

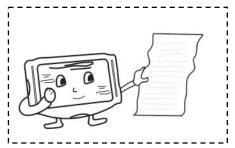


BENCH SCALE KPC User Manual

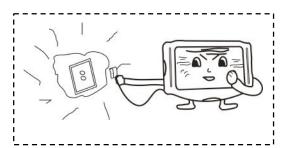


v.201811



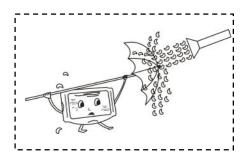


Please read the manual in details before operation

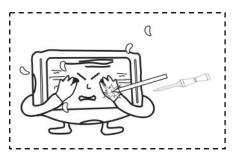


4

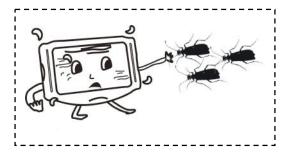
Please use the right plug and right voltage Be much attention of 110V or 220V!!!



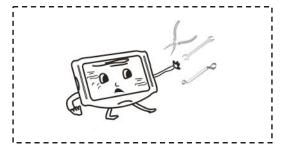
Don't clean the indicator with the Flush water



Don't touch the keypad with the Items with sharp end



Avoiding the insects in for protecting PCB and other electronic components



Don't open the indicator by yourself and please call the service people or our distributor when you get the problem with it

I. Technical Parameter

1.A/D Conversion: $\sum -\Delta$

2.Input Signal Range: 0-10mv3.A/D Resolution: 1,000,000

4.A/D Conversion Speed: 10times/second

5.Excitation Voltage: DC5V

Excitation Current: (4) 350 Ohm load cells or (8) 700 Ohm load cells

6.Display: 18 digits LCD 0.8"

7.Divisions:

1/2/5/0.1/0.2/0.5/0.01/0.02/0.05/0.001/0.002/0.005/10/20/50/100/200/500

8. Serial Output Interface: RS—232 continuous transmitting,

Baud Rate 1200 2400 4800 9600 optional

RS—485 optional

9.Printing: RS232 printing output

10.A.C Power: AC110/220V (AC/DC built-in battery 6V 4Ah)

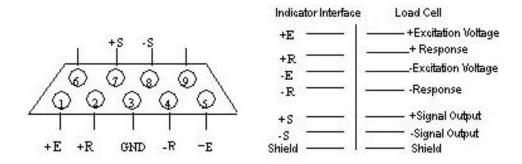
11.Operating Temperature: 0°C~40°C 12.Storage Temperature: -25°C~55°C 13.Relative Humidity: ≦85 % RH

14.Exterior Size: 220mm×140mm×130mm

15.Weight: Around 2 Kg

II. Connection

1.The load cell adopts D 9-pins socket as follows:



(Note: If using 4-wire shielded cable, short connected +E with +R, and -E with -R.)

2.Communication Connection (D-SUB-9-pins):

3rd pin: TXD (RS-232C continuous transmitting)

5th pin: GND

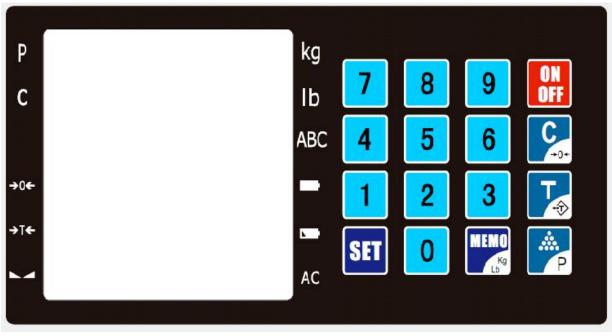
3.Communication Data Format (RS-232C continuous transmitting)

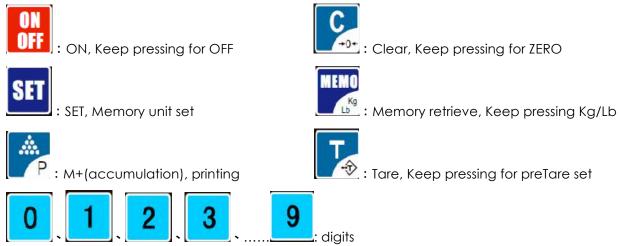
The communication address X = 0 in continuous transmitting and the format is $= X_1, X_2, X_3, X_4, X_5, X_6$. The transmitting $X_1, X_2, X_3, X_4, X_5, X_6$ is displaying data, and " = "is the list separator.

