

Balanza eléctrica 1000g/1 mg, Huazhi

HZ-PTYFA300S

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OPERATING MANUAL







Manual

We ware try the best to ensure the veracity of operating manual, but we didn't take responsibility for printing or description mistake.

We has right to update the machine looking and performance without noticing the consumer.

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Warning And Safety Using

SAFETY

- For avoiding damage, please read all operating instructions carefully before use.
- ▲ Don't use your machine under dangerous working circumstance.
- ▲ Cut off the power if machine will turn off for more than one week.
- ▲ Turn off the machine and cut off the power before or after connection with other equipments.
- ▲ Strong magnetic field and static electricity can have an adverse effect on weighing sensor. When disturbance disappear, the machine will work well again.

Warning

- All our parts is the most suitable parts for machine.
 All modification or using unauthorized parts for machine need to be confirm before using.
 - All modification needs to be take responsibility.
- Do not open the machine housing. Machine will not have guarantee service if security label broken.

1. Unpacking

- After unpacking the machine, please check machine has any visible damage.
- Please keep the original box and packing material for storing machine when not in use or send back for repairing.
 Before packing the balance, please cut off all power and cable.

2. Installation

When select the location for install machine, please keep these tips in mind:

- Do not put machine close to central heating or sunshine and airflow way.
 (Opening door or window)
- Do not exposure machine to extreme heat or cold. Keep scale in a clean, dry location. Dust, dirt and moisture can accumulate on the weighing sensor.
- Install machine on a flat and level surface, free from vibration and drafts, free from corrosive and strong magnetic field, as they can have an adverse effect on the weighing sensors.

3. Warm up for machine adapt temperature

When move machine from high temperature place to low temperature place (or inversely), please keep machine in final place for two hours and then turn on to warm up (warm up time refer to the specification list), as the machine will proportion the room temperature.

Summarize

4. Key Explanation

UNIT KEY (Move Key) UNIT

С A: Select Unit.

- B: Status 1: Move the flash on digit to left.
- C: Status 2: When all digit flash, press UNIT KEY and let single digit flash, enter into status 1. Press UNIT KEY again enter into status 2. It is circle. D: Status 3: When set parameter, press UNIT KEY can minus one. (At this moment)

MENU KEY MENU

- A: Press and Hold MENU KEY for 5 seconds will enter into system setting menu. B: Press and Hold MENU KEY for 1 second will save and quit system setting menu.
- C: Short press MENU KEY to alternately display system menu, but if only one parameter in this level, short press MENU KEY will return to previous menu.

CAL KEY (Enter Key) CAL Öj

- A: When normal weighing, short press CAL KEY will zeroing.
- B: Press and hold CAL KEY for 5 seconds will enter into calibration.
- C: Enter into submenu.
- D: At the bottom menu, press CAL KEY will confirm the present status and return to: (1) The previous menu
 - (2) Enter into a weighing function (such as density, dynamic)
- E: Under COD STATUS (Engineer Parameter Setting Status) Input different code will enter into correspond parameter menu.



PRINT KEY (Cycle Key)

- A: When manual printing or communication available, press PRINT KEY will send weighing data to printer or other equipment.
- B: When one digit flash , press PRINT KEY will plus one.
- C: Cycle to next parameter when display flash.



Ĵ A: Tare.

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- B: Return to the previous menu without save.
- C: Press and hold PRINT KEY for 1 second will guit from a weighing function. (Such as density, dynamic)

Note: The buzzer sound different when long press or short press the key.

Accumulate Signal Quantity Signal **Current Sianal** Menu Level / Date / Number Signal **Display Divider Line** Unit Price - Time / Number / Item Signal **+=**+ % T/A/R ct GN dr msbatmom oz ozt tis /ib dwt tiT oz ozt tis /ib dwt tiT **kCi** pcstiH Ĩ +0+ d∏∏ 888°c Menu Item And Weighing Result **Battery Signal Zeroing Signal** Minus Signal Tare Signal Peak Holding Signal Gross / Net / Tare Weight Signal High Low Limit Signal Unit Signal -Temperature Signal -Filter Signal -Sensitivity Signal -Density Signal Dynamic Signal —

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5. Display Explanation

Second Part: Installation



Assemble Machine

The machine with windshield

- Assemble each parts as following :
- Air-free loop
- Put weighing pan on the pillar which is in the middle of machine.



Use dry battery / Rechargeable battery (Optional)

- The dry battery or rechargeable battery is not on machine's packing list.
- A Only normal or universal 9V dry battery or rechargeable battery will be available for machine.
- Only available for using adapter to recharge the rechargeable battery for machine.
- Lie down the machine at side.
- Open the battery box cover.
- Connect and put 9V dry battery or rechargeable battery in box.
- O Confirm the positive and negative correctly.
- Close the battery box: Screw the battery box cover adown to the machine.
- The used battery is recycled. According to the waste disposal law, rechargeable battery to be used as a special garbage recycling and specialized handling.

Adjust Machine Level

The machine need to adjust the level ever time when change the install location. Moving the two back screw nuts slowing to adjust level.

- Counterclockwise rotate the two back screws to right posisition.
- Rotate the screws as the photo until the bubble is in the middle of level device.
- Clockwise rotate the two back screws until it touch the supporter.
- Under normal circumstances, adjust level need several times to reach suitable position.





The machine with round weighing pan

in the middle of machine.

Put weighing pan on the pillar which is

The machine with square weighing pan

- Put the weighing pan on bracket.



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Third Part: Machine Detail Specification Cable

• Single Range, s: Factory standard with Automatic Internal Calibration, a: Factory standard with Internal Calibration

Item No.	Weighing Range(g)	Readability (mg)	Repeat- abil ity(mg)	Linearity (mg)	Operate Temp(℃)	Pan Size (mm)	Housing Size (LxWxH)(mm)	Warm-up Time (m)
	120 / 30							
	220 / 40	0.1 / 0.01	0.1 / 0.01		00 . 0.5	đ 00	005-005-015	00.00
S	120 / 30	0.1/0.01	± 0.1 / ± 0.01	± 0.2 / ± 0.02	20 ± 2.5	Ø 90	295x205x315	30-60
s	220 / 50							
s	120 / 220		2	-		-		
S	220 / 320	0.1 / 0.5	± 0.1 / ± 1	± 0.2 / ± 2	20 ± 2.5	Ø 90	295x205x315	30-60
s	320 / 420		± 0.2 / ± 1					
S	220 / 320							
S	320 / 420					Ø 90		
S	420 / 520	1/2	±1/±2	± 2 / ± 4	20 ± 2.5		005,005,015	20, 60
S	520 / 620						29382038315	30-00
S 🖲	620	1	±1	± 2		Ø 108		
۲	1000		± 2	± 3				
a	110		<u>.</u>					
a	210	0.1	± 0.1	± 0.2	20 ± 2.5			
a	300					Ø 90		
	210						345x223x331	30–60
	510	1	±1	± 2	20 ± 7.5	Ø 108		
	1000					¢ 100		
۲	2200		9			3		
۲	3200		± 10	± 20				
۲	4200	10			20 ± 7.5	168 x 190	345x223x110	20–30
۲	5200		+ 20	+ 30				
۲	6200		± 20	± 50				
s	220		<u></u>					
S	520	1	±1	± 2		Ø 90		30-60
	1000							
s	520		. 10	. 10	20 ± 7.5		295x205x255	
	1000	10	±IU	±IU		Ø 108		20-30
	2000		± 10	± 20				

Item No.	Weighing Range(ct)	Readability (ct)	Repeat- ability(ct)	Linearity (ct)	Operate Temp(℃)	Pan Size (mm)	Housing Size (LxWxH)(mm)	Warm-up Time (m)
S	550							
S	800	1	± 1	± 2	20 ± 2.5	Ø 90	295x205x255	30-60
s	1100							
Item No.	Weighing Range(g)	Readability (mg)	Repeat- ability(mg)	Linearity (mg)	Operate Temp(℃)	Pan Size (mm)	Housing Size (LxWxH)(mm)	Warm-u Time (m
	120 / 220							
	220 / 320	1/5	±2/±5	±2/±5	20 ± 7.5	Ø 90	295x208x305	10 – 20
	320 / 420							
۲	420	1	± 2	± 2				
Item No.	Weighing Range(g)	Readability (g)	Repeat- ability(g)	Linearity (g)	Operate Temp(℃)	Pan Size (mm)	Housing Size (LxWxH)(mm)	Warm-u Time (m
	220 / 620							
	320 / 620							
	520 / 1200		± 0.01/ ± 0.05	± 0.02/ ± 0.05		Ø 133		
	620 / 2200	0.01 / 0.05			10 – 35		295x208x305 (295x208x88)	10–20
	1200 / 2200						,	
	2200 / 3200		+ 0.02/ + 0.05	$\pm 0.03/\pm 0.10$		156 x 156		
	3200 / 4200		1 0.02/ 1 0.03	10.00/ 10.10	1	168 v 168		
۲	4000	0.01	± 0.02	± 0.03		100 × 100		
	1200 / 2200					Ø 133		
	2200 / 4200							
	3200 / 5200	0.1 / 0.2	± 0.1 / ± 0.2	± 0.2 / ± 0.2	10 – 35	400 400	295x208x88	10–20
	5200 / 10000					168 X 168		
	6200 / 10000							
Item No.	Weighing Range(kg)	Readability (g)	Repeat- ability(g)	Linearity (g)	Operate Temp(℃)	Pan Size (mm)	Housing Size (LxWxH)(mm)	Warm-up Time (m
	2/3	0 01 / 0 02	+0.01/+0.02	+ 0 02/ + 0 04				
	3 / 4	0.017 0.02	1 0.017 1 0.02	1 0.02/ 1 0.04		180 x 255		
۲	4	0.01	± 0.02	± 0.02				
	10 / 20							
	15 / 30	0.1 / 0.5	± 0.1/ ± 0.5	± 0.2/ ± 1				
	20 / 30							
	30 / 40	0.1 / 0.2	± 0.1/ ± 0.2	± 0.2/ ± 0.4	10 – 35	205 x 295	320x310x120	10–20
	50 / 10	0.5 / 0.1	± 0.5/ ± 0.1	± 1/ ± 0.2				
	15 / 30							
	20 / 30	1/2	+ 1/ + 2	+ 2/ - 4				
	30 / 50	1/2	± 1/ ± 2	± 2/ ± 4				
	50 / 70							

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Basic Weighing Function

Preparation

 $\odot\,$ Turn on machine: Press (ON/OFF) Key

. .

