


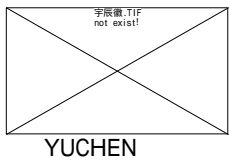
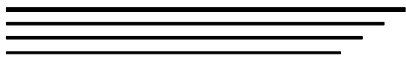
voluntary standards GB/T 7722-2005
This manual provides all the information without prior notice to be amended
The referred information of Yuchen Weighing Apparatus company retain explanation power

Fushun Yuchen Electronic Weighing Apparatus Co.,Ltd
Address:No.6-2 Liu He Street, Shuncheng District, Fushun City,
Liaoning Province, China
Tel :+86-413-7728318 7723822
Fax :+86-413-7736412
Postcode :113006
Web site:Http://www.fsychq.com
E-mail: fsychq@yahoo.com.cn

 This trade mark is registered by Yuchen weighing apparatus company.



This manual printed by vegetable printing ink,
the page inside adopted by recycled paper



ACS serial L1、L4Type Electronic We ighing Counter scale
(LED Digital display storage cell)

OPERATION MANUAL

Superior in technology
performance excellence

L1、L4 (English in brief)

Catalogue		8 Guarantee to keep our product in good repair	
1	Matters needing attention.....	1	Thank you for using ACS serial L1 ,L4 type electronic weighing counter scale produced by Fushun Yuchen Weighing Apparatus CO., Ltd, who provide good after-sale service for you during the period of operation afterwards, try to ensure that solving the problem as soon as possible.
1.1	The conventional matters needing attention.....	1	Within one year after the date of purchasing, if it is broken down under the condition which isn't caused artificially, take the valid invoice and guarantee book to share the free service in the appointed repair service of Yuchen Weighing Apparatus Co., Ltd.
1.2	The matters needing attention when using lead acid battery ...	1	
2	Installment	2	
2.1	Install scale's body.....	2	
2.2	Replace the battery.....	2	
2.3	Turn on /off.....	2	
3	Display.....	3	
3.1	Cursor indication.....	3	
3.2	function key.....	4	
4	Operation.....	4	
4.1	Adjust zero.....	4	
4.2	Press the key to adjust zero.....	4	
4.3	Weighing directly.....	4	
4.4	Tare.....	5	
5	Battery Recharge.....	5	
6	Function introduction.....	5	
6.1	Restore the factory settings.....	5	
6.2	Display speed settings.....	5	
6.3	Display mode settings.....	6	
6.4	Display brightness settings	6	
6.5	Display unit settings	6	
6.6	Auto- power off settings	6	
6.7	Blank item.....	6	
6.8	Zero settings	6	
6.9	The range of setting zero.....	7	
6.10	Zero tracking range.....	7	
6.11	Upper and lower limit voice settings	7	
6.12	Upper limit function settings	7	
6.13	All setup- saving settings	7	
7	The fittings and function.....	8	
8	Guarantee to keep our products in good repair	9	
		Warning	
		Our company will not be changed with the responsibility caused by the contravention of above suggestion or operating improperly.	
		? For easy operating, keep it carefully in order to check.	
		? If there is any question regarding ACS serial L1 , L4 type electronic weighing counter scale, contact with the distributors in local for technical support as soon as possible.	
		Yuchen Weighing Apparatus	
		Weighing all over the world	
		9	

7 The basic fittings and function

L1 type				
capacity	1.5kg	3kg	6kg	15kg
division value	0.02/0.05/0.1/0.2/0.5g	0.05/0.1/0.2/0.5/1g	0.1/0.2/0.5/1/2g	0.2/0.5/1/2/5g

L4 type			
capacity	division value	capacity	division value
1.5kg	0.75/1.5kg :0.5/1g	3kg	1.5/3kg :1/2g
	0.75/1.5kg :0.2/0.5g		1.5/3kg :0.5/1g
	0.75/1.5kg :0.1/0.2g		1.5/3kg :0.2/0.5g
	0.75/1.5kg :0.05/0.1g		1.5/3kg :0.1/0.2g
	0.75/1.5kg :0.02/0.05g		1.5/3kg :0.05/0.1g
6kg	3/6kg :2/5g	15kg	7.5/15kg :5/10g
	3/6kg :1/2g		7.5/15kg :2/5g
	3/6kg :0.5/1g		7.5/15kg :1/2g
	3/6kg :0.2/0.5g		7.5/15kg :0.5/1g
	3/6kg :0.1/0.2g		7.5/15kg :0.2/0.5g

Equipment and function	DESCRIPTION			
Capacity	1.5kg	3kg	6kg	15kg
Division value	0.02/0.05/0.1/0.2/0.5g	0.05/0.1/0.2/0.5/1g	0.1/0.2/0.5/1/2g	0.2/0.5/1/2/5g
Display figure	6 - bit LED figure (high 14mm)			
Working temperature	- 10 degree to +40 degree			
TARE range	when it is in full weight, showing tare ,the range of net- weight will be decreased accordingly			
The platter size	215× 175mm			
Scale size	230× 260× 150mm			
Power supply	220V 50HZ or maintenance- free 6V/5A h plumbous- acid cell			
Recharge	500mA			

Thank you for using ACS serial L2, L5 type electronic weighing counter scale produced by Fushun Yuchen Weighing Apparatus CO., Ltd. We hope Yuchen can give you high efficiency with its products' good dampproof and waterproof features and easy operation .

