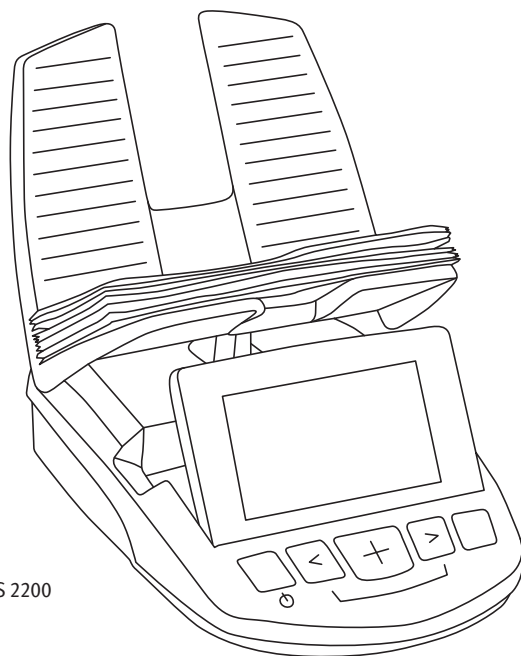


RS 2200 Money Counting Scale



RS 2200

Introduction

Thank you for purchasing the ratiotec RS 2200 Money Counting Scale. Designed to count by weight, the RS 2200 counts coins, coin rolls and bills - counting a cash drawer or till in a matter of minutes.

To get the most out of your ratiotec RS 2200 Money Counting Scale, we advise you read the entire quick user guide for best use and maintenance instructions.

Safety Precautions

When using the RS 2200, follow these basic safety precautions to reduce the risk of fire, electric shock, injury or damage to the device:

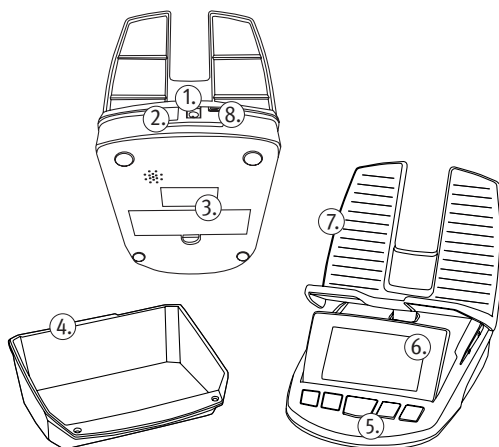
- Place the machine on a flat and stable surface
- Do not place the machine where it may be exposed to liquids or high humidity
- Do not place the machine in dusty or dirty environments
- Do not place the machine in direct sunlight, near heat sources or air conditioners
- Do not use the machine outdoors
- Only use the power supply provided
- Always disconnect the power supply before performing maintenance
- When not in use for long periods of time, disconnect the power supply
- To reduce the risk of electric shock, never disassemble the machine
- If service or repair work is required, contact a qualified technician

Package Contents

- RS 2200 money counting scale
- 500 g reference weight
- Power supply
- User manual
- Weighing platform
- Standard coin cup

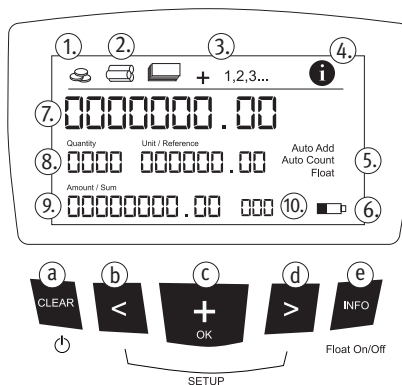
Front and Rear View

1. Power input
2. Printer port (RTP 300 report printer sold separately)
3. Battery Compartment
4. Coin cup
5. Keypad
6. Display
7. Weighing platform
8. Update port



