



# Casio S100 Premium Calculator User's Guide

[Home](#) » [Casio](#) » Casio S100 Premium Calculator User's Guide 

## Contents

- 1 Casio S100 Premium Calculator
- 2 Introduction
- 3 Important Precautions
- 4 Power Supply
  - 4.1 Decimal Part Rounding
- 5 Basic Calculations
- 6 Tax Calculations
- 7 Multi Conversion
- 8 Conversion Calculation Formulas
- 9 "ERROR" Indicator
- 10 Auto Power Off
- 11 Specifications
- 12 Contact Details
- 13 FREQUENTLY ASKED QUESTIONS

# CASIO

**Casio S100 Premium Calculator**



## Introduction

- Thank you for purchasing this CASIO product.
- Be sure to keep all user documentation handy for future reference.

## Important Precautions

- If you suspect that the calculator is operating abnormally due to a static electrical charge or some other problem, press AC to restore normal operation.
- Avoid dropping the calculator and otherwise subjecting it to severe impact.
- Never try to take the calculator apart.
- Wipe the unit with a soft, dry cloth to clean it.
- Replacing the battery or blocking the calculator from sunlight while battery power is low may cause your tax rate setting or memory contents to be changed or lost. Replace the battery as soon as possible when it becomes weak and correct the tax rate setting, if necessary.
- The contents of these instructions are subject to change without notice.
- CASIO COMPUTER CO., LTD. assumes no responsibility for any loss or claims by third parties that may arise from the use of this product.

## Power Supply

Two-Way Power System provides power even in complete darkness.

- Always leave battery replacement up to an authorized dealer.
- The battery that comes with this unit discharges slightly during shipment and storage. Because of this, it may

require replacement sooner than the normal expected battery life.

## Before starting a calculation...

Press A before starting a new calculation.

### Decimal Part Rounding



- F ..... No decimal part rounding. Normally use this setting.
- CUT .... Cuts off to the specified number of decimal places.
- 5/4..... Rounds off to the specified number of decimal places.
  - The calculation examples shown in this manual are performed with the Rounding Selector set at “F”.



- Specifies the number of decimal places. The setting of this selector is applied when something other than “F” is selected with the Rounding Selector.
- 4, 3, 2, 1, 0 ... Specifies the number of decimal places for results. Results are cut off or rounded off so the specified number of decimal places remain.
- ADD2 ... Specifies ADD mode (two decimal places) calculation. This setting automatically adds a decimal point and two decimal places for addition and subtraction calculation. Note that if you press . while inputting a value, the input decimal point takes precedence. ADD mode calculation is not applied for calculations other than addition and subtraction.

## Basic Calculations

### Arithmetic Calculations

4 - 6 =	4 $\ominus$ 6 $\equiv$	-2.
(1 + 2) $\div$ 3 $\times$ 4 - 5.5 =	1 $\oplus$ 2 $\div$ 3 $\times$ 4 $\ominus$ 5.5 $\equiv$	-1.5
2 $\times$ (-3) =	2 $\times$ 3 $\overline{\ominus}$ $\equiv$	-6.
Correction Examples 2 + 3 $\rightarrow$ 2 + 4 = 6	2 $\oplus$ 3 $\odot$ 4 $\equiv$	6.
2 $\div$ ... $\rightarrow$ 2 $\div$ 7 = -5	2 $\oplus$ $\ominus$ 7 $\equiv$	-5.
122 $\rightarrow$ 123	122 $\blacktriangleright$ 3 $\equiv$	123.

### Root Calculations

$\sqrt{4} \times 5 =$	4 $\sqrt{\phantom{x}}$ $\times$ 5 $\equiv$	10.
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### Constant Calculation

Constant calculation comes in handy when performing a series of calculations that use the same value.

