Installation and Operating Instructions

EZ-60 Coin Counting Scale

The Perfect Solution to Fast & Easy Coin Counting

- Retail Stores
- Laundromats
- Arcades
- Vending Routes
- Car Washes

129 Cramer Road, Jewett, New York 12444 USA
800-831-4175 • 518-734-6514 • Fax: 518-734-6497
Email: info@QTechScales.com • Web Site: www.QTechScales.com

Copies of this manual are available in Adobe Acrobat PDF format on our website.
Remove the contents from the carton which includes the scale, platter, and the AC adaptor. Install the platter by inserting the pins on the underside into the holes on the top of the scale console. The sloped edge of the platter should face forward. If any of the pins are bent, contact QTech; inaccurate counts may result.

The scale is battery powered with the AC adapter functioning as the charger. Since the battery ships with only a partial charge, allow the unit to charge for at least 10 minutes before initial use. (A full charge requires 8 to 12 hours.) When charging, first insert the plug into the jack on the left side of the unit and then plug the transformer into a standard 110/120 volt AC outlet. The power indicator light on the scale will glow red when recharging. As the charge approaches completion the light will change to yellow and finally green, indicating a full charge. The scale power switch need not be in the “on” position during charging.

A full battery will hold a charge for about two months providing approximately 200 hours of continuous use. The scale will require recharging when the battery symbol appears in the lower right corner of the WEIGHT window. Since the battery can be damaged if it is discharged too much, the scale will automatically power off if the battery is not recharged within 20 hours of the first appearance of the warning symbol.

Locate your scale on a solid, level work surface free from air drafts and vibrations. Tighten the two black disks of the leveling feet together, and then hand tighten them as a unit into the base. If the scale is not steady, loosen and extend only one of the feet to eliminate any imbalance. While precise leveling of the scale is not required, you may get inaccurate results if all four adjustable feet are not in contact with the work surface, or are extended too far.

**For Consistent and Accurate Results:**
- Avoid placement near drafts, windows, fans, or air conditioning and heating vents. Do not leave anything on the scale platter when not in use.
- Use a surge protector with the AC adaptor to minimize the effects of voltage spikes.
- Do not fill containers with coins or tokens while on the scale platter. Always fill off the platter to avoid damage to the sensitive scale load cell.
- To avoid electronic interference do not operate cell phones within 6 feet of the scale.

**Important:** Save the shipping carton and all packing materials should it be necessary to return the unit to the factory for service.
FUNCTION: How to Count Coins

The EZ-60 counts coins by comparing the weight of each coin denomination (as specified by the US Mint) with the total weight on the scale. Because the weight of coins is not consistent due to minting variations and wear, the accuracy of the EZ-60 is plus or minus one or two coins per thousand.

Here are the pre-programmed US coin denominations and their corresponding entry keys:

<table>
<thead>
<tr>
<th>Denomination</th>
<th>Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Dollar Coin</td>
<td>1</td>
</tr>
<tr>
<td>50 Cent Piece</td>
<td>2</td>
</tr>
<tr>
<td>Quarter</td>
<td>3</td>
</tr>
<tr>
<td>Dime</td>
<td>4</td>
</tr>
<tr>
<td>Nickel</td>
<td>5</td>
</tr>
<tr>
<td>Penny</td>
<td>6</td>
</tr>
</tbody>
</table>

The following instructions are for quarters, but all other denominations are counted in the same manner. The only difference is the key selection as noted above.

Turn the scale on by pressing the ON/OFF rocker switch on the left side of the scale. During initialization all the display windows will temporarily show a series of alphanumeric digits. After about five seconds the DENOMINATION, QUANTITY, and TOTAL windows will each display “0”. The scale is now ready for use.

Press the number 3 key to select quarters, and “0.25” will appear in the DENOMINATION window.

Since coins are most easily counted in a bucket or tray, the first step is to cancel-out, or “tare”, the weight of the container. Place an empty container on the scale and press the T (tare) key; the weight window will now display “0”.

