DD-KC1
Digital Weight Indicator

Instruction Manual

ANYLOAD®

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1. Structure and Installation

2. Packing List

① Indicator 1 piece
② AC Adapter 1 piece
③ Instruction 1 copy
④Guarantee Statement 1 copy

3. Buttons' Functions

Table 1

Key	Function	Menu Function	Serial port order code
	Turn on/off	Null	O
	Switch the unit	Go Down on menu or parameters	U
	Hold / Print function	Go Up on menu or parameters	H
	Tare	Enter menu or confirm the change of parameters	T

4. Operation Method

4.1 Turn on and off

Adapter: Insert the plug of AC Adapter into the power supply hub which is on the left of the Display Indicator, and insert the AC Adapter into AC socket.

Battery：Open the battery cover which is on the right of the Display Indicator, load 4 x AAA alkaline cells into the cell box (note the polarity) and then close the battery cover.

Empty the platform, press  button once, it will show all the characters then

the Maximum Capacity and **Division**. After the screen displays “0”, you can begin to measure the object.

When power-on, press button to turn off the scale.

4.2 Instruction for load cell connection

4.2.1 Connection of the load cell

The connection of the four wire load cell and the indicator：

Connect +EXC with the red wire of the indicator’s cable.

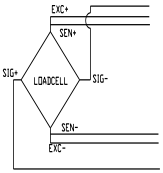
Connect –EXC with the black wire of the indicator’s cable.

Connect +SIG with the green wire of the indicator’s cable.

Connect –SIG with the white wire of the indicator’s cable.

The indicator provides driving voltage through +EXC wire and –EXC wire. +SIG wire and –SIG wire will transmit the change of signal voltage to the indicator.

*To avoid short circuit, please make sure the welding parts of all the wires covered by the heat shrinking tube.



Figure： Connection of the Load Cell and the indicator

4.2.2 Load cell output sensitivity:

1 ~ 2m V / V

4.2.3 Factory parameter setting.

1. Turn off the scale, then hold the three buttons: Unit, Hold and Enter at the same time until the screen displays “------”；
2. Press Unit or Hold button to go through the menu；
3. Press Enter button to enter the display menu.；

4. After entering the display menu, Press  or  key to select parameters; Press  button to verify the parameters and return to the menu;
5. After all the parameters are set, go to **"-End-"** in the menu, short press  button to save and exit to weighing or counting mode

Menu	Meaning of Menu	Selective Parameter
1. dP	Decimal Point Setting	0/0.0/**0.00**/0.000/0.0000
2. CAP	Capacity setting	3000,**6000**,7500,8000,10000,12000, 15000,20000,30000,50000,60000 75000,80000,100000,120000,150000 ,200000,300000
3. InC	Division setting	d=1/**2**/5
-End-	Save and Exit	

4.3 Weighing

When power-on, with nothing on the platform, press  button once, the instrument will then display " **0** ". Place an object on the platform. After the "**kg**", "**lb**" or "**pcs**" character stops flashing, which means that the data is stable, you can begin to read it.

4.4 Calibration Methods

4.4.1 Random Single-point **Calibration**

a) At weighing mode, press and hold  button until the window displays"------";

b) Press  or  button to enter calibration mode;

c) Press  button to make sure enter the calibration mode;

d) After entering the calibration mode, the window will display"Load"and"0.0kg" alternately, which means that the weight"0.0kg"should be loaded on the platform;

e) After making sure that there is nothing on the platform, press  button to confirm so that the scale begins"0.0kg"calibration. In the process of "0.0kg"calibration, "0.0kg" will flicker rapidly on the display window; keep the platform calm, stable, and without other interference factors which will influence

the weighing performance. If the weighing remains stable for longer than 2s, the scale will finish “0.0kg”calibration automatically, it will then begin the next calibration point; otherwise, “0.0kg” will keep flickering to wait for the scale to the stablize.

f) Suppose that the next calibration point should be“xx.xkg”， the window will display “Load”and“xx.xkg” alternately，which means that the weight“xx.xkg”（WEIGHT）should be loaded on the platform. If you have to change this weight, you can press Unit or Hold button to enter the modify menu; then press Unit button to change the flashing position and press Hold button to make the flashing position’s number plus 1, and press Enter button to make sure the modification is finished;

g) After making sure the weight on the platform is“xx.xkg”, press Enter button to confirm so that the scale begins the “xx.xkg”calibration. In the process of“xx.xkg” calibration, “xx.xkg” flickers rapidly on the display window；keep the platform calm, stable, and without other interference factors which will influence the weighing performance. If the weighing remains stable for more than 2s, the scale will finish “xx.xkg”calibration and save the calibrated parameters, then will return to the weighing mode; otherwise, “xx.xkg”will keep flickering until the scale stable.

