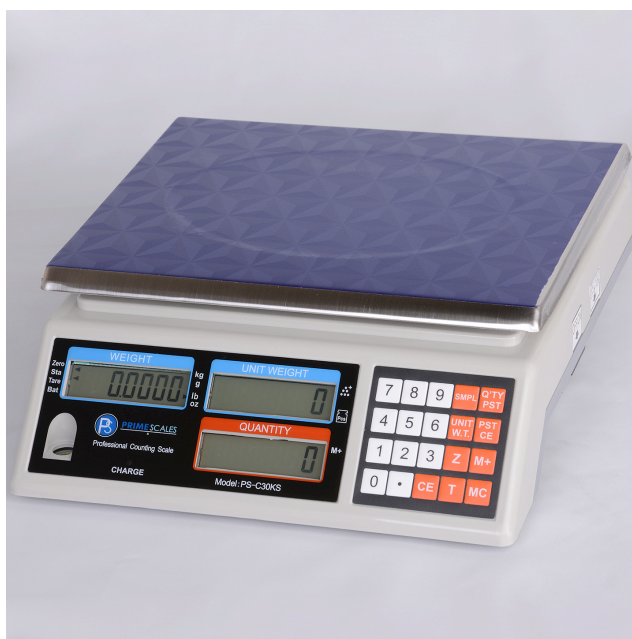




PS-C30KS series

Counting Scales



User Manual

SECTION 1 INTRODUCTION

The PS-C30KS series of scales provides an accurate, fast and versatile series of counting and check-weighing scales.

There are 4 models in this series, with capacities of 3kg, 6kg, 15kg and 30 kg.

They all have stainless steel weighing platforms on an ABS base assembly.

All the keypads are sealed, color coded membrane switches and the displays are large easy-to-read liquid crystal type displays (LCD). The LCD's are supplied with a backlight.

All units include automatic zero tracking, audible alarm for pre-set weights, automatic tare, pre-set tare and an accumulation facility that allows the count to be stored and recalled as an accumulated total.

SECTION 2 SPECIFICATIONS

2.1 QHC plus series

QHC SERIES				
Model #	PS-C30KS-3KG	PS-C30KS-6KG	PS-C30KS-15KG	PS-C30KS-30KG
Maximum Capacity	3kg	6kg	15kg	30kg
Readability	0.1g	0.2g	0.5g	1g
Resolution	1:30000	1:30000	1:30000	1:30000
Tare Range	-3kg	-6kg	-10kg	-30kg
Minimum	1g	2g	4g	10g
Repeatability	0.1g	0.2g	0.5g	1g
Linearity $\pm$	0.1g	0.2g	0.5g	1g
Units of Measure	kg, lb, g, oz			

2.2 Common Specifications

Stabilization Time	2 Seconds typical
Operating Temperature	0°C - 40°C / 32°F - 104°F
Power Supply (external)	120 VAC, 60Hz,
Calibration	External
Internal Counts	1 m
Display	3 x 6 digits LCD digital display, 20mm digits
Balance Housing	ABS Plastic, Stainless Steel platform
Pan Size	12" x 9"
Overall Dimensions (w x d x h)	320 x 340 x 125mm / 12.6 x 13.4 x 4.9"
Gross Weight	4.1kg /9lb
Other Features and Specs	accuracy enhancement for parts counting, internal rechargeable battery (~100 hours operation)

SECTION 3 INSTALLATION

3.1 GENERAL INSTALLATION

The scales should be placed in a location that will not degrade the accuracy.

Avoid extremes of temperature. Do not place in direct sunlight or near air conditioning vents.

Avoid unsuitable surfaces. The table or floor must be rigid and not vibrate. Do not place near vibrating machinery.

Avoid unstable power sources. Do not use near large users of electricity such as welding equipment or large motors.

Avoid high humidity that might cause condensation. Avoid direct contact with water. Do not spray or immerse the scales in water.

Avoid air movement such as from fans or opening doors. Do not place near open windows.

Keep the scale clean.

Do not stack material on the scales when they are not in use.

3.2 INSTALLATION of PS-C30KS SERIES

The PS-C30K Series come with a stainless steel platform packed separately. Place the platform in the locating holes on the top cover. Do not press with excessive force as this could damage the load cell inside.