Example: weight: 100.00kg, transmitting: = 00.001 = 00.001.

4. RS-485 optional

III. Keypad & Signs

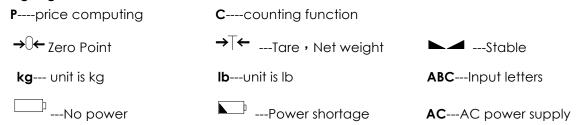




Display: The 1st line---weight value

The 2nd line----unit price or unit weight The 3rd line----total amount or quantity

Sign lights:



IV. Parameter Setting

- 1. Connecting the load cell well before parameter setting
- 2. Set parameters as following steps:

(Attention: calibration plug must be pushed on the position ON)

3. Press to confirm and enter next step •

Step	Operation	Display	Note
1	Press ON OFF	<pre>【UEr10.0】</pre>	Switch on and then press
			EnSEt Means parameter setting and calibration allowed
			(CLoCK is plus model with clock)
		2	
2		〖000000〗	Self-Checking
		[999999]	
3		[]	Needs password
	Press SET	[SEt]	T
		[]	Input 2003 and press to enter parameter setting
		[1]	Division chose
		<pre>[-d-]</pre>	
		[1]	
4	Press Press	<pre>[2]</pre>	0.001-0.002-0.005-10-20-50-100-200-500-0.10-0.20-0.50-1-
	Press	[5]	2
	C C	〖 0.1〗	-5-0.1-0.2-0.5-0.01-0.02-0.05
5		【 6000】	Press C to choose, example of 0.1
3	Press P	[-FS-]	Full Scale setting
	Press [3]	K 13 7	
	Press [0]	[6000]	Example: 3000
	Press [0]	〖 3〗	
	Press [0]	〖 30〗	
		〖 300〗	
		〖3000〗	
6	Press P		0—2 filtering chose, the value smaller, speed faster,
	Press Pr	〖-FL†-〗	value bigger, the more stable, so choose smaller value
		<pre>[0]</pre>	if the weighing condition good, if not, choose the big
		[1]	value
	Press [1]		Example: FLt =1

7	Press P	[10]	Ones place digit (the 0 of 10) represents the option of automatically power off function or not.						
		[AutP]	Ones place=0:No automatic power off function						
			Ones place=1:Automatic power off						
		<pre>[10]</pre>	Tens place digits (the 1 of 10) represents zero tracking						
	Press [1]	_	range (1~9):						
	Press [1]		1:0.4 d 2:0.8 d 3:1.2 d 4:1.6 d						
		[1]	5:2 d 6:2.4 d 7:2.8 d 8:3.2d 9:3.6 d						
		[11]	Also Tens place represents the zero range upon power						
		5	on:						
			Tens digit=0 not zero when power on						
			Tens digit>0 zero rang is 20 F.\$ when power on						
			Eg: AutP=11						
8	*	01 3	Communication address chose, serial continuous						
	Press P	[-Adr-]	output format						
			Adr = 00 (weight sending from end, 100.0 = 0.001)						
			Adr=99 (weight sending from beginning, 100.0 =100.0)						
			Adr=98 (Amount/Quantity)						
			Adr=01-97 (serial printing ouput)						
9	ı A	〖 2400〗	Baud Rate chose : 2400 4800 9600						
	Press P	[bAud]	Eg: b=4800						
		〖 2400〗							
		〖 4800〗							
	C								
	Press 🔀								
10	, and the second	<pre></pre>	Mode chose when power on :						
	Press P	〖P-c 〗	0Price computing						
			1Counting						
			Eg: 0						
11	Press Press	2	Decimal point (in total amount window) chose: 0-4						
	Press Pr	〖P-Pt 〗	0none						
		〖 2〗	1-40.0 0.00 0.000 0.0000						
			Eg: 2						
12	Press P		End of parameter setting						
	Press P								

V. Calibration

After parameter setting, you can start to do calibration according to following steps:

		· ·	
Step	Operation	Display	Note
1	SET	[]	Needs password, input 8888 and press
	Press		(A)
		[]	Enter calibration mode

2	Press P	<pre>[n LOAd] [CAL 0] [xxxxxx]</pre>	Zero Calibration xxxxxxx: A/D internal code
4	Make sure no object on platform and then press	[] [CAL 0] []	Displays the full scale value after several seconds of finish of zero calibration
3	Put the full scale weight on the platform	【LOAd】 【CAL 】 【003000】	Prepare for full scale calibration (If 60% calibration or other mode, please change the weight value according to the weights you are using)
4	Press P	[] [CAL] []	Displays full scale value (or the weight value as you input) after several seconds
5			End of calibration

