



# COUNTING SCALE CSQ

# User Manual

VALUE EACH GRAM  
**HiWEIGH**

## Important Safety Information

**READ ALL INSTRUCTIONS BEFORE USING SCALES TO ENSURE MAXIMUM SAFETY, BEST PERFORMANCE, AND TO GAIN KNOWLEDGE OF OUR SCALE, IT IS ESSENTIAL THAT YOU OR ANY OTHER OPERATOR OF THE SCALE READ AND UNDERSTAND THE CONTENTS OF THIS MANUAL BEFORE OPERATING THE DEVICE.**

When using an electrical device, basic precautions should always be followed, including the following:

1. Please use only the original power cord or DC adapter supplied with the scale. Other cords or adapters may damage the scale.
2. DC adaptor is used to charge the battery, and scale can operate without DC adaptor.
3. Avoid using long power extension cords – this may cause interference
4. Do not use on surfaces or in areas where vibration, air movement or temperature change. Do not place in direct sunlight or near air conditioning vents.
5. Avoid high humidity (greater than 80%) that might cause condensation, and keep away from direct contact with water and other corrosive chemicals.
6. Static may influence the weighing result. To reduce the static, wipe the pan and scale with anti-static wipes.
7. Don't impact or drop heavy objects on the scale – this may affect accuracy, or cause damage. Do not stack material on the scale when it is not in use.
8. Battery should be removed if the scale is not used for a long period of time. Battery should be recharged every 3 months.
9. Place items to be weighed as close to center of the pan as possible
10. Only use fingers to operate the keypad. Do not press with hard or sharp objects.

## **Warranty**

We offers one-year limited warranty (parts and labor) for the components failed due to defects in materials or workmanship. Warranty starts from the date of delivery.

During the warranty period, should any repairs be necessary, the purchaser must inform its supplier or Moorange Electronics. The company or its authorized technician reserves the right to repair or replace the components at any of its workshops depending on the severity of the problems. However, any freight involved in sending the faulty units or parts to the service center should be borne by the purchaser.

The warranty will cease to operate if the equipment is not returned in the original packaging and with correct documentation for a claim to be processed. All claims are at the sole discretion of Moorange Electronics.

This warranty does not cover equipment where defects or poor performance is due to misuse, accidental damage, exposure to radioactive or corrosive materials, negligence, faulty installation, unauthorized modifications or attempted repair or failure to observe the requirements and recommendations as given in this User Manual. Additionally, rechargeable batteries (where supplied) are not covered under warranty.

Repairs carried out under the warranty does not extend the warranty period. Components removed during the warranty repairs become the company property.

## **What is inside Box**

AC/DC adaptor (input: 120 VAC, output: 10 VDC, Class 2 power unit)

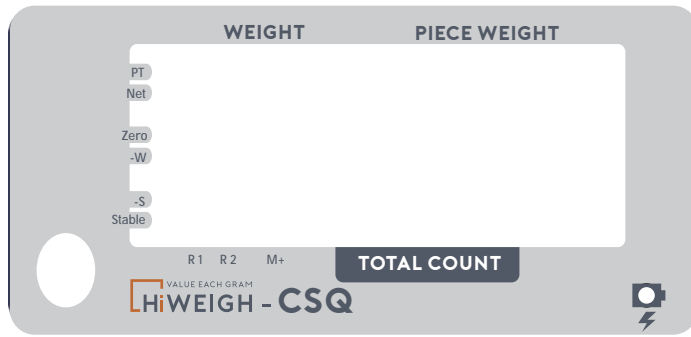
Q1C scale, with adhesive film covered platter. Two parts are separated to protect the load cell during transportation.

Two wire seals. The wire seal is used usually by the inspector of Department of Weights and Measures or authorized dealers. The wire seal is threaded through a metal rode that protrudes through the bottom of the device and through a hole in the scale base adjacent to the metal rode.

