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Texas Instruments 30XIIS/TBL/1L1/BK

Texas Instruments TI-30XIIS Scientific Calculator User Manual

Model: TI-30XIIS/TBL/1L1/BK | Brand: Texas Instruments

1. Introduction and Overview

The Texas Instruments TI-30XIIS Scientific Calculator is a robust, professional-grade calculator designed for high school math and science. It features a two-line display that shows both the entry and calculated results simultaneously, enhancing clarity and ease of use. This calculator is suitable for general math, pre-algebra, algebra 1 and 2, geometry, statistics, and general science courses.
It is approved for use on standardized tests such as the SAT, ACT, and AP exams, making it a reliable tool for students. The calculator is dual-powered, utilizing both solar energy and battery power for consistent operation.

2. Key Features

- **Two-Line Display:** Shows entry and calculated result at the same time for improved readability.
- **Dual Power Source:** Operates on both solar energy and battery power (1 Lithium Metal battery included) for extended use.
- **Scientific Functions:** Includes comprehensive scientific and trigonometric functions, logs, and antilogs.
- **Statistical Calculations:** Easily handles 1- and 2-variable statistical calculations.
- **Fraction Features:** Supports fraction calculations and conversions.
- **Angle Modes:** Features three angle modes: degrees, radians, and grads.
- **Notation Modes:** Supports scientific and engineering notation modes.
- **Memory Functions:** Allows for editing, cutting, and pasting entries, and assigning values to five memory slots.
- **Previous Entry Review:** Enables review of previous entries to check calculations or patterns.

3. Setup

The TI-30XIIS calculator is ready for use upon purchase. It is powered by both solar cells and a pre-installed lithium metal battery. No initial setup or battery installation is typically required.

Powering On/Off:

- To turn the calculator **ON**, press the **ON** button located at the bottom left of the keypad.
- To turn the calculator **OFF**, press the **2nd** button (top left, blue) followed by the **OFF** button (which is the same as the **ON** button).

Protective Cover:

The calculator comes with a snap-on protective cover. This cover can be attached to the back of the calculator during use or stored separately to protect the keypad and screen when not in use or during transport.

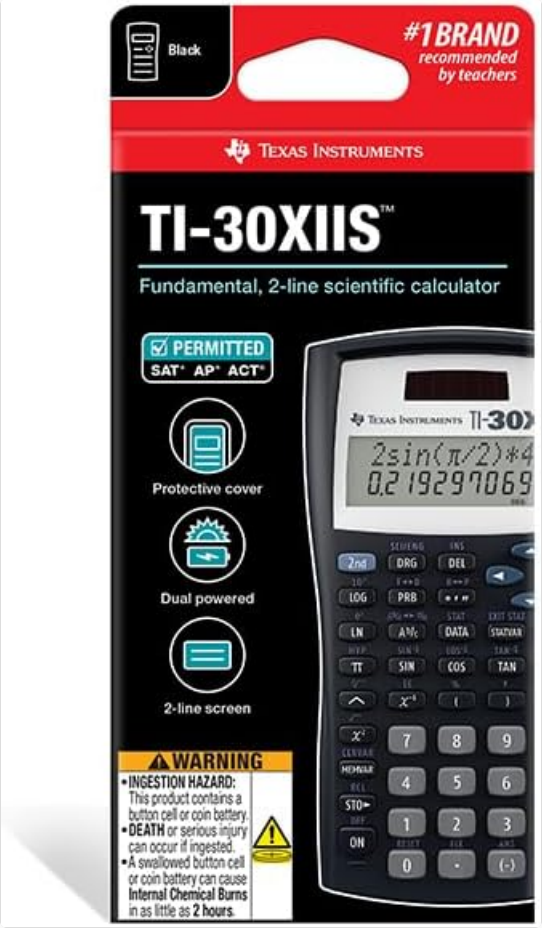


Image: The TI-30XIIS calculator with its protective cover. The cover slides onto the back of the calculator for convenient storage and protection.

4. Operating Instructions

Basic Operations:

Perform standard arithmetic operations using the number keys and the +, -, ×, ÷ buttons. The two-line display shows your input on the top line and the result on the bottom line.

Accessing Secondary Functions:

Many keys have a secondary function, indicated by text above the primary key label. To access these functions, press the **2nd** button (blue) first, then the desired function key.

Previous Entries and Editing:

The calculator stores a history of previous calculations. Use the up and down arrow keys (▲ and ▼) to scroll through past entries. You can then use the left and right arrow keys (◄ and ►) to navigate within an entry and edit it before re-evaluating.

Clearing Entries and Memory:

- **CLEAR:** Clears the current entry line or error message.
- **DEL:** Deletes the character at the cursor position.
- **CLRVAR:** Clears all variables.
- **CLRDATA:** Clears all data points without exiting STAT mode.
- **RESET:** Resets the unit, clearing all settings and memory.



Image: Front view of the TI-30XIIS calculator, highlighting the keypad layout and two-line display for input and results.

5. Maintenance

Cleaning:

To clean the calculator, use a soft, dry cloth. Do not use abrasive cleaners or solvents, as these may damage the unit.

Battery Replacement:

The TI-30XIIS is primarily solar-powered, but it also contains a lithium metal battery for low-light conditions. The battery is included and generally has a long lifespan. If the display becomes dim or unresponsive in adequate light, the battery may need replacement. Refer to the detailed user guide (link provided in Section 7) for specific instructions on battery replacement, as improper handling can damage the device or pose a safety risk.

Storage:

Store the calculator in its protective cover when not in use to prevent scratches and damage to the screen and keys. Avoid exposing the calculator to extreme temperatures or humidity.

6. Troubleshooting

- **Calculator Not Turning On:** Ensure the calculator is exposed to sufficient light for solar power. If it still doesn't turn on, the internal battery may be depleted.
- **Dim Display:** If the display is dim even in bright light, the battery may be low.
- **Incorrect Results:** Check your input carefully. Ensure you are in the correct angle mode (degrees, radians, or grads) for trigonometric calculations. Resetting the calculator (using the RESET button or by turning it off and on) can sometimes resolve unexpected behavior.
- **"ERROR" Message:** An error message indicates an invalid operation or input. Consult the user guide for a list of error codes and their meanings.

7. Specifications

Attribute	Detail
Product Dimensions	6.12 x 3.23 x 0.1 inches
Item Weight	4.8 ounces
Model Number	30XIIS/TBL/1L1/BK
Batteries	1 Lithium Metal battery required (included)
Power Source	Solar and Battery Powered
Screen Size	3 inches
Color	Black with Blue Accents
Manufacturer	Texas Instruments
Country of Origin	Philippines

8. Warranty and Support

For detailed warranty information and customer support, please refer to the official Texas Instruments website or the included user guide. The manufacturer is Texas Instruments.

User Guide (PDF): Download User Guide

For further assistance, you may contact Texas Instruments customer support directly.

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