Warm up time:

 For making sure the weighing result correct, different type machine need different warm up time to reach the required operating temperature.
 Please refer the specification list to know the correct warm up time.

Calibration

• The machine need calibration before using. For the calibrations step, please refer to 43-46 pages in detail.

INSTANCE

Key (Order)	(The machine was warm up) Step Explanation	L	CD Screen Display
	1. Zero Stable	i I I I I I I I I I I I I I I I I I I I	1404-19 09-30-00 0000 8 8 8 8 8
	2. Put container on weighing pan (Example: 100g)		<i>100.00</i> g
[TARE]	3. Press Tare key for tare the container v	veight	0.00 g
	4. Put sample in container (Example: 200g)		200.00 g

Unit Switching

Press (UNIT) Key, the weighing unit will cycle between the different weighing units with each press of the button. The balance will default t the last unit used when turned on the next time.

	Unit Signal	Unit	Unit Exchange Rate
	g	Gram	1
	ct	Carat	5
	oz	Ounce	0.03527396200
	ozt	Troy Ounce	0.03215074700
	dwt	Pennyweight	0.64301493100
	GN	Grains	15.43235835000
	lb	Pound	0.00220462260
	Ν	Newton	0.00980654189
	dr	Dram	0.56438222222
	tIT	Taiwan Tael	0.02666666000
	tls	Singapore Tael	0.02645544638
	tlH	Hong Kong Tael	0.02671725000
	Т	Tola	0.08573532418
	T/A/R	tola/anna/rati T.A.R	0.01.2.23
	/A/R	tola / Mna / rati T.M.R	0.01.0.23
	ms	Mesghal	0.21700000000
	bat	Baht	0.06578947437
	mom	momme	0.26670000000
_	/lb	Parts per pound	1.12876677120
	kg	Kilogram	0.0010000000

Application Setting (Menu Code: 1)

Counting (Menu Code: 1.1.)

Purpose

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Use this function can calculate the quantity with total weight divide by signal weight.

(1) Counting Instan	ce: with known the sample's quantity	but unknown the	unit weight
Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hole [MENU] Key	1. Enter Into Menu	JoodE -	1.
Short Press [CAL] Key	2. Display Counting Mode	-[0007-	1.1.
Short Press [CAL] Key	3. Enter into Counting Program	SRAPLE	1.1.1
Short Press [CAL] Key	4. Flash the sample quantity 20pcs(Example)		s 1.1.1.1
	 Press [PRINT] key to cycle the sample quant User can set the quantity manually: Press [UNIT] key to move the cursor and press 	tity and select ss [PRINT] key to incre	ase the number.
	5. Put 20 pieces to platform or container (Exa	mple: 20pcs, unit wei	ght:0.11g).
Short Press [CAL] Key	6. The display will show the result	<u>,</u>	1000 1
	 Three position to display the result as: Upper left display quantity: 20pcs, Upper rigi Main window display total weight 2.200g 	C.CUU ht display unit weight: (g).11g,
	7. Take samples away	0.000 g	
•••••	8. Put any unknown numbers of pieces on pa (Example: put 100pcs, total weight 11g)	n and will display a co	ount. 1 <u>000</u>
	 Three position to display the result as : Upper left display quantity: 100pcs, Upper rig Main window display total weight 11.000g 	ght display unit weight:	g 0.11g,
Press and Hole [TARE] Key	9. Exit the counting function.		
• Quick restart: exit t	he present counting and restart a new count	ting, Press and hold	[MENU] key
can restart the step	1, short press [CAL] to enter into step 3.		
Note: The grey color w	vords explain the signal's meaning which flas	h on the window.	

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(2) Counting Instance: with known the sample's quantity and the unit weight

Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hole [MENU] Key	1. Enter Into Menu	JoodE -	Ι.
Short Press [CAL] Key	2. Display Counting Mode	- [0007 -	1.1.
Short Press [CAL] Key	3. Enter into Counting Program	SRAPLE	1.1.1
Short Press [MENU] Key	4. Display Setting Menu	i npur	1.1.2.
Short Press [CAL] Key	5. Flash Sample Quantity (Example: 20pcs)	0000020 pc	s 1.1.2.1
	 Press [PRINT] key to cycle the sample quan User can set sample quantity manually: Press [UNIT] key to move the cursor and press 	tity setting ss [PRINT] key to incre	ase the number.
Short Press [CAL] Key	6. Flash Sample Unit Weight	0002000 g	1.1.2.2
	 User can set sample unit weight: Press [UNIT] key to move the cursor and press 	ss [PRINT] Key to incre	ase the number.
Short Press [CAL] Key	7. The display will show the result		<u>0000</u> 7
	 Three position to display the result as: Upper left display quantity, Upper right display Main window display tot al weight 0.000g 	LILILI ay unit weight: 0.1g,	g (
*	8. Put any unknown numbers of pieces on pa (Example: 300pcs)	n and will display a c	ount. <u>] [] [] [] []</u>
	 Three position to display the result as: Upper left display quantity 300pcs, Upper rig Main window display tot al weight 30.000g 	t display unit weight:	g 0.1g,
Press and Hole [TARE] Key	9. Exit the counting function.		
• Quick restart: exit the step	he present counting and restart a new coun 1. short press [CA1] to enter into step 3	ting, Press and hold	[MENU] key
Note: The grev color w	ords explain the signal's meaning which flas	h on the window	

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Computing Price Function (Menu Code: 1.2.)

Purpose

Count total amount according to the known price and quantity.

Instance

Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hole [MENU] Key	1. Enter Into Menu	nodE-	1.
Short Press [CAL] Key	2. Display Counting Mode	- [[]]] - []] -	1.1.
Short Press [MENU] Key	3. Display Computing Price Function Mode Flash the signal of total and unit price on wind	-Pr ,[E- dow upper side	1.2.
Short Press [CAL] Key	4. Setting sample's pricing weight (Example:	1g)	1.2.1
	 Setting Way: Press [UNIT] key to move digit, press [PRINT] key to increase the number a 	DOD DOD g and press [CAL] key to	o confirm.
Short Press [CAL] Key	5. Setting sample's unit price (Example: 3us of	dollar)	1.2.2
	 Setting Way: Press [UNIT] key to move digit, press [PRINT] key to increase the number a 	DODD 300 and press [CAL] key to	o confirm.
hort Press [CAL] Key	6. Confirm the sample's pricing weight and un	nit price <u>0.00 ** 3.0</u>	0000
	 Three position to display as: Upper left display total amount \$0.00, Upper Main window display total weight 0.000g 	r right display unit pric	g pe: \$3.00,
*	7. Put products on pan and machine will disp (Example: 20g)	lay result. <u>6 0.0 0 [** 3.0</u>	<u>0000</u>
	 Three position to display as: Upper left display total amount \$60.00, Upper Main window display total weight 20.000g 	er right display unit pr	g ice: \$3.00,
Press and Hole TARE] Key	8. Exit the computing price function.		
Quick restart: exit the second sec	he present computing price and restart the step 1, short press [CAL] to enter into step 3	new one, Press and 3.	l hold [MENU]
Note: The grey color w	ords explain the signal's meaning which flas	sh on the window.	

High Low Limit Alarm Function (Menu Code: 1.3.)

Purpose

Weighing the target sample's weight or quantity in or out the setting limit and alarm.

Instance

Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hole [MENU] Kev	1. Enter Into Menu System	jodE-	1.
Short Press [CAL] Key	2. Display Counting Mode	- [[]]] -	1.1.
Short Press [MENU] Key Two Times	3. Display High Low Limit Mode Flash the signal of High Low Limit at the left	-RLRrī-	1.3.
Short Press [CAL] Key	4. Display ALR and flash IN or OUT	RLr-OUC	1.3.1
	 Press [PRINT] key to set machine alarm in (IN) Setting IN, the machine will beep if the sam Setting OUT, the machine will beep if the sam 	or out (OUT) the limit ,pre ple's weight is within th mple's weight is withou	ess[CAL] to confirm ne setting limit. It the setting limit.
Short Press [CAL] Key	5. Setting the High Limit (Example : 200g)		<u>. 6 X</u>
	O Three position to display as: Upper left display menu code:1.3.2, Upper Main window display the High Limit value Input way: Press [UNIT] key to move the fla the number and press [CAL] key	r right display HIGH, ash digit, press [PRIN v to confirm.	g T] key to increase
Short Press [CAL] Key	6. Setting the Low Limit (Example: 180g)		
	Three position to display as: Upper left display menu code:1.3.3, Upper Main window display the Low Limit value Input way: Press [UNIT] key to move the fla the number and press [CAL] key	r right display LOW, ash digit ,press [PRIN] / to confirm.	■ g] key to increase
	7. Put samples on pan and machine will dis (Example: 186g)	play result. 200.000 18	<u>10000</u>
	 Three position to display as : Upper left display high limit 200g, upper righ display the samples weight and beep, to mention 	t display Low limit 180g that sample's weight is	g , the main window in the setting limit.

Note: The grey color words explain the signal's meaning which flash on the window.

Gross / Net / Tare Weight Weighing Function (Menu Code: 1.4.)

Purpose

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To weigh and display the sample's gross weight, net weight and tare weight intuitively.