**Remove the empty tared container from the scale** and fill with coins. Now place the filled container back on the scale and the count will be calculated and displayed. If you need to add a few more coins to the container you may do so while it is on the scale, but the container should be initially filled off of the scale to avoid damage to the sensitive load cell.

Coins added to the scale will be incrementally displayed until the scale’s 60 pound maximum weight capacity has been reached. If you exceed the weight capacity the WEIGHT window will display the letters “OL” and an audible chirp will be heard. Remove some coins until the quantity displays once again.

**NOTE:** When you remove a container from the scale dashes will display in the QUANTITY and TOTAL windows. Should you need to cancel a tare weight, remove the container from the scale platter and press the Z Key.

Continued...
SUBTOTALING (Accumulation Memory):

Although the EZ-60’s count capacity is limited to the scale’s maximum weight capacity of 60 pounds, it has the ability to maintain a running subtotal up to a maximum of 999,999 coins. The scale accomplishes this by adding the count of each new container of coins to the total of the previous ones. Here are step-by-step instructions, again using quarters as an example:

<table>
<thead>
<tr>
<th>Function</th>
<th>Procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. - Start the Subtotal</td>
<td>Place the first container of coins to be counted on the scale. After the quantity is displayed in the QUANTITY window, press the <strong>M+</strong> key. The scale will display the total number of quarters in the QUANTITY window and will show the number of newly added coins in the DENOMINATION window. Press the <strong>3</strong> key to add the count to the running subtotal.</td>
</tr>
<tr>
<td>2. - Add to the Subtotal</td>
<td>Remove the first container and replace with the next one. Press the <strong>M+</strong> key. The value displayed in the QUANTITY window will be the accumulated subtotal (container 1 + container 2). This value will display for about 3 seconds and then revert to the quantity on the scale at the present time. Proceed in this fashion with each additional lot.</td>
</tr>
<tr>
<td>3. - Recall the Subtotal</td>
<td>Although the subtotal quantity will display for only 3 seconds, you can recall it at any time. Remove everything from the scale and press the <strong>TOTAL</strong> key. Both the subtotal and the most recent count will display again for 3 seconds.</td>
</tr>
<tr>
<td>4. - Clear the Subtotal</td>
<td>Remove everything from the scale and press the <strong>MC</strong> key.</td>
</tr>
</tbody>
</table>

**NOTE:** When in Subtotaling Mode the scale will only accept one “press” of the **M+** key per batch. This eliminates any chance of duplicating a count by inadvertently pressing the key more than once while the same container of coins are on the scale.

**FUNCTION:** Programming the Custom Keys

The number 7, 8, and 9 keys are user-programmable. You may assign them to count tokens or other types of coins. Here is the procedure:

1 - Remove everything from the scale, turn it on, and wait until the initialization is complete; the DENOMINATION, QUANTITY, and TOTAL windows will each display “0”.

2 - Press COIN CAL key and immediately press the TOKEN key **4 times**; “AAAA” will appear in the QUANTITY Window.

3 - Press COIN CAL key and then press either the **7**, **8**, or **9** key (your choice).

*Continued...*
4 - Press COIN CAL key and the DENOMINATION window will flash, “0.000”

5 - Using the numeric keys, enter the gram weight of an individual token accurate to four decimal places. As you key in the numbers they will appear in the DENOMINATION window from right to left. A Gold token typically weighs 5.085 grams and a Silver 5.550 grams, but you may need to determine the weight of your particular token through the use of another scale of lower weight capacity and higher resolution.

Note: The scale does not have a decimal key. Always enter 4 digits total, using trailing zeros if necessary.

6 - Press the COIN CAL key. The word, “SAVE” will appear in the DENOMINATION window for one second. Then the number (weight) you have keyed in will return to the screen. Turn the scale off, wait a moment, and then turn it back on.

7 - Press the 7, 8, or 9 key as chosen in step 1, and place a hand counted or known quantity of at least 200 tokens onto the scale. If the resulting count displayed by the scale is less than the known quantity, you will need to repeat the steps above while keying in a slightly smaller 4 digit number. If the count is more than the known quantity, enter a larger number.

