

Texas Instruments TI-30 ECO RS

Texas Instruments TI-30 ECO RS School Calculator Instruction Manual

Model: TI-30 ECO RS

INTRODUCTION

This manual provides detailed instructions for the Texas Instruments TI-30 ECO RS scientific calculator. Designed for school, work, and home use, this calculator offers comprehensive functionalities for mathematical, scientific, and statistical tasks. It features a 10-digit display, solar power operation, and a housing made from recycled plastic, reflecting its environmentally friendly design.

Please read this manual thoroughly to understand all features and ensure proper operation and longevity of your calculator.

SETUP

Unpacking and Initial Use

1. Carefully remove the calculator from its packaging.
2. The TI-30 ECO RS is solar-powered and does not require batteries. Ensure adequate light exposure for operation. The highly sensitive ANYLITE solar cell allows it to function reliably under normal indoor lighting conditions.
3. Remove the protective cover.
4. Press the **ON/AC** button to power on the calculator.





Image 1: Front view of the TI-30 ECO RS calculator, showing the display and key layout. The calculator is solar-powered and features a

OPERATING INSTRUCTIONS

Basic Arithmetic Operations

Perform addition, subtraction, multiplication, and division using the **+**, **-**, **x**, and **÷** keys. Press **=** to display the result.

- To clear the current entry, press **CE/C**.
- To clear all entries and memory, press **ON/AC**.

Fraction Calculations

The calculator supports fraction calculations in all four basic arithmetic types.

- To enter a fraction, use the **a^b/c** key. For example, to enter 1/2, press **1 a^b/c 2**.
- To convert a fraction to a decimal and vice versa, press **F↔D** (located above the **a^b/c** key, accessed with **2nd**).

Trigonometric Functions

Perform trigonometric calculations (sine, cosine, tangent) and their inverses.

- Ensure the correct angle unit (degrees, radians, or grads) is selected. Press **DRG** to cycle through **DEG** (degrees), **RAD** (radians), and **GRAD** (grads). The current unit is displayed on the screen.
- Use **SIN**, **COS**, **TAN** for direct functions.
- For inverse trigonometric functions ($\sin^{-1}$, $\cos^{-1}$, $\tan^{-1}$), press **2nd** followed by the respective trigonometric key.

One-Dimensional Statistics

The calculator can perform one-dimensional statistics, including mean, standard deviation, data sum, and square sum formation.

1. To enter statistics mode, press **2nd** then **STAT** (usually above a number key like 7 or 8, refer to your calculator's specific key layout).
2. Enter data points using the **DATA** key (often **Σ+**).
3. After entering data, use the statistics functions (e.g., $\bar{x}$ for mean, σx for standard deviation) which are typically accessed via **2nd** and other keys.

Coordinate Conversions

Convert between polar and rectangular coordinates, and degrees, minutes, seconds to decimal degrees.

- To convert polar to rectangular coordinates, use the **P↔R** function (accessed via **2nd**).
- To convert degrees, minutes, and seconds to decimal degrees, use the **DMS↔DD** function (accessed via **2nd**).

Memory Functions

The TI-30 ECO RS has 3 memory registers.

- To store a value: Enter the value, then press **STO**, followed by a number key (e.g., **1**, **2**, or **3**) to select the memory register.
- To recall a value: Press **RCL**, followed by the number key corresponding to the desired memory register.