12 + 23 = 45 + 23 =	23 $\boxed{+}$ 12 $\boxed{=}$ 45 $\boxed{=}$	LOCK 35. LOCK 68.
7 - 5 = 2 - 5 =	5 $\boxed{-}$ 7 $\boxed{=}$ 2 $\boxed{=}$	LOCK 2. LOCK -3.
2 $\times$ 12 = 4 $\times$ 12 =	12 $\boxed{\times}$ 2 $\boxed{=}$ 4 $\boxed{=}$	LOCK 24. LOCK 48.
45 $\div$ 9 = 72 $\div$ 9 =	9 $\boxed{\div}$ 45 $\boxed{=}$ 72 $\boxed{=}$	LOCK 5. LOCK 8.

## Percent Calculations

What is 5% of 200?	200 $\boxed{\times}$ 5 $\boxed{\%}$	10.
What is 100 increased by 5%?	100 $\boxed{\times}$ 5 $\boxed{\%}$ $\boxed{+}$	Increase $\rightarrow$ 5. Total $\rightarrow$ 105.
What is 500 reduced by 20%?	500 $\boxed{\times}$ 20 $\boxed{\%}$ $\boxed{-}$	Discount $\rightarrow$ 100. Total $\rightarrow$ 400.
What percent of 60 is 30?	30 $\boxed{\div}$ 60 $\boxed{\%}$	50% $\rightarrow$ 50.
What percent increase of 10 is 12?	12 $\boxed{-}$ 10 $\boxed{\%}$	20% $\rightarrow$ 20.
If the markup is 25% of the selling price, what would be the selling price and profit on an item that has a cost of 120 dollars?	120 $\boxed{+}$ 25 $\boxed{\%}$ $\boxed{=}$	Sales price $\rightarrow$ 160. Profit $\rightarrow$ 40.

## Independent Memory Calculation

Independent memory is useful when performing multiple calculations. Values can be stored to and recalled from independent memory as required.

- **Memory + ...** Adds a value to independent memory.
- **Memory - ...** Subtracts a value from independent memory.
- **Memory Recall ...** Displays the value currently in independent memory.
- **Memory Clear ...** Clears the current independent memory value.

80 $\times$ 9 = 720	MEMORY CLEAR 80 $\boxed{\times}$ 9 MEMORY $\boxed{+}$	MEMORY 720.
(-) 50 $\times$ 6 = 300	50 $\boxed{\times}$ 6 MEMORY $\boxed{-}$	MEMORY 300.
(+) 20 $\times$ 3 = 60	20 $\boxed{\times}$ 3 MEMORY $\boxed{+}$	MEMORY 60.
Total: 480	MEMORY RECALL	MEMORY 480.

- Independent memory is not cleared when you press A.

## Grand Total Calculation

This type of calculation lets you calculate a cumulative total. The grand total is accumulated in grand total memory.

- **= ...** Adds the current result to grand total memory.

- **Grand Total** ··· Displays the cumulative value in grand total memory.
- **AC** ····· Clears the cumulative value in grand total memory.

5 × 6 = 30	AC 5 X 6 =	GRAND TOTAL 30.
2 × 8 = 16	2 X 8 =	GRAND TOTAL 16.
4	4 =	GRAND TOTAL 4.
Total: 50	GRAND TOTAL	GRAND TOTAL 50.

### Complex Calculations (Independent Memory, Grand Total)

7 × 89 = 623	MEMORY CLEAR AC 7 MEMORY +	GRAND TOTAL MEMORY 623.
5 × 23 = 115	X 89 =	GRAND TOTAL MEMORY 115.
Total: 12 738	5 MEMORY + X 23 =	GRAND TOTAL MEMORY 12.
	MEMORY RECALL	GRAND TOTAL MEMORY 738.
	GRAND TOTAL	

### Tax Calculations

The calculations here use a tax rate of 5%.

