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› VIFLYKOO EM3378UC Outdoor Weather Station Sensor User Manual

## VIFLYKOO EM3378UC

# VIFLYKOO EM3378UC Outdoor Weather Station Sensor User Manual

## 1. INTRODUCTION

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This manual provides detailed instructions for the VIFLYKOO EM3378UC Outdoor Sensor. This wireless sensor is designed to accurately measure outdoor temperature and humidity, transmitting data to a compatible weather station. Please read this manual thoroughly before use to ensure proper operation and longevity of your device.

### Package Contents:

- VIFLYKOO EM3378UC Outdoor Sensor (1 unit)

*Note: 2x AA batteries are required and not included in the package.*



Image 1.1: The VIFLYKOO EM3378UC Outdoor Sensor (left) shown next to a compatible indoor weather station display (right).

## 2. SAFETY INFORMATION

- Do not expose the sensor to extreme temperatures beyond its operating range (refer to specifications).
- Avoid direct exposure to water or heavy rain for prolonged periods, although the sensor is designed for outdoor use, extreme conditions may affect performance.
- Do not attempt to disassemble or repair the unit yourself. Contact customer support for assistance.
- Dispose of batteries according to local regulations. Do not mix old and new batteries or different types of batteries.

## 3. PRODUCT OVERVIEW

The VIFLYKOO EM3378UC sensor is a compact, wireless device designed for outdoor environmental monitoring. It features a small display for local readings and transmits data wirelessly to a main weather station.

## Sensor Components:

- **Temperature Display:** Shows current outdoor temperature.
- **Humidity Display:** Shows current outdoor humidity percentage.
- **Signal Light:** Indicates data transmission.
- **°C/°F Switch:** Button to toggle between Celsius and Fahrenheit temperature units.
- **TX Switch:** Transmission button for manual data sending or pairing.
- **Channel Button:** Selects the transmission channel (CH1, CH2, CH3).
- **Wall Hanging Hole:** For mounting the sensor on a wall or other vertical surface.
- **Battery Compartment:** Holds 2x AA batteries.

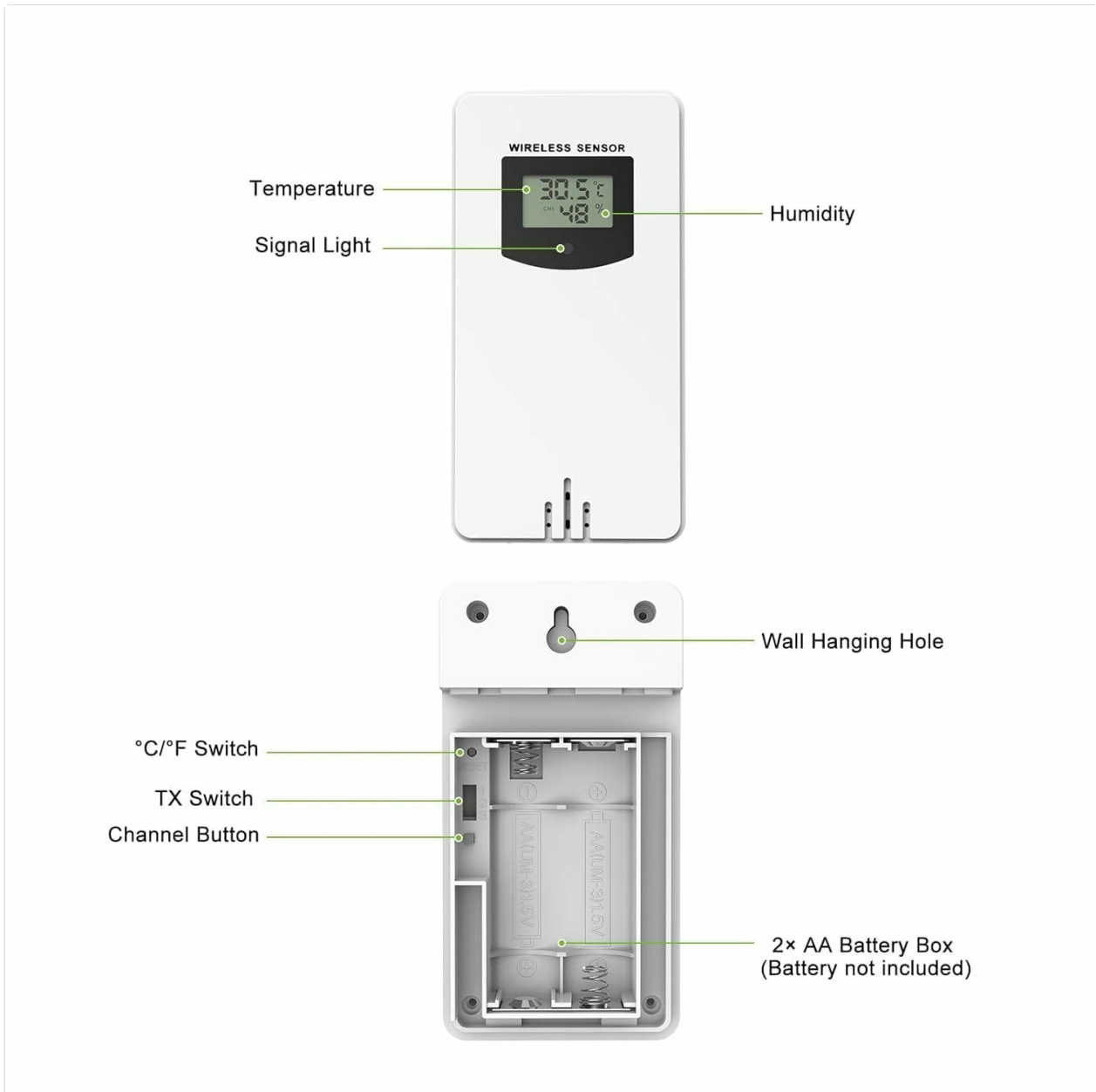


Image 3.1: Front and back view of the VIFLYKOO EM3378UC sensor with key components labeled.