The token keys only have the ability to display the quantity; the numbers displayed in the DENOMINATION and VALUE windows are arbitrary and cannot be changed or utilized.

SUGGESTIONS: Tips and Troubleshooting

- If you should inadvertently press the wrong key and the scale will not respond, turn the scale off and back on again to clear the problem.

- Purchase a quality surge protector for your scale to avoid damage from electrical surges and spikes. Do not operate cell phones within 6 feet of the scale to avoid interference.

- Leaving the scale plugged-in at the outlet (but turned off) will keep the circuitry warm and will avoid inaccurate counts due to "electronic drift".

Troubleshooting - Incorrect Counts:

When used properly, your QTech EZ-60 scale will provide accurate counts, plus-or-minus one to four coins or tokens per thousand. Incorrect counts are most often the result of one or more of the following factors:

Lack of Uniformity of the Item Being Counted: The scale is dependent on the coins or tokens being counted to be uniform; a mixture of different coins and/or tokens will result in inaccurate counts.
Operating the Scale in a Draft: An air draft can affect the scale’s accuracy. Avoid using the scale near any source of moving air: fans, air conditioners, heaters, or a draft from an open window or door.

A Tare Weight is present: The display windows should read “0” before use. If you used the tare feature, there will be a negative count (weight) stored in the scale’s memory. To delete the tare weight remove the container from the scale platter and press the \textbf{Z} Key. Note that you cannot mix different containers used to count coins unless they weigh the same.

High or low Altitude: Altitude variations above or below sea level can affect the accuracy of your counts. Call us and we will provide a technique for improved results.

Require Support?
Call: 1-800-831-4175
Other Counting Solutions from QTech

**X-RES**
Low-cost, with High Resolution for Small Parts Counting, Postal Verification, and Ink Mixing

<table>
<thead>
<tr>
<th>Capacities</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 lbs. - X-RES-3</td>
<td>1 Part in 300,000</td>
</tr>
<tr>
<td>12 lbs. - X-RES-12</td>
<td></td>
</tr>
</tbody>
</table>

**QCS Series**
Our Most Popular and Versatile Model For Every Counting Application

<table>
<thead>
<tr>
<th>Capacities</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>15 lbs. - QCS-15</td>
<td></td>
</tr>
<tr>
<td>3 lbs. - QCS-3</td>
<td>30 lbs. - QCS-30</td>
</tr>
<tr>
<td>6 lbs. - QCS-6</td>
<td>65 lbs. - QCS-65</td>
</tr>
</tbody>
</table>

**G Series**
This moderately priced scale is perfect for counting larger, heavier items

<table>
<thead>
<tr>
<th>Capacities</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>30 lbs. - G-30</td>
<td></td>
</tr>
<tr>
<td>60 lbs. - G-60</td>
<td></td>
</tr>
</tbody>
</table>

**EZ-60**
For Fast, One-Button Counting of all US Coins as well as Tokens

<table>
<thead>
<tr>
<th>Capacity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>60 lbs. - EZ-60</td>
<td></td>
</tr>
</tbody>
</table>

**QCS-150**
High Capacity, Heavy-Duty Counting Scale with Detachable Console

<table>
<thead>
<tr>
<th>Capacity</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>150 lbs. - QCS-150</td>
<td></td>
</tr>
</tbody>
</table>
About QTech Business Products...

QTech Business Products is dedicated to providing cost effective solutions to your counting, ink mixing, weighing, and shipping scale needs. Our goal is to provide quality products and exceptional service and support.

At QTech you can always expect:

- **90 DAY** money back guarantee
- **A Full 3-YEAR** Product Warranty
- **TOLL-FREE** phone technical support at no charge for as long as you own the scale
- **PROFESSIONAL**, courteous, and timely response to your inquiries, questions, or concerns

**Customer Satisfaction is the Driving Force at QTech**