Level the scale by adjusting the four feet. The scale should be adjusted such that the bubble in the spirit level is in the center of the level and the scale is supported by all four feet.

Attach the main cable to the connector on the bottom of the scale. The power switch is located on the right side of the base facing right.

SECTION 4 KEY DESCRIPTIONS

Keys	Function
CE	Used to clear the unit weight or an erroneous entry.
0~9	Numeric entry keys, used to manually enter a value for tare weights, unit weight and sample size.
SMPL	Used to enter the number of items in a sample.
UNIT W.T.	Used to enter the weight of a sample manually.
CE	Clear the unit weight or sampling
Z	Set the zero point for all subsequent weighing. Zeros the display.
T	Tare and pre-tare function
M+	Add the current count to the accumulator. Up to 99 values or full capacity of the weight display can be added.
MC	Clear the accumulation
QTY PST	Set the checkweighing points and alarm mode
PST CE	Clear the checkweighing setting

SECTION 5 DISPLAYS

5.1 Display map

The scales have three digital displays. The displays show WEIGHT, UNIT WEIGHT And QUANTITY.

5.2 Weight Display

This display indicates the weight on the scale.

5.3 Unit Weight Display

This display indicates the unit weight of a sample. This value is either entered by the user or computed by the scale. The unit of measure is grams on all scales.

5.4 Quantity Display

This display indicates the number of items on the scale or the value of the accumulated count. See OPERATION section.

On the left of the Weigh display there is an LED to indicate the status of battery charging. When the scale is plugged into the mains power the internal battery will be charged.

If the LED is Green the battery has a full charge.

If the LED is Yellow the battery is being charged.

SECTION 6 BASIC OPERATION

6.1 Zeroing The Display

Press the [Z] Key to zero the display when there's no load on the weight pan. If the scale was damaged or exceeded the range of zero, this function is inactive.

6.2 Tare Function

Place the container onto the scale. Press the [T] key. Once the scale stabilizes, it will display the net weight and next to the Tare symbol an icon will appear pointing at it. When Container is removed, the weight will display a negative sign. Press the T key to clear the tare value and it will reset to zero.

The weight of the container is known (pre-set Tare) When the scale is empty press [T] key, The display will show "P-tArE". Enter the weight value of the container, then press [T] key. Now, Pre-set Tare is complete.

When the user mode function for the "Pre-Set tare" is set "on", The scale can perform pre-set tare when there is weight on the scale:

When the load is on the scale. Enter the weight value of the container press [T] Key. The readout will be the net weight. When container is removed from the scale the weight display will show negative sign. Press the [T] key to clear pre-tare value and the weight display will reset to zero.

SECTION 7 PARTS COUNTING

7.1 The unit weight of Object is Unknown

Place a sample quantity of items on the scale. Enter the sample size then press the [SPML] key. Once the scale stabilizes, the count is shown on the quantity display and enters counting mode automatically.

7.2 The Unit Weight of Object is known

Enter known unit weight of the item, Press the [UNIT W.T.] key. The count is Shown on the quantity display and it enters the counting mode automatically.

**The larger sample weight is the more accurate the count will be.

**With both the "unit weight" and "Quantity" displays showing zero, pressing either the [UNIT W.T.] key to get unit weight, is the next sample you place is more than 10% of the last sampling or less than the last sampling present, the scale automatically recalibrates the unit weight. You can set this function on/off in "F2 ARG".

**If the weight and count is known, the scale will re-calculate the weight according to the count shown in the "Quantity" displays when you press the [UNIT W.T.].

7.3 Accumulation

Accumulation can be used up to a total of 99 times before it must be reset. Accumulation display is limited to seven digits maximum.

7.3.1 When the count is shown on the quantity display, Press [M+] key, the quantity display shows "No. XX" XX means the total number of additions. After 2 seconds, the scale will return to counting mode.

2.5.2 Recall the Total Quantity

With M+ display at zero, press M+ key to recall the total count. Press [M+] Key again, it will show the first individual count. Keep pressing [M+] it will show all the individual counts one by one. Press [MC] key to clear the accumulation.

SECTION 8 BATTERY OPERATION

The scales can be operated on the battery if desired. The battery life is approximately 100 hours.

