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EXCELVAN WH1281

EXCELVAN WH1281 Wireless Digital Weather Station User Manual

Model: WH1281

1. INTRODUCTION

Thank you for choosing the EXCELVAN WH1281 Wireless Digital Weather Station. This device provides accurate indoor and outdoor temperature and humidity readings, along with a weather forecast display. Please read this manual carefully before use to ensure proper operation and to maximize the lifespan of your product.

2. PRODUCT COMPONENTS

The EXCELVAN WH1281 Weather Station consists of two main parts:

- **Main Display Unit:** Displays indoor/outdoor temperature, humidity, time, and weather forecast.
- **Wireless Outdoor Sensor:** Measures outdoor temperature and transmits data to the main unit. This sensor is waterproof.



Image 1: Main Display Unit and Wireless Outdoor Sensor. The effective transmission distance between the sensor and the main unit is up to 100 meters in open areas.



Image 2: Separate view of the main display unit and the wireless outdoor temperature sensor.

3. SETUP GUIDE

3.1 Battery Installation

Batteries are not included and must be purchased separately. Both the main unit and the outdoor sensor require batteries for operation.

1. Outdoor Sensor:

- Open the battery compartment cover on the back of the outdoor sensor.
- Insert 2 x 1.5V AAA batteries, ensuring correct polarity (+/-).
- Close the battery compartment cover securely.



Image 3: Rear view of the outdoor sensor, indicating the battery compartment and power requirements (2x1.5V AAA batteries).

2. Main Display Unit:

- Open the battery compartment cover on the back of the main unit.
- Insert batteries (typically AAA or AA, refer to the unit's markings for exact type and quantity), ensuring correct polarity (+/-).
- Close the battery compartment cover securely.

3.2 Sensor Pairing and Initial Synchronization

For optimal performance, always insert batteries into the outdoor sensor first, then into the main display unit. This ensures proper synchronization.

1. After inserting batteries into both units, the main display unit will automatically search for the outdoor sensor. This process may take a few minutes.
2. Once connected, the outdoor temperature and humidity will appear on the main display. If the connection is not established, try pressing the "CH" button on the main unit to manually search for the sensor, or remove and reinsert batteries in both units.

3.3 Placement of the Outdoor Sensor

To ensure accurate readings and prolong the sensor's life:

- Place the sensor in a shaded area, away from direct sunlight, which can cause artificially high temperature readings.
- Protect the sensor from direct rain and snow, even though it is designed to be waterproof. An overhang or protective cover is recommended.
- Ensure the sensor is within the effective transmission range (up to 100 meters in open air) of the main unit. Walls and other obstructions can reduce this range.



Image 4: Example placement of the outdoor sensor, visible through a window, while the main unit is indoors.

4. OPERATING INSTRUCTIONS

4.1 Main Display Overview

The main display unit features a clear LED screen showing various environmental data and time information.



Image 5: Main display unit with active green backlight, showing current time, indoor temperature and humidity, outdoor temperature, and weather forecast icons.

Key display elements include:

- **Weather Forecast Icons:** Sun, clouds, rain, etc., indicating predicted weather trends.
- **Time Display:** Current time in HH:MM format.
- **Indoor Temperature & Humidity:** Current indoor conditions.
- **Outdoor Temperature:** Current temperature from the wireless sensor.
- **Signal Indicator:** Shows connection status with the outdoor sensor.

4.2 Button Functions

The main unit has several buttons for configuration and data viewing:

- **CH (Channel):** Used to switch between multiple outdoor sensors (if supported and additional sensors are purchased) or to manually search for the sensor.
- **SET:** Enters settings mode for time, date, and other parameters. Also confirms settings.

- **MODE:** Switches between different display modes (e.g., time, alarm).
- **MIN/MAX:** Displays the minimum and maximum recorded indoor/outdoor temperatures and humidity since the last reset. Press again to cycle through values. Long press to reset MIN/MAX records.
- **+ / -:** Used to adjust values during settings mode or to switch between Celsius (°C) and Fahrenheit (°F) temperature units (often by pressing one of these buttons outside of settings mode).

4.3 Setting Time and Date

1. Press and hold the "SET" button until the time display starts flashing.
2. Use the "+" or "-" buttons to adjust the hour.
3. Press "SET" to confirm the hour and move to the minute setting.
4. Repeat the process for minutes, year, month, and day.
5. Press "SET" again to exit the settings mode.

4.4 Temperature Unit Selection (°C/°F)

Outside of settings mode, press the "+" or "-" button (depending on model, usually "+") to toggle between Celsius (°C) and Fahrenheit (°F) temperature display.

5. MAINTENANCE

- **Battery Replacement:** Replace batteries in both the main unit and the outdoor sensor when the low battery indicator appears on the display. It is recommended to replace all batteries at the same time. For the outdoor sensor, users have reported batteries lasting approximately one year.
- **Cleaning:** Wipe the units with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Sensor Protection:** While the outdoor sensor is waterproof, placing it under an eave or protective cover can extend its lifespan and prevent direct exposure to extreme weather conditions.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display on main unit.	Dead or incorrectly installed batteries.	Check battery polarity and replace with fresh batteries.
Outdoor temperature not displayed or flashing.	No connection to outdoor sensor; sensor batteries low/dead; sensor out of range.	<ul style="list-style-type: none"> ◦ Ensure outdoor sensor batteries are fresh and correctly installed (install sensor batteries first). ◦ Press the "CH" button on the main unit to manually search for the sensor. ◦ Move the outdoor sensor closer to the main unit. ◦ Avoid major metal obstructions between units.
Inaccurate temperature readings.	Outdoor sensor exposed to direct sunlight or heat sources; units not stabilized.	<ul style="list-style-type: none"> ◦ Relocate the outdoor sensor to a shaded area. ◦ Allow both units to stabilize for several hours after initial setup or battery change.

Problem	Possible Cause	Solution
Clock loses time.	Non-radio controlled clock mechanism.	The WH1281 model is not radio-controlled. Manual time adjustment may be required periodically (e.g., monthly).

7. SPECIFICATIONS

Feature	Detail
Model	WH1281
Brand	EXCELVAN
Dimensions (Main Unit)	Approximately 143 x 81 x 27 mm (L x H x W)
Weight	Approximately 199.58 grams
Power Source (Main Unit)	Battery powered (type not specified, typically AAA or AA)
Power Source (Outdoor Sensor)	2 x 1.5V AAA Batteries
Display Type	LED
Special Feature	Waterproof outdoor sensor
Wireless Frequency	433.9 MHz
Effective Range	Up to 100 meters (open air)
UPC	708624290486

8. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact the retailer. For technical support or further inquiries, please reach out to EXCELVAN customer service or your point of purchase.