Display and Keypad

1. LCD display
2. Pictogram for coins, coin rolls and paper currency
3. Pictogram + (addition to total amount) and 1, 2, 3 (reference weighing)
4. Pictogram information overview
5. Active and inactive functions
6. Battery status
7. Sum of all items currently being counted
8. Quantity of all items currently being counted
9. Total sum of all items being counted
10. Currency



- a. Switches the money scale **ON/OFF** (hold for 2 seconds); quits the **SETUP** menu (hold for 2 seconds); resets counting results to zero
- b. Selects the coin, coin roll or bill denomination to weigh; selects the **SETUP** menu item; switches scale functions **ON/OFF**; enter the **SETUP** menu in combination with d (hold for 2 seconds).
- c. Adds the current total to the total amount; confirms a menu input; prints a receipt with connected printer (hold for 2 seconds).
- d. Selects the coin, coin roll or bill denomination to weigh; selects the **SETUP** menu item; switches scale functions **ON/OFF**; enter the **SETUP** menu in combination with b (hold for 2 seconds).
- e. Changes from counting display to information display; activates the Reference Weighing function (hold for 2 seconds).

Getting Started

1. Place the machine on a flat and stable surface
2. Tilt display to desired angle
3. Connect the weighing platform
4. Connect the power supply to the machine, and then an outlet
5. Hold the Clear button for two seconds to turn the unit on
6. Language: use < and > to scroll through the language options, press **OK** to select
7. Calibration: place the 500 g reference weight on the weighing platform, press **OK**
8. The unit will turn itself off after initial calibration
9. Remove the reference weight and hold the Clear button for two seconds to turn the unit on
10. The unit will perform a short self-test before displaying the default count screen

Counting A Cash Drawer

Before powering on the RS 2200, make sure that nothing is on the weighing platform. Hold the **CLEAR** button for two seconds to turn the unit on.

The RS 2200 will perform a short self-test before displaying the default count screen and standard counting mode is activated. The counting process always starts with the lowest denomination of the selected currency. The value of the denomination being weighed appears in the Unit/Reference field. Weigh only the denomination that appears on the display.

In the case of US currency, the first denomination counted is pennies. Place the empty coin cup on the weighing platform, then place your loose pennies directly into the cup.

Once the RS 2200 registers the count and value of the pennies, remove the coin cup from the weighing platform and empty it. The scale will automatically advance to the next denomination. Repeat the process until all coin denominations have been counted.

After the last coin denomination has been counted, the RS 2200 will start with the lowest denomination bill. In the case of US currency, the \$1 bill. Remove the coin cup from the weighing platform before counting any bills.

Place your \$1 bills directly on to the platform, in small batches of no more than 10 to 15 bills at a time.

If you place too many bills on the scale at once, the message **OVERLOAD REMOVE SOME BILLS** will appear. Remove some bills from the weighing platform until the error disappears. You don't need to remove all the bills, just enough to correct the error. The RS 2200 can weigh up to 200 bills per denomination.

Once the count and value of the \$1 bills have been registered, remove the entire stack of bills from the weighing platform. The RS 2200 will automatically move to the next denomination. Repeat the process until all bill denominations have been counted.

The total value of the counted coins and bills will be displayed in the Amount/Sum area of the display. To see a display of the quantity and total of each denomination counted, press < or > to scroll through the counting information.

Your counting results can be printed with the optional RTP 300 report printer. With the printer attached and powered on, press and hold the + button on the RS 2200 until the word **PRINTING** appears on the display.

To clear your counting results and start a new count, press the **CLEAR** button. Counting results can not be retrieved once they have been cleared.

NOTE: The RS 2200 does not count \$0.50 coins, \$1 coins, or \$2 bills.

NOTE: If your till or register has removable coin cups, you can place the filled cups directly on the scale for counting. A prior calibration of the cups is required before using your own cups. See the Setup Menu section below.

NOTE: Coin rolls can be added to the counting sequence by activating this feature in the Setup Menu.