## 4. SETUP

### 4.1 Battery Installation

1. Locate the battery compartment cover on the back of the sensor.
2. Slide the cover downwards to open the compartment.

3. Insert two (2) AA batteries, ensuring correct polarity (+/-).
4. Replace the battery compartment cover, sliding it upwards until it clicks into place.



Image 4.1: Illustration of battery installation in the VIFLYKOO EM3378UC Outdoor Sensor.

## 4.2 Pairing with Main Weather Station

The sensor is designed to work with compatible VIFLYKOO weather stations, including models EM3378UC, 3390F, 3383D, 378QX, 3378YC, and 3383C. Refer to your main weather station's manual for specific pairing instructions. Generally, the process involves:

1. Ensure both the sensor and the main station have fresh batteries installed.
2. Select a channel (CH1, CH2, or CH3) on the outdoor sensor using the Channel Button. Ensure this matches the channel selected on your main weather station for outdoor sensor data.
3. Initiate the sensor search function on your main weather station (refer to its manual).
4. Press the **TX Switch** button on the outdoor sensor to send a signal. The signal light will flash.
5. The main station should detect and display the sensor's data within a few minutes. If not, repeat the steps, ensuring the devices are within range.

## 4.3 Mounting the Sensor

For accurate readings, choose a mounting location that is protected from direct sunlight and heavy precipitation, but still allows for good air circulation. The sensor can be mounted flexibly:

- **Wall Mounting:** Use the integrated wall hanging hole and a suitable screw (not included) to secure the sensor to a wall, eave, or fence.
- **Bracket Mounting:** The sensor also features a fixing bracket for alternative mounting options.

The wireless transmission range is approximately 100-110 meters in open, unobstructed areas. With physical obstacles like walls, the effective range is about 50-60 meters. Position the sensor within this range of your main weather station.

## 5. OPERATION

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### 5.1 Temperature Unit Selection (°C/°F)

To switch between Celsius (°C) and Fahrenheit (°F) temperature display, press the **°C/°F Switch** button located inside the battery compartment. The display on the sensor will update accordingly.

### 5.2 Reading Data

The sensor's small LCD screen displays the current temperature and humidity. For a comprehensive view and historical data, refer to your main weather station's display.



Image 5.1: Examples of suitable locations for the VIFLYKOO EM3378UC sensor, including greenhouse, warehouse, office, kitchen, bedroom, and baby room.

## 6. MAINTENANCE

### 6.1 Cleaning

Wipe the sensor periodically with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these may damage the casing or internal components.

### 6.2 Battery Replacement

When the battery indicator on the sensor or main station shows low power, replace both AA batteries with new ones. Follow the battery installation steps in Section 4.1. After replacing batteries, you may need to re-pair the sensor with your main weather station.

## 7. TROUBLESHOOTING

- No readings on main station:

- Check if batteries are correctly installed and have sufficient power in both the sensor and the main station.
- Ensure the sensor and main station are set to the same channel.
- Verify that the sensor is within the effective transmission range (50-60m with obstacles, 100-110m unobstructed).
- Try re-pairing the sensor with the main station (refer to Section 4.2).

- **Inaccurate readings:**

- Ensure the sensor is mounted in a location protected from direct sunlight, which can cause artificially high temperature readings.
- Check for any obstructions around the sensor that might impede air circulation.
- Compare readings with a known accurate thermometer/hygrometer to confirm discrepancy.

- **Sensor display is blank:**

- Replace the batteries with new ones.

## 8. SPECIFICATIONS

Feature	Detail
Model Number	EM3378UC (TX07K)
Dimensions (L x W x H)	9.6 x 4.5 x 3 cm
Weight	50 g
Color	White
Power Source	2 x AA batteries (not included)
Transmission Frequency	433 MHz, 868 MHz
Transmission Range	Up to 110m (unobstructed), 60m (with obstacles)
Temperature Accuracy	±1 °C
Sensor Technology	Thermistors and Capacitive
Max Service Temperature	85 °C
Material	Plastic



Image 8.1: Physical dimensions of the VIFLYKOO EM3378UC Outdoor Sensor.

## 9. WARRANTY AND SUPPORT

VIFLYKOO products are designed for reliability and performance. For warranty information, technical support, or any questions regarding your EM3378UC Outdoor Sensor, please refer to the contact information provided with your main weather station or visit the official VIFLYKOO website. Please have your model number (EM3378UC or TX07K) and purchase details ready when contacting support.

This product is compatible with VIFLYKOO weather station models EM3378UC, 3390F, 3383D, 378QX, 3378YC, and 3383C.