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› U UNNI UN0581 Indoor Outdoor Thermometer Hygrometer Wireless Weather Station and UN03 Outdoor Sensor Protection Shield User Manual

## U UNNI UN0581

# U UNNI UN0581 Indoor Outdoor Thermometer Hygrometer Wireless Weather Station and UN03 Outdoor Sensor Protection Shield User Manual

Model: UN0581, UN03

## 1. INTRODUCTION

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This manual provides detailed instructions for the setup, operation, and maintenance of your U UNNI UN0581 Indoor Outdoor Thermometer Hygrometer Wireless Weather Station and the accompanying UN03 Outdoor Sensor Protection Shield. Please read this manual thoroughly before use to ensure proper functionality and longevity of your device.

## 2. PACKAGE CONTENTS

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- UN0581 Main Display Unit (1)
- UN0581 Wireless Outdoor Sensor (1)
- UN03 Outdoor Sensor Protection Shield (1)
- Mounting Hardware for UN03 Shield (Screws, Wall Plugs)
- User Manual (This document)
- **Note:** Batteries are not included and must be purchased separately.



Image: The UN0581 main display unit shown alongside the UN03 outdoor sensor protection shield.

### 3. PRODUCT FEATURES

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- **Advanced Wireless Technology:** Provides stable data transmission up to 330 feet (100 meters) radius.
- **Real-time Updates:** Temperature and humidity data transmitted every 30 seconds.
- **Clear Display:** Compact, easy-to-read display with black, bold information.
- **Backlight Function:** Tap the backlight button for 10 seconds of illumination in dark conditions.
- **Flexible Placement:** Main unit features tabletop stand and wall-mountable design.
- **UN03 Sensor Protection:** Wall-mountable or flat-surface placement for the shield, protecting the outdoor sensor.
- **High Precision:** Temperature accuracy +/-0.5°F, Humidity accuracy +/-2%.
- **Wide Range:** Outdoor temperature range -58°F to 158°F, Outdoor humidity range 1% to 99%.
- **IPX4 Waterproof:** The outdoor sensor is designed to withstand splashes from any direction.

# DETECT SUBTLE CHANGES HIGH-PRECISION

Temperature accuracy:  $\pm 0.5^{\circ}\text{F}$

Humidity accuracy:  $\pm 2\%$

Outdoor temperature range:  $-58^{\circ}\text{F} \sim 158^{\circ}\text{F}$

Outdoor humidity range: 1 ~ 99%



Image: Illustration highlighting the high-precision temperature and humidity measurement capabilities of the device.

# PROFESSIONAL INDOOR & OUTDOOR TEMPERATURE AND HUMIDITY MONITOR

1. OUTDOOR TEMPERATURE & HUMIDITY
2. WEATHER FORECAST
3. OUTDOOR INDEX
4. INDOOR TEMPERATURE & HUMIDITY
5. TREND
6. WATERPROOF: IPX4



Image: A diagram showing the UN0581 display unit and remote sensor with numbered callouts indicating various features like outdoor temperature, weather forecast, outdoor index, indoor temperature, trend, and waterproof rating.

## 4. SETUP INSTRUCTIONS

### 4.1. Installing Batteries in the Main Display Unit

1. Locate the battery compartment on the back of the UN0581 main display unit.
2. Open the battery compartment cover.
3. Insert 2 x AAA batteries (not included) according to the polarity markings (+/-).
4. Close the battery compartment cover securely.

### 4.2. Installing Batteries in the Wireless Outdoor Sensor

1. Locate the battery compartment on the back of the wireless outdoor sensor.
2. Open the battery compartment cover.
3. Insert 2 x AAA batteries (not included) according to the polarity markings (+/-).

4. Close the battery compartment cover securely.
5. The sensor will automatically attempt to pair with the main display unit.



Image: The UN0581 main display unit shown next to its remote outdoor sensor, illustrating the two primary components.

### 4.3. Pairing the Sensor with the Main Unit

Typically, the sensor and main unit will pair automatically once batteries are installed in both. If pairing does not occur:

- Ensure both units are within range (up to 330 feet in open air).
- Press the "Channel" or "Sync" button (if available, refer to specific unit markings) on the main display unit to initiate a search for the sensor.
- Press the "TX" button inside the sensor's battery compartment to manually send a signal.

