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› [Wittime](#) /

› [Wittime Weather Station Indoor Outdoor Thermometer Wireless Battery Powered, Atomic Clock with Indoor Outdoor Temperature Weather Clock, Dew Mold Heat Index 2180 Black User Manual](#)

Wittime CASA-WT1-2180

Wittime Weather Station User Manual

Model: CASA-WT1-2180

Brand: Wittime

1. INTRODUCTION

Thank you for choosing the Wittime 2180 Weather Station. This device provides comprehensive indoor and outdoor weather information, including temperature, humidity, barometric pressure, and weather forecasts. It also features an atomic clock for precise timekeeping and dual alarms. This manual will guide you through the setup, operation, and maintenance of your new weather station.

Package Contents:

- 1 x Wittime 2180 Main Weather Station Unit
- 1 x Wireless Outdoor Sensor
- 1 x User Manual

2. PRODUCT FEATURES

The Wittime 2180 Weather Station is designed with a range of features to keep you informed about your environment:

- **Multi-function Display:** Shows weather forecast, indoor and outdoor temperature and humidity, barometric pressure, dew point, heat index, and mold indicator.
- **Atomic Clock with Dual Alarms:** Automatically updates time via WWVB signal (PST, MST, CST, EST time zones supported) and includes two customizable alarms.
- **Adjustable Screen Brightness:** Press the snooze/light button for 10 seconds of bright illumination, improving readability.
- **12-Hour Weather Forecast:** Provides a forecast based on barometric pressure changes (requires 7-10 days for initial calibration).
- **Barometric Pressure History:** Displays historical pressure data and trends.
- **Wide Range Wireless Sensor:** Supports up to 3 sensors (one included) with a transmission distance of up to 328ft (open area). Data updates every 30 seconds.
- **Versatile Placement:** Can be wall-mounted or placed on a tabletop using the integrated stand.

ALL THE USEFUL WEATHER DATA YOU NEED

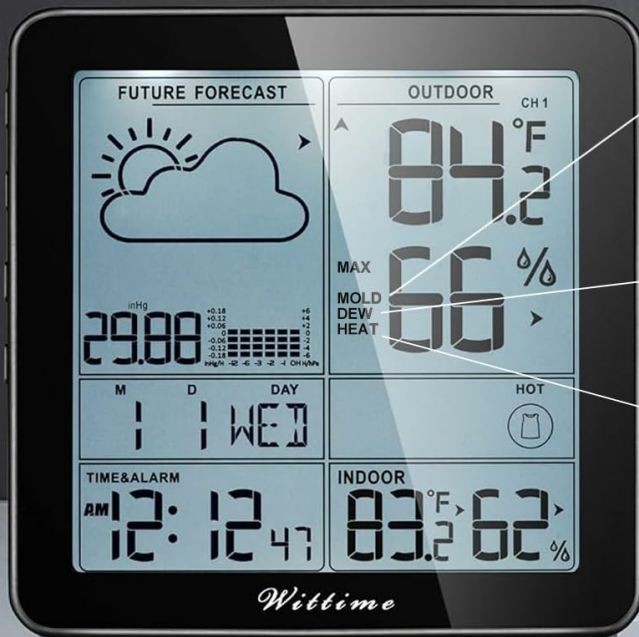
- 01 Indoor temperature and humidity
- 02 Outdoor temperature and humidity
- 03 7 Types of weather forecast
- 04 Barometric pressure and history
- 05 Dressing Index
- 06 Time & Date
- 07 Red transmission indicator light (every 30s)
- 08 Atomic Clock



Figure 2.1: Overview of the weather station's display and sensor, highlighting various data points.

3 INDICES HELP YOU BETTER UNDERSTAND THE WEATHER

MOLD INDEX / DEW INDEX / HEAT INDEX



MOLD:

It can detect humidity level of air to see if it will cause mold

DEW:

It can detect dew point to see if it will cause condensation

HEAT:

It can detect if the temperature is too high to see if it will cause heat

Figure 2.2: Explanation of the Mold, Dew, and Heat indices provided by the weather station.