When the battery is low the arrow beside the Bat sign will turn on. The scale will still operate for about 10 hours before it will shut off automatically.

To charge the battery simply plug into the power adapter. The scale does not need to be turned on.

The battery should be charged for 12 hours for full charge.

On the left of Weight display there is an LED to indicate the status of battery charging. When the scale is plugged into the mains power the internal battery is being charged.

If the LED is Green the battery has a full charge.

If the LED is Yellow the battery is being charged.

SECTION 9 CHECKWEIGHING SETTING

In the weighing mode, press [QTY PST] key to enter checkweighing setting.

The left window will show LIMOF and the middle window will show Count or Weight, which allows you to select the checkweighing based on Count or Weight. Switch the Count or Weight by pressing [M+] key then press [QTY PST] key to move on.

The next parameter is CHLMOD, which means how do you want the scale to set alarm. You can see H and L on the middle screen. Press [M+] key you will find some dashes appearing. The H stands for High Limit, the L stands for Low Limit and the dash stands for the alarm. Select the way of the alarm you like then press [QTY PST] key to move on.

The next parameter is LIM-HI, which is the high limit setting. Type in the number and hit [QTY PST] key to move on.

The next parameter is LIM-LO, which is the low limit setting. Type in the number and hit [QTY PST] key to exit the Checkweighing Setting.

SECTION 10 PARAMETER SETTING

Your scale has two sets of parameters P1 and P2.

P1 is the setting for communication, which is not available on your scale by default. If you purchased a customized scale with RS-232 port, please contact us for service manual of the communication setting.

P2 is the function setting. To enter the function setting, press both [CE] and [MC] keys during the weighing mode. The screen will show P1 TRA. Press [QTY PST] key to switch to P2 FUN:

The first parameter is F1 BL, which is the Back Light setting. It has 3 modes: Auto, Off and On. In the Auto mode, the back light will turn off one minute after the scale is idle to save power. It will come back on automatically when the readout changes. Off mode keeps the back light off. On mode keeps the back light always on. Switch between the 3 modes by pressing [M+] key then press [MC] key to move on. * This function can also be set by pressing and holding the [CE] key for 3 seconds in the weighing mode.

The second parameter is F2 ARG, which is the Auto Average function. With Auto Average on, the scale will re-sample automatically during the counting when the counting quantity is larger than the sampling quantity. With this function, the scale will increase its accuracy in counting. Switch between ON or OFF by pressing [M+] key then press [MC] key to move on.

The next parameter is CST, which means the requirement of stable status for Zero, Tare and Total function. Switch between ON or OFF by pressing [M+] key then press [MC] key to move on.

The next parameter is MAE, which means the requirement of zeroing status for accumulation.

Switch between ON or OFF by pressing [M+] key then press [MC] key to move on.

The next parameter is PTE, which means if you allow the scale to set the pre-tare function with the load on the scale. Please refer to Section 7 for how to use this function. Switch between ON or OFF by pressing [M+] key then press [MC] key to move on.

The next parameter is UNT, which means weighing unit. Switch among kg, g, lb and oz by pressing [M+] key then press [MC] key to move on.

The next parameter is FIL, which means the filtering speed. The smaller number means faster weighing speed but lower stability. Vice versa. Switch among 0,1,2,3 by pressing [M+] key then press [MC] key to move on.

The next parameter is ZEO, which means the zero range. The smaller number means smaller zero range. Vice versa. Switch among 0~8 by pressing [M+] key then press [MC] key to move on.

Press PST CE to exit the parameter setting.

SECTION 11 CALIBRATION

This scale can ONLY be calibrated in kg.

Turn of the scale.

Press and hold [QTY PST] and turn the scale on. The Count window will show CAL. Wait until "0" is shown on the Unit Weight window.

Place a kg weight on the scale, then type in the value in kg. The Unit Weight window will show the number in kg.

Press [QTY PST] key and the scale will go back to the weighing mode automatically.

Calibration is complete.

We strongly recommend having a Prime Scales authorized dealer to calibrate the scale. Please do NOT try to calibrate the scale without a known kg weight. Depending on the usage, you need to calibrate the scale every 6-12 months.