## **Set up the Scale**

Place the scale on a stable, level surface out of the way of air currents. The scale must be level during use. Adjust the feet and use the integrated bubble at the front of the scale to achieve level. Be sure that scale does not rock back and forth. Ensure no weight is on the pan when turning on the scale. Scale is operated using the rechargeable battery. AC adaptor is used to charge the battery, and scale can operate without DC adaptor. Note the maximum capacity of the scale.

## LCD Display



Size: 77 mm x 27 mm X 2.8 mm

Font height: 16 mm

## Control Panel



## KEY DESCRIPTION for MODEL CSQ



Press and hold this key for 2 seconds to turn off the scale.



Press this key briefly to turn on the scale. A self-test will run on the display and then stabilize showing zero



Select the desired weight unit in setup mode.



Reset the weight to zero "0", but the display value has to be lesser than  $\pm 2\%$  of maximum capacity. In the setup mode, it means moving up.



Tare key: To subtract the weight of container (Max. capacity tare)  
 Preset Tare: Press Tare key with no object on the pan. Use 0 ~ 9 number keys to enter the preset tare weight value. Press the tare key to confirm.  
 Clear Preset Tare: Press the Tare key again to clear the preset tare with no object on the pan.  
 In the setup mode, it means moving up.



Manually set up piece weight. Use 0~9 number key and decimal **【.】** key to enter piece weight, and then press **【count】** key to initiate counting.  
 Weight window displays total weight, piece weight window displays piece weight, and total count window displays the counts.



When weight window displays weight, use **【0~9】** number keys to set sample size and press **【g/N】** key to initiate the calculation of piece weight.



**Set count alarm:** Press this key when total count window displays pieces to set the alarm. The current count is set as the alarm count. When the counting number is greater than this set number, PIECE WEIGHT window shows **-g hi -- --** and the buzzer starts to alarm.

**Clear count alarm:** press and hold the **【↑ ↓】** key until buzzer beeps twice. Set point will auto cancel when turn off the scale.

M+

Accumulate weight and count. The piece weight window briefly shows **-r01-- --**. The scale can accumulation up to 99 times. In the setup mode, it means enter (confirmation).

MR

Display total accumulated count, total accumulated weight, and total count. Clear accumulation: press and hold the **【MR】** key until buzzer beeps twice, then clear accumulation

CE

Clear the piece weight window. In the setup mode, it means exit.

## User Functions (UF1 -- UF9)

At weighing mode, press and hold the **【M+】** key, then press the **【T】** key, weight window will show UF-1, press **【→0←】** or **【T】** key to cycle select UF-1~UF-9. Please noted that not all functions are available for end users, especially when the scale is sealed. Some functions are locked on purpose due to the NTEP regulation.

Table: List of User Functions

Function	LCD Display	Description
UF-1	Internal Values at span and zero; battery voltage	Press <b>【M+】</b> key to enter, and press to exit. <pre>1 3 5 2 8 8  bat  6 . 3                     4 5 3 6 4 7</pre> Weight window displays internal value (span), piece weight window displays battery actual voltage, and total window displays internal value at zero.
UF-2	Piece weight auto-average	Press <b>【M+】</b> key to enter, <pre>A a u g  1</pre> AAVG 0: Disable AAVG 1: Enable (factory default). Use 0 and k keys to enable or disable piece weight auto-average. This function is specially designed for counting scale to reduce or minimize counting error and therefore resulting more accurate counts.
UF-3	Auto power-off	Press <b>【M+】</b> key to enter. <pre>A o f f 0 0</pre> Press <b>【T】</b> or <b>【→0←】</b> to move cursor, use 0~9 keys to enter auto power-off time in minutes. Press <b>【M+】</b> to confirm or press <b>【C】</b> key to exit.
UF-4	Backlight	Press <b>【M+】</b> key to enter. Press 0~2 keys to select <pre>L i t   0 : auto light up L i t   1 : backlight on L i t   2 : backlight off</pre> Press <b>【M+】</b> key to confirm, and press <b>【C】</b> key to exit.
UF-5	Accumulation	press <b>【M+】</b> to enter <pre>A C C U 0 0 (factory default)           A B</pre>