1 Matters needing attention

1.1 The conventional matters needing attention

1. Please read the operation instruction carefully before using the products in order to know the products more and exact, then you can use the products conveniently.
2. Please keep the scale's body clear and pull off the switch before cleaning the scale's body.
3. You can clean the scale's body with water, but you can't immerse the scale into the water.
4. Don't invert the scale or pull the shelf to move the scale so as to avoid destroying the sensor.
5. Don't use sharp utensil to touch the overthin airproof ring between the shelf and the upper lid so as to avoid poking or breaking the airproof.

1.2 The matters needing attention when use lead acid battery

1. Our company offers the plumbous- acid cell which maintain free and with low rate of releasing electricity's rate slowly, its life is long and working temperature is - 10 to 40 degree. At about 20 degree, its circulate charge and release electricity frequency is about three hundred times. The cell's charging time is related to the surplus electric quantity, the more surplus electric quantity, the less the charging time. Until 15 hours after releasing all the electric quantity, the cell can be full of electricity.
2. The plumbous- acid cell's anode and cathode can't short circuit or be connected contrary; otherwise the cell will be broken or bum- down. The right connection is: the red wire is connected with the cell's plug with red mark and the black wire is connected with the cell's plug with black mark.
3. Don't contact the cell with oil, water or other chemical solvent; otherwise it will affect the life of the cell. Don't disassemble or repair the cell by yourself or close to fire.
4. When the cell's electricity is exhaustive, you should change in time; if you don't use it long- term you should get out the cell to avoid leaking the cell's liquid and destroy the scale, you should save it which is full of electricity. The cell should change at least once during three months.
5. If you don't use the new cell for long- term, when use it at the beginning, you need charge and release electricity more than three times so as to recover the cell to work. So if you use the scale for the first time, it can't be used for a long time after charging, this doesn't mean the cell is broken, after changing and releasing electricity many times, it will restore normality regularly.
6. Please pay more attention to cover with the charging jack's protection sheath after charging; otherwise the socket will be corrosive as a result of the moisture in the air.

7. As the plambous- acid cell wastage easily, its life span is related to the consumer's using method 【the battery is beyond the range of guarantee to be keep in good repair】.

8. With the increasing of the changing frequency, the cell will decrease to release electricity after charging, that is, the cell's working time will become less after charging. It is the character of the changing cell, if you finish changing the cell and then need change soon, please change a new cell.

2 Installment

2.1 Install scale's body

1. Open the packing box, the box contains some objects, as follows:

Order	Name and specification	Unit	Amount
1	ACS serial L1, L4type electronic weighing counter scale's body	dais	1
2	operation manual	share	1
3	Product's qualified certification	share	1
4	Insure repair's voucher	share	1
5	Power supply's adapter	entries	1
6	Stainless steel's pan	entries	1

2. Put the scale's body on the sturdy horizontal desk and adjust the scale foot (namely revolve the scale foot), change the horizontal indicative instrument's bubble on the panel to the inside of the centre circle in order to keep the pan smoothly.

3. Install the pan, if you use the alternating current, please plunge one side of the power wire into the adapter's jack under the scale's body and the other side into the power supply socket and weighing is ready.

2.2 Replace the cell

1. Use cross screwdriver to take down the lid of the cell's box under the scale, then take down the cell's fixing plank, at last take down the cell.

2. Change a new cell, pay attention to not connecting the electrode contrary.

Attention: The lead acid cell's anode and cathode can't short circuit or be connected contrary; otherwise the cell will be broken or lead burning. The right connection is: the red wire is connected with the cell's plug with red mark and the black wire is connected with the cell's plug with black mark.

3. Cover the lid of the cell's box, pay attention to lay the airproof circle firmly and insure the airproof quality.

2.3 Turn ON/OFF the machine

1. Turn on the machine

x=2 , 1.0e

x=3 , 1.5e

x=4, 2.0e

x=5, 2.5e

Press the key【ZERO】to choose x, press the key【FUNCTION】to continue

6.10 It will display:【u0.8 x】Zero tracking range, for five grades:

x=1 , without the buzzer's output

x=2 , when the weight is within the range of installment, it will ring once

x=3 , when the weight is beyond the range of installment, it will ring twice

Press the key 【ZERO】 to choose x, press the key 【FUNCTION】 to be definite, then enter into the next installment.