3. SETUP

Follow these steps to set up your Wittime Weather Station:

- 1. Install Batteries in Main Unit:** Open the battery compartment on the back of the main unit. Insert 3 AA batteries, ensuring correct polarity (+/-).
- 2. Install Batteries in Wireless Sensor:** Open the battery compartment on the back of the wireless sensor. Insert 2 AA batteries, ensuring correct polarity (+/-).
- 3. Power On and Pairing:** The main unit will automatically search for the outdoor sensor. Place the sensor within range (ideally near the main unit initially). The outdoor temperature and humidity should appear on the main unit's display within a few minutes. If not, press the 'CH' button on the main unit to initiate a manual search.
- 4. Atomic Clock Synchronization:** The weather station will automatically attempt to synchronize with the WWVB atomic clock signal. This process may take several hours, especially during initial setup or if the unit is moved. Ensure the unit is placed near a window for better signal reception. You can manually select your time zone (PST, MST, CST, EST) using the settings buttons.

5. **Placement:** The main unit can be placed on a flat surface using its integrated stand or mounted on a wall using the keyhole slot on the back. The outdoor sensor should be placed in a shaded, dry location away from direct sunlight and precipitation for accurate readings.

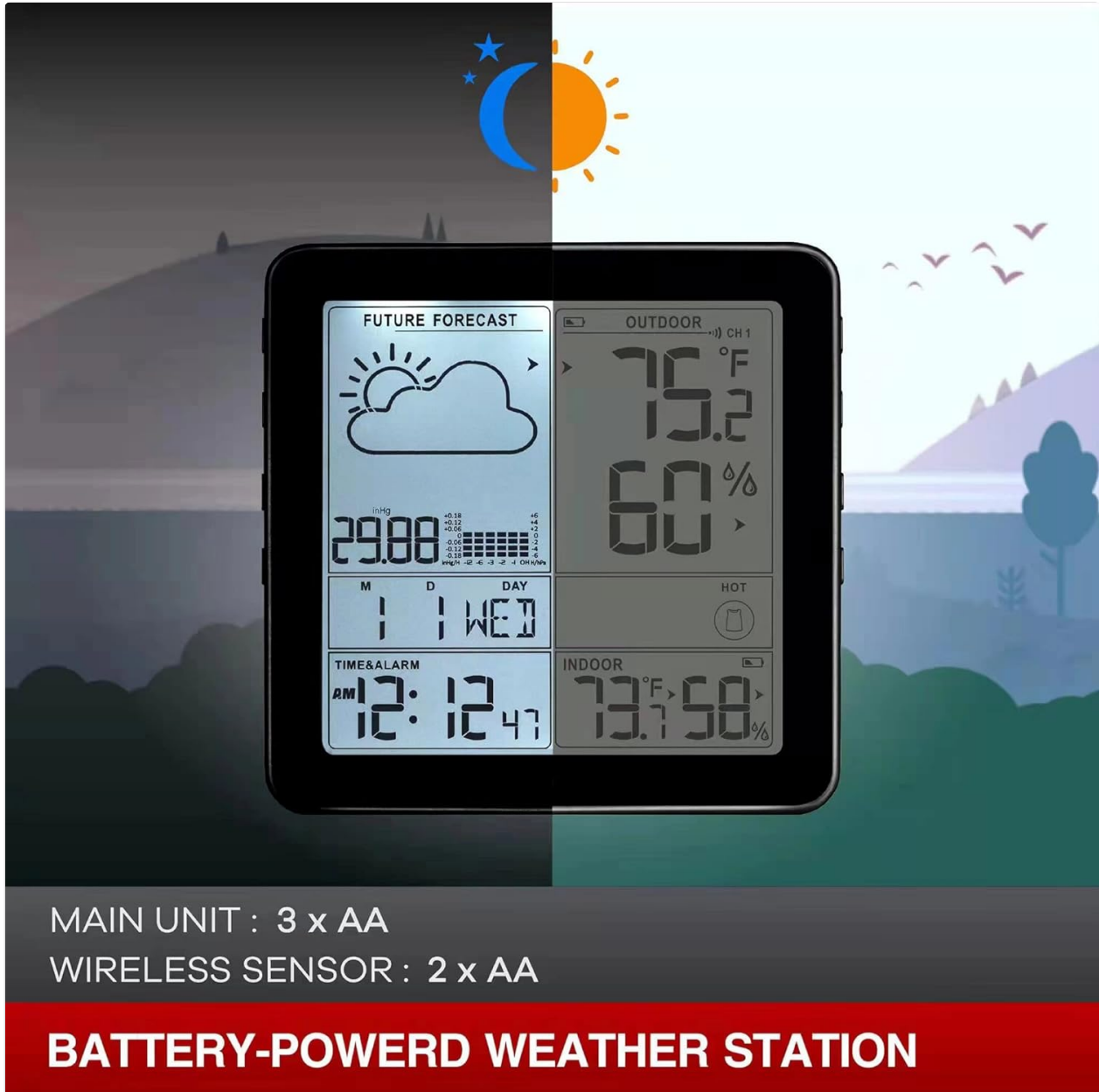


Figure 3.1: The weather station is battery-powered, requiring 3 AA batteries for the main unit and 2 AA batteries for the wireless sensor.