(1) G/N/T Weight Weighing Instance

Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hole [MENU] Key	1. Enter Into Menu System	jodg-	1.
Short Press [CAL] Key	2. Display Counting Mode	- [0006 -	1.1.
Short Press [MENU] Key Three Times	3. Display G/N/T weight weighing mode Flash the G/N/T signal on the left side of wind	[]][dow	1.4.
Short Press [CAL] Key	4. Enter into G/N/T mode	SRAPLE	1.4.1
Short Press [CAL] Key	5. The display flash to remind to put the tare weight of sample	SRAPLE	1.4.1.1
	6. Put tare weight of sample on pan	SRAPLE	
Short Press [CAL] Key	7. Confirm the tare weight (Example 200g)	200.000 20	<u>0.000</u>
	 Three position to display as: Upper left display gross weight 200g, Upper Main window display 0.000g 	right display tare wei	g ght 200g,
÷	8. Put samples on pan and machine will disp	lay result	
	(Example: 25.3g)	<u>225.300 20</u>	<u>0.000</u>
	 Three position to display as: Upper left display gross weight 225.3g, Upp Main window display net weight: 25.300g 	C'D.JUU er right display tare w	g eight 200g,
Press and Hole [TARE] Key	9. Exit G/N/T weight weighing function		
• Quick restart: exit t	he present G/N/T weight weighing and resta	art the new one, Pro	ess and hold

[MENU] key can restart the step 1, short press [CAL] to enter into step 3.

Note: The grey color words explain the signal's meaning which flash on the window.

(2) To Input the Tare Weight Instance

Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hole [MENU] Key	1. Enter Into Menu System	ñodE-	1.
Short Press [CAL] Key	2. Display Counting Mode	- [0007 -	1.1.
Short Press [MENU] Key Three Times	3. Display G/N/T weight weighing mode Flash the G/N/T signal on the left side of wir	[] [] ndow	1.4.
Short Press [CAL] Key	4. Enter into G/N/T mode	SRAPLE	1.4.1
Short Press [MENU] Key	5. Enter into G/N/T mode of input tare weight manually	i npur	1.4.2.
Short Press [CAL] Key	 Input the tare weight manually (Example: 200g) 	0200000 g	1.4.2.1
	 Input way: Press [UNIT] key to move the fla press [PRINT] key to increase the number 	sh digit , and press [CAL] key to	confirm
Short Press [CAL] Key	7. Confirm the entered tare weight		<u>0.000</u>
	 Three position to display as: Upper left display gross weight 0.000g, Upp Main window display net weight - 200.000g 	CUUUUU per right display tare we	g eight 200g,
↓	8. If put the sample of tare weight	200.000 20	<u>0.000</u>
	 (Example:200g) Three position to display as: Upper left display gross weight 200g, Uppe Main window display 0.000g 	er right display tare weig	g nht 200g,
	 9. Put samples on pan and machine will display result. (Example: 309.3g) O Three position to display as: Upper left display gross weight 509.3g, Upp Main window display net weight: 309.300g 	509.300 20 309.300 per right display tare we	0.000 g eight 200g,
Press and Hole	10 Evit C/N/T weight weighing function		

Note: The grey color words explain the signal's meaning which flash on the window.

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Accumulate Function (Menu Code: 1.5.)

Purpose

Weighing and accumulating the several sample's total weight and tracing the detail data.

Instance

Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hole [MENU] Key	1. Enter Into Menu System	JoodE -	Ι.
Short Press [CAL] Key	2. Display Counting Mode	- 2007 -	1.1.
Short Press [MENU] Key Four Times	3. Display Accumulate Menu The signal flash on the upper left of window	Rdd	1.5.
Short Press [CAL] Key	4. Enter Into Accumulate Mode		0
	 Three position to display as : Upper left display present weight 0.000g, Up Main window display total weight 0.000g 	Difference of the second secon	j g time 0,
↓	5. Put samples on pan and press [CAL] key to confirm weight].
	Upper left display present weight 10g, Uppe Main window display total weight 10.000g	er right display total tim	e 1,
	6. Put sample several times and press [CAL] key each time	<u>30000</u> na	<u>3</u>] a
	 Three position to display as (example: samp Upper left display present weight 30g, Uppe Main window display total weight 60.000g 	le's weight is 10g, 20g r right display total tim	n, 30g): ne 3,
	 Under the accumulate mode, the accumulate can accumulate 9999 times. 	e weight can be 99999	999g,
Press [MENU] Key	7. Enter into tracing data function, the machine	30.000 No.	3

Press [MENU] Key and hold it, press [CAL] Key, release two key at the same time

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- 7. Enter into tracing data function, the machine show the last accumulate time's data
- Three position to display as:

Upper left display present weight 30g, Upper right display total time 3, Main window display total weight 60.000g

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Short Press [UNIT] Key	8. Tracing the second last time's weighing data O Three position to display as:	<u>30000</u> , <u>2000</u> ,
	Upper left display present weight 20g, Upper Main window display total weight 30.000g	right display total time 2,
Short Press [UNIT] Key	9. Tracing the first time's accumulate data for instance weighing	
	 Three position to display as: Upper left display present weight 10g, Upper Main window display total weight 10.000g. 	right display total time 1,
 Press (UNIT) Key of present weig 	and (PRINT) Key can view the differe hing.	ent accumulate time's result
 Only can save and transformed to the save and transformed to the save and transformed to the save and the sav	and trace 100 times accumulate we ace if exit or restart the accumulate	eighing data. Machine can weighing.
Press and Hole [CAL] Key	10. Quick restart way: exit the accumulate weighing and restart the new one	<u>0.000 n. 0</u>
	 Three position to display as: Upper left display present weight 0g, Upper r Main window display total weight 0.000g. 	ight display total time 0,
Press and Hole [TARE] Key	11. Exit the accumulate weighing	

• Quick restart: exit the present accumulate weighing and restart the new one, Press and hold [MENU] key can restart the step 1, short press [CAL] to enter into step 3.

Dynamic Measurement (Menu Code: 1.6.)

Purpose

Operator can use this program to measure dynamic weight. The dynamic weighing way is summarize the weighing result from setting time and average it.

Instance

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Set 10 seconds for the dynamic weight material or variable weight material.

Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hole [MENU] Key	1. Enter Into Menu System	ñodE-	Ι.
Short Press [CAL] Key	2. Display Counting Mode	- [0007 -	1.1.
Short Press [MENU] Key Five Times	3. Enter Into Dynamic Measurement The signal flash on the upper left of window	לאטציין (Ι.δ.
Short Press [CAL] Key	 4. Select Weighing Time Press [PRINT] key can cycle and select diffe Operator can set the weighing time by: Press [UNIT] key to move cursor, press [PR 	Fd (0 erent weighing time. (S	I . Б . I Second) net Number.
Short Press [CAL] Key	 5. Confirm the weighing time Three position to display as: Upper left display present weight, Upper rig Main window display: Start 	0.000 SFR-1 ht display the setting	0.0 g time,
	6. When display flash: START, put weighing sample on pan	SFRri	
Short Press [CAL] Key	7. Start to weigh for 10 seconds	98423	g
Short Press [TARE] Key	8. Average the weighing result automatically after 10 seconds.	<u>188381</u> 2989	1 <u>00</u> 7
	 Three position to display as (Example: 98.4: Upper left display the dynamic value, Upper Main window displays the average value. 	23g): right display the weig	🚽 9 hing time,
	9. Clear the weighing data	0.000	g
	\bigcirc (If need to measure different material, pleas	se repeat step 7-9.)	
Press and Hole [TARE] Key	10. Exit the dynamic measurement		

• Quick Restart: exit the present dynamic weighing and restart the new one, press and hold [MENU] key can restart the step 1, short press [CAL] to enter into step 3.

Note: The grey color words explain the signal's meaning which flash on the window.

Purpose

Sensing and saving the max weight during weighing, hold and display it.

(1) CNT Mode Instance of pressing key to record

Key (Order)	Step Explanation	LCD Screen Menu Level Display and Code
Press and Hole [MENU] Key	1. Enter Into Menu System	nodE- 1.
Short Press [CAL] Key	2. Display Counting Menu	-COUNF- 1.1.
Short Press [MENU] Key Six Times	3. Display Peak Holding Menu The signal flash on the upper left of window	PERU- 1.7.
Short Press [CAL] Key	4. Display CNT Menu	REr [NF 1.7.1
Short Press [CAL] Key	5. Enter into CNT mode of pressing key	
	 Three position to display as: Upper left display the present weight, Upper Main window displays the max weighing weighting weighting weighting weighing weighting weighting weighting weighting weighting weighting	UUUUU s er right display the number of weighing, eight.
	6. Put sample on pan and press [CAL] key to confirm it	<u>10000 n. 1</u>
	 Three position to display as (Example: 10g, Upper left display the present weight 10g, Up Main window displays the max weighing w): per right display the number of weighing:1, eight: 10g
	7. Put samples on pan several times and press [CAL] key each time.	<u>2 no. 100021</u> 100000 g
	 Three position to display as (Example: put Upper left display the present weight 15g, Upp Main window displays the max weighing w 	three times with 10g, 18g and 15g): per right display the number of weighing:2, eight: 18g

 $\odot\,$ The machine can operate 9999 times under Peak Holding mode

Note: The grey color words explain the signal's meaning which flash on the window.

Operate Application

Press [MENU] Key	8. Enter into tracing data function, the machine
press [CAL] Key, release two key	show the last peak holding time's data
at the same time	 Three position to display as: DUUU g
	Upper left display the weighing No.3, Upper right display the time of that weighing,
	Main window displays the weight of that weighing. Tog
Short Press [UNIT] Key	9. Tracing the second last time's weighing data 10. 21. 19-3 8-5 5
	Three position to display as:
	Upper left display the weighing No.2, Upper right display the time of that weighing,
	Main window displays the weight of that weighing 18g.
Short Press [UNIT] Key	10. Tracing the first time's peak holding data 10. 11 0 9-3 8-5 1
	Three position to display as: Upper left display the weighing No.1 Upper right display the time of that weighing
	Main window displays the weight of that weighing 10g.
• Press (UNIT) Key	y and (PRINT) Key can view the different peak holding time's
○ Only can save o	r weigning. and trace 100 times peak holdina data. Machine can not save
and trace if exi	t or restart the peak holding.
Press and Hole	11. Quick restart way: exit the present peak
[CAL] Key	holding and restart the new one [1000] flo. 0
	Three position to display as:
	Upper left display the present weight, Upper right display the number of weighing,
	Main window displays the max weighing weight.
Press and Hole [TARE] Key	12. Exit the peak holding function
• Quick Restart: exit t	he present peak holding and restart the new one, press and hold [MENU] key
can restart the step	1, short press [CAL] to enter into step 3.

