





Image 1.1: The OSALO Scientific Calculator OS 82MS Pro.

2. PRODUCT OVERVIEW

The OSALO OS 82MS Pro is a scientific calculator featuring 240 functions and a 2-line display capable of showing 10+2 digits. It is equipped with a multi-replay function, supports combination and permutation calculations, and includes a statistical data editor for 1 and 2 variable statistical calculations. The calculator utilizes durable plastic keys and comes with a protective slide-on hard case.

SCIENTIFIC CALCULATOR

240 Functions / 2-Line Display / 10+2 Digits

- Multi-replay function
- Combination and Permutation
- Statistics
(STAT-data editor, Standard deviation, Regression analysis)
- 9 variable memories
- Plastic keys
- Comes with slide-on hard case



OS-82MS Pro

Image 2.1: Overview of the OSALO OS 82MS Pro's key features, including 240 functions and a 2-line display.

2.1 Key Components

Familiarize yourself with the main parts of your calculator:

• SPECIFICATION •



Image 2.2: Labeled diagram indicating the extra large display, SHIFT key, cursor control keys, Mode key, Power On button, function keys, Delete key, and Last Answer key.

- **Extra Large Display:** Shows input formulas and calculation results on two lines.
- **SHIFT Key:** Activates secondary functions printed above the keys.
- **ALPHA Key:** Activates alpha-numeric functions and variable storage.
- **Cursor Control Keys:** Navigate through expressions and menus.
- **MODE Key:** Changes calculation modes (e.g., COMP, STAT).
- **ON Key:** Powers on the calculator.
- **Function Keys:** Perform various mathematical operations (sin, cos, tan, log, etc.).

- **DEL Key:** Deletes the last entered character.
- **AC Key:** Clears all calculations and resets the calculator (except memory).
- **ANS Key:** Recalls the last answer.

3. SETUP

3.1 Power Source

The OSALO OS 82MS Pro calculator operates on both solar power and a single LR44 battery. This dual power system ensures reliable operation in various lighting conditions.



Image 3.1: The calculator utilizes both solar cells and an LR44 battery for power.

3.2 Battery Installation/Replacement

The calculator comes with one LR44 battery pre-installed. If the display becomes dim or unresponsive, the battery may need replacement.

1. Ensure the calculator is powered off.
2. Carefully slide off the hard cover from the back of the calculator.
3. Locate the battery compartment on the back.
4. Using a small screwdriver, open the battery compartment cover.
5. Remove the old LR44 battery and insert a new one, ensuring correct polarity (+/-).
6. Replace the battery compartment cover and secure it.

• SHOW DETAILS •



Image 3.2: Detail showing the button cell battery compartment on the back of the calculator.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

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

4.2 Basic Calculations

Enter numbers and operations in sequence. The 2-line display shows the input expression on the top line and the result on the bottom line.

- **Addition, Subtraction, Multiplication, Division:** Use the **+**, **-**, **x**, **÷** keys.
- **Equals:** Press **=** to get the result.
- **Clear:** Press **AC** to clear the current calculation.
- **Delete:** Press **DEL** to delete the last entered digit or command.

4.3 Replay Function

The multi-replay function allows you to recall and edit previous calculations. Use the cursor control keys (▲, ▼, ◀, ▶) to navigate through past entries and make corrections.



Image 4.1: The calculator's display demonstrating the replay function to review and edit previous calculations.

5. ADVANCED FUNCTIONS

The OS 82MS Pro offers 240 functions for various scientific and engineering calculations.

5.1 Trigonometric Functions

Use **sin**, **cos**, **tan** keys for sine, cosine, and tangent. Press **SHIFT** then the respective key for inverse trigonometric functions (**sin⁻¹**, **cos⁻¹**, **tan⁻¹**).

To change angle modes (degrees, radians, gradients), press **MODE** multiple times until the desired mode appears, then select the corresponding number.

5.2 Statistical Calculations

The calculator supports 1-variable and 2-variable statistical calculations. To enter STAT mode:

1. Press **MODE** and select the STAT option.
2. Choose the desired statistical calculation type (e.g., 1-VAR for single variable, A+BX for linear regression).
3. Input your data using the data editor.
4. After entering data, press **AC**.
5. To access statistical results (mean, standard deviation, sum, etc.), press **SHIFT** then **STAT** (usually above a number key) and select the desired parameter.

5.3 Other Functions

- **Roots and Powers:** Use **√**, **x²**, **x³**, **x^y** keys.
- **Logarithms:** Use **log** (base 10) and **ln** (natural logarithm) keys.
- **Factorials, Permutations, Combinations:** Access these via **SHIFT** and the relevant keys (**x!**, **nPr**, **nCr**).
- **Memory Functions:** Store and recall values using **STO** and **RCL** keys with variable letters (A-F, X, Y, M).

6. MAINTENANCE

- **Cleaning:** Wipe the calculator with a soft, dry cloth. Do not use abrasive cleaners, solvents, or wet cloths, as these can damage the device.
- **Storage:** Store the calculator in a cool, dry place away from direct sunlight and extreme temperatures. Always use the hard sliding cover to protect the keys and display from damage.
- **Battery Life:** The LR44 battery has a long lifespan. If the display becomes faint, replace the battery as described in Section 3.2.



Image 6.1: The hard sliding cover protects the calculator from damage when not in use.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Display is blank or dim.	Low battery or insufficient light for solar panel.	Replace the LR44 battery. Ensure adequate lighting for solar operation.
"ERROR" message appears.	Invalid input, mathematical error (e.g., division by zero, square root of a negative number).	Check your input expression for syntax errors. Press AC to clear the error and restart the calculation.
Keys are unresponsive.	Debris under keys or temporary malfunction.	Gently clean around the keys. Try pressing AC to reset. If the issue persists, replace the battery.
Incorrect calculation results.	Incorrect mode setting or input error.	Verify the calculator is in the correct mode (e.g., DEG for degrees). Double-check your input.

8. SPECIFICATIONS

- **Model:** OS 82MS Pro
- **Functions:** 240
- **Display:** 2-line, 10+2 digits
- **Power Source:** Solar and 1 x LR44 battery
- **Dimensions:** 6.38 x 3.15 x 0.1 inches (162 x 80 x 14 mm)
- **Weight:** 5.3 ounces (150 g)
- **Screen Size:** 2.36 Inches (60 x 24 mm)
- **Calculator Type:** Engineering/Scientific
- **Color:** Black
- **Manufacturer:** OSALO

• SIZE •

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Image 8.1: Physical dimensions of the OSALO OS 82MS Pro calculator.

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your product packaging or contact the retailer where the product was purchased. Specific warranty terms and conditions may vary.

For technical support or further assistance, please consult the official OSALO website or contact their customer

service department through the contact information provided on the product packaging or purchase receipt.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question