- **To set the tax rate**
  - AC
  - Hold down % (SET) until “SET” appears on the display.
  - TAX + (TAX RATE) ... This causes the following to appear: “TAX”, “%”, “SET”.
  - 5 % (SET) ... Input the correct tax rate (5% for this example).
- k To check the tax rate
  - AC TAX+ (TAX RATE)
- Tax Calculation Example

For an item with a without-tax price of 100 dollars What is the with-tax price?	1 00 TAX+	TAX+ 105.
What is the tax amount?	TAX+	TAX 5.
For an item having a with-tax price of 105 dollars What is the without-tax price?	105 TAX-	TAX- 100.
What is the tax amount?	TAX-	TAX 5.

- Each press of TAX + toggles between the with-tax price and tax amount, while TAX – toggles between the without-tax price and tax amount.
- Cutting or rounding of the decimal part is performed automatically in accordance with the rounding selector and the number of decimal places selector (CUT, 0, etc.) This calculator first determines the tax amount and then calculates the with-tax price or without-tax price.

- The tax rate is not cleared if you press AC or if you turn off the calculator.

## Multi Conversion

- **First, check the current conversion rate.\*1**

AC Multi Exchange (RATE)

- **To set the conversion rate**

Example: To assign a euro value to Value 2 and a dollar value to Value 1 to set up the conversion rate below 1

euro = \$1.1 US

- AC
- Hold down %(SET) until “SET” appears on the display.
- Multi Exchange (RATE) ... This causes the following to appear: “VALUE2”, “SET”, “And RATE”.
- 1.1 %(SET) ... Input the correct conversion rate (such as 1 euro = \$1.1 US).\*2
  - For Value 2, specify the conversion rate to be applied to Value 1.
  - For a conversion rate of 1 or greater, you can input up to six digits.
- Example: 123.456, 1.23456
 

For a conversion rate that is less than 1, you can input up to 12 digits. Note, however, that you can input only six digits to the right of the decimal point or to the right of any leading zeros in the decimal part.
- Example: 0.123456, 0.0123456
  - The conversion rate is not cleared if you press AC or if you turn off the calculator.

### To specify the conversion direction (“VALUE1 ←VALUE2”, “VALUE1 →VALUE2”)

After pressing AC, each press of Multi Exchange toggles the conversion direction. An indicator on the display shows the current conversion direction.

Example: When a dollar value is assigned to Value 1 and a euro value is assigned to Value 2.

- “VALUE1 ←VALUE2”: Converts dollars to euros.
- “VALUE1 →VALUE2”: Converts euros to dollars.

## Multi Conversion Example

(Conversion rate: 1 euro = \$1.1 US)

How many euros is 110 dollars?	Conversion direction: “VALUE1 ► VALUE2” AC 110 MULTI EXCHANGE	100.
How many dollars is 100 euros?	Conversion direction: “VALUE1 ◄ VALUE2” AC 100 MULTI EXCHANGE	110.

- Each press of the Multi Exchange toggles the displayed value between euros and dollars.

What is the total price in euros for five items costing 110 dollars each?	Conversion direction: “VALUE1 ► VALUE2” AC 5 X 110 MULTI EXCHANGE =	500.
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- Cutting or rounding of the decimal part is performed automatically in accordance with the rounding selector and

the number of decimal places selector (CUT, 0, etc.)

## Conversion Calculation Formulas

Multi-conversion calculations are performed using the formulas below.

1. Converting Value 1 to Value 2: Value 2 Amount =  $A \div B$
2. Converting Value 2 to Value 1: Value 1 Amount =  $A \times B$  Note that A is an input value or displayed value, while B is the conversion rate.

## Unit Conversion Rates

You can use the conversion rates below with the Multi Conversion function.

### Length

	Centimeters	Inches
1 cm =	1	0.393701
1 in =	2.54	1

	Meters	Miles	Yards
1 m =	1	0.000621371	1.09361
1 mile =	1609.34	1	1760
1 yard =	0.9144	0.000568182	1

### Weight

	Grams	Ounces	Pounds
1 g =	1	0.035274	0.00220462
1 oz =	28.3495	1	0.0625
1 lb =	453.592	16	1

## “ERROR” Indicator

### (Calculation Error)

The conditions described below will result in an error, which causes the “ERROR” indicator to appear on the display. If this happens, press A to re-enable the calculation.