6.11 It will display【u0.9 x】 buzzer output setting, for three grades:

x=1 non buzzer output

x=2 when the weight in the range of setting buzzer once

x=3 when the weight beyond the range of setting buzzer twice

Press the key【ZERO】to choose x, press the key 【TARE】to continue

6.12 It will display【0.00000】with the right denotative cursor light

Setting lower limit Press【ZERO】 key to select decimal place Press【TARE】key to select value for adding 1 for the same bit circular. Press FUNCTION】to continue

6.13 It will display【0.00000】with the left denotative cursor light

Setting upper limit Press 【ZERO】 key to select decimal place Press【TARE】 key to select value for adding 1 for the same bit circular. Press 【FUNCTION】to continue

6.14 It will display 【END】

Press 【FUNCTION】to preserve above settings and back to weighing state

Notes: 1. If you want to revise one of the installment listed above, when entering into the installed state, press the k 【FUNCTION】, skip the terms which don't need to revise until entering into the term which need revise, then revise the parameter, press the key 【FUNCTION】again, skip the terms which don't need to revise until get to 【END】, press the key 【ZERO】 again, then save it. Notes: Press the key 【TARE】can return to the last step.

2. The acquiesced parameter is U0.0=1 (high-speed), U0.1=1(successive), U0.2=2 (auto), U0.3=1(kg), U0.4=1(without turning auto off), U0.5(it is not available), U0.6=1(10%), U0.7=1(2%), U0.8=1(without buzzer's output), UP_DATA=0, LO_DATA=0

6.3 It will display: [u0.1 x] mode setting for five grades:

- x=1 , display for high change consecutively
- x=2 , display for fast change consecutively
- x=3 , display for cruising speed change consecutively
- x=4 , display for slow change consecutively
- x=5 , display for the change after stabilization

Press the key[ZERO]to choose x, press the key [FUNCTION]to continue.

6.4 It will display: [u0.2 x] backlight setting, divided into three grades:

- x=1 , no backlight
- x=2 , automatic backlight, switches off after 10 seconds
- x=3 , bac light on

Press the key[ZERO]to choose x, press the key [FUNCTION]to continue

6.5 It will display: [u0.3 x] unit setting for three grades:

- x=1 , kilogram
- x=2 , gram
- x=3 , 1 pound

Press the key[ZERO] to choose x, press the key [FUNCTION]to continue

6.6 It will display:[u0.4 x], power- off time setting for four grades:

- x=1 ,non auto turn off mode
- x=2 , turn off automatically after 10 minutes
- x=3 , turn off automatically after 20 minutes
- x=4 , turn off automatically after 40 minutes

Press the key[ZERO] to choose x, press the key [FUNCTION]to continue

Notes: This function not effective in the use of alternating current

6.7 It will display:[u0.5 x] (function not used)

6.8 It will display:[u0.6 x] Zero range factory setting, for four grades:

- x=1 , 10%
- x=2 , 20%
- x=3 , 50%
- x=4 , 100%

Press the ke[ZERO]to choose x, press the key [FUNCTION]to continue

6.9 It will display: [u0.7 x] Zero range setting, for three grades:

- x=1 , 0.5e

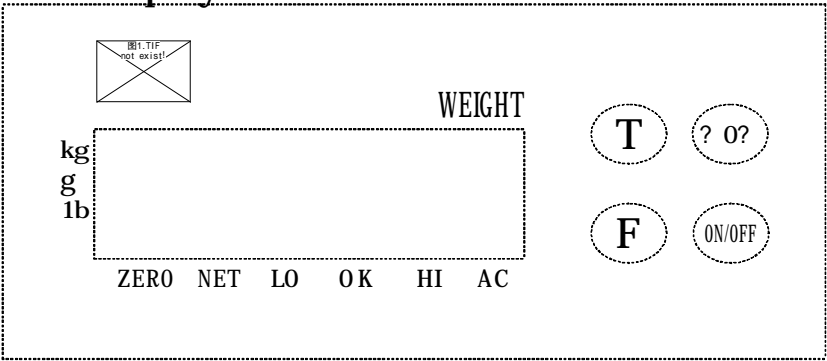
Press the key 【ON/OFF】 one second to turn on the machine with two minutes, it starts self- check automatically, successively display1- - - 9 and all the cursors, at last indicate the ZERO point's cursor and enter into the weighing state.

Attention::Nothing on the pan of the scale before switch on.

2. Turn off the machine

Under the state of weighing , press the key 【ON/OFF】 until it indicate "0 FF", then loose .

