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> [Casio fx-82 Solar II Standard School Calculator User Manual](#)

Casio FX-82SOLARII

Casio fx-82 Solar II Standard School Calculator User Manual

PRODUCT OVERVIEW

This manual provides detailed instructions for the Casio fx-82 Solar II Standard school calculator. Designed for clarity and ease of use, it covers all essential functions and features to help you maximize your calculator's potential in various academic settings.

Key Features

- Solar powered: Operates efficiently with ambient light.
- 144 functions: A wide range of mathematical and scientific operations.
- Logarithm functions: Includes natural and common logarithms.
- Very light: Easy to carry and handle.
- Robust: Durable design for everyday use.

CASIO

fx-82 SOLAR II

SHIFT

M K DEG

SCI SD

- 1.23456789 1⁻⁹⁹

SHIFT

MODE

x^2

10^x

log

e^x

ln

ON

d/c

←

\sin^{-1}

\cos^{-1}

\tan^{-1}

a^b/c

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cos

tan

$\sqrt[3]{}$

x^3

$X \leftrightarrow Y$

$1/x$

x^y

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$+/-$

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x^y

MR

\bar{x}

σ_n

σ_{n-1}

$X \leftrightarrow M$

[SAC]

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RND

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EXP

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M^+

[DATA] [DEL]

Image: Front view of the Casio fx-82 Solar II calculator, showcasing its display and key layout.

SETUP

The Casio fx-82 Solar II calculator is primarily powered by solar energy. Ensure the solar panel, located above the display, is exposed to sufficient light for optimal performance. No batteries are required for normal operation under adequate lighting conditions. Upon first use or after prolonged storage in darkness, expose the solar panel to light for a few minutes until the display activates.

OPERATING INSTRUCTIONS

Familiarize yourself with the calculator's key layout and functions for efficient use.

Basic Operations

- **Addition, Subtraction, Multiplication, Division:** Use the **+**, **-**, **×**, and **÷** keys.
- **Percentage Calculation:** Use the **%** key for percentage calculations.
- **Memory Functions:** Utilize **M+** (add to memory), **M-** (subtract from memory), **MR** (recall memory), and **MC** (clear memory).
- **Clear Entry/All Clear:** Press **C** to clear the last entry or **AC** to clear all calculations and memory.

Scientific Functions

- **Trigonometric Functions:** Use **sin**, **cos**, **tan** for sine, cosine, and tangent. Inverse functions are accessed via the **SHIFT** key.
- **Logarithm Functions:** Access **log** (base 10), **ln** (natural logarithm), **10^x**, and **e^x**.
- **Powers and Roots:** Keys include **x²**, **x³**, **√** (square root), **³√** (cube root), **x^y**, and **x^(1/y)**.
- **Factorial, Permutation, Combination:** Use **x!**, **nPr**, and **nCr**.
- **Angle Unit Conversion:** Convert between degrees, radians, and gradians using the **MODE** key.
- **Fraction Calculations:** Perform calculations with fractions using the dedicated fraction keys.
- **Random Number Generation:** Generate random numbers for statistical or probability exercises.

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[DATA] DEL

Image: Close-up of the Casio fx-82 Solar II keypad, highlighting various function keys.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the calculator. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the casing and keys.
- **Storage:** When not in use, store the calculator in its protective hard case to prevent scratches and damage. Avoid storing it in areas with extreme temperatures, high humidity, or direct sunlight for extended periods.
- **Solar Panel Care:** Keep the solar panel clean and unobstructed to ensure continuous power supply.

TROUBLESHOOTING

- **Display is blank or dim:** Ensure the solar panel is exposed to sufficient light. If the calculator has been stored in darkness, allow it to charge under bright light for a few minutes.
- **Incorrect calculation results:** Check that the calculator is in the correct mode (e.g., DEG for degrees). Press the **AC** button to clear any previous calculations or memory.
- **Buttons are unresponsive:** Ensure no debris is lodged around the buttons. Gently clean the area with a soft cloth.
- **Calculator freezes:** If the calculator becomes unresponsive, try exposing it to bright light for a few minutes. If the issue persists, a full reset might be necessary (refer to the detailed manual for specific reset procedures, if available).