VI. Normal Operation

(Attention: Calibration plug must be at position of OFF)

1. **On/OFF:** Switch on and press to power on the indicator and Press for 2 seconds more to power off the indicator

(Another function of ON/OFF: pressing can abort any present operation to back to weighing mode)

b. Tare clearance: When the $\ \to T \leftarrow \$ light on, press key to clear the tare value and the light $\ \to T \leftarrow \$ off

c. PreTare: Pressing for 2 seconds or more it displays"-----" ito input the tare value and then press

4.Letter Input It can store 4 sentences and 30 letters for each sentence
On the weighing mode, keep pressing [0] -- [3] key for 2 seconds more to input four sentences by ASCII code, numbers input just with digits keys, example of A7B input with

following steps (ASCII code table refer to appendix at last page)

Step	Operation	Display	Note
1	Pressing [1] for		Input start
	2 seconds		
	more		
2	Press (6) (5)		The ASCII code of A is 65
		<pre>[65]</pre>	
3	Press P	[A]	A entered
	Press P		
		[]	
4	Press [7]	[A]	
		[7]	
5	Press P	[A7]	A7 Input
	Press P		
		<u> </u>	
6	Input B	[A7b]	
	according to		Press to backwards and input
	above steps		again
	again		
7	C	[A7b]	If lathers to great the size 10 courses
	Press -0+		If letters Is more than 12, press 🔼 to
			display all the letters and press
			display all the letters and press
			again to back to the input mode, If
			the letters is more than 30, the first
			letter will be deleted automatically
8	Keep pressing	[A7b]	The words/sentence are stored in
	[1] again for		position of 1 and back to weighing
	2 seconds		mode
	more		

5. Words/Sentence use:

Keep pressing [0] -- [3] key to display words/sentence in position of 0-3 and press [0] --[3] key again to quit display and then the words/sentence which pressed just now can be used.

Example: to use the words/sentence on [2], keep pressing [2] to display the words/sentence stored in [2] and press [2] again to choose it and start to use it.

6. Words/sentence printing set:

Keep pressing [9] to display PtF mode and input 0-2 and press



PtF:

0--The present chosen words/sentence printing at head

- 1-- The present chosen words/sentence printing at end
- 2-- The present chosen words/sentence printing at head, the following sentence printing at end (such as words/sentence chosen of [2] now, the words/sentence of [2] will be printed at head and the sentence/words of position [3] will be printed at end.
- 7. Accumulation operation: When the weight is above 20d and stable, press key to

accumulate the displayed value, and the first display window display the accumulated weight, and the second display window display the accumulated times and the third window display the total amount accumulated. It will back to normal weighing mode after one second.

It displays the accumulated weight, accumulated times and accumulated quantities in the counting mode

(Note: one weighing operation can do accumulation once time only, next accumulation must be operated when the weight display less than 20d and weigh something again.)

8.Printing: When weight value above 20d and stable, keep press for twice times, it will accumulate the value and also if the Adr= set with 01-97 (printing allowed), it will print the following receipt:

Price computing mode: (PtF=0) Counting mode: (PtF=2) A7B (example only) A7B (example only) No: 0016 No: 0012 G: 10.00Kg G: 52.01Kg T: 3.00Kg T: 2.01Kg N: 7.00Kg N: 50.00Kg P: 1.23\$ U: 21.322Kg

C:

2345p

9. Accumulation retrieve, printing and clearance:

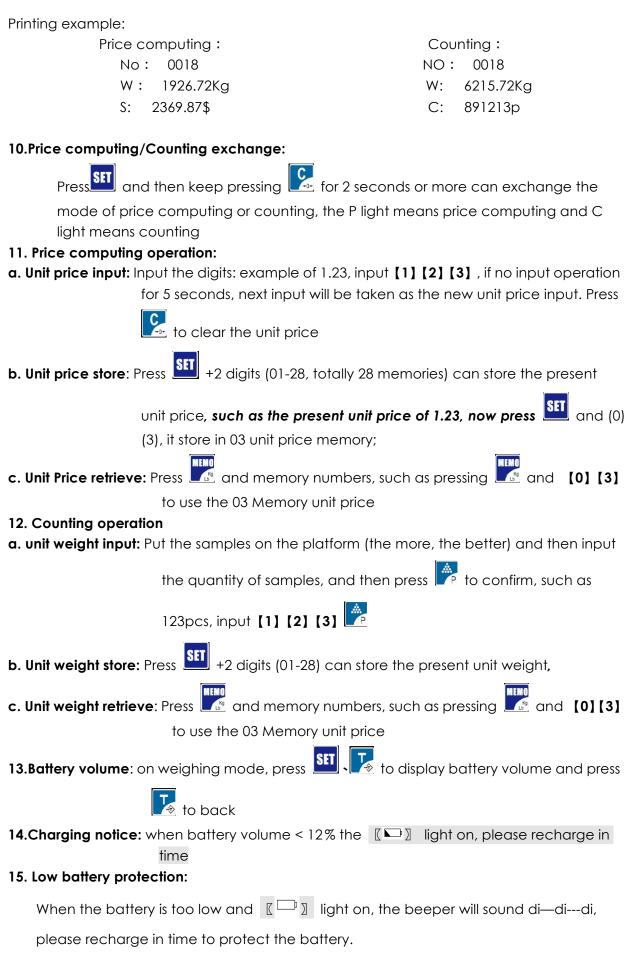
S:

8.61\$

Press the 1st line display the accumulated times, 2nd and 3rd line display the accumulated amount or quantities, press to display the accumulated weight and press again to back to weighing mode. During it displays the accumulated data, press can print the accumulated data as following format, and at this time, press can clear the accumulated data. During it displays the accumulated amount/quantities; press can back to weighing mode

Example:

The accumulated amount	Accumulated quantity	Accumulated Weight
〖n 123〗	〖n 102〗	〖n 102〗
[S 2]	[C 1]	〖 23〗
【2301.20】	<pre>[021389]</pre>	<pre>[0012.85]</pre>



When the battery is over, the 1st window displays $\[\]$ Lo $\[\]$ and 2nd window displays $\[\]$ bAtt $\[\]$, the indicator will power off automatically

16. Power saving:

When the automatic power off function work, it will display \mathbb{Z} - \mathbb{Z} only to save power if 5 minutesno operation

17. Automatic power off:

When the automatic power off function work, it will power off automatically if 30 minutes no operation

18.Working time: it last for 20 hours more with full charge

V. Maintenance and Notices:

- 1.Do not use the indicator under strong sunlight for protecting the using life of it. Keep it on flat while using.
- 2.Do not use it in the places full with dust and strong vibration.
- 3.Do not overload (including the tare weight) (more than full scale is prohibited.).
- 4.Do not cleanout the case with strong impregnant (such as, benzene, nitric acid oile, etc.)
- 5. Keep the interior part of indicator away from the water for avoiding the damage to the electrical components and electronic shock to people.
- 6.Switch off the power when some problem happened while in operation. The user (non-manufacturer of scales) please send the indicator to our company for repair, and it is not allowed to repair at will for avoiding more damage to the indicator.
 - 7. The indicator will charge the battery automatically while the AC power being connected.

VI. Repair Guarantee & Service

The repair guarantee time is 1 year from the selling date of this indicator, and the problem should be happened due to the problem of the indicator itself while in right operation (not due to wrong operation). We supply the service to the indicator for life. (**Battery exclude the repair guarantee**)

Note: The repair guarantee not responsible for all problem of the weighing system while our indicator only act as a part of this system, we only take charge of the problem caused from the indicator itself.

VII. Abnormal Display

```
【 OUE r 】 -----weight value> 100 % F·S+9 d
【-OUE r 】 -----weight value negative overflow
【 Err--1 】 -----weight not stable while calibration
【 Err--2 】 -----calibration wrong
【 Lo 】
【 bAtt 】 ----battery over, power off automatically
```

APPENDIX (ASCII CODE)

LETTER	Α	В	С	D	Е	, F	G	Н	I
display	A	<i>b</i>		Д	E	F		_	/
ASCII	65	66	67	68	69	70	71	72	73
LETTER	J	K	L	Μ	Ν	0	Р	Q	R
display		_		П	П			7	_
ASCII	74	75	76	77	78	79	80	81	82
LETTER	S	T	U	V	W	Х	Υ	Z	
display	5	<u></u>	/	<u>L</u> 1		<u> </u>			
ASCII	83	84	85	86	87	88	89	90	
LETTER	()	,	-					
display			1	_	1				
ASCII	40	41	44	45	46				

Number digits can be input by number keys and also can be input by ASCII code 0-9 with ASCII code of 48-57





v.201811 User Manual