Peak Holding

(2) Other Peak Holding record way Instance

Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hole	1. Enter Into Menu System	jodE-	1.
Short Press [CAL] Key	2. Display Counting Menu	- [0006-	1.1.
Short Press [MENU] Key Six Times	3. Display Peak Holding Menu The signal flash on the upper left of window	PERY-	1.7.
Short Press [CAL] Key	4. Display CNT peak holding	REr [NI	1.7.1
Short Press [PRINT] Key Short Press [PRINT] Key Short Press [PRINT] Key Short Press [PRINT] Key	 4. Display TKEY peak holding 4. Display TST1 peak holding 4. Display TST2 peak holding 4. Display TCON peak holding 	REFFESE REFFSEI REFFSEZ REFFEON	I.7.2 I.7.3 I.7.4 I.7.5
Short Press [CAL] Key	 5. Enter into corresponding peak holding mode Three position to display as: Upper left display the present weight, Upper Main window displays the max weighing weight 	right display the weig	- <u>3 9-5 0</u> 9 hing time,
	 6. Put samples on pan several times and press [CAL] key. O Three position to display as (Example: 10g): Upper left display the present weight 10g, U Main window displays the max weighing weighting w	t 0.000 09	-3 9-5 2 g time of weighing,
	 7. Put samples on pan several times and press [CAL] each time to confirm Three position to display as (Example : put the Upper left display the present weight 15g, Upper left displays the max weighing weight with the upper left displays the max weighing weight with the upper left displays the max weight upper left displays the max weight upper left displays the max weight upper left displays the upper left displays the max weight upper left displays the upper left	t 5.000 09 toper right display the ight: 18g Peak Holding mode.	- <u>3 9-5 9</u> g 18g and 15g): time of weighing,
 TKEY mode is by p time, upper right TST1 mode is recorresult very stable TST2 mode is recorresult a little stab 	pressing (CAL) Key to record the peak window display the peak holding tim ord the peak holding value and time a , upper right window display the pea ord the peak holding value and time a le, upper right window display the pe	holding value a ne. utomatically wh k holding time. utomatically wh eak holding time	nd weighing en weighing en weighing

TST2 mode is record the peak holding value and time continuously, upper right window display the peak holding time.

• Tracing or Exit the peak holding function is the same in page 21~22, step 8~12.

Note: The grey background part is the step of 1-4 setting information after CNT mode, select any one mode, the mode will work at once. The grey color words explain the signal's meaning which

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Percentage Measurement (Menu Code: 1.8.)

Purpose

Operator place the reference sample that corresponds to 100% onto weighing pan, the other samples will display the weighing result as %. Operator can input the sample value or weighing the sample value and input it.

(1) Instance of Percentage Measurement with Sample

Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hole [MENU] Key	1. Enter Into Menu System	nodE -	1.
Short Press [CAL] Key	2. Display Counting Menu	-2007-	1.1.
Short Press [MENU] Key Seven Times	3. Enter Into Percentage Measurement Display signal "%" on window	PEr[EN[%	1.8.
Short Press [CAL] Key	4. Select percentage weighing mode with (SAMPLE	SRAPLE %	1.8.1.
Short Press [CAL] Key	5. Mention to start	SRAPLE	1.8.1.1
	6. Put sample	SRAPLE	1.8.1.1
	7 Confirm the completion 100%	200000 20	пппп

Short Press [CAL] Key 7. Confirm the sample is 100%

<u>200.000 | 200.000</u>

- Three position to display as: (Example:200g)
 Upper left display the present weight, Upper right display the sample's weight,
- 8. Take san
 - 8. Take sample away and put any other sample on pan

Main window displays 100%.

- <u>158000| 200000</u>
- Three position to display as: (Example:158g)
 Upper left display 158g, Upper right display the sample's weight 200g, Main window displays 79%.
- Remove the reference sample and add the unknown sample to determine its relative weight and percentage.
- Press and Hole [TARE] Key

9. Exit the percentage measurement

• Quick Restart: exit the present percentage measurement and restart the new one, press and hold [MENU] key can restart the step 1, short press [CAL] to enter into step 3.

Note: The grey color words explain the signal's meaning which flash on the window.

(2) Instance of Percentage Measurement with Input Weight

Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hole [MENU] Key	1. Enter Into Menu System	- Joon	1.
Short Press [CAL] Key	2. Display Counting Menu	- 2000 -	1.1.
Short Press [MENU] Key Seven Times	3. Enter Into Percentage Measurement Display signal "%" on window	PEr[EN[%	1.8.
Short Press [CAL] Key	4. Display Percentage Measurement Menu	SRAPLE %	1.8.1
Short Press [MENU] Key	5. Select percentage weighing mode with (Input)	ነ በዖ սէ %	1.8.2.
Short Press [CAL] Key	 Input the percentage sample's weight manually (Example: 200g) 	200000 g	1.8.2.1
	 Setting Way: Press [UNIT] key to move digit, press [PRINT] to increase the number and pr 	ess [CAL] key to con	firm.
Short Press [CAL] Key	7. Confirm the sample is 100%		<u>0.000</u> n *
	 Three position to display as: (Example: 200g) Upper left display the present weight, Upper I Main window displays 0%. 	ight display the settin	g weight 200g,
	8. Take sample away and put any other sample on pan	158.000 201 100001	<u>0.000</u>) *
	 Three position to display as: (Example: 158g) Upper left display 158g, Upper right display th Main window displays 79%. 	e setting weight 200	g ,
	 Remove the reference sample and add the university weight and percentage. 	known sample to dete	rmine its relative
Press and Hole [TARE] Key	9. Exit the percentage measurement		
Ouick Postart: ovit t	he present percentage measurement and res	tart the new one r	aross and hold

• Quick Restart: exit the present percentage measurement and restart the new one, press and hold [MENU] key can restart the step 1, short press [CAL] to enter into step 3.

Note: The grey color words explain the signal's meaning which flash on the window.

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Operate Application

Density Measurement Function (Menu Code: 1.9.)

Purpose

Use this function can calculate the solid or liquid material's density. (Need to fit with our company's hydrostatic sets)

Solid Material Density Measurement (Menu code: 1.9.1, operating step page No.25)

Step One: Use Density kit to measure the sample weight in air.

Step Two: Measure the sample weight in water. (The liquid's density should be known)

Liquid Material Density Measurement (Menu code: 1.9.2, operating step page No.26)

The standard sample's cubic meter should be known if using density kit to measure the liquid's density.

U need to input the sample's volume into machine. The machine can save the lately sample data and ready for ser using any time.

Step One: Measure the sample weight in air. Step Two: Measure the sample weight in water.

Saving standard liquid's density previously (Menu code: 1.9.3.1.01~10)

Machine can save 10 kinds of standard liquid's density value.

Saving way: Press (UNIT) Key to move cursor, press (PRINT) to cycle and select value. Press (MENU) Key to save another value.

Density Kit (optional) assemble step



(1) Solid Density Measurement Instance

Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hole	1. Enter Into main menu	joq£-	1.
Short Press [CAL] Key	2. Display Counting Menu	-[007-	1.1.
Short Press [MENU] Key Eight Times	3. Display Density Menu The signal flash on the upper left of window	YEUZI FA	1.9.
Short Press [CAL] Key	4. Enter into Solid Density Measurement program	-Soll d-	1.9.1.
Short Press [CAL] Key	5. Start the solid density program and select a density value of standard liquid.	0099988	1.9.1.1
	 User can set liquid density: Press [UNIT] key to move cursor, press [PRI Select the 10 previous set liquid densities: Short press [UNIT] 7 times, all digits will flass select 10 liquid densities which were set previous 	NT] to cycle and selec h. Press [PRINT] key c riously.	t value. can cycle and
Short Press [CAL] Key	 6. Machine will clue user to measure sample in air Three position to display as: Upper left display Air, Upper right display the 	RI r 09- DODE time, Main window dis	3 9-0 8 9 9 plays the weight
Short Press [CAL] Key	7. Weight sample in air. (Example: The weight result is 118.45g in a	ir) 1 18 4	{5 g
Short Press [CAL] Key	8. Machine will record the air weighing data		<u>3 9-5 8</u>
	 Three position to display as: Upper left display Liquid, Upper right display the 	e time, Main window dis	9 splays the weight
	9. Take the sample away, Machine will clue user to measure material in water)() g
	10. Put sample in water and weigh it. (Example: the weight result is 20.70g in w	ater)	10 g
Short Press [CAL] Key	 Machine will record the water weighing da calculate the sample's density and display density value at the same time 	ta; d ^{g.} cc the I CII	58
	\bigcirc (If need to measure density again, please re	peat step 6-11)	
Press and Hole [TARE] Key	12. Exit the Solid Density Measurement		
• Quick Restart: exit the present density measurement and restart the new one, press and hold			

 Quick Restart: exit the present density measurement and restart the new one, press and hold [MENU] key can restart the step 1, short press [CAL] to enter into step 3.

Note: The grey color words explain the signal's meaning which flash on the window.