ATOMIC CLOCK WITH WWVB FUNCTION



Figure 3.2: The atomic clock function automatically sets the time and date via WWVB signal.

ATOMIC CLOCK WITH WWVB FUNCTION SET UP TIME AND DATE AUTOMATICALLY 4 time zone settings (PST-MST-CST-EST)



Figure 3.3: The atomic clock feature ensures accurate time and date settings.

4. OPERATING INSTRUCTIONS

Understanding the display and controls of your weather station:



Figure 4.1: Main display layout of the Wittime 2180 Weather Station.

4.1 Display Overview

- **Future Forecast:** Displays predicted weather conditions (sunny, cloudy, rainy, etc.).
- **Outdoor Section:** Shows outdoor temperature and humidity, along with the active sensor channel.
- **Barometric Pressure:** Displays current pressure and a historical graph.
- **Time & Date:** Shows current time, day of the week, and date.
- **Indoor Section:** Displays indoor temperature and humidity.
- **Indices:** Includes Mold, Dew, and Heat indices for environmental awareness.

4.2 Button Functions

The main unit features several buttons for control:

- **MODE:** Cycles through display modes or enters setting mode.
- **+:** Increases values during setting, or changes display options.
- **-:** Decreases values during setting, or changes display options.
- **CH:** Changes the outdoor sensor channel (if multiple sensors are used) or initiates sensor search.
- **SNOOZE/LIGHT:** Activates backlight for 10 seconds; functions as snooze during alarm.

- **ALARM 1/ALARM 2 ON/OFF:** Switches alarms on or off.

4.3 Setting Time and Alarms

1. Press and hold the **MODE** button to enter time setting mode.
2. Use the **+** or **-** buttons to adjust the flashing value (e.g., hour, minute, year, month, day).
3. Press **MODE** again to confirm and move to the next setting.
4. To set alarms, press **MODE** until 'AL1' or 'AL2' appears. Press and hold **MODE** to enter alarm setting. Adjust time using **+** or **-**.
5. Toggle alarms ON/OFF using the dedicated ALARM switches on the side.

4.4 Understanding Weather Forecast

The weather station predicts weather based on barometric pressure changes. The forecast icons represent:

- Sunny
- Partly Cloudy
- Cloudy
- Rainy
- Snowy

Initial calibration for accurate forecasting takes 7 to 10 days. The barometric pressure display also includes a historical table and trend indicator for local pressure changes.