3 Display



3.1 Cursor indication

- kg light— — — indicate current display of weight's unit is kilogram
- g light— — — —indicate current display of weight's unit is gram
- lb light— — — —indicate current display of weight's unit is pound
- ZERO— — — —indicate current weight is ZERO(the weight is ZERO)
- Net weight light— — — — indicate current display of weight is net weight
- Lower limit light— — — —indicate current weight is under the scope of settings
- Qualification light— — — —indicate current weight is in the scope of settings
- Upper limit light— — — —indicate current weight is beyond the scope of settings
- Alternating current light— — — —input by the alternating current, this light indicate

Under the state of weighing DC when the lights of kg, g and lb are all bright, indicating that the cell need charge (at this time it may continue to be used for a period), if you don't charge, the machine will be closed automatically after a period in order to avoid the accumulator releasing electricity so more that it may be damaged.

3.2 Function key

【ON/OFF】key— — —under the state of turning off , FUNCTION the key to turn it on; under the state of turning on, press the key until displaying OFF, it will be turned off.

Notes: Under the state of charging, press this key and enter into the charging electricity's display state (It will accelerate the charging time), press this key again, then return to the state of weighing(at this time you can charge while working)

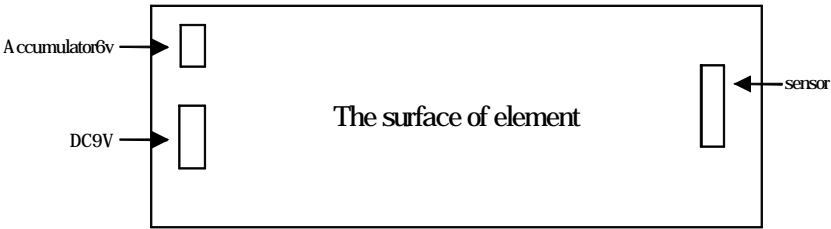
【ZERO tracking】key——when the weight is under the scope of adjusting ZERO, press this key and the weight will display ZERO.

【TARE】key——when the weight is under the state of flaying, press this key and the weight will display ZERO, the cursor of net weigh will bright and display net weigh.

【FUNCTION】key——when the users set function, they will use this key.

Notes : 1. Under the state of turning off, it turns on automatically while inputting AC, AC indicates cursor will bright , then it enters into state of charging.

2. Under the state of turning on , it indicate cursor will bright while inputting AC, then it enters into the state of charging.



4 0peration

4.1 Zero tracking

It tracks ZERO as tuning on.

While tuning it on , if it checks the weighing to surpass its capacity, it will display "Err- 3", and this means it can't find the ZERO point. At this time please remove away the objects on the pan, then it will enter into the general weighing state.

4.2 press the key to track ZERO

It will be effective under the state of gross weight, when it displays negative gross number or indicates underload symbol "OL" or non- ZERO gross weight, press the key [track ZERO] to return to the gross weight ZERO.

4.3 Weighing directly

- Put the objects on the pan, it will indicate weight directly.
- If you remove away the objects, it will return to ZERO.

4.4 TARE to weighing

- Put the container or packing box (50g) on the pan, press the key【TARE】, the net weight cursor will flash and indicate 【0.000】.

- Put the objects (400g) which need to weight into the container or the packing box, it will display net weigh 【0.400】.
 - Repeat the first step may FLAY successively.
 - Take down the objects and the packing box, it will display gross weight number 【- 0.050】.
 - Press the key【TARE】, it will restore the state of gross weight ZERO.
- Attention: Don't flay negatively, namely, when the objects weight on the pan is smaller than the existed TARE, don't permit to flay.

5 Charge the cell

Please charge the cell according to the steps as follows:

- Take down the charging plug hole's protection sets.
 - No matter if the scale is working, you need plunge one side of the adapter convey plug into the charging socket, then it may charge.
 - When finishing charging, please take on the protection sets so as to avoid the charging socket is comusive in the moist environment.
- Attention: Please charge in the dry environment.

6 Enter into the installment of function

The users may revise the installment of function to make the function of scale more adapt to users individual's need.

- 6.1 Press the 【ON/OFF】 key to switch on the scale. While it displays 1- 9, press [TARE] key until 【ini n】 displays.Unloosen 【TARE】 key with the display of 【ini n】 to go to function setting mode.

Press the 【ZERO】key to change between N 【ini n】 or Y 【ini y】

N factory settings Press F to continue
Y change settings Press F to continue

- 6.2 It will display:【u0.0 x】 speed selection, it is divided into six grades:

x=1 , high speed
x=2 , cruising speed
x=3 , slow speed
x=4, shockproof light
x=5 ,shockproof moderate
x=6 , shockproof deep

Press the key【ZERO】 to choose x, press 【FUNCTION】to continue.