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## Casio FX-991MS-2

# Casio FX-991MS 2nd Gen Scientific Calculator User Manual

Model: FX-991MS-2

## 1. INTRODUCTION

The Casio FX-991MS 2nd Gen is a non-programmable scientific calculator designed for a wide range of mathematical and scientific applications. It features 401 functions and a clear 2-line display, making it suitable for students and professionals. This manual provides essential information for setup, operation, maintenance, and troubleshooting.

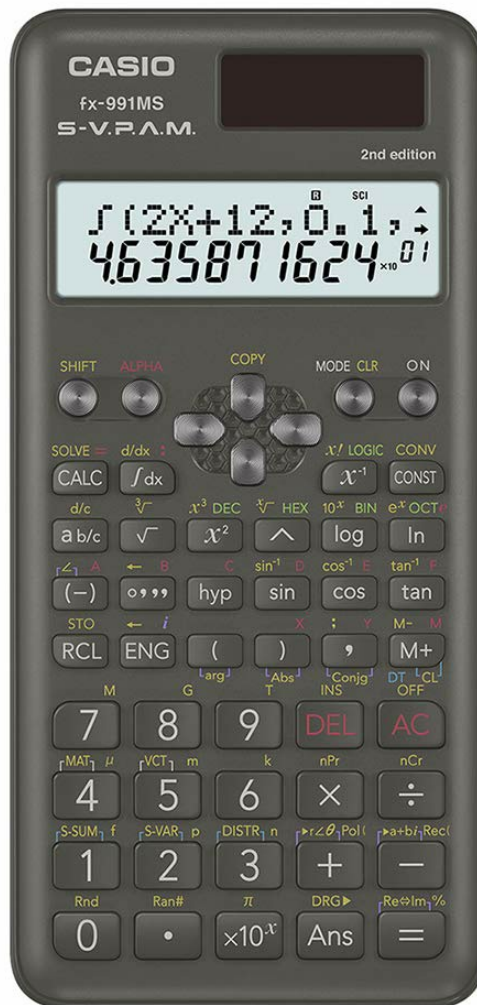


Figure 1: Casio FX-991MS 2nd Gen Scientific Calculator.

## 1.1 Key Features

- 401 Built-in Functions
- 2-Line Display for enhanced readability
- Solar and Battery Dual Power Source
- Multi-Replay Function for formula recall and editing
- Durable, drop-resistant body with water-resistant printing on keys
- Color-coded keys for intuitive operation

## 1.2 What's in the Box

- 1 x Casio FX-991MS 2nd Gen Scientific Calculator
- 1 x User Manual (this document)
- 1 x Warranty Card with Serial Number
- 1 x Warranty Term Sheet

## 2. SETUP

The Casio FX-991MS 2nd Gen calculator is designed for immediate use upon unboxing. It operates on

both solar power and a nonstandard battery, ensuring continuous functionality.

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Video 1: Overview of the Casio FX-991MS 2nd Gen Scientific Calculator, demonstrating its features and ready-to-use nature.

## 2.1 Power Source

The calculator utilizes a dual power system: solar power for sufficient light conditions and a built-in nonstandard battery for low-light environments or when solar power is insufficient. No initial battery installation is required as the battery is pre-installed.

## 2.2 Turning On/Off

- To turn on: Press the **ON** button.
- To turn off: Press **SHIFT** then **AC** (OFF).

## 3. OPERATING INSTRUCTIONS

The Casio FX-991MS 2nd Gen offers a wide array of functions accessible through its intuitive key layout and 2-line display. The upper line displays the input expression, and the lower line shows the calculation result.

Stat-Data Editor



Regular percent



401 functions



Solar + Battery  
Power



Multi Replay



Dot matrix display



Stylish Body with Metallic key



10 + 2 digits

Figure 2: Calculator with its protective hard case.

### 3.1 Basic Calculations

Enter numbers and operators in sequence. Press = to obtain the result.

- **Addition/Subtraction:** Use + and - keys.
- **Multiplication/Division:** Use  $\times$  and  $\div$  keys.
- **Parentheses:** Use ( and ) for grouping expressions.