CHOOSE APPROPRIATE CLOTHING BASED ON THE TEMPERATURE

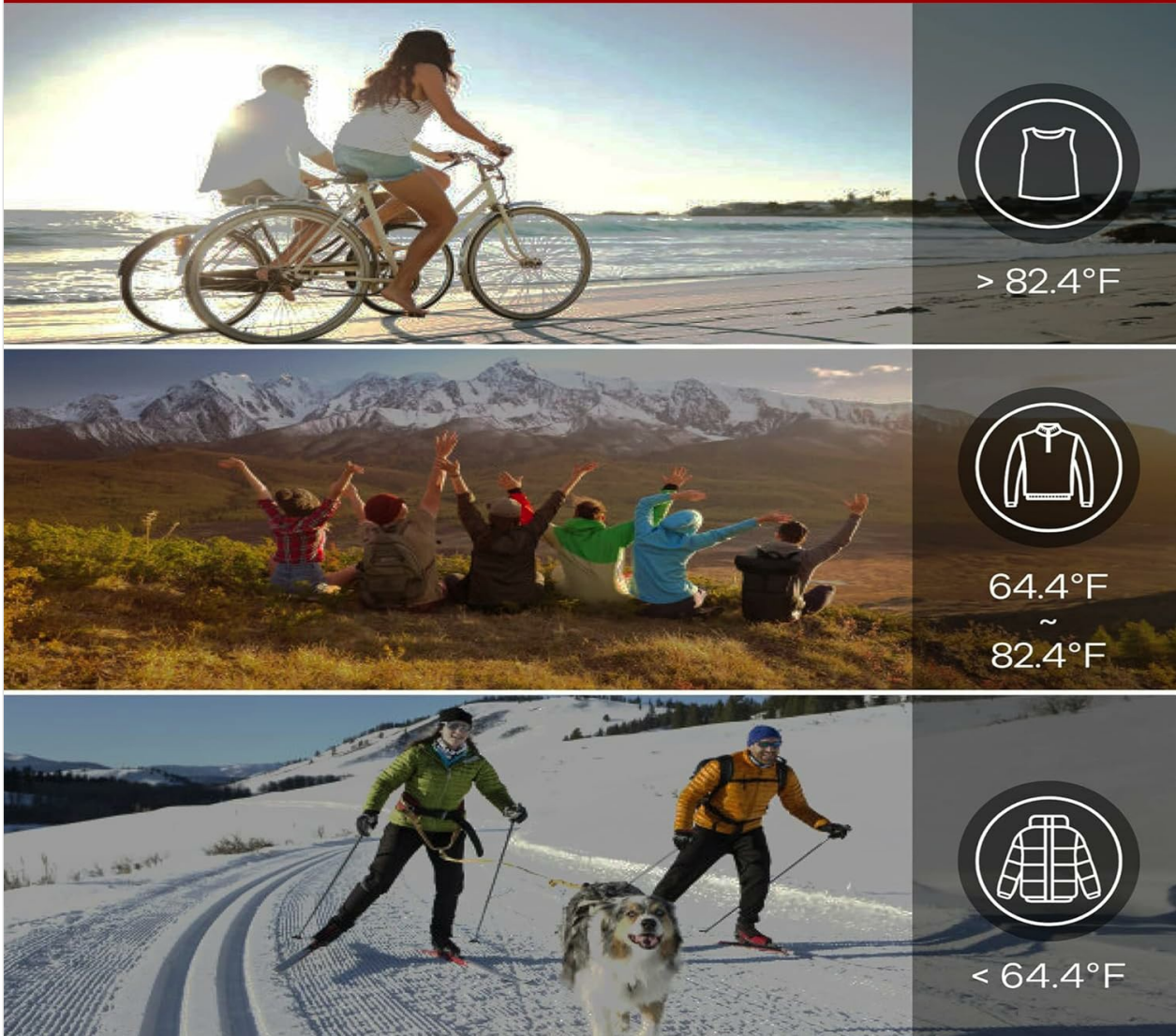


Figure 4.2: The weather station helps you choose appropriate clothing based on temperature.

5. MAINTENANCE

To ensure optimal performance and longevity of your Wittime Weather Station:

- **Battery Replacement:** Replace batteries in both the main unit and the outdoor sensor when the low battery indicator appears on the display. Use fresh AA alkaline batteries.
- **Cleaning:** Wipe the display and unit surfaces with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Sensor Placement:** Periodically check the outdoor sensor's location to ensure it remains protected from direct elements and has clear transmission to the main unit.

6. TROUBLESHOOTING

If you encounter issues with your weather station, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No outdoor temperature/humidity reading.	Sensor out of range, low sensor battery, interference.	Move sensor closer to main unit. Replace sensor batteries. Press 'CH' button on main unit to re-sync.
Incorrect time display.	Atomic clock signal not received, incorrect time zone.	Ensure unit is near a window. Allow time for synchronization. Check and set correct time zone.
Weather forecast inaccurate.	Initial calibration period not complete.	Allow 7-10 days for the station to calibrate to local barometric pressure changes.
Display is dim or blank.	Low main unit battery.	Replace main unit batteries.

7. SPECIFICATIONS

Feature	Detail
Model Number	CASA-WT1-2180
Product Dimensions	2.2 x 6.1 x 8.7 inches
Weight	15.52 ounces
Power Source (Main Unit)	3 x AA batteries (not included)
Power Source (Wireless Sensor)	2 x AA batteries (not included)
Temperature Accuracy	± 0.5°F
Humidity Accuracy	± 2%
Wireless Range	Up to 328ft (open area)
Material	Plastic
Connectivity Technology	Wireless



Figure 7.1: Product dimensions of the Wittime 2180 Weather Station.

8. PRODUCT VIDEO

Watch this official product video for a visual overview of the Wittime 2180 Weather Station's features and functionality:

Your browser does not support the video tag.

Video 8.1: Wittime 2180 Weather Station Indoor Outdoor Thermometer Overview.

9. WARRANTY AND SUPPORT

Wittime offers a manufacturer warranty for 12 months from the date of purchase. In the event that you are not completely satisfied with your item or receive a defective product, please contact Wittime customer support for assistance. Please refer to the contact information provided with your product packaging or visit the official Wittime website for support details.