		<p>A 0: Stable required          1: stable not required</p> <p>B: 0: The weight has to return to zero to accept new accumulation          1: No tare weight to accept next accumulation</p>
UF-6	RS-232 output	<p>Press <b>【M+】</b> key to enter. Press <b>【T】</b> or <b>【→0←】</b> to move cursor,  <b>2 3 2 3 0</b> (factory default)          AB</p> <p>A: 0 Baud rate 1200          1 Baud rate 2400          2 Baud rate 4800          3 Baud rate 9600          4 Baud rate 19200</p> <p>B: 0 RS232 output disabled          1 Manual output – Format 2          2 Stabel output – Format 1</p>
UF-7	A/D update rate	<p>Press <b>【M+】</b> key to enter, and use 0-2 keys to enter ADC speed  <b>S P E E d 0</b> : low speed (factory default, 7.5 Hz)  <b>S P E E d 1</b> : standard speed, 15 Hz  <b>S P E E d 2</b> : High speed, 30 Hz</p> <p>Press <b>【M+】</b> key to confirm, and press <b>【C】</b> key to exit.</p>
UF-8	Display condition at zero	<p>Press <b>【M+】</b> key to enter. Use 0~5 keys to enter condition at zero.  <b>Z P 1</b> : 1 division not to display at zero (factory default)  <b>Z P 2</b> : 2 divisions not to display at zero  <b>Z P 3</b> : 3 divisions not to display at zero  <b>Z P 4</b> : 4 divisions not to display at zero  <b>Z P 5</b> : 5 divisions not to display at zero</p> <p>Press <b>【M+】</b> key to confirm, press <b>【C】</b> key to exit.</p>

## Standard Calibrations

For NTEP certified scale, these functions are not available. At weighing mode, press and hold the **【→0←】** key, then press the **【M+】** key. LCD display ECF-1. Press **【→0←】** key or **【T】** key to select ECF-1~ECF-3

### ECF-1 Weight calibration

Press the **【M+】** key to enter,

```
0 . 0 0 0
Lb      7 9 2 8 9
```

LCD displays internal value, press the **【M+】** key to calibration the zero weight after stable. Next use 0~9 keys to enter the weight to be calibrated, and place the required weight mass onto the scale,

```
6 . 0 0 0
Lb      1 3 9 7 5 6
```

press **【M+】** key to confirm the calibration procedure completed, press **【C】** key return to previous setup mode

### ECF-2 Zero calibration

Press the **【M+】** key to enter,

```
0 . 0 0 0
Lb      7 9 2 8 9
```

display internal value at zero weight after stable. Press the **【M+】** key to calibrate/confirm. Press **【C】** key return to previous setup mode



### ECF-3 SPAN calibration

Press the **【M+】** key to enter.

```
6 . 0 0 0
Lb      1 3 9 7 5 6
```

Use 0~9 keys to enter the weight to be calibrated. Place the required weight mass onto the scale, Place the required weight mass onto the scale, press **【M+】** key to confirm the calibration procedure completed, press **【C】** key return to previous setup mode

## Error Messages and Troubleshooting

Error Display	Meaning	Troubleshooting
h h h h h h	Overload	Weight on pan exceeds maximum capacity
L L L L L L	Weight is too low	Weight is too low at the negative
E r r n	Weight unstable	Vibration or varying load on the pan during switch-on
E r r H	Initial zero too high	Scale turned on with weight > 10% of maximum capacity already on the pan
E r r L	Initial zero too low	Scale turned on with upward force > 10% of maximum capacity acting on the pan
 Battery symbol visible	Battery voltage is lower than 5.6 V	Battery needs charging. Connect to main adaptor. Press <b>【 T 】</b> and <b>【 6 】</b> together to view battery voltage. Press <b>【 C 】</b> to return to weighing mode
 Battery symbol flashing	Battery voltage is lower than 5.5 V	Battery needs charging. Connect to main adaptor
Scale automatically shuts off	Battery voltage is lower than 5.4 V	Battery needs charging. Connect main adaptor

VALUE EACH GRAM  
**HiWEIGH**



v.202004

# User Manual

# CSQ