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Operate Application

(2) Liquid Density Measurement Instance

(_,,,			
Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hole	1. Enter Into main menu	JoodE -	1.
Short Press [CAL] Key	2. Display Counting Menu	- [[]]] - []	1.1.
Short Press [MENU] Key Eight Times	3. Display Density Menu The signal flash on the upper left of window	ዋይህሪነ ዮሕ	1.9.
Short Press [CAL] Key	4. Display Solid Density Menu	-Soli d-	1.9.1.
Short Press [MENU] Key	5. Enter into Liquid Density Measurement program	- - [9]] d	1.9.2.
Short Press [CAL] Key	6. Input the standard sample's volume	1000000	1.9.2.1
	○ Input way: Press [UNIT] key to move cursor, and select. Press [CAL] key to confirm it.	press [UNIT] key to c	vcle the number
Short Press [CAL] Key	7. Machine will clue user to measure material in ai	r <u>- 817) 89</u>	<u>-3 9-0 8</u>
	 Three position to display as: Upper left display Air, Upper right display the 	time, Main window di	J ₉ splays the weight
	8. Measure Liquid container in air. (Example: 118.45g)	[#] 18	45 g
Short Press [CAL] Key	 9. Machine will record the air weighing data and clue user on that measure containerl weight in water. O Three position to display as: Upper left display Liquid, Upper right display th 	e time, Main window d	3 9-5 8 9 9 isplays the weight
†	10. Take the sample away and then machine will clue user to measure sample in water	L I 9 U I J ()	00 g
	11. Measure Liquid container in water (Example : 20.70g)	<u>20</u>	10 g
Short Press [CAL] Key	 Machine will record the water weighing da calculate the liquid's density and display the density value at the same time. 	ita; d 9 he 9.773	00
	○ (If need to measure different material's dens	sity, please repeat ste	o 7-12)
Press and Hole [TARE] Key	13. Exit the Liquid Density Measurement		

• Quick Restart: exit the present density measurement and restart the new one, press and hold [MENU] key can restart the step 1, short press [CAL] to enter into step 3.

Note: The grey color words explain the signal's meaning which flash on the window.

Basic Function Setting (Menu Code: 2)

Purpose

Operator can set machine basic function by selecting parameter in Menu.

Automatic Double Weighing Rang, Dual Precision Function Setting

(Menu Code: 2.1.)

This series machine has automatic double weighing range and dual precision. (some type didn't has this function). The machine default set the weighing range and precision. Please refer to Page 8~9 to know more detail specification of second weighing range and precision.

For the temporary needs of user, the machine will switch to second weighing range and precision automatically when the weighing sample's weight over the max capacity of machine.

Instance

Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hole [MENU] Key	1. Display Menu	JoodE -	1.
Short Press [MENU] Key	2. Enter Into Setting Menu	- <i>-</i> ЪЯ5Е-	2.
Short Press [CAL] Key	3. Display weighing range and precision menu	-5[8[E-	2.1.
Short Press [CAL] Key	4. Display the code of first weighing range and precision	L 3503	2.1.1
	 Example: the display flash: 3203, among the 320g, last number 3 means machine's precis (0.001g) 	em, 320 means first we ion is three zero after	eighing range is the decimal point
	 The machine will switch to second weighing ratio the weighing sample's weight over the max cap range and precision also mention on the lab 	ange and precision au pacity of machine. The el which at side of ma	tomatically when second weighing chine.
Short Press [TARE] Key Three Times	5. Exit the checking menu and return to stand	lby	

Note: The grey color words explain the signal's meaning which flash on the window.

Turn On/Off the Units (Menu Code: 2.2)

Operator can turn on or off the unit to display or hide the relative weighing units.

Instance

Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hold [MENU] Key	1. Display Menu	- Joon Joon Joon Joon Joon Joon Joon Joon	1.
Short Press [MENU] Key	2. Enter Into Setting Menu	6826-	2.
Short Press [CAL] Key	3. Display weighing range and precision menu	-SERLE-	2.1.
Short Press [MENU] Key	4. Enter Into Unit Turn ON/OFF Mode	UNI F -	2.2.
Short Press [CAL] Key	5. Display Unit ct and flash "ON" (Turn on)		- <u>2 0-0 8</u>
	 Three position to display as: Upper left display the menu code, Upper rigi Main window displays the unit status. 	tt display the time,	i
Short Press [PRINT] Key	6. Display Unit ct and flash "OFF" (Turn off)	ct-OFF	2.2.1.01
Short Press [MENU] Key	7. Cycle to another unit oz and flash "ON"	o2- 0N	2.2.1.02
Short Press [PRINT] Key	8. Display Unit oz and flash "OFF"	02-0FF	2.2.1.02
	 Repeat Step 7-8 can change unit on/off one ct, oz, ozt, dwt, GN, lb, N, dr, tlT, tls, tlH, T, 1 	by one as follow : T/A/R, /A/R, ms, bat, n	nom, /lb, kg
	\bigcirc The default setting is all units was turn on.		
Short Press [CAL] Key	9. Confirm that turn on or off the units		2.2.

Short Press [TARE] 10. Setting Finished and return to Standby Key Two Times

Date Setting (Menu Code: 2.3.)

Operator can setup machine date by setting menu.

Instance (Example: 2015Year-05Month-10Day)

Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hold [MENU] Key	1. Display Menu	- junger -	1.
Short Press [MENU] Key	2. Enter Into Setting Menu	6826-	2.
Short Press [CAL] Key	3. Display weighing range and precision menu	-SERLE-	2.1.
Short Press [MENU] Key Two Times	4. Enter Into Date Setting	982E-	2.3
Short Press [CAL] Key	5. Display Year	YERr - 1 5	2.3.1
	 Operator can set year by : Press [UNIT] key to move cursor and press 	[PRINT] to cycle and	select number.
Short Press [MENU] Key	6. Display Month	70005	2.3.2
	 Operator can set month by : Press [UNIT] key to move cursor and press 	[PRINT] to cycle and	select number.
Short Press [MENU] Key	7. Display Day	987 10	2.3.3
	 Operator can set day by : Press [UNIT] key to move cursor and press 	[PRINT] to cycle and	select number.
Short Press [CAL] Key	8. Confirm the date and return to previous menu	9825-	2.3.
Short Press [TARE] Key Two Times	9. Finish Setting and return to Standby		

Note: The grey color words explain the signal's meaning which flash on the window.

Note: The grey color words explain the signal's meaning which flash on the window.

Time Setting (Menu Code: 2.4.)

Operator can setup machine date by setting menu.

Instance (Example: 20:15:50)

Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hold [MENU] Key	1. Display Menu	jodf-	1.
Short Press [MENU] Key	2. Enter Into Setting Menu	6858 -	2.
Short Press [CAL] Key	3. Display weighing range and precision menu	-SERLE-	2.1.
Short Press [MENU] Key Three Times	4. Enter Into Time Setting Mode	[] .E-	2.4
Short Press [CAL] Key	5. Display Hour	Xour - 20	2.4.1
	 Operator can set hour by : Press [UNIT] key to move cursor and press [PRINT] to cycle and s	elect number.
Short Press [MENU] Key	6. Display Minutes	āl N 15	2.4.2
	 Operator can set minutes by : Press [UNIT] key to move cursor and press [PRINT] to cycle and s	elect number.
Short Press [MENU] Key	7. Display Second	58850	2.4.3
	 Operator can set second by : Press [UNIT] key to move cursor and press [PRINT] to cycle and s	elect number.
Short Press [MENU] Key	8. Display Time Mode	824	2.4.4
	O Operator can press [PRINT] key to select 24	hours or 12 hours.	
Short Press [CAL] Key	9. Confirm the Time and return	[] .E-	2.4.
Short Press [TARE] Key Two Times	10. Setting finished and return to standby		

• The menu code: 2.4.5 can set the time goes fast or slow. Press [UNIT] key to move cursor and press [PRINT] to cycle and select number.

Note: The grey color words explain the signal's meaning which flash on the window.

Correct Temperature (Menu Code: 2.5.)

Operator can set the display temperature by setting menu.

Instance

Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hold [MENU] Key	1. Display Menu	JoodE -	1.
Short Press [MENU] Key	2. Enter Into Setting Menu	682E -	2.
Short Press [CAL] Key	3. Display weighing range and precision menu	-SERLE-	2.1.
Short Press [MENU] Key Four Times	 4. Enter Into Correct Temperature Mode Operator can set temperature by : Press [UNIT] key to move cursor and press [[PRINT] to cycle and s	2.5.
	\bigcirc It only can adjust the machine's temperature a	and the adjustment ran	ge is within \pm 1.9
Short Press [CAL] Key	5. Confirm the temperature and return	6825-	2.

Short Press [TARE] Key 6. Finish the setting and return to standby

Note: The grey color words explain the signal's meaning which flash on the window.

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Backlight On/Off Setting (Menu Code: 2.6)

Operator can turn on/off/auto backlight by setting menu.

Instance

Key (Order)	Step Explanation	Display	and Code
Press and Hole	1. Display Menu	nodE-	1.
Short Press [MENU] Key	2. Enter Into Setting Menu	- <i>-</i> ЬЯ5Е <i>-</i>	2.
Short Press [CAL] Key	3. Display weighing range and precision menu	-SERLE-	2.1.
Short Press [MENU] Key Five Times	4. Enter into backlight setting and flash "ON"	97 DU	2.6
Short Press [PRINT] Key	5. Backlight turn on/off automatically and flash "AUT"	67 YnF	2.6
Short Press [CAL] Key	6. Confirm the backlight setting and return	- <i>-</i> ЪЯЅЕ <i>-</i>	2.
Short Press [TABE] Key	7 Einish the setting and return to standby		

Buzzer On/Off Setting (Menu Code: 2.7)

Operator can turn on/off the buzzer sound by setting menu.

