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> Airshi Portable GPS Multifunctional Meter FR510 User Manual

Airshi FR510

Airshi Portable GPS Multifunctional Meter FR510 User Manual

Model: FR510 | Brand: Airshi

INTRODUCTION

The Airshi Portable GPS Multifunctional Meter FR510 is a compact and versatile electronic device designed for outdoor enthusiasts. It integrates multiple essential functions to enhance safety and convenience during activities such as climbing, camping, hiking, and other adventures. This manual provides comprehensive instructions on how to set up, operate, and maintain your device.

GPS Multifunctional Meter

Integrated altimeter, barometer, compass
thermometer, hygrometer
time, date, alarm clock, LED flashlight functions



Image: The Airshi Portable GPS Multifunctional Meter shown in an outdoor environment, highlighting its use for hikers and adventurers.

PRODUCT OVERVIEW

The FR510 meter is equipped with high-precision sensors to deliver accurate and reliable readings. Its robust design, including IPX4 water resistance, makes it suitable for various outdoor conditions.

Key Functions:

- **GPS:** Provides distance, speed, vertical elevation rate, and return record capabilities.
- **Altimeter:** Measures altitude with historical records and altitude warning features.
- **Barometer:** Displays atmospheric pressure, historical pressure curves, and weather forecasts.
- **Compass:** Digital compass for navigation.
- **Thermometer:** Measures ambient temperature.
- **Hygrometer:** Measures ambient humidity.
- **Time & Alarm Clock:** Standard time display and alarm functionality.
- **LED Flashlight:** Integrated light for illumination.



Image: A clear front view of the Airshi Portable GPS Multifunctional Meter, displaying its illuminated screen and various function indicators.

SETUP

1. Charging the Device

The FR510 is equipped with a built-in 230 mAh lithium-ion battery. Before first use, fully charge the device.

1. Locate the charging port on the device.
2. Connect the provided charging cable to the device and a compatible USB power source (e.g., computer USB port, USB wall adapter).
3. The charging indicator on the screen will show the charging status.
4. Once fully charged, disconnect the cable.

2. Powering On/Off

- To power on: Press and hold the **POWER** button (usually located on the side or front) for a few seconds until the screen

illuminates.

- To power off: Press and hold the **POWER** button again until the device shuts down.

3. Initial Settings

Upon first power-on or after a reset, you may need to configure basic settings such as time zone, measurement units (metric/imperial), and sea level altitude for altimeter calibration. Refer to the "Operating Instructions" section for details on navigating menus using the **MODE** and **SET** buttons.



Image: The Airshi Portable GPS Multifunctional Meter displayed alongside its USB charging cable and a cleaning cloth, indicating included accessories for setup and maintenance.

OPERATING INSTRUCTIONS

The device features **MODE** and **SET** buttons for navigation and configuration. The **MODE** button typically cycles through different functions/screens, while the **SET** button is used to enter settings menus or confirm selections.

1. GPS Function

- **Activating GPS:** Navigate to the GPS screen using the **MODE** button. The device will automatically search for satellite signals. Ensure you are in an open area for best reception.
- **Display Information:** The GPS screen typically shows current coordinates, speed, distance traveled, and vertical elevation rate.
- **Return Record:** Use the **SET** button to mark a starting point or save a location. The device can then guide you back to this point.

2. Altimeter

- **Accessing Altimeter:** Cycle to the altimeter screen using the **MODE** button.
- **Measurement Range:** -700 to 9000 meters (-2296 to 29500 feet).
- **Accuracy:** 1 meter/foot.
- **Sea Level Calibration:** For accurate readings, calibrate the altimeter by entering a known sea level altitude for your current location. Press **SET** to enter calibration mode and adjust the value.
- **Altitude Warning:** Set a target altitude or a warning threshold. The device will alert you upon reaching or exceeding this altitude.

3. Barometer

- **Accessing Barometer:** Navigate to the barometer screen via the **MODE** button.
- **Measurement Range:** 300hpa to 1100hpa (8.84inHg to 32.44inHg).
- **Accuracy:** 0.1hpa (0.01inHg).
- **Weather Forecast:** The device provides a basic weather forecast (clear, cloudy to clear, cloudy, rainy) based on barometric pressure trends.
- **Barometric Trend:** An arrow indicator shows the trend of atmospheric pressure, helping predict short-term weather changes.

