	Communication	
add.	add.	
Wireless	C35	C35=0~99 signal
communication		
Gravity of	C36	C36=9.7000~9.9999
calibration		
location		
Gravity of	C37	C37=9.7000~9.9999
destination		
Version No.	C38	
multi-interval	C39	C39=0 singe interval
		C39=1 double interval
Print mode	C41	C41=0 auto mode
		C41=1 gross mode
		C41=2 tare mode
		See 5.4 Print format parts in detail
Print carriage	C42	C42=0~9
return		
Space Print	C43	C43=0~9
Date Print	C44	C44=0 not print date
		C44=1 print date
Time Print	C45	C45=0 not print time
		C45=1 print time
		Annual Control of the

# 5. Output format

## 5.1 Big display continuous sending format

	Output continuous format																
S	S	S	S													С	С
Т	W	W	W	Х	Х	Х	Х	х	Х	Х	Χ	Х	х	Х	х	0	К
×	А	В	С													K	S
1		2			3						ı	1			5	6	

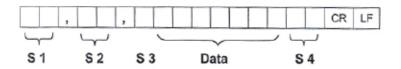
	S	state A	
	В	its0,1,2	
0	1 '	2	Decimal point position
0	1 .	0	XXXXXX
1	1	0	XXXXX. X
0	0	1	XXXX. XX
1	0	1	XXX. XXX
	Bits3,4		Division
0	0		X1
1		0	X2

State B				
BitsS	function			
Bits0	gross=0, net=1			
Bits1	Symbol: positive =0,negative =1			
Bits2	Overload(or under zero)=1			
Bits3	dynamic=1			
Bits4	unit: Ib=0, kg=1			

Bits5	Constant 1
Bits6	Constant 0

	State C						
Bit2	Bit1	BitO	unit				
0	0	0	Kg or lb				
0	0 1						
0	0 1 0						
	Bit 3						
	Bit 4						
	Bit 5						
	Bit 6 Const:						

## 5.2 Computer continuous sending format



S1: weight status, ST= standstill, US= not standstill, OL= overload

S2: weight mode, GS=gross mode, NT=net mode

S3: weight of positive and negative, "+" or " -"

S4: "kg" or "lb"

Data: weight value, including decimal point

CR: carriage return

LF: line feed

#### 5.3 Serial interface reception command

RS232COM serial interface can receive simple ASCII command.

#### Command word and role as follows:

Command	NAME	Function
Т	TARE	Tare operation
Z	ZERO	Zero operation
Р	PRINT	Print the weight
R	Reply	Reply the weight
G	Gross	Check gross weight at net weight mode

#### R command receive data format

As same as 5.2 Computer continuous sending format.

#### 5.4 Print format

#### Tare mode:

Date: XX.XX. XX
Time: XX: XX: XX

NET XX.X kg

TARE XX.X kg GROSS XXX.X kg

Gross mode:

Date: XX.XX. XX

Time: XX: XX: XX
GROSS XXX.X kg

## 6. Maintenance

## 6.1 Regular error and solution

ERROR	REASON	SOLUTION
บบบบบบ	1.Overload 2.Wrong connection with load cell 3. Load cell has quality problem.	Reduce the weight     Check load cell connection     Inspection load cell. Check the input and output
nnnnnn	Number of the second seco	1.Check load cell connection.     2.Check input and output resistance to judge it is good or not.
ERR1	During calibration, not input the weights or the weight is overload	Input the correct weights
ERR2	During calibration , the weights is below than Min. required weights	The calibration weights Minimum is 10% of Max. cap. Recommend 60%-80% of Max. Cap.
ERR3	During calibration, the input signal is negative	Check the connection is correct     Check load cell is no problem     Recalibration if still wrong change the PCB
ERR4	During calibration, the signal is unstable	After the platform is stable, start calibration
ERR5	EEPROM error	Change PCB

ERR6 Exceed zero range	Remove the load
------------------------	-----------------

#### 6.2 Daily maintain

- 1. Protect the indicator from strong sunlight to prolong the using life
- Good connection between load cell and indicator. Far from away from strong electric field, magnetic field.
  - 3. Power off the indicator when lightning
  - 4. Power off the indicator firstly before plug and unplug

#### 6.3 Restore default parameter

Enter to calibration, Set C07=1. Press" ←—" then press" ↑ " to exit saving setting. All parameter will back to default

Note: Pls. do not restore default parameter easily if you are not professional staff or not yet calibrate the scales.

#### Default parameter

Parameter	instruction	Default		
C01	Calibration	. 1		
C02	Decimal digits	0		
C03	Resolution	1		
C04	Max. capacity	10000		
C05	Empty calibration	0		
C06	Capacity calibration	0		
C07	Restore default	. 0		
C08	Warning tone	1		
C09	Power-off automatically	0		
C10	Power saving mode	0		

C11	Hold function	. 0		
C12	Animal hold sample time	3		
C13	Upper limit alarm	000000		
C14	Under limit alarm	000000		
C15	Inner code			
C16	Date setting			
C17	Time setting			
C18	Serial interface data output	0		
C19	Serial interface Baud rate	3 (9600)		
C20	Zero manually	10		
C21	Initial zero	10		
C22	Zero tracking range	0. 5		
C23	Zero tracking time	1		
C24	Overload range	9		
C25	Negative range	10		
C26	Standstill time	1		
C27	Standstill range	2		
C28	Dynamic filter	0		
C29	Noisy filter	2		
C30	Print date format	0		
C31	Analog signal options	1		
C32	4~20mA testing	4		
C33	Relay output setting	1		
- C34	Muti PC communication add.	0		
C35	Wireless communication channel	. 6		
C36	Calibration location gravity	9.7936		
C37	Destination gravity	9.7936		
C38	Version No. check			
C39	multi-interval	0		
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# 6.4 Packing list

### Packing list

S/N	ITEM	NAME	UNIT	QTY	PACKING
1	Weighing indicator		PCS	1	
2	Plastic bag		PCS	1	
3	bag		PCS	1	
		EU/DC9V ·	PCS	1	
		UK/DC9V	PCS	1	
		US/DC9V	PCS	1	
		AU/DC9V	PCS	1	
		OTHERS	PCS	1	
5	User manual		PCS	1	
6	RS232	3 PIN OR DB9	PCS	1	-
7	Load cell plug	5 PIN Quick disconnect	PCS	1	
8	Signal cable	Φ5/3 core shield signal cable	PCS	1	
9	Power cable	3 coreФ0.75mm	PCS	1	
10	Bracket	Wall-mounted	PCS	1	
11	Certificate		PCS	1	
12	Packing list		PCS	1	