4.4.2 Standard Two Point Weight Calibration

a) At weighing mode, press and hold Unit button until the window displays“------”；

b) Press Unit or Hold button cycle the display until the window displays“Line”；

c) Press Enter button to begin calibration procedure；

d) After the scale begins to calibrate, the window will display“Load”and“0.0kg” alternately；

e) After you confirm that there is nothing on the platform, press Enter button to confirm and begin the zero calibration when the window displays“0.0kg”. In the process of zero calibration,“0.0kg”flickers rapidly on the display window；please keep the platform calm, stable, and without other interference factors which will influence the weighing performance. If the weighing keeps stable exceeding 2s, the scale will finish zero calibration automatically, and then it will begin the next

calibration point；otherwise, “0.0kg” will keep flickering to wait for the stable weighing.

f) Repeat the step d) and step e) above，calibrate the half capacity range point and the Full capacity range point orderly, save the calibrated parameters automatically and return to the weighing mode.

4.5 Switching the Unit

Press the 

button to switch the unit of measurement, **kg** --- **lb**--- **pcs**--- **kg.**

4.6 Keeping Function “Hold”

Once the 

key is pressed:

4.6.1 The CPU will send the weight data into RS232 socket.

4.6.2 The weight will remain on the display for 120 seconds after the item has been removed from the scale so the weight can easily be read.

a) Place the item on the scale platform.

b) Wait for the stable weights to be displayed.

c) Press the 

key. The “►” hold indicators will turn-on.

d) Remove the item from the scale platform. The item’s weight reading will remain on the display for 120 seconds.

e) Quit to hold function: Once an item is weighed and the hold function is enabled; when you want to quit to hold function, press the 

key again to cancel the “►” hold indicator and return the scale to weight value.

4.7 Print output function

Press and hold the 

for 2 seconds, then the buzzer will sound, and the weight data will output to the computer or the serial printer.

4.8 Counting Sample

a. During counting mode, remove unrelated objects on the platform, then press 

button to revert to zero;

b. Press 

button to switch the unit into “**PCS**”, and the window will display

"**ADD10**".

c. "**ADD10**" means that 10 objects to be weighed should be added onto the platform. Attention: The weight of each sample should be higher than the scale's minimum **division** value; otherwise, the window will display wrong cue"no".

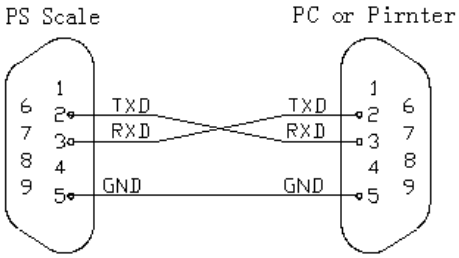
d. If you want to change the sampling quantity, please press the Hold button to change the quantity; if you do not need to sample again, press the Unit button to cancel the sampling, and the scale will adopt last sampling value to count ;

e. After you confirm the quantity of objects on the platform and the data displayed on the LCD are the same, short press Enter to confirm, and then begin to sample and count;

f. During the process of sampling and counting, the screen will display the sampling data by rapidly flickering; keep the platform calm, stable, and without other interference factors which will influence the weighing performance. If the weighing stays stable longer than 2s, the sampling and counting will be automatically finished, the parameter will be saved automatically and the scale will return to counting mode; if not, the screen will keep flickering the data and waiting for the stability of measuring.

4.9 Serial Port Printout

a. Connect the serial port with the scale according to the drawing below. Baud Rate=9600，without parity digit, sent stop bit 1 (The serial connection diagram is omitted）;



b. Open the serial communication software, for example, "HyperTerminal" in

windows. Select the connected portal number “COM” and set the baud rate as 9600bps, the parity bit as “NONE”, the data bit as “8Bit”, and the stop bit as “1Bit”.

c. You can select the serial output modes according to your own needs. The output modes include 3 types: output by pressing Hold button, automatic output after the weight keeps stable, and continuous output. You can set though the “out” in “Parameter setting”.

d. Output Data Form: 8 bytes data bit + 3 bytes unit code + 2 bytes ending code. The above-mentioned characters are all ASCII codes, and the unit can be kg, lb or pcs.

e. The serial ports order can be f0und in Chapter 2 “button function”.