Instance

Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hole	1. Display Menu	nodE -	1.
Short Press [MENU] Key	2. Enter Into Setting Menu	- <i>-</i> 6858 <i>-</i>	2.
Short Press [CAL] Key	3. Display weighing range and precision menu	-SERLE-	2.1.
Short Press [MENU]	4. Enter into buzzer setting and flash "ON"	79334	2.7
Short Press [PRINT] Key	5. Turn off buzzer and flash "OFF"	PULSE PULE	2.7
Short Press [CAL] Key	6. Confirm the buzzer setting and return	6825-	2.
Short Press [TARE] Key	7. Finish the setting and return to standby		

Language Setting (Menu Code: 2.8)

Operator can set some function's interface with Chinese or English language by setting this menu.

Instance

Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hole [MENU] Key	1. Display Menu	nodE -	1.
Short Press [MENU] Key	2. Enter Into Setting Menu	- <i>-</i> ЪЯЅЕ-	2.
Short Press [CAL] Key	3. Display weighing range and precision menu	-SERLE-	2.1.
Short Press [MENU] Key Seven Times	4. Enter into Language setting and flash "Cn" (Chinese)	LAUQ-Eu	2.8
Short Press [PRINT] Key	5. Flash "En" and language switch to English	LRNG-En	2.8
Short Press [CAL] Key	6. Confirm the setting and return	- <i>-</i> ЬЯЅЕ <i>-</i>	2.
Short Press [TARE] Key	7. Finish the setting and return to standby		

Note: The grey color words explain the signal's meaning which flash on the window.

Note: The grey color words explain the signal's meaning which flash on the window.

Eighth Part: Communication Setting

Communication Setting

	Instance (Menu (Code: 3.1~3.6)		
Communication Function Setting (Menu Code: 3)	Key (Order)	Step Explanation	LCD Screen	Menu Level
Purpose	2		Dispidy	
Operator can select the communication way by setting the menu.	Press and Hold [MENU] Key	1. Display Menu	- Joon Joon Joon Joon	1.
Baud Rate Setting (Menu Code: 3.1)	Short Press [MENU] Key Two Times	2. Enter into Communication Setting	[000-	Э.
Select different baud rate for different output required.	Short Press [CAL] Key	3. Enter into Baud rate Setting	bRud-95	3.1
Machine ID No. Setting (Menu Code: 3.2)		12: 1200bps, 24: 2400bps, 48: 4800bps, 9	96: 9600bps	
For recognize each machine by different ID No.	Short Press [MENU] Key	4. Enter into Machine ID Setting	1 6 255	3.2
FMT Setting (Data Frames Format) (Menu Code: 3.3)		 Operator can set Machine ID from 001 to 25 Press [UNIT] key to move the cursor and press 	55, ress [PRINT] key to se	elect the number.
Select different data format for different output required.	Short Press [MENU] Key	4. Enter Into Data frames format Setting	Fit-85[3.3
COM Setting (Communication Way) (Menu Code: 3.4)		○ Press [PRINT] key can select ASC (ASCII i	format) or ATU (Mod	lbus ATU).
Select different communication way for output different signal.	Short Press [MENU] Key	4. Enter Into Communication Way Setting		Э.Ч
PRT Setting (Print Way) (Menu Code: 3.5)		CON: communicate continuously, STY: con	nmunicate while steady,	ly,
Select different printing way for different output.		KEY: communicate only press [PRINT] key, Txxx: communicate every XX seconds (Car	SOFT: communicate n set time manually).	with software,
KEY Setting (Transfer the Signal) (Menu Code: 3.6)	Short Press [MENU] Key	4. Print Way Setting	Prt PFY	3.5
Select the menu and switch the signal from computer to other equipment (such		O Press [PRINT] key can select :		
as printer), or send signal to both at the same time.		NON: turn off print, KEY: print only press [PF Txxx: print every XX seconds (Can set time	PRINT] key, SOFT: print by software order, ne manually).	
COM ITEM (To Turn On/Off the Communication Data) (Menu Code: 3.7)	Short Press [MENU] Key	4. Peripheral Equipment Setting	YFY-P-F	З.б
Operator can turn on or off the any out put R\$232 data.		○ Press [PRINT] key can select : KEY.PRT, k	KEY.COM, KEY.ALL,	KEY.NON
		 Short Press [CAL] key to select KEY.PRT and Machine conditional to printer when press 	nd return:	
Operator can turn on or off the any out put printing data.		Machine Send Signal to printer when press Short Press [CAL] key to select KEY.COM a Machine send signal to computer when pre Short Press [CAL] key to select KEY.ALL a Machine send signal to printer and compute Short Press [CAL] key to select KEY.NON a Press [PRINT] key NO SIGNAL CAN SEND	and return: ss [PRINT] key. nd return: er both when press [P and return: 0 OUT.	'RINT] key.
	Short Press [CAL] Key	5. Confirm and return to previous menu	[onn-	З.
	Short Press [TARE] Key	6. Finish Setting and return to standby		
	 The grew color part 	s is the following operation after Step 1-3 b	oaud rate Setting.	
	Note: The grey color w	ords explain the signal's meaning which fla	sh on the window.	

Communication Setting

Turn On/Off the Communication Data

COM ITEM Instance (Menu Code: 3.7)

Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hold	1. Display Menu	nodE -	Ι.
[MENU] Key Short Press [MENU]	2. Enter into Communication Setting	[onn-	Э.
Short Press [CAL] Key	3. Enter into Baud rate Setting	68. bRud - 95	Э.І.
Short Press [MENU]	4. Enter into output data turn On/Off menu	Conl EEn	Э.Т.
Short Press [CAL] Key	5. Enter into turn On/Off output data of Type	31.101 09	<u>-5 8-0 8</u>
	 Three position to display as: Upper left display the menu code, Upper right display the time, Main window of The default setting is turn ON and output all Operator can press [PRINT] to turn OFF ea 	Isplays the data's stat machine's data. ch output data.	us.
Short Press [MENU] Key	6. Enter into turn On/Off output data of ID	19 00	3. 7.1.02
Short Press [MENU] Key	7. Enter into turn On/Off output data of Date	ABLE OU	3 .7.1.03
Short Press [MENU] Key	8. Enter into turn On/Off output data of Time	ri Te on	3.7.1.04
Short Press [MENU] Key	 Enter into turn On/Off output data of Temperature 	ren on	3.7.1 .05
Short Press [MENU] Key	10. Enter into turn On/Off output data of Battery Status	P05 00	3.7.1 .05
Short Press [MENU] Key	11. Enter into turn On/Off output data of Weighing Mode	un 360v	3.7.1 .07
Short Press [MENU] Key	12. Enter into turn On/Off output data of Reference Weight Mass	rEF ON	3.7.1 .08
Short Press [MENU] Key	13. Enter into turn On/Off output data of Weighing Status	SFRF ON	3. 7.1.09
Short Press [MENU] Key	14. Enter into turn On/Off output data of Weighing Step	SEEP ON	3.7.1.10
Short Press [MENU] Key	15. Enter into turn On/Off output data of Tare Status	[Rr ON	3.7.1.11
Short Press [MENU] Key	16. Enter into turn On/Off output data of Zero Status	26ro 00	3.7.I.I2
Short Press [MENU] Key	17. Enter into turn On/Off output data of Weight	<u>167 01</u>	3.7.1 .13
Short Press [CAL] Key	18. Confirm the setting and return	[onl tEn	Э.Т.
Short Press [TARE] Key Two Times	19. Finish the setting and return to standby		

Note: The grey color words explain the signal's	s meaning which flash on the window.
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PRT ITEM Instance (Menu Code: 3.8)

Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hold	1. Display Menu	nodE -	Ι.
Short Press [MENU]	2. Enter into Communication Setting	[000-	Э.
Short Press [CAL] Key	3. Enter into Baud rate Setting	bRud- 95	Э.І.
Short Press [MENU]	4. Enter into output data turn On/Off menu	PrtitEn	3.8.
Short Press [CAL] Key	5. Enter into turn On/Off output data of Type	3.8.101 09	<u>-5 8-0 8</u>
	 Three position to display as: Upper left display the menu code, Upper right display the time, Main window di The default setting is turn ON and output all Operator can press [PRINT] to turn OFF each 	splays the data's stat machine's data. ch output data.	tus.
Short Press [MENU] Key	6. Enter into turn On/Off output data of ID	14 ON	3.8.1.02
Short Press [MENU] Key	7. Enter into turn On/Off output data of Date	982 E 00	3.8.1. 03
Short Press [MENU] Key	8. Enter into turn On/Off output data of Time		3.8.1.04
Short Press [MENU] Key	 Enter into turn On/Off output data of Temperature 	reap on	3.8.1.05
Short Press [MENU] Key	10. Enter into turn On/Off output data of Battery Status	P0 0 00	3.8.1 .06
Short Press [MENU] Key	11. Enter into turn On/Off output data of First Dividing Line	00	3.8.1 .07
Short Press [MENU] Key	12. Enter into turn On/Off output data of Weighing Mode	<u>2095 OU</u>	3.8.1.08
Short Press [MENU] Key	13. Enter into turn On/Off output data of Reference Weight Mass	rEF ON	3.8.1.09
Short Press [MENU] Key	 Enter into turn On/Off output data of Weighing Status 	SFRF ON	3.8.1 .10
Short Press [MENU] Key	 Enter into turn On/Off output data of Weighing Step 	SEEP ON	3.8.1.11
Short Press [MENU] Key	16. Enter into turn On/Off output data of Tare Status	FRr ON	3.8.1.12
Short Press [MENU] Key	17. Enter into turn On/Off output data of Zero Status	2Ero 00	3.8.1.13
Short Press [MENU] Key	 Enter into turn On/Off output data of Weight 	<u>nef</u> ou	3.8.1 .14
Short Press [MENU] Key	 Enter into turn On/Off output data of Second Dividing Line 	0Л	3.8.1 .15
Short Press [MENU] Key	20. Enter into turn On/Off output data of Signature	5 iGn 011	3.8.1.16
Short Press [CAL] Key Short Press [TARE] Key Two Times	 Confirm the setting and return Finish the setting and return to standby 	Eoni EEn	3.8.

Note: The grey color words explain the signal's meaning which flash on the window.