Setup Menu and Features

The RS 2200's many options and features can be accessed via the Setup Menu. Enter the Setup Menu by pressing and holding down the < and > keys simultaneously, until the RS 2200 beeps. Scroll through the options with the < and > keys and interact with the selected option by pressing the **OK** button. To exit the Setup Menu, press and hold the **CLEAR** key for two seconds.

FLOAT: The **FLOAT** function allows you to leave a set amount of cash in the till for the next day or user. To activate or adjust **FLOAT**, press **OK** when **FLOAT** is shown in the Setup Menu. Use < or > to adjust the exact float amount needed or to turn the function off.

You can choose any **FLOAT** amount between \$0 and \$500, in \$5 intervals. The default **FLOAT** amount is \$0. Save the desired amount by pressing **OK**.

When the **FLOAT** function is activated, the counting process starts with a negative value, which is the chosen **FLOAT** total (if the **FLOAT** is \$50, the count will start at -\$50). The weighed coins and bills are added to the negative start value. When the amount of money in the till reaches or exceeds the **FLOAT** total, an audible tone is emitted to signal that the till has reached the **FLOAT** total.

Activating the **FLOAT** function disables the use of **REFERENCE** weighing.

PACKAGES: The **PACKAGES** function allows you to activate coin roll counting and set up the weight of your desired coin rolls or banknote bundles. The standard weight of USD, EUR and GBP coin rolls is already saved.

To configure or change **PACKAGES**, press OK when **PACKAGES** is shown in the Setup Menu. Use < or > to choose OFF, CONFIGURE, SEPARATE or ON. The default setting is OFF.

Setting **PACKAGES** to OFF will skip the coin roll/strapped bills mode in regular counting.

Choose **CONFIGURE** to set the quantity of coins and the weight of the wrapper or coin bag. Go to “Unit/Reference” to select the desired coin denomination and confirm entry with **OK**. Press < or > to select the amount of coins that will be in the package (Quantity) and confirm with **OK**. The weight of an empty standard paper coin roll (for USD coins) will be automatically displayed. Confirm indicated weight with **OK**. Press < or > if you would like to indicate a different weight for your paper roll/ bag. Place the filled roll or bag on the scale, listen for the weight to register and confirm by pushing **OK**. Up to 255 pieces can be put in the package; setup is done in steps of 5 pieces.

For bill bundles and straps: Select the desired banknote value and the quantity of banknotes in a bundle as indicated above. When “**REFERENCE**” is displayed, place the desired strapped bills on the scale and confirm entry with **OK**.

Choose **SEPARATE** to setup the print receipt so it indicates coin rolls/ bags and banknote bundles separately from coins and banknotes. Activate this function by pressing **OK**. The **PACKAGES** function is then activated and the results from the counted coin rolls/bags and strapped bills bundles will also be indicated in the print receipt (apart from coins and banknotes).

Choose **ON** to activate the coin roll counting function. When this function is activated, the coin roll symbol will show on the display after all denominations of loose coins are counted. Remove the coin cup and begin placing coin rolls on the weighing platform, one roll at a time. Wait for the scale to register each roll and emit an audible beep before placing the next roll on the scale.

When you're done counting coin rolls, remove them all from the scale in one movement. Removing the rolls one at a time will create an error and force you to count the rolls again.

The RS 2200 is designed to count coins packaged in standard coin wraps. If a roll has too many or too few coins, is not packaged in a standard coin wrap, or has tape or any other debris attached to it, the message **SUSPECT CHECK ROLL** will appear on the screen. Remove the non-conforming roll and correct the error.

Only penny, nickel, dime, and quarter rolls are supported.

To deactivate the **SEPARATE** function, go to **PACKAGES** and select **ON**. To deactivate the **PACKAGES** function, go to **PACKAGES** and select **OFF**.

ORDER: The RS 2200 can count in ascending order, counting up from pennies to \$100 bills, or in descending order, counting down from \$100 bills to pennies. **ASCENDING** is the default setting.

To change the counting order, press **OK** when **ORDER** is shown in the Setup Menu. Press **<** or **>** to choose **ASCENDING** or **DESCENDING**. Press **OK** to confirm your choice.