### 3.2 Scientific Functions

Access scientific functions using the dedicated keys or by pressing **SHIFT** followed by the desired function key.

- **Trigonometric Functions:** sin, cos, tan and their inverse functions (**SHIFT** + sin, etc.).
- **Logarithmic Functions:** log (base 10) and ln (natural logarithm).

- **Power and Root Functions:**  $x^2$ ,  $x^3$ ,  $\sqrt{\quad}$ ,  $\sqrt[3]{\quad}$ ,  $x^y$ .



Figure 3: Illustration of trigonometric function keys.

### 3.3 Statistical Calculations

The calculator supports various statistical calculations. To enter STAT mode, press **MODE** and select the appropriate statistical mode (e.g., SD for standard deviation, REG for regression).

- **Data Entry:** Input data points using the **M+** key.
- **Statistical Results:** Calculate mean, standard deviation, sum of squares, etc., after data entry.



Figure 4: Illustration of statistical function keys.

### 3.4 Multi-Replay Function

The Multi-Replay function allows you to recall and edit previously executed formulas. Use the **▲** and **▼** cursor keys to navigate through past calculations. This feature is useful for correcting errors or performing similar calculations with different values.



Figure 5: The Multi-Replay function allows quick recall and editing of previous calculations.

### 3.5 Constants and Conversions

The calculator includes built-in scientific constants and unit conversion functions. Refer to the detailed function guide for specific constant codes and conversion procedures.

## 4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your calculator.

### 4.1 Cleaning

Wipe the calculator's exterior with a soft, dry cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the casing and water-resistant key printing.

## 4.2 Storage

Store the calculator in a cool, dry place away from direct sunlight and extreme temperatures. Use the provided protective cover to prevent scratches and damage to the keys and display.

