EN

CASIO

S100
S200

User's Guide

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 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 which may arise from the use of this product.

Power Supply

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

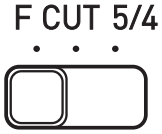
- Always leave battery replacement up to an authorized dealer.
- The battery that comes with this unit discharges slightly during shipment and storage. Because of this, it may require replacement sooner than the normal expected battery life.

Contents

Before starting a calculation...

Press [AC] before starting a new calculation.

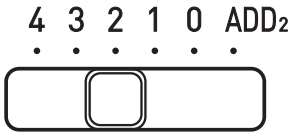
■ Decimal Part Rounding



Rounding Selector

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”.



Decimal Place Selector

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 − 6 =**	**–2.**
(1 + 2) ÷ 3 × 4 – 5.5 =	**1 + 2 ÷ 3 × 4 − 5 • 5 =**	**–1.5**
2 × (–3) =	**2 × 3 +/− =**	**–6.**
Correction Examples 2 + 3 → 2 + 4 = 6	**2 + 3 C 4 =**	**6.**
2 +···→ 2 – 7 = –5	**2 + − 7 =**	**–5.**
122 → 123	**122 ▶ 3**	**123.**

■ Root Calculations

$\sqrt{4} \times 5 =$	**4 √ × 5 =**	**10.**

■ Constant Calculation

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

12 + 23 = 45 + 23 =	**23 + + 12 =** **45 =**	LOCK **35.** LOCK **68.**
7 – 5 = 2 – 5 =	**5 − − 7 =** **2 =**	LOCK **2.** LOCK **–3.**
2 × 12 = 4 × 12 =	**12 × × 2 =** **4 =**	LOCK **24.** LOCK **48.**
45 ÷ 9 = 72 ÷ 9 =	**9 ÷ ÷ 45 =** **72 =**	LOCK **5.** LOCK **8.**

■ Percent Calculations

What is 5% of 200?	2 00 × 5 %	10.
What is 100 increased by 5%?	1 00 × 5 % +	Increase→ 5. Total→ 105.
What is 500 reduced by 20%?	5 00 × 20 % −	Discount→ 100. Total→ 400.
What percent of 60 is 30?	30 ÷ 60 %	50%→ 50.
What percent increase of 10 is 12?	12 − 10 %	20%→ 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 + 25 % −	Sales price → 160. Profit → 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 × 9 = 720	MEMORY CLEAR 80 × 9 MEMORY +	MEMORY 720.
(–) 50 × 6 = 300	50 × 6 MEMORY −	MEMORY 300.
(+) 20 × 3 = 60	20 × 3 MEMORY +	MEMORY 60.
Total: 480	MEMORY RECALL	MEMORY 480.

- Independent memory is not cleared when you press AC.

■ 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 [×] 6 [=]	GRAND TOTAL 30.
2 × 8 = 16	2 [×] 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.
	[×] 89 [=]	
5 × 23 = 115	5 [MEMORY +] [×] 23 [=]	GRAND TOTAL MEMORY 115.
Total: 12 738	[MEMORY RECALL]	GRAND TOTAL MEMORY 12.
	[GRAND TOTAL]	GRAND TOTAL MEMORY 738.

Tax Calculations

The calculations here use a tax rate of 5%.

■ To set the tax rate

1. [AC]
2. Hold down [%](SET) until "SET" appears on the display.
3. [TAX+](TAX RATE) ... This causes the following to appear: "TAX", "%", "SET".
4. 5 [%](SET) ... Input the correct tax rate (5% for this example).

■ 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
1 euro = $1.1 US

1. [AC]
2. Hold down [%](SET) until “SET” appears on the display.
3. [MULTI EXCHANGE](RATE) ... This causes the following to appear: “VALUE2”, “SET”, “RATE”.
4. 1.1 [%](SET) ... Input the correct conversion rate (such as 1 euro = $1.1 US).*2

*1 For Value 2, specify the conversion rate to be applied to Value 1.

*2 For an 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 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** [×] **110** [MULTI EXCHANGE] [=]	**500.**

- 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 ÷ B**

2) Converting Value 2 to Value 1: **Value 1 Amount = A × 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 [AC] to re-enable calculation.

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

- 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 × 1 trillion.

Auto Power Off

To save battery power, the calculator turns off automatically after approximately 6 minutes of non-use. Press AC before restore 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 × $4^{3}/_{8}$″W × $7^{3}/_{16}$″D)
Weight: Approximately 250 g (8.8 oz), including battery

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