SPECIFICATIONS

Product Dimensions	4.8 x 2.8 x 0.35 inches
Item Weight	5.6 ounces
Item Model Number	FX-82SOLARII
Brand	Casio
Color	Black
Calculator Type	Engineering/Scientific
Power Source	Solar Powered
Screen Size	7.1 Centimeters

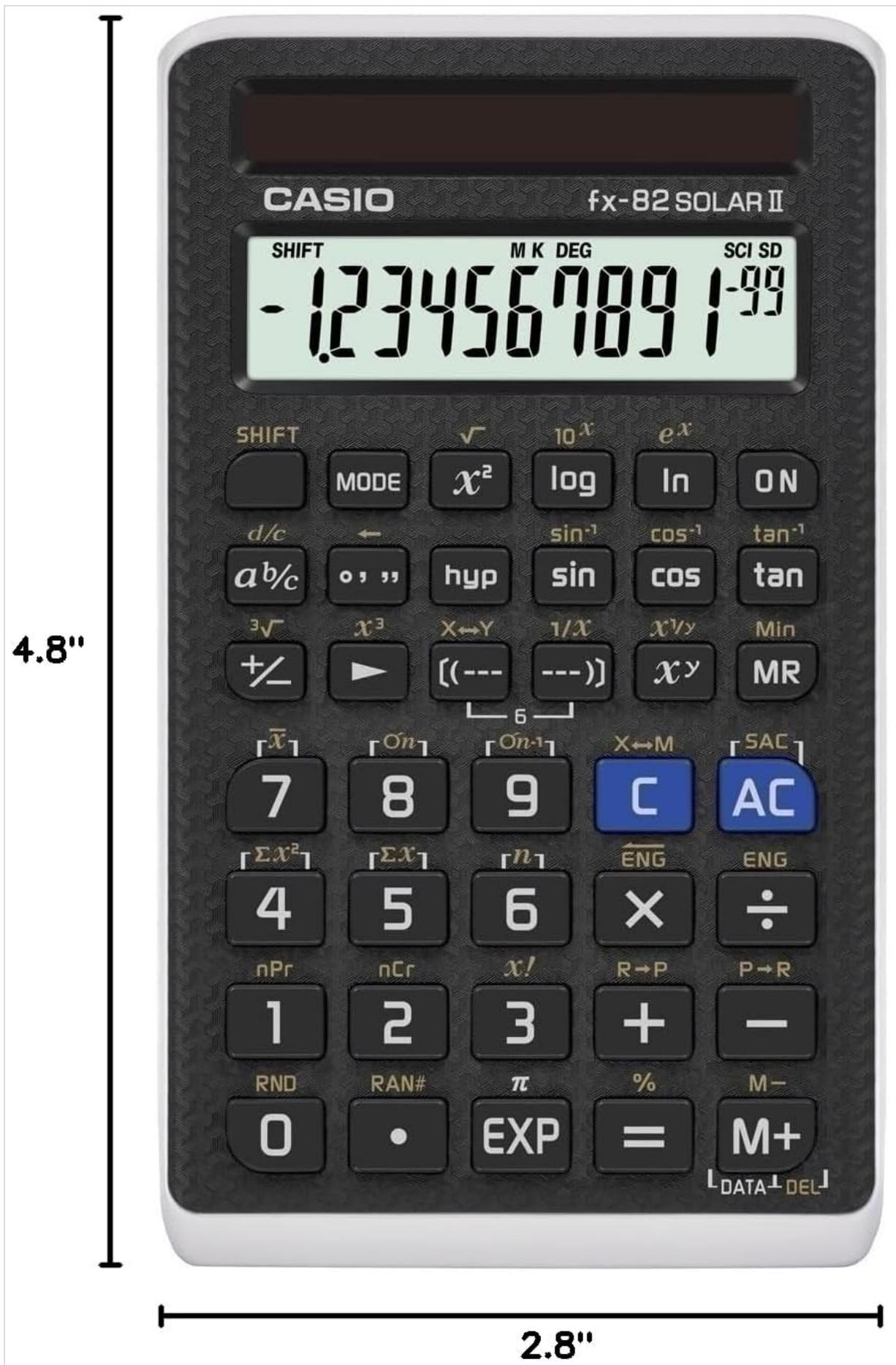


Image: The Casio fx-82 Solar II calculator with its dimensions (4.8 inches by 2.8 inches) indicated.

COMPLIANCE AND SAFETY

This product complies with relevant European safety and environmental standards, as indicated by the CE and EAC marks.



Image: Close-up of the product packaging showing EAC and CE compliance marks.

WARRANTY AND SUPPORT

This product comes with a manufacturer's warranty. Please refer to the warranty card included in the original packaging for specific terms and conditions, including coverage duration and claim procedures. For technical support, product inquiries, or further assistance, please visit the official Casio website or contact their customer service department. Contact information can typically be found on the product packaging or the manufacturer's website.