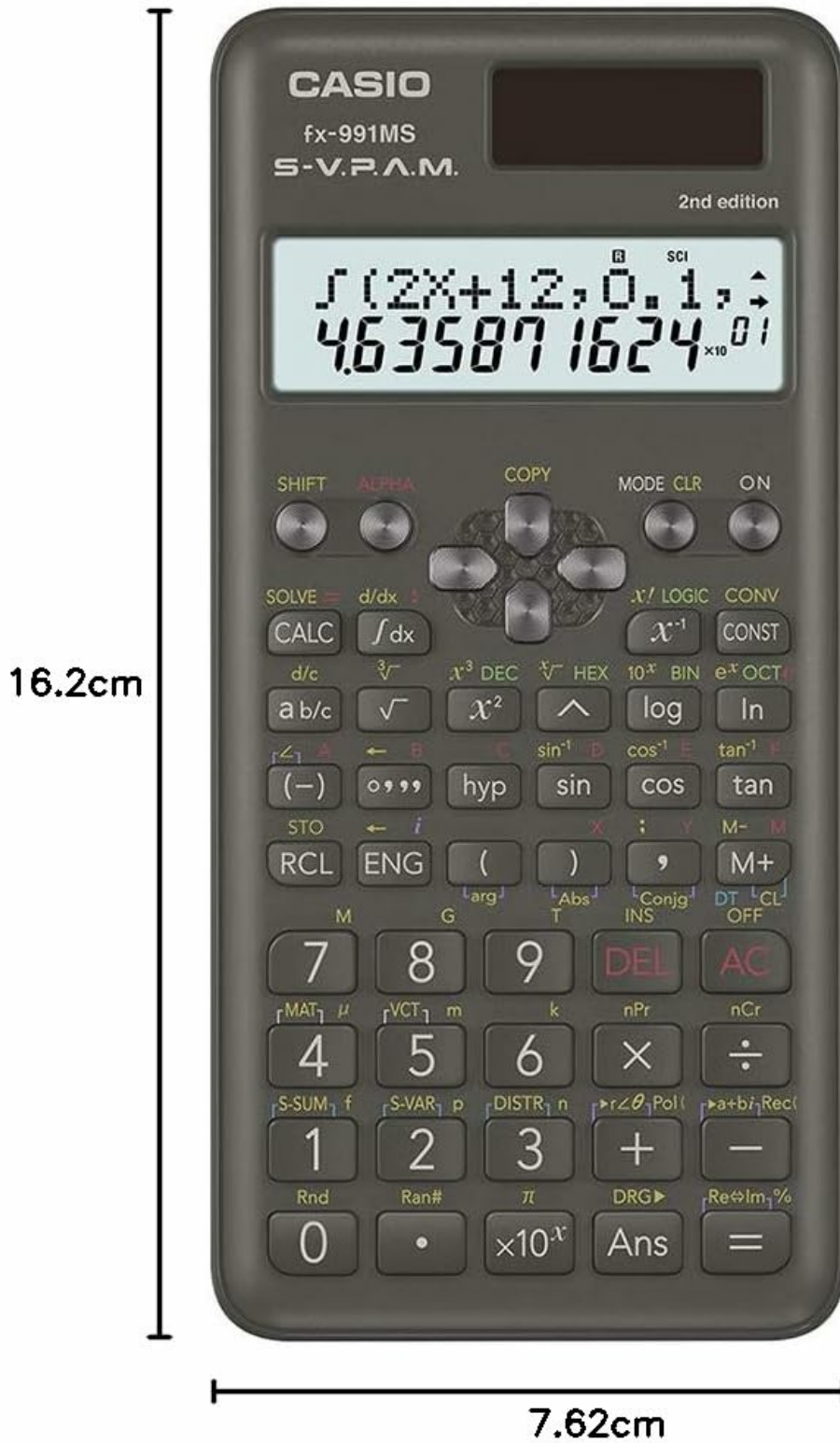


Figure 6: Dimensions of the Casio FX-991MS 2nd Gen Calculator (16.2L x 7.7W Centimeters).

## 5. TROUBLESHOOTING

If you encounter issues with your calculator, refer to the following common problems and solutions.

## 5.1 Display Issues

- **Blank Display:** Ensure sufficient light for solar power or that the battery is functional. If the display remains blank, try pressing the **ON** button.
- **Faint Display:** The battery may be low. While the calculator uses solar power, a weak battery can affect display clarity in certain conditions.

## 5.2 Incorrect Results

- **Check Mode:** Verify that the calculator is in the correct mode (e.g., COMP for general calculations, STAT for statistics). Press **MODE** to change.
- **Angle Unit:** Ensure the correct angle unit (DEG, RAD, GRA) is selected for trigonometric calculations. Press **MODE** multiple times to cycle through options.
- **Reset:** If issues persist, perform a full reset. Press **SHIFT** then **CLR (MODE)** and select **All**. This will clear all memory and settings.

## 6. SPECIFICATIONS

Feature	Specification
Brand	Casio
Model Name	FX-991MS-2
Calculator Type	Engineering/Scientific (Non-Programmable)
Number of Functions	401
Display Type	2-Line LCD
Power Source	Solar & Battery Powered (Nonstandard Battery included)
Enclosure Material	Plastic
Item Dimensions (L x W)	16.2L x 7.7W Centimeters
Item Weight	95 Grams
Country of Origin	Thailand

## 7. WARRANTY AND SUPPORT

Your Casio FX-991MS 2nd Gen Scientific Calculator comes with a manufacturer's warranty and dedicated support.

### 7.1 Manufacturer Warranty

The product is covered by a **3-year All India Manufacturer Warranty** from the date of purchase. An additional 6 months warranty can be availed by registering your product online.

- **To avail warranty:** Produce the original bill copy/invoice at an authorized Casio service center. The warranty card and stamp are not mandatory for online purchases.
- **Online Registration:** Register your product at <https://register.casio.in> for an extended warranty.



## 7.2 Customer Support

For any service-related inquiries or feedback, please contact Casio India:

- **Helpline Number:** 011-66999200
- **Email:** [casiocare@casio.co.in](mailto:casiocare@casio.co.in)
- **Manufacturer Contact Information:** Casio India Co Pvt Ltd, A-41, 1st Floor, MCIE, Mathura Road, New Delhi-110044