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## Casio MS-100EM

# Casio MS-100EM Desktop Calculator User Manual

Model: MS-100EM

### INTRODUCTION

The Casio MS-100EM is a versatile 10-digit desktop calculator designed for various calculations, from basic arithmetic to complex business functions. It features currency conversion, professional percentage calculation, and cost/sell/margin analysis. This manual provides detailed instructions for setting up, operating, and maintaining your calculator to ensure optimal performance.

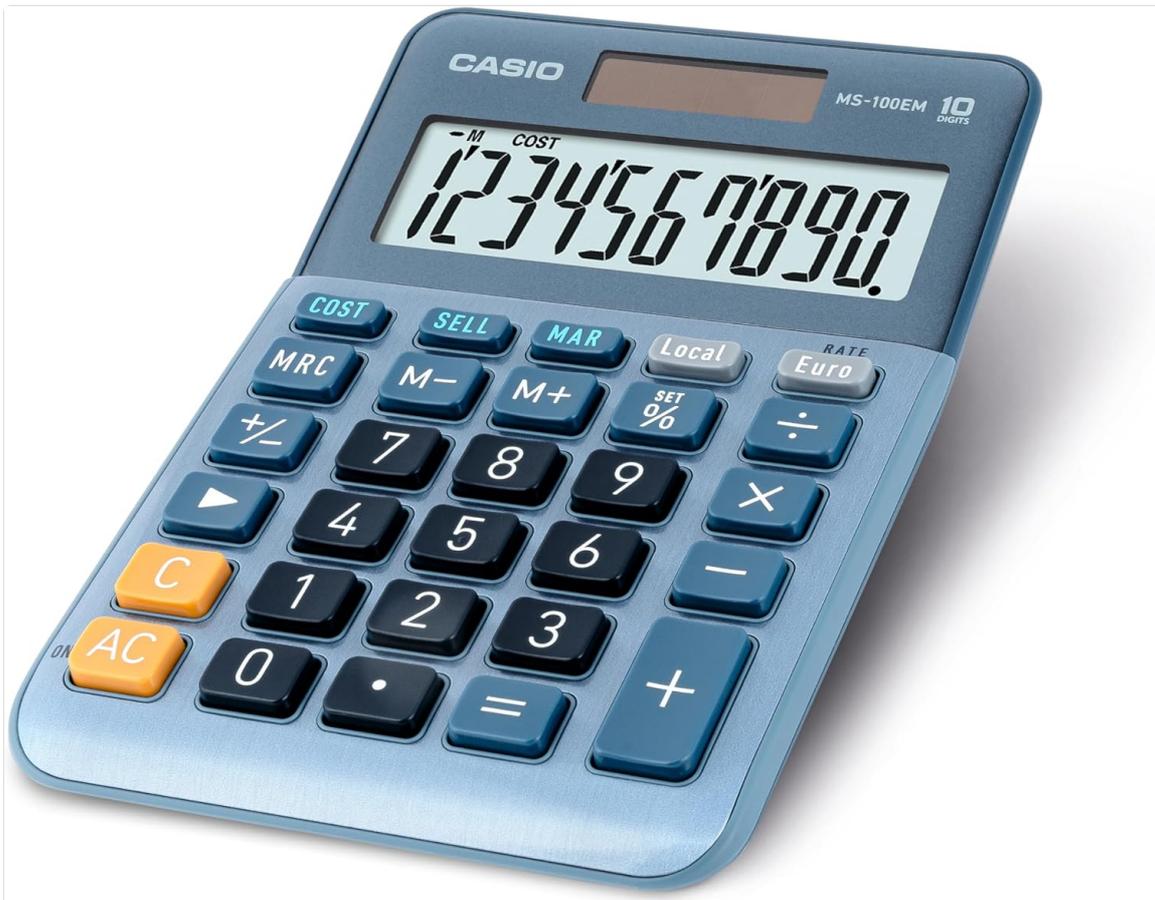


Image: Front view of the Casio MS-100EM desktop calculator, displaying its 10-digit screen and key arrangement. The calculator has a blue aluminum front and dark blue keys.

# 1. SETUP

## 1.1 Power Source

The Casio MS-100EM calculator operates using both solar power and a battery. The solar panel provides power in well-lit environments, while the included 12V alkaline battery ensures continuous operation in low light or when solar power is insufficient. The calculator is designed to automatically switch between power sources as needed.