### 4.4. Installing the UN03 Outdoor Sensor Protection Shield

The UN03 shield is designed to protect your outdoor sensor from direct sunlight, rain, and other environmental elements, ensuring more accurate readings and extending sensor life.

1. **Choose a Location:** Select a location outdoors that is representative of the general outdoor conditions, away from direct sunlight, heat sources, and heavy precipitation. The shield can be wall-mounted or placed on a flat surface.
2. **Insert Sensor:** Carefully place your wireless outdoor sensor inside the UN03 protection shield. Ensure it fits snugly and is positioned correctly.
3. **Mounting (Wall-mounted):**
  - Mark the desired mounting points on the wall using the shield's mounting holes as a guide.
  - Drill pilot holes if necessary.
  - Insert wall plugs into the drilled holes.
  - Secure the UN03 shield to the wall using the provided screws.
4. **Placement (Flat Surface):** If placing on a flat surface, ensure it is stable and level.





Image: A side view of the UN03 Outdoor Sensor Protection Shield, showing its multi-layered design for optimal airflow and protection.

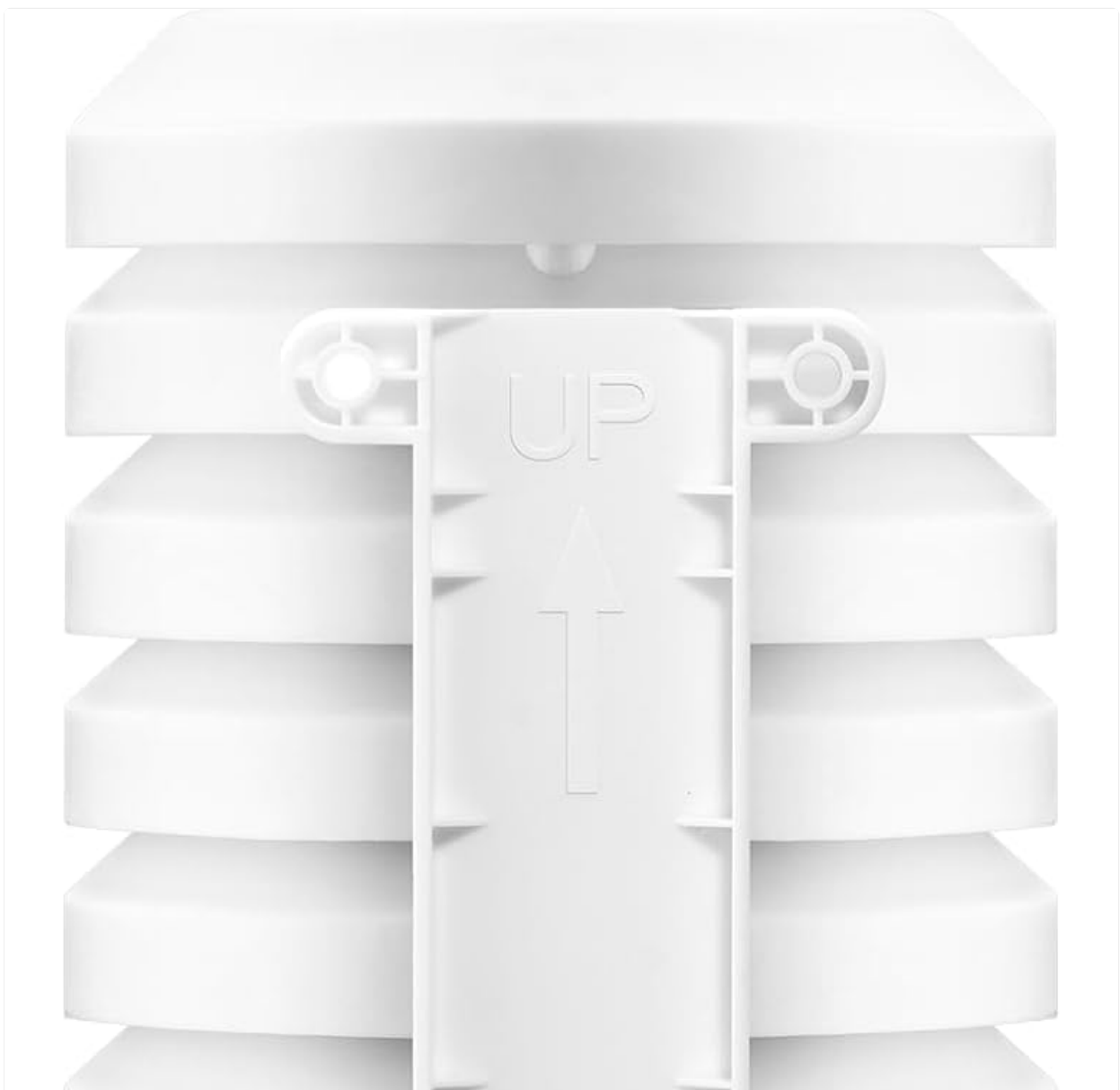




Image: The back view of the UN03 Outdoor Sensor Protection Shield, clearly indicating the "UP" direction for correct installation and showing the mounting bracket.



Image: The UN03 Outdoor Sensor Protection Shield displaying the U UNNI brand logo, model number UN03, and contact information.

## 5. OPERATING INSTRUCTIONS

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### 5.1. Reading the Display

The UN0581 display unit shows various information:

- **Outdoor Temperature & Humidity:** Displays current readings from the wireless sensor.
- **Indoor Temperature & Humidity:** Displays current readings from the main unit's internal sensor.
- **Weather Forecast:** An icon-based forecast (e.g., sunny, cloudy, rainy) based on atmospheric pressure changes.
- **Outdoor Index:** May include Dew Point, Heat Index, or other calculated values based on outdoor conditions.
- **Trend Indicators:** Arrows indicating whether temperature or humidity is rising, falling, or stable.
- **RF Signal Icon:** Indicates successful wireless connection to the outdoor sensor.