SET CUP WT: The **SET CUP WT** function allows you to set the weight for the default counting cup and/or the cups from your register. The RS 2200 allows you to store the weights of up to 8 different cups.

To change or configure **SET CUP WT**, press **OK** when **SET CUP WT** is shown in the Setup Menu. The scale will prompt you to **CHOOSE CUP**. Press **OK** to choose **ALL** cups if all of your cups are exactly the same weight, or press **<** or **>** to weigh a specific cup (CUP 1, CUP 2... CUP 8). Press **OK**. The Scale prompts you to **PLACE CUP**. Place the cup on the weighing platform. Press **OK** to save cup. To set the cup weight of an additional cup, you'll need to repeat this **CHOOSE CUP** process.

To exit the **SET CUP WT** menu, press **CLEAR**.

REFERENCE: The **REFERENCE** function allows you to set the reference weight of non-money items, allowing you to count tickets, small hardware pieces, coupons, vouchers, etc.

To set the **REFERENCE** weight, press **OK** when **REFERENCE** is shown in the Setup Menu. Place 20 items of the object to be counted directly on the weighing platform. An audible tone will emit from the scale confirming the items were counted successfully. Press **OK** to save the reference weight.

To use **REFERENCE** weighing, press and hold **INFO** while at the default count screen (**REFERENCE** weighing will automatically deactivate the **FLOAT** function). Place a number of the **REFERENCE** weight items on the weighing platform. The total weight, the number of pieces counted, and the reference weight of the selected item is displayed.

Exit the **REFERENCE** weighing mode by pressing and holding **INFO**.

CALIBRATE: Use the **CALIBRATE** function if your RS 2200 scale has been moved; your location has had a change in humidity; the scale has fallen or was knocked; or if you think your scale is not weighing properly.

To calibrate your scale, press and hold **OK** when **CALIBRATE** is shown in the Setup Menu. The scale will then prompt **500.0 G WEIGHT NEEDED**. Place the metal reference weight that came with your scale directly on the weighing platform. Press **OK**. You'll hear an audible tone, the message **SCALE READY** will appear on screen, and the scale will turn itself off. Remove the reference weight from the weighing platform and hold the **CLEAR** key for two seconds to turn the scale back on.

AUTO CONT: The auto continuation function permits the user to automatically count through all denominations, from lowest to highest, without having to use the < or > keys to move to the next denomination. **ON** is the default setting.

To change or configure **AUTO CONT**, press **OK** when **AUTO CONT** is shown in the Setup Menu. Press < or > to choose **ON** or **OFF**. Press **OK** to confirm your choice.

AUTO ADD: The **AUTO ADD** function allows the last total to be automatically added into a total sum after removing the amount from the scale. **ON** is the default setting. If this function is activated, **AUTO ADD** will appear on the right side of the display followed by a check mark.

To change **AUTO ADD**, press **OK** when **AUTO ADD** is shown in the Setup Menu. Press < or > to choose **ON** or **OFF**. Press **OK** to confirm your choice.

AUTO SAVE: The **AUTO SAVE** function allows the complete results of the last count to be automatically saved in the scale's memory, even if the scale is turned off. **ON** is the default setting.

To change **AUTO SAVE**, press **OK** when **AUTO SAVE** is shown in the Setup Menu. Press < or > to choose **ON** or **OFF**. Press **OK** to confirm your choice.

CURRENCY: Use **CURRENCY** to select the desired currency. The RS 2200 is pre-set to count USD, EUR and GBP. The chosen currency will be shown on the display.

To change the **CURRENCY**, press **OK** when **CURRENCY** is shown in the Setup Menu. Press < or > to choose USD, EUR or GBP. Press **OK** to confirm your choice.

RESET: Use **RESET** to reset all saved settings to the factory default, including calibration of the coin cup. To reset your device, press and hold **OK** when **RESET** is shown in the Setup Menu. The procedure is finished when three audible beeps are emitted from the scale.

