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Ambient Weather WS-08-X4

Ambient Weather WS-08-X4 Wireless 8-Channel Thermo-Hygrometer Instruction Manual

Model: WS-08-X4 | Brand: Ambient Weather

1. INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, and maintenance of your Ambient Weather WS-08-X4 Wireless Indoor/Outdoor 8-Channel Thermo-Hygrometer. This device is designed to monitor temperature and humidity in up to eight remote locations, offering a clear, large-digit display for easy readability.

2. PACKAGE CONTENTS

- 1x WS-08-X4 Main Console Unit
- 4x F007TH Remote Thermo-Hygrometer Sensors
- Instruction Manual (this document)

Note: 4x AAA batteries for the main unit and 2x AAA batteries for each remote sensor are not included.

3. KEY FEATURES

- Indoor/Outdoor temperature and humidity monitoring.
- Supports up to 8 remote sensors (four F007TH sensors included).
- Large, uncluttered jumbo display for easy reading.
- Sensor search mode for re-syncing sensors without battery removal.
- Optional temperature and humidity calibration for enhanced accuracy.
- Time of day alarm function.
- Comfort level and rate of change indicators.
- Scroll mode to automatically display each sensor every 5 seconds.
- Dip switch selectable remote channels.
- Min/Max memory for indoor/outdoor temperature and humidity, resettable daily or manually.
- Transmission range: up to 300 feet line of sight (100 feet under most conditions).
- Frequency: 433 MHz.

- Update Rate: 60 seconds.

4. SETUP GUIDE

4.1 Battery Installation

1. Remote Sensors (F007TH):

- Remove the battery cover from the back of each remote sensor.
- Insert 2x AAA batteries into each sensor, observing polarity (+/-).
- Replace the battery cover, ensuring it is securely fastened to protect against elements.

2. Main Console Unit (WS-08-X4):

- Open the battery compartment on the back of the main console.
- Insert 4x AAA batteries, observing polarity (+/-).
- Close the battery compartment. The console display should activate.

4.2 Setting Sensor Channels

Each remote sensor has dip switches inside the battery compartment to assign a unique channel (1-8) and select temperature units (°F or °C). It is crucial to assign a different channel to each sensor you intend to use.

- Open the battery compartment of a remote sensor.
- Locate the small dip switches (labeled 1-4).
- Refer to the chart printed on the sensor's back cover (or within the manual) to set the switches for your desired channel (e.g., Channel 1, Channel 2, etc.).
- Switch 4 typically controls the unit of measure (°F or °C).
- After setting, replace the battery cover.

4.3 Syncing Sensors with Console

Once batteries are installed and channels are set for all sensors, the main console will automatically begin searching for signals. If a sensor is not detected, use the sensor search mode:

- Press and hold the "CHANNEL" button on the main console for a few seconds until the console enters search mode.
- The console will scan for available sensors. Ensure sensors are within range.
- Once detected, the temperature and humidity readings for each channel will appear on the display.

4.4 Sensor Placement Guidelines

- Place remote sensors in shaded areas to avoid direct sunlight, which can cause inaccurate temperature readings.
- Ensure sensors are protected from direct rain and snow.
- Position sensors within the effective transmission range of the main console (up to 300 feet line of sight, 100 feet with obstructions).
- Avoid placing sensors near large metal objects or electrical appliances that may interfere with the wireless signal.

5. OPERATION

5.1 Understanding the Display



Figure 1: The Ambient Weather WS-08-X4 main console displaying indoor and multiple outdoor sensor readings, alongside the four included remote sensors.

The main console displays indoor temperature and humidity, along with readings from up to eight remote channels. Each channel shows temperature (°F or °C) and humidity (%). Comfort level and rate of change indicators may also be present.

5.2 Scroll Mode

In scroll mode, the console automatically cycles through and displays the indoor thermo-hygrometer readings and each detected remote channel at 5-second intervals. This allows for continuous monitoring of all active locations without manual intervention.

5.3 Min/Max Memory

The console records the minimum and maximum temperature and humidity values for both the indoor unit and each remote sensor. These values can be reset daily (at midnight) or manually.

- Press the "MIN/MAX" button to view the recorded minimum and maximum values.
- To manually reset the Min/Max values, press and hold the "MIN/MAX" button until the values clear.

5.4 Alarm Function

The device includes a time of day alarm. Consult the full user manual for detailed instructions on setting and managing alarms for specific temperature or humidity thresholds.

6. MAINTENANCE

- **Battery Replacement:** Replace batteries in both the main console and remote sensors when the low battery indicator appears on the display. Use fresh, high-quality AAA batteries.
- **Cleaning:** Wipe the console and sensors with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Sensor Protection:** Periodically check remote sensors for any signs of water ingress or damage. Ensure they remain in shaded, protected locations.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No remote sensor readings on console.	Batteries are low or incorrectly installed. Sensor is out of range or signal interference. Incorrect channel setting on sensor.	Replace batteries in sensor and console. Relocate sensor closer to console or away from interference sources. Verify dip switch settings for the correct channel. Perform a sensor search on the console.
Inaccurate temperature/humidity readings.	Sensor exposed to direct sunlight or heat source. Sensor needs calibration.	Relocate sensor to a shaded area. Refer to the full user manual for optional calibration procedures.
Console display is blank or dim.	Low or dead batteries in console.	Replace all 4x AAA batteries in the main console.

8. SPECIFICATIONS

Feature	Detail
Brand	Ambient Weather
Model Number	WS-08-X4
Power Source (Main Unit)	4 x AAA batteries (not included)
Power Source (Remote Sensor)	2 x AAA batteries (not included)
Outdoor Temperature Range (Lithium Batteries)	-40°F to 140°F (-40°C to 60°C)
Outdoor Temperature Range (Non-Lithium Batteries)	-4°F to 140°F (-20°C to 60°C)
Indoor/Outdoor Humidity Range	10% to 99%
Transmission Frequency	433 MHz
Update Rate	60 seconds
Console Dimensions (LxHxW)	4.50 x 5.0 x 1.00 inches
LCD Dimensions (LxW)	3.75 x 3.50 inches
Material	Plastic
Color	Silver

9. WARRANTY AND SUPPORT

This Ambient Weather WS-08-X4 Thermo-Hygrometer comes with a **1-year manufacturer's warranty**. For technical support, troubleshooting assistance, or warranty claims, please contact Ambient Weather customer service. Refer to the official Ambient Weather website for the most current contact information and support resources.

Online Resources: For additional information, FAQs, and product registration, please visit the [Ambient Weather Store on Amazon](#).



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