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Machine Weighing Configuration Setting (Menu Code: 4)

Print Data of Weighing Mode (Example: 2000g/0.01)

		Purpose
TYPE:20002	Machine Type	Operator can set the machine basic weighing config to change the weighing
ID:1	Identification	capability to reach different required.
DATE:15-05-16	Date	Zeroing Range Setting (Menu Code: 4.1)
TIME:00-08-08	Time (From measuring)	Operator can increase or decrease the zeroing range for they need.
TEMP:20.8C	Room Temperature	Tracking Range Setting (Menu Code: 4.2)
BAT:FULL(EXT)	Power Status	Operator can increase or decrease tracking range for they need.
	Broken Line	Sensitivity Level Setting (Menu Code: 4.3.)
MODE:NORMAL	Mode	Operator can adjust the sensitivity by increase or decrease the level.
REF:1000.00g	Calibration Weight Mass	Level 1 is the lowest sensitivity and level 6 is the highest.
STATUS:STEADY	Present Status	Speed Level Setting (Menu Code: 4.4)
STEP:NONE	Present Step	Operator can adjust the weighing response time by increase or decrease the level.
TARE:NONE	Tare Status	Level 1 is the slowest weighing response speed and level 3 is the fastest (Default and recommend setting: Level 2)
ZERO:NATURAL	Zero Status	
WT:0.00g	Weighing Result	Anti-Vibration level Setting (Menu Code: 4.5)
COMPLETE	END	Operator can adjust the weighing response time and anti-vibration strength by increase or decrease the level.
SIGNATURE:	Signature	The higher level comes with higher anti-vibration. Level 1 has fast weighing speed
	Blank	and weak anti vibration. Level 7 has strong anti vibration and low weighing speed.

Instance (Menu (Code: 4.1~4.5)		
Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hold [MENU] Key	1. Display the Menu	JoodE -	1.
Short Press [MENU] Key Three Times	2. Enter into Configuration Setting	-SELUP-	Ч.
Short Press [CAL] Key	3. Enter into Zeroing Range Setting Press [PRINT] key can set Zeroing Range free 	ZEro-00 om 0.0 to 6.0	4.1
Short Press [MENU] Key	4. Enter into Tracking Range Setting Press [PRINT] key can set Tracking Range fr 	56 dy - 05 rom 0.0 to 6.0	Ч.2
Short Press [MENU] Key	4. Enter into Sensitivity Level Setting Press [PRINT] key can set Sensitivity Level f 	SENS <i>i</i> from 1 to 6	Ч.Э
Short Press [MENU] Key	4. Enter into Speed Level Setting O Press [PRINT] key can set Speed Level I from	5PEEd-2 m 1 to 3	Ч.Ч
Short Press [MENU] Key	4. Enter into Anti-Vibration Level Setting O Press [PRINT] key can set Anti-Vibration level	FILE I el from 1 to 7	Ч.5
Short Press [CAL] Key	5. Confirm the setting and return	-SELUP-	Ч.
Short Press [TARE] Key	6. Finish the setting and return to standby		

• The grew color parts is the following operation after Step 1-3 Zeroing Range Setting.

Note: The grey color words explain the signal's meaning which flash on the window.

The instance of how the automatic calibration analytical balance start to calibrate itself. (Menu Code: 5)

The requirement of start up the machine's automatic internal calibration. First: Nothing on weighing pan, no operation and stable on the zero. Second: The machine will start up the automatic internal calibration function base on the factory default (or user-set) time and temperature range.

If machine not reach above requirements, it will pause or stop the automatic internal calibration.

Third: When machine start up the automatic internal calibration function , the screen will display "RutoCAL), the calibration device which inside the machine will activate to calibrate the machine and motor will sound "zizizi" (ITS NORMAL). Duiring the calibration precess, the machine's screen will display buildin weight mass's weight. And then the system will self-test scale and screen will display "-----". The whole calibration over when zero display on screen.

INSTANCE (Example: Y-124/223)

(1) The instance of setting automatic internal calibration parameter.

Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hold [MENU] Key	1. Display Menu	JoodE -	1.
Short Press [MENU] Key Four Times	2. Display the menu of Automatic Internal Calibration Setting	Ruto[RL	5.
Short Press [CAL] Key	3. Enter into Automatic Internal Calibration Setting	RERL ON	5.1
	 The factory default setting is Turn on it (ON). internal calibration function base on the factor Press [PRINT] to turn off it (OFF) and then maching 	The machine will start ory default time and ten ne will come with interna	up the automatic mperature range. I calibration status.
Short Press [MENU] Key	4. Enter into Manual Internal Calibration Setting	YER-But	5.2
	O Press [PRINT] to select manul External Calibration	on (Hnd) or manual Inter	nal Calibration.
Short Press [MENU] Key	4. Enter into Automatic Internal Calibration's Weight Deviation	PEU2783	5.3
	 Press [PRINT] and [UNIT] can circle from 0 initial zero tracking. (Example: if set 5d, the left 5d on pan). 	d to 50d of the maximu machine will still caliba	Im deviation of ate itself evenif
			43

Analytical Balance Calibration

Short Press [MENU] Key	4. Enter into Automatic Internal Calibration Delay Time Setting	967 ¥705	5.4
	 The Automatic Internal Calibration Delay Furreach the requirement of time, temperature, Press [PRINT] key and [UNIT] key can circle 	nction only workable when weight deviation range. and select from 0.1 to 5	n machine minutes.
Short Press [MENU] Key	 4. Enter into the Boot Automatic Calibration Setting O The factory default is turn on (ON), press [P And then machine will not calibrate itself automatic 	book O RINT] can turn off (OFF) i tomatically when turn on.	5.5 it.
Short Press [MENU] Key	 4. Enter into Automatic Internal Calibration Time Setting O Press [PRINT] key and [UNIT] key can circle and set 	L 505 elect from 5 to 300minuts or to	5.Б urn it off (OFF).
Short Press [MENU] Key	 4. Enter into Enter into Automatic Internal Calibration Temperature Setting O Press [PRINT] key and [UNIT] key can circle and 	Г 0.5 °C tu	5 . 7 rn it off (OFF).
Short Press [MENU] Key	 4. Enter into Build-in Weight mass Adjustment Setting Press [PRINT] key can circle and select from build-in weight mass's weight. Press [UNIT] key to move the flash, press [F "+" or "-" (Positive or Negative). 	rEF 000 n ± 0.01mg to 19.99mg of PRINT] key to circle the se	5 . 8 f adjust the tting value,
Short Press [CAL] Key	5. Confirm the setting and return	-SELUP-	5.
Short Press [TARE] Key	6. Finish the setting and return to standby		

• The grew color parts is the following operation after Step 1-3 Automatic Internal Calibration Setting.

(2) The Instance of Automatic Internal Calibration machine operate manual Internal Calibration.

Key (Order)	Step Explanation	LCD Screen Display
Short Press [TARE] Key	1. Machine tare the weight	<i>0.0000</i> g
Press and Hold [CAL] Key	2. Display internal calibration signal, flash Aut.CA	r Vafeur
Release [CAL] Key	3. After several seconds, the machine display zer then the calibration finished	^{o,} <i>0.0000</i> g

(3) The Instance of Automatic Internal Calibration machine operate External Span Calibration.

Key (Order)	Step Explanation	LCD Screen Display
Short Press [TARE] Key	1. Machine tare	<i>0.0000</i> g
Synchronous Press and Hold [MENU] [CAL] Key	2. Display span calibration signal Flash the required weight mass value: 100g	<i>100.0000</i> g
	 Put required weight mass on pan. After 5 seconds, display the weight of it. 	<i>100.0000</i> g
	4. Take the weight mass away (Span calibration finished)	<i>0.0000</i> g

(4) The Instance of Automatic Internal Calibration machine operate External Linearity Calibration. (Please DO NOT linearity calibrate the machine if you don't have match weight mass)

(ey (Order)	Step Explanation	LCD Screen Display
Short Press [TARE] Key	1. Machine tare	<i>0.0000</i> g
Synchronous Press and Iold [MENU] [CAL] Key	2. Display Span CAL signal Flash 100g signal	1 00.0000 g
Press and Hold [MENU] Key	3. Display Linearity CAL signal Flash 120g signal	120.0000 g
↓	4. Put required weight mass on pan Display 120g after 5 seconds	120.0000 g
↑	5. Take weight mass away Linearity calibration step Flash 100g signal	<i>100.0000</i> g
↓	Put required weight mass on pan Display 100g after 5 seconds	<i>100.0000</i> g
	\odot The balance is preset to four internal linear cal	ibration: 120g, 100g, 50g, 20g
	 Take weight mass away Linearity calibration finished) 	<i>0.0000</i> g

Note: The grey color words explain the signal's meaning which flash on the window.

Note: The grey color words explain the signal's meaning which flash on the window.

• External Calibration Machine operate calibration function (no menu code) Only when machine reach following requirements can operate the calibration.

 First: Nothing on Weighing Pan. Second: Machine was Tare. Third: Machine is stable on Zero.

The machine will show ERROR if do not reach the above conditions. The machine will show the needed weight mass value if reach the above conditions.

(1) Instance of External Span Calibration

Key (Order)	Step Explanation	LCD Screen Display
Short Press [TARE] Key	1. Machine tare	<i>0.0000</i> g
Press and Hold [CAL] Key	2. Display span calibration signal Flash the required weight mass value: 100g	<i>100.0000</i> g
	3. Put required weight mass on pan. After 5 seconds, display the weight of it.	<i>100.0000</i> g
	4. Take the weight mass away (Span calibration finished)	<i>0.0000</i> g

(2) Instance of External Linearity Calibration (Please DO NOT operate the Linearity Calibration if you don't have matched weight mass)

Key (Order)	Step Explanation	LCD Screen Display
Short Press [TARE] Key	1. Machine tare	<i>0.0000</i> g
Press and Hold [CAL] Key	2. Display Span CAL signal Flash 100g signal	<i>100.0000</i> g
Press and Hold [MENU] Key	3. Display Linearity CAL signal Flash 120g signal	120.0000 g
	4. Put required weight mass on pan Display 120g after 5 seconds	120.0000 g
<u> </u>	5. Take weight mass away Linearity calibration step Flash 100g signal	<i>100.0000</i> g
	Put required weight mass on pan Display 100g after 5 seconds	<i>100.0000</i> g
	\bigcirc The balance is preset to four internal linear	calibration: 120g, 100g, 50g, 20g
	7. Take weight mass away (Linearity calibration finished)	<i>0.0000</i> g

Note: The grey color words explain the signal's meaning which flash on the window.