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TI-30 ECO RS

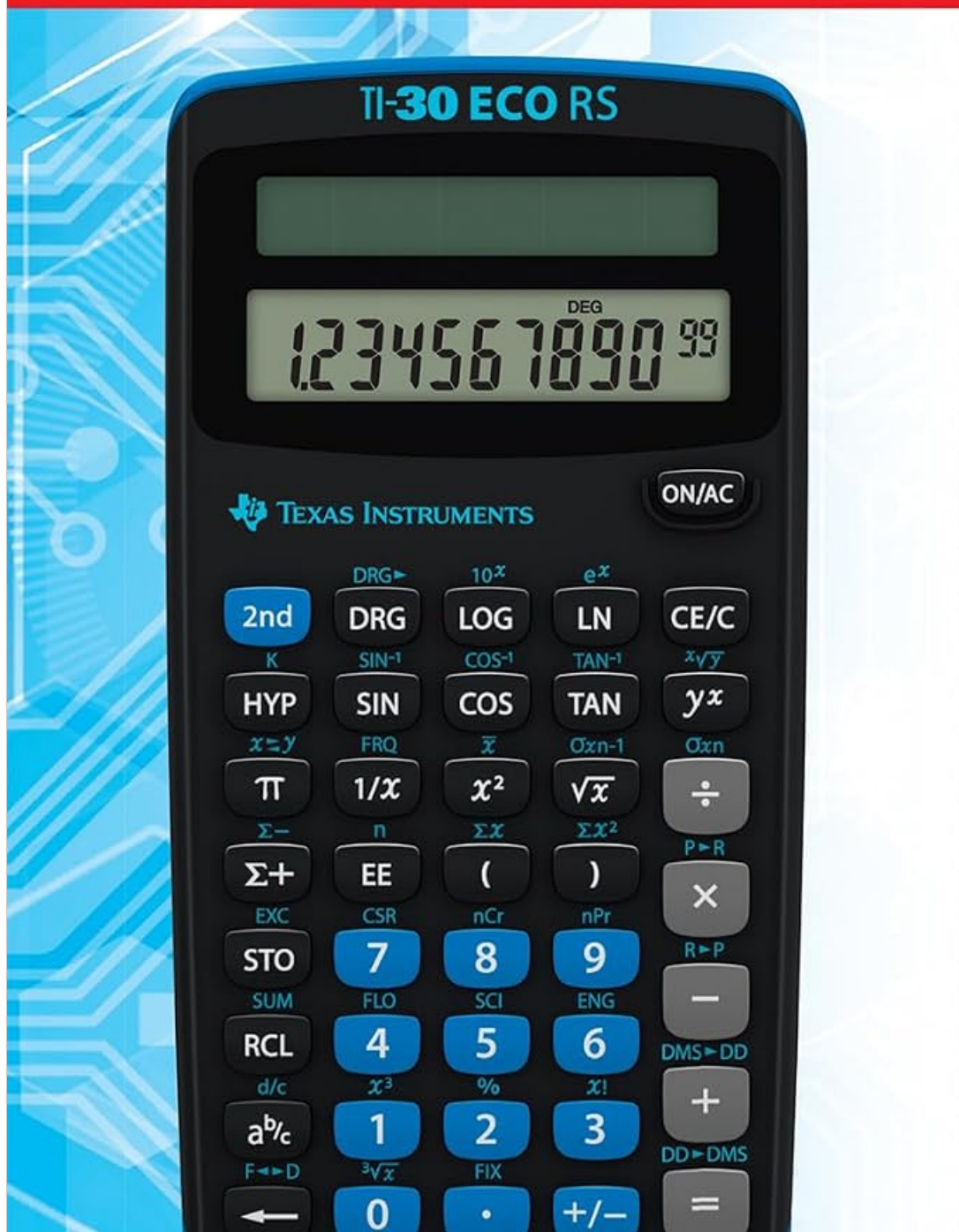




Image 2: The TI-30 ECO RS calculator shown within its retail packaging, highlighting its compact design.

MAINTENANCE

Cleaning

To clean the calculator, use a soft, dry cloth. For stubborn dirt, slightly dampen the cloth with water. Do not use harsh chemicals, abrasive cleaners, or solvents, as these can damage the calculator's surface and display.

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.

TROUBLESHOOTING

Display is Blank or Dim

- Ensure the calculator is exposed to sufficient light. The TI-30 ECO RS is solar-powered and requires light to operate.
- If in a dimly lit environment, move the calculator to a brighter area.
- Press **ON/AC** to ensure it is powered on.

Incorrect Calculation Results

- Verify that the correct angle unit (DEG, RAD, GRAD) is selected for trigonometric calculations.
- Check if any memory registers contain unintended values. Clear memory if necessary.
- Ensure all previous operations are cleared by pressing **ON/AC** before starting a new calculation.

SPECIFICATIONS

Model Number	TI-30 ECO RS
Display	Single-line, 10-digit display
Power Source	Solar Powered (ANYLITE solar cell)
Memory Registers	3
Housing Material	Recycled plastic
Dimensions (W x L x H)	79 mm x 153 mm x 18 mm (approx. 3.11 x 6.02 x 0.71 inches)
Item Weight	4.9 ounces
Color	Black with blue accents



6.02"





Image 3: The TI-30 ECO RS calculator displaying its physical dimensions for reference.

SUPPORT AND WARRANTY

Texas Instruments is committed to providing quality products and support. While specific warranty details are not provided in this manual, general support for Texas Instruments educational products can be found on their official website.

For additional resources, training materials, and educational support, please visit the official Texas Instruments Education Technology website.

Note: This product is designed for educational use and is often permitted in various school examinations. Always confirm with your institution regarding allowed calculator models for specific tests.

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