1. Attempting a meaningless calculation (such as  $-4, 6 \div 0$ , etc.)
2. Attempting a calculation whose result exceeds the 12-digit calculation range of the calculator ( $-1 \text{ trillion} < \text{value} < 1 \text{ trillion}$ )

1. The value displayed when a calculation error occurs is a rough approximate value.

Example: If “1.23” is displayed along with “ERROR”, it indicates a value of approximately  $1.23 \times 1$  trillion.

## Auto Power Off

To save battery power, the calculator turns off automatically after approximately 6 minutes of non-use. Press AC before restoring the calculation.

- Auto Power Off cannot be disabled.

## Specifications

- **Power Supply:** Two-Way Power System, with solar cell and one button type battery (CR2025)
- **Battery Life:** Approximately 7 years (1-hour operation per day) Dimensions: 17.8 (H) × 110.5 (W) × 183 (D) mm (11/16" H × 43/8" W × 73/16" D)
- **Weight:** Approximately 250 g (8.8 oz), including battery

## Contact Details

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## FREQUENTLY ASKED QUESTIONS

How can I restore normal operation if the calculator is not functioning properly?

If you suspect that the calculator is operating abnormally due to static electrical charge or some other issue, press the AC (All Clear) button to restore normal operation.

What precautions should I take when using the Casio S100 Premium Calculator?

Several precautions should be observed when using the calculator, including avoiding severe impact or dropping, never attempting to disassemble it, cleaning the unit with a soft, dry cloth, and replacing the battery when low to prevent tax rate setting or memory data loss.

What happens if the calculator runs out of battery power?

If the battery becomes weak, it is important to replace it as soon as possible to avoid changes or losses in tax rate settings or memory contents. The calculator uses a two-way power system, including a solar cell and a button-type battery (CR2025).

Can I specify the number of decimal places for rounding calculations?

Yes, you can specify the number of decimal places for rounding calculations using the Decimal Place Selector. The Rounding Selector can be set to F (no decimal part rounding), CUT (cut off to the specified number of decimal places), or 5/4 (round off to the specified number of decimal places).



How does the Casio S100 calculator handle tax calculations?

The calculator provides options for tax calculations using a tax rate of 5%. You can set the tax rate using the TAX+ (TAX RATE) function and toggle between with-tax price and tax amount using TAX+ and TAX-. The tax rate setting is retained even when you press AC (All Clear) or turn off the calculator.

What is Multi Conversion and how does it work?

Multi Conversion allows you to set conversion rates and perform unit conversions. You can assign different values to Value 1 and Value 2, and then use the Multi Exchange function to convert between them based on the assigned conversion rate.

Is there an ERROR indicator, and when does it appear on the display?

Yes, there is an ERROR indicator that appears on the display in certain situations. It occurs when the calculator encounters meaningless calculations (e.g., division by zero) or calculations with results exceeding the 12-digit calculation range of the calculator.

How long does the battery typically last in the Casio S100 calculator?

The battery life of the calculator is approximately 7 years with 1 hour of operation per day. It uses a two-way power system with a solar cell and a button-type battery (CR2025).

Can I disable the Auto Power Off feature on the calculator?

The Auto Power Off feature cannot be disabled. The calculator will automatically turn off after approximately 6 minutes of non-use to save battery power. Press AC before resuming calculations after the auto power-off.

What are the dimensions and weight of the Casio S100 Premium Calculator?

The calculator has dimensions of 17.8 mm (H) × 110.5 mm (W) × 183 mm (D) and weighs approximately 250 grams (8.8 ounces), including the battery.

Can I change the default tax rate for tax calculations?

Yes, you can change the default tax rate. To do so, press AC to clear the display, then hold down %(SET) until SET appears on the screen. Press TAX+(TAX RATE) and input the desired tax rate. For example, you can set it to 10% by entering 10 %(SET).

**DOWNLOAD THE PDF LINK: [Casio S100 Premium Calculator User's Guide](#)**

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