## 1.2 Initial Use and Automatic Shut-off

Upon first use, ensure adequate lighting for the solar panel or that the battery is correctly installed. The calculator will automatically power off after approximately 6 minutes of inactivity to conserve battery life. Press any key to reactivate the device.

## 1.3 Memory Protection Battery

The calculator includes a memory protection battery. This feature ensures that stored data, such as currency rates or tax rates, are retained even when the main power source is depleted or during battery replacement.

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# 2. OPERATING INSTRUCTIONS

## 2.1 Basic Calculations

Perform standard arithmetic operations (addition, subtraction, multiplication, division) using the numeric keypad and corresponding function keys. The 10-digit LCD display shows your entries and results. The calculator features an input buffer to prevent missed entries during rapid key presses.

## 2.2 Currency Conversion

1. **Setting the Exchange Rate:** Enter the desired exchange rate (e.g., 1.25 for 1 unit of local currency = 1.25 units of foreign currency). Press the **SET %** key, then the **RATE** key. The rate is now stored.
2. **Converting Currency:** Enter the amount in the original currency. Press the **Local** key to convert to the stored foreign currency, or the **Euro** key (if applicable) to convert to Euro based on a pre-set rate.

## 2.3 Professional Percentage Calculation

To calculate percentages, enter the base value, then the multiplication or division operator, followed by the percentage value, and finally the % key. For example, to calculate 15% of 200:  $200 \times 15 \%$ . The calculator can also determine percentage increases and decreases, displaying the calculated value separately.

## 2.4 Cost, Sell, Margin (CSM) Calculation

The profit calculation function allows you to determine costs, selling prices, and profit margins. Use the **COST**, **SELL**, and **MAR** (Margin) keys. Enter two of the three values, then press the key for the unknown value to calculate it.

## 2.5 Mark Up with Percentage Key

This function quickly determines margins and markups in commercial applications. Enter the cost, then press **+**, then the desired markup percentage, and finally the % key to see the selling price.

## 2.6 Memory Functions

The calculator features a 3-key memory system (**M+**, **M-**, **MRC**) to store and recall values for later use. **M+** adds the

displayed value to memory, **M-** subtracts it, and **MRC** recalls the memory content (press twice to clear memory).

## 2.7 Correction and Sign Change

- **Quick Correction Button (C):** Deletes the current entry in numerals without clearing the entire calculation.
- **All Clear (AC):** Clears all entries and calculations.
- **Sign Change (+/-):** Changes the sign of the displayed number (e.g., from 100 to -100 or vice versa).

## 2.8 Display Features

- **Calculation Command Display:** The arithmetic operator currently in use (e.g., +, -, x, ÷) is displayed as a symbol on the screen.
- **Thousands Division:** For improved readability, a comma or space visually separates thousands after every three digits.

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## 3. MAINTENANCE

### 3.1 Cleaning

To clean the calculator, gently wipe the surface with a soft, dry cloth. For stubborn dirt, a slightly damp cloth with mild soap can be used, ensuring no liquid enters the device. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the display or casing.

### 3.2 Battery Replacement

When the display becomes dim or unresponsive in low light conditions, it may be time to replace the battery. The calculator uses one 12V alkaline battery. Refer to the battery compartment on the back of the device for specific instructions on how to open and replace the battery. Ensure proper polarity. The memory protection battery helps retain stored data during this process.

### 3.3 Storage

Store the calculator in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity. Prolonged exposure to these conditions can affect performance and battery life.

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## 4. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank or dim.	Insufficient light for solar power; low battery.	Move to a brighter area or replace the battery.
Calculator turns off unexpectedly.	Automatic shut-off activated due to inactivity.	This is normal operation. Press any key to turn it back on.
Incorrect calculation results.	Incorrect key input; memory not cleared.	Double-check your entries. Press <b>AC</b> to clear all calculations and memory before starting a new one.

<b>Problem</b>	<b>Possible Cause</b>	<b>Solution</b>
Currency conversion not working.	Exchange rate not set or incorrectly set.	Re-enter and save the correct exchange rate as per section 2.2.