After resetting the device to factory settings, the scale will automatically run the **CALIBRATE** procedure described above.

ECO MODE: When **ECO MODE** is activated, the scale will turn itself **OFF** after a preset amount of time.

To change **ECO MODE**, press **OK** when **ECO MODE** is shown in the Setup Menu. Press < or > to choose **OFF**, 15 minutes, 30 minutes, 45 minutes or 60 minutes. Press **OK** to confirm your choice.

CONTRAST: Use **CONTRAST** adjust the contrast of the RS 2200 screen to make it more visible in your environment. The default setting is 10.

To change **CONTRAST**, press **OK** when **CONTRAST** is shown in the Setup Menu. Press < or > to choose a value between 1 (darkest) and 12 (brightest). Press **OK** to confirm your choice.

LANGUAGE: Use the **LANGUAGE** function to change the display language of the RS 2200.

To change **LANGUAGE**, press **OK** when **LANGUAGE** is shown in the Setup Menu. Press < or > to choose **ENGLISH, ESPAÑOL, ITALIANO, DEUTSCH** or **FRANÇAIS**. Press **OK** to confirm your choice.

USER: Use **USER** when the RS 2200 is used by more than one user, and each user is using different settings. When this function is activated, the user will be prompted to enter a user number when powering on the scale.

To change **USER**, press **OK** when **USER** is shown in the Setup Menu. Press < or > to choose **ON** or **OFF**. Press **OK** to confirm your choice.

BEEPER: Use **BEEPER** to change the audible tones generated by the RS 2200.

To change **BEEPER**, press **OK** when **BEEPER** is shown in the Setup Menu. Press < or > to choose **ON, OFF** or **KEYS OFF**. Press **OK** to confirm your choice.

ACCOUNT: Use the **ACCOUNT** function to recall counts performed by various users. This function can also be used to reset user accounts.

PASSWORD: Use **PASSWORD** to restrict access to the Setup Menu. If this function is activated, the user will be prompted to enter a password when accessing the Setup Menu (left arrow, left arrow, right arrow, right arrow).

To change **PASSWORD**, press **OK** when **PASSWORD** is shown in the Setup Menu. Press < or > to choose **ON** or **OFF**. Press **OK** to confirm your choice.

Technical Specifications

Net weight: 1.3 lbs (.6 kg)

Dimensions: 7.5" L x 5.1" w x 5.8" h (190x130x148mm)

Power Consumption: 100-240 V~50/60 Hz 0.66 A max

Power supply: 9 V - 650 mA adapter; 6 AAA batteries (optional)

Currencies: USD, EUR, GBP

Error Codes

Error Code	Cause	Solution
REMOVE SOME BILLS OR THE CUP	A weight of more than 1 kg was placed on the scale.	Remove the complete weight from the money scale and restart the weighing procedure using a smaller amount.
	Too many paper bills were placed at one time on the scale during the paper currency counting procedure.	Remove some of the bank notes and continue the weighing process. Never place more than 15 banknotes on the scale at once. On the RS 2200, over time you will be able to place up to 25 banknotes at one time, due to its dynamic weighing abilities.
	The coin cup is on the scale and you want to count paper currency.	Remove the coin cup from the scale and start the paper currency weighing procedure.
OVERLOAD TOO MUCH WEIGHT	More than 1 kg was placed on the scale.	Remove all weight from the scale.
ERROR COUNT AGAIN	A button was pushed during the weighing procedure.	The weighing procedure was cancelled. Remove all weight from the scale and restart the weighing procedure.
	More than one coin roll was removed at a time when counting coin rolls. The scale cannot identify the removed coin rolls.	Remove the coin rolls from the scale and restart the counting procedure.
SUSPECT CHECK ROLL	A coin roll was not recognized. The roll may have too many or too few coins, tape on the wrapper, or it could be wet.	Remove the coin roll from the scale. Correct any issues with the packaging and put it back on the scale. If the roll is still not recognized, you'll need to break it down and count it as loose coins.

Notes

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