4. Compass

- **Accessing Compass:** Select the compass function using the **MODE** button.
- **Calibration:** For accurate readings, calibrate the compass by rotating the device in a figure-eight pattern when prompted.
- **Usage:** Hold the device level and away from magnetic interference for accurate directional readings.

5. Thermometer & Hygrometer

- **Accessing Readings:** These readings are often displayed on a dedicated screen or integrated with other functions.
- **Temperature Range:** -20°C to 60°C (approximate, based on typical device capabilities as spec was truncated).
- **Humidity Range:** Typically 20% to 95% RH (implied).
- **Note:** For accurate ambient temperature and humidity, avoid direct sunlight or holding the device for extended periods, as body heat can affect readings.

6. Time & Alarm Clock

- **Setting Time:** Navigate to the time display. Press **SET** to enter time setting mode. Adjust hours, minutes, and date using the **MODE** or other designated buttons, then confirm with **SET**.
- **Setting Alarm:** Access the alarm clock function. Set the desired alarm time and activate/deactivate the alarm.

7. LED Flashlight

- **Activating Flashlight:** A dedicated button or a long press on a specific button (e.g., **POWER** or **LIGHT**) usually activates the LED flashlight.
- **Deactivating Flashlight:** Repeat the action to turn off the flashlight.

DATA RECORDING

The FR510 can record various data points for later review and analysis.

- **Altitude Records:** The device stores 24-hour historical altitude records and graphs, including maximum and minimum altitude. It also tracks total altitude gain and loss.
- **Barometric Pressure Records:** A historical pressure curve for the last 24 hours is available.
- **Temperature and Humidity Records:** Maximum and minimum temperature and humidity readings are recorded.
- **GPS Track Records:** The device can record your GPS track, allowing you to review your route.

To access recorded data, navigate through the device's menus using the **MODE** button until you find the "Records" or "History" section. Use the **SET** button to view details or clear records.

MAINTENANCE

- **Cleaning:** Wipe the device with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Water Resistance:** The device has an IPX4 waterproof rating, meaning it is resistant to splashing water from any direction. It is **not** designed for submersion. Avoid exposing it to heavy rain or direct water jets.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Battery Care:** To prolong battery life, avoid fully discharging the battery frequently. Charge it regularly, especially if storing for extended periods.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low or depleted battery.	Charge the device fully using the provided USB cable.
Inaccurate GPS readings.	Poor satellite signal due to obstructions (buildings, dense forest) or indoor use.	Move to an open outdoor area with a clear view of the sky. Wait for the device to acquire sufficient satellite signals.
Altimeter readings are incorrect.	Altimeter not calibrated to current sea level pressure.	Calibrate the altimeter with a known local sea level altitude.
Compass shows incorrect direction.	Compass needs calibration or is affected by magnetic interference.	Calibrate the compass as per instructions. Move away from electronic devices, metal objects, or strong magnetic fields.
Screen is unresponsive or frozen.	Software glitch.	Perform a soft reset by holding the power button until the device restarts, or if available, use a small pin to press a reset button.

SPECIFICATIONS

Model Number	FR510
Power Source	1 x 230 mAh Lithium-ion battery (built-in)
Charging Voltage	DC 5V
Altimeter Range	-700 to 9000 meters (-2296 to 29500 feet)

Altimeter Accuracy	1 meter/foot
Barometer Range	300hpa to 1100hpa (8.84inHg to 32.44inHg)
Barometer Accuracy	0.1hpa (0.01inHg)
Temperature Measurement Range	-20°C to 60°C (approximate, based on typical device capabilities as spec was truncated)
Waterproof Rating	IPX4
Dimensions (Package)	16 x 11 x 4 cm
Country of Origin	China

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or contact the manufacturer directly. Keep your proof of purchase for any warranty claims.

Manufacturer: Airshi

Model Number: FR510

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This manual is for informational purposes only. Specifications are subject to change without notice.