## 5. SPECIFICATIONS

<b>Feature</b>	<b>Detail</b>
Brand	Casio
Model	MS-100EM
Display	10-digit LCD, 7.9 cm standing screen display size, with calculation command display and thousands division
Power Source	Solar / Battery Operated (1 x 12V Alkaline battery included)
Automatic Shut-off	Yes (after 6 minutes of inactivity)
Memory	3-key memory, Memory protection battery
Special Features	Currency conversion (1 rate), Professional percentage calculation, Cost/Sell/Margin, Mark Up, Quick correction button, Sign change, Input buffer
Material	Plastic with Aluminium front
Dimensions (L x W x H)	14.9 x 10.1 x 2.8 cm
Weight	120 g
Color	Blue
Country/Region of Origin	Germany

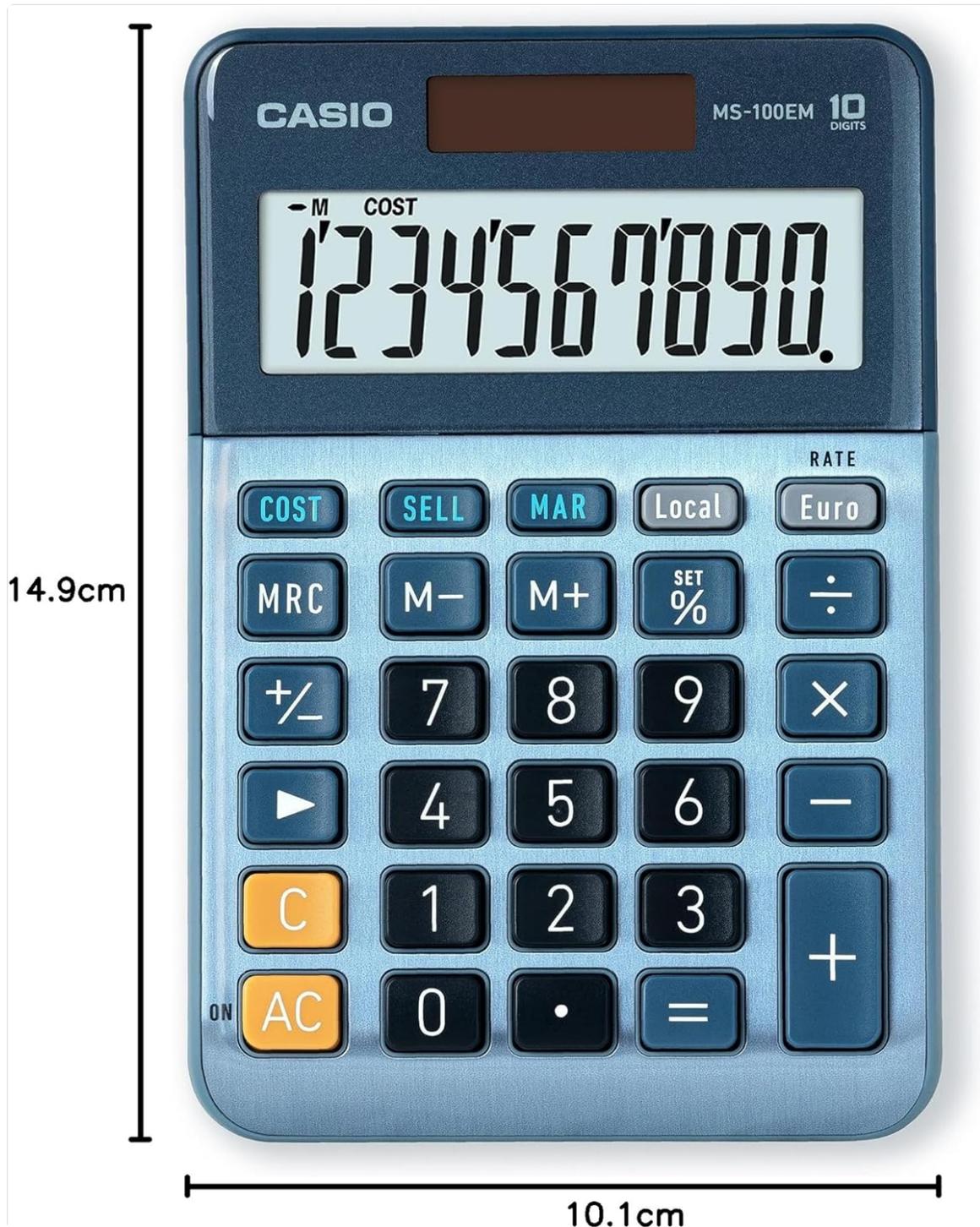


Image: Dimensions of the Casio MS-100EM calculator, illustrating its physical size for reference.

## 6. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your purchase or visit the official Casio website. Casio provides support for its products to ensure customer satisfaction. You can find more information and contact details on the [Casio Store on Amazon](#).