ANYLOAD

DD-KC1 Indicator Operation Manual

(V0316)

North America Toll Free: 1-855-ANYLOAD (269 5623)
Fax: +1-866-612-9088
http://www.anyload.com
info@anyload.com

Contents

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1. Structure and Installation

2. Packing List

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

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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 weigh the object.

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

4.2 Connecting 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.
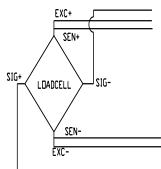

Figure：   Connection of the Load Cell and the indicator

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4.2.2 Load cell output sensitivity:

1 ~ 2m V / V

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 Animal Weighing/Hold *(On by default)*

When the scale is on, press and hold ⚆ key until the display "0FF" or "ON", then release. This will turn off/on animal weighing/hold.   When the 'running person' symbol above the units symbol flashes, the current mode is animal weighing/hold. In this state, once the weighing is stable, it will automatically hold for about 10 seconds.

4.5 Calibration Methods

4.5.1 Random Single-Point Calibration

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

b) Press ⚆ or ⚆ buttonuntil display shows "CAL" ;

c) Press ⚆ button to 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 stabilize.

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）

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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; 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 finish the modification

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, The indicator will return to the weighing mode

4.5.2 Standard Two Point Weight Calibration

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

b) Press [Unit] or [Hold] button to 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；

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.

4.6 Changing Units

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

4.7 "Hold" Function

Once the **Hold** key is pressed:

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

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

    a) Place the item on the scale platform.

    b) Wait for the display to show a stable weight.

    c) Press the **Hold** key. Display will show 'HOLD'. Remove the item from the scale platform. The item's weight reading will remain on the display for 120 seconds.

    d) When you want to quit the hold function, press the **Hold** key and 'HOLD' will disappear.

4.8 Print Function

Press and hold the **Hold** for 3 seconds, the buzzer will sound, and the weight data will export to the computer or the serial printer.

4.9 Counting Sample

    a. During counting mode, remove unrelated objects on the platform, then press button to revert to zero;

    b. Press **Unit** 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 "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 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 that would influence the weighing performance. If the weighing stays stable for 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.

4.10 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）;
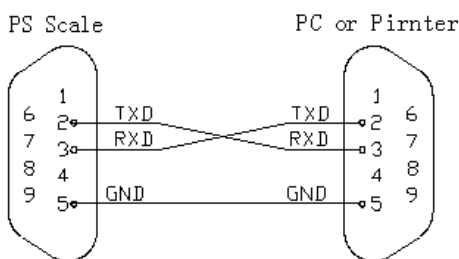
b. Open the serial communication software, for example, "HyperTerminal" in windows. Select the connected portal number "COM" and set the baud rate as 9600bps, the parity bit as "NONE", the data bit as "8Bit", and the stop bit as "1Bit".

c. You can select the serial output modes according to your own needs. The output modes include 3 types: output by pressing 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 found 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

5 Factory parameter settings

1. Turn off the scale, then hold the three buttons: Unit, Hold and ⏻ at the same time until the screen displays "------"；

2. Press Unit or Hold button to go through the menu；

3. Press ·➛ button to enter the display menu.；

4. After entering the display menu, Press Unit or Hold 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	

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6 Set User Parameter

a) When the scale is off, please press [Unit] button together with the [⏻] 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 [↪] 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 there is not any 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	

7．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 sampling.	1、Load the weight value according to the show value. 2、Load the quantity according to the show value.
AC	The batteries are dead.	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 loadcell or main board.
--L--	Lower limit alarm	1、cancel lower limit alarm
--H--	Upper limit alarm	1、cancel upper limit alarm

8. Maintenance of Scale

In order to keep the scale's normal operating, the indicator and the platform of scale should be kept clean and prevented from corrosion by any foreign substances. If necessary, you should use a piece of cloth with a mild washing agent to clean them. When you don't use the scale, pull out the A/C plug. For long-term storage, please take out the batteries.

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9. Malfunction

Table 5

Phenomenon	Reason	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 weight. Re-calibrate.
False calibration	The calibration weight is not precise.	Use the precise calibration weight.

10. 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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