Example of Output Data：

Display	Data Bit								Unit Code			Ending Code	
	1	2	3	4	5	6	7	8	9	10	11	12	13
123.45kg	Blank	Blank	1	2	3	.	4	5	k	g	Blank	CR	LF
-123.45lb	Blank	-	1	2	3	.	4	5	l	b	Blank	CR	LF
123.0pcs	Blank	Blank	Blank	1	2	3	.	0	p	c	s	CR	LF

4.10 When the scale is on, press and hold Enter key until the display "0FF" or "ON", then release. That means open or close the function of animal weighing. When the action symbol which is above the units symbol flashes, that means the current mode is animal mode. in this state, once the weighing is locked, it will automatically remain locked weighs for about 10 seconds.

5. Set User Parameter

a) When the scale is off, please press Unit button together with the power button to turn on the scale. Do not release the Unit button until the screen displays “------”;

b) Press the Unit or Hold button to switch the menu；

c) Press the Enter button to enter the display menu；

d) After entering the display menu, press the Unit or Hold button to select the

parameter；

e) Press the  button to confirm the parameter, and return to the menu；

f) After all the parameters have been set, switch the menu to "-End-"，and press the  button to finish the setting and save the parameters, then return to the weighing or counting mode.

Table 3

Menu	Meaning of Menu	Selectable Parameter	Meaning of Parameter
1. codE	Check the internal code	null	Check the internal code for debugging by manufacturer.
2. ASt	Zero tracking range	0.5/1/2/3d	Set automatic zero tracking range.
3. out	Printout method	kEy/Auto/Conti	kEy：printout while press the key，Auto：printout automatically，Conti：printout continuously
4. LEd	Backlight control method	OFF/Auto/on	OFF：backlight is turned off，Auto：backlight is automatic，On：backlight is turned on.
5. OFF	Automatic shutdown control	no/3/510/15/30/60 min	No: no automatic shutdown; 3~60min: if no action of weighing objects or pressing buttons, the instrument will automatically turn off.
6. -LL-	Set Lower limit alarm	Xxxx (lower limit value)	If the lower limit value is set to"0", the lower limit alarm function is canceled.
7. -HH-	Set upper limit alarm	xxxx（upper limit value）	If the upper limit value is set to"0", the upper limit alarm function is canceled.
-End-	Finish measuring and save the parameters	null	

6. Meaning of Cue Code

Table 4

Display Code	Meaning of Code	Solution
no	1. The calibration weight value is not loaded according to the display when calibrating. 2. The quantity of objects is not loaded according to the quantity of	1. Load the weight value according to the show value. 2. Load the quantity according to the show value.

	sampling.	
AC	The batteries are brownout.	1. Use new batteries. 2. Use power adapter.
Err-0	1. Lost the calibration data. 2. The load cell or main board maybe damaged.	1. Re-calibrate. 2. Change the Loadcell or main board.
Err-1	1.The weight is over the max capacity. 2. Lost the calibration data. 3. The load cell or main board maybe damaged.	1. Remove the objects on the platform. 2. Re-calibrate. 3. Change the load cell or main board.
--L--	Lower limit alarm	1.cancel lower limit alarm
--H--	Upper limit alarm	1.cancel upper limit alarm

7. Maintenance of Scale

In order to keep the scale's normal operating, the crust of indicator and the platform of scale should be kept clean and prevented from corrosion by foreign substance. If necessary, you should use a piece of cloth with mild washing agent to clean them. When you don't use the scale, pull out the A/C plug. If not being used in a long time, please take out the batteries.

8. Troubleshooting

Table 5

Trouble	Cause	Solution
No display	The power plug is not inserted in the right place. The batteries are expired.	Insert the plug in right place. Use the new batteries.
Low-voltage indication	The batteries power is low.	Use the new batteries.
Error in weighing data-reading	The scale didn't back to zero before using. The scale is not calibrated.	Do not put objects on the platform, press  button, and then begin to weigh. Re-calibrate.
False calibration	The calibration weight is not precise.	Use the precise calibration weight.

9. Specification

Model	DD-KC1
Capacity x Readability	3000e
Parts counting	Standard
Repeatability (std.dev)	0.03%
Linearity	0.03%
T range	To capacity by subtraction
Over range capacity	Capacity + 9d
Stabilization time	2sec
Sensitivity drift (%)	0.01
Operation temperature	10～40℃
Operation Humidity	≤85%
Power requirements	110 or 220V 50/60Hz AC adapter (included); Or 4 AAA batteries

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