Restore the machine Config (Menu Code: 6)

Purpose

Operator can restore the machine to factory setting by input the code in menu.

Instance

Key (Order)	Step Explanation	LCD Screen Display	Menu Level and Code
Press and Hold [MENU] Key	1. Display Menu	joqf.	1.
Short Press [MENU] Key Five Times	2. Enter Into restore factory setting function	-Confl G	Б.
Short Press [CAL] Key	3. Enter Into the input code	[od000]	Б.1
	 Press [UNIT] key to move the cursor and pre THE CODE IS: 8888 	ess [PRINT] key to se	elect the number.
Short Press [CAL] Key	4. Confirm and return to previous menu	-Confl G	Б.
Short Press [TARE] Key	5. Finish Setting and retum to standby		

▲ For the convenience of operator remember the code, the restore factory setting code all is: 8888. Operator can not set other code.

Note: The grey color words explain the signal's meaning which flash on the window.

	Menu Level One	Menu Level Two	Menu Level Three	Default Setting	Menu Items
able —	— 1. Application —	1.1. Counting	- 1.1.1	0	Sample's quantity 20pcs
			- 1.1.2		Set sample's quantity manually
					Set sample's weight manually
		- 1.2. Computing Price	- 1.2.1		Set sample's unit weight
		L	- 1.2.2		Set sample's unit price
		1.3. High-Low Limit Weighing —	- 1.3.1	0	OUT (Out the limit)
		1.4. Gross/Net/Tare	- 1.4.1	0	Set sample's tare weight
		Weight Weighing	- 1.4.2		Set sample's tare weight manually
		1.5. Accumulating	-		Accumulate weight and tracing records
		1.6. Dynamic Weighing ——	- 1.6.1	0	Dynamic weighing with 10 seconds
		- 1.7. Peak Holding	- 1.7.1	0	Count the peak holding data
			<u>1.7.2</u> ~5		Other ways of record peak holding
			- 1.8.1	0	Percentage weighing with sample
		L	- 1.8.2		Percentage weighing with set weight
		1.9. Density Measurement	- 1.9.1	0	Density of Solid Sample
		_	- 1.9.2		Density of Liquid Sample
			- 1.9.3		List of saved standard liquid density
ŀ	— 2. Basic Function -	2.1. Automatic Dual			
		Weighing Range	- 2.1.1	0	First Weighing Range
		2.2. Turn On/Off Units ——	- 2.2.1	0	Turn ALL unit ON
		2.3. Date Setting	- 2.3.1	0	Year
		-	- 2.3.2	0	Month
			- 2.3.3	0	Date
		2.4. Time Setting	- 2.4.1	0	Hour
			2.4.2	0	Minute
		-	2.4.3	0	Second
		-	- 2.4.4	0	24 hours mode
			- 2.4.5		Modify time speed
		2.5. Temperature Setting —	-		Correct Temperature
		2.6. Backlight Setting		0	Turn On backlight
		2.7. Buzzer Setting		0	Turn On buzzer
		2.8. Language Setting		0	Chinese

Menu Level Four	Menu Items Explanation
1.1.1.1	Operator can select 10, 20, 50, 100, 150, 200, 250, 500, 1000pcs in turns or any other number.
1.1.2.1	Operator can select 10, 20, 50, 100, 150, 200, 250, 500, 1000pcs in turns or any other number.
1.1.2.2	Flash the sample's quantity of last time or set the sample's quantity manually.
	Input the known sample's unit weight.
	Input the known sample's unit price.
	Operator can set the buzzer alarm terms: OUT (out the limit) or IN (in the limit).
1.4.1.1	Notice to put the tare weight's sample.
1.4.2.1	Notice to input the tare weight manually.
	Machine can accumulate the max weight up to 9999999g and trace the recent 100 times of weighing records.
	Operator can set 01, 02, 05, 10, 15, 20, 30, 40, 50, 60 seconds or any numbers from 0-99.
	Machine can record peak holding weighing time for 9999 times and trace the recent 100 times of weighing records.
	Peak Holding Weighing way with Time, TKEY (Press Key), TST1 (Very Stable), TST2 (Little Stable), TCON (Continuing).
1.8.1.1	Percentage weighing with sample.
1.8.2.1	Percentage weighing with set weight of sample.
1.9.1.1	Setting standard liquid's density. Operator can select the previously saved liquid density.
1.9.2.1	Machine can set a standard weight mass's density.
1.9.3.1	Can save the 10 groups different standard liquid's density.
	The machine will switch to second weighing range and precision automatically when the weighing sample's
	weight over the max capacity of machine.
2.2.1.01	Machine has 20 units available. They are: g, ct, oz, ozt, dwt, GN, lb, N, dr, tIT, tls, tIH, T, T/A/R, /A/R, ms, bat, mom, /lb, kg
	Operator can set 12 hour mode or 24 hour mode.
	Operator can modify time speed to quicker or slower within \pm 59
	Operator can modify the machine temperature when different with room's, the modify range within \pm 1.9
	Operator can set backlight with turn on, turn off or automatically.
	Operator can set to turn on or turn off the buzzer.

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Operator can set to display with CN (Chinese) or EN (English) for some functions.

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	Mona nona Explanator
Menu Level Four	Menu Items Explanation
	Operator can select baud rate from 12 (1200bps), 24 (2400bps), 48 (4800bps) and 96 (9600bps).
	Operator can set ID from 001- 255.
	Operator can set weighing data output format with ASC (ASCII) or ATU (Modbus ATU).
	Operator can set communication way of NON, CON, STY, KEY, SOFT, Txxx (001- 999 second).
	Operator can set print way of NON, KEY, SOFT, Txxx (001- 999 second).
	Operator can select RS232 data output way of KEY.COM (Computer), KEY.PRT (Printer),
	KEY.ALL (Computer and Printer), NON (No data output).
3.7.1.01	Operator can turn off the output data of type, ID, date, time, temperature, battery, mode, weight mass, status, step. tare, zero and weight in turns.
3.8.1.01	Operator can turn off the output data of type, ID, date, time, temperature, battery, fist dividing line, mode, weight mass, status, step, tare, zero, weight, second dividing line and signature in turns.
	Operator can set zeroing range: 0.0, 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0 in turns.
	Operator can set tracking range: 0.0, 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0 in turns.
	Operator can select sensitivity level with 1-6 level in turns. The higher level comes with higher sensitivity.
	Operator can select 1-3 speed level in turns. The higher level comes with faster speed.
	Operator can select anti-vibration level with 1-7 level. The higher level comes with higher anti-vibration.
	User can select ON (turn on), OFF (turn off).
	User can select Hnd (Manual External Calibration), Aut (Manual Internal Calibration).
	User can select the deviation of initial zero tracking parameter from 0, 1, 2, 4, 5, 6, 8, 10, 12, 15, 20, 25, 30, 35, 40 to 50d in turns.
	User can select the time from 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8, 1.0, 1.2, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0 to 5.0 minutes in turns.
	User can select ON (turn on) OFF (turn off).
	User can select the time from 5, 10, 15, 20, 30, 45, 60, 75, 90, 120, 150, 180, 210, 240, 270, 300 minutes or OFF (turn off) in turns.
	User can select the time from 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.2, 1.5, 1.8, 2.0, 2.5, 3.0°C or OFF (turn off) in turns.
	User can adjust the build-in weight mass's weight from \pm 0.01mg to 19.99mg.
	Restore the factory setting code is 8888. Operator can not set other code.

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Menu Items Explanation

Repair

Only trained technician was authorized to repair the problem machine.

Clean

- Pull out the adapter from electrical outlet and cable from machine.
- Use soft cloth with neutral cleanser to clean the machine housing.
- Dry the housing with soft cloth and then take out the weighing pan and wash it.
- When take up the weighing pan and bracket, make sure that don't broken the weighing system.
- ightarrow Do not let the liquid flow into machine.
- $\underline{\Lambda}$ Do not use the caustic cleanser.

Wash stainless steel surface

Use soft cloth or sponge to clean all stainless steel parts need to clean often and completely. Only home appliances cleanser available for clean the stainless parts. Wipe up the stainless steel parts surface first, wash up all leftover second and then dry it. Oil the stainless steel surface if necessary.

Guarantee

Do not ignore your warranty rights.

If machine have problem in guarantee period, please contact local distributor.

- We carry out The Guarantees strictly according to national regulation
- The guarantee period is one year from the date of sell. The guarantee machine is with correct install and usage, not man-made problem. Send back machine to local distributor or seller with proper packing (include warranty card). We will exchange a new one or repair and return machine to you within one week from we receive it.
- Battery, load cell and Magnetic cylinder is not including in guarantee range.
- If the problem machine exceed the guarantee time limit or was damage by man-made, we will charge the reasonable labor and material cost, delivery cost and any other possible cost.

Product Guarantee Elucidation

We guarantee that under proper using situation, We provide one year repairing service include material and technical support after selling date.

In Guarantee period, if machine broken or damage because of material or techniques, We will repair or replace the problem parts which has been proved. Please contact our Local office when machine need repairing.

The Guarantee Card will be inefficacy with wrong operating and not according as the operating manual. The Guarantee Card will be inefficacy with any damage or broken by unauthorized person's repairing or replacement.

We are not in charge with apparent or intentional disobeying the guarantee rule which cause machine any relevant or accidently broken.



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