### 5.2. Backlight Function

To illuminate the display in low-light conditions, gently tap the backlight button (usually located on the top or front of the unit). The backlight will activate for approximately 10 seconds and then automatically turn off to conserve battery power.

### 5.3. Temperature Unit Selection (°F/°C)

To switch between Fahrenheit (°F) and Celsius (°C), locate the °F/°C button (often on the back or inside the battery compartment) and press it. The display will update to the selected unit.

## 6. MAINTENANCE

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- **Battery Replacement:** Replace batteries in both the main unit and the outdoor sensor when the low battery indicator appears on the display. Always replace all batteries in a unit at the same time with new ones of the same type.
- **Cleaning:** Clean the display unit and sensor with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these may damage the plastic components or screen.
- **Sensor Placement:** Periodically check the outdoor sensor and UN03 shield to ensure they remain free from debris, insects, or obstructions that could affect readings.

## 7. TROUBLESHOOTING

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Problem	Possible Cause	Solution
No display on main unit.	Batteries are dead or incorrectly inserted.	Replace batteries with new ones, ensuring correct polarity.
Outdoor readings not displayed or flashing.	Sensor out of range, low sensor battery, or interference.	Move sensor closer to the main unit. Replace sensor batteries. Relocate units away from electronic devices that may cause interference. Press the "TX" button on the sensor and "Channel/Sync" button on the main unit to re-establish connection.
Inaccurate readings.	Sensor exposed to direct sunlight, heat sources, or moisture.	Ensure the outdoor sensor is properly housed within the UN03 protection shield. Relocate the sensor to a shaded, well-ventilated area. Allow time for readings to stabilize after relocation.
Weather forecast icon not changing.	Insufficient time for pressure changes to register.	Allow 24-48 hours for the weather station to learn local atmospheric pressure patterns.

## 8. SPECIFICATIONS

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- **Model:** UN0581 (Main Unit), UN03 (Protection Shield)
- **Indoor Temperature Range:** Not specified, typically 32°F to 122°F (0°C to 50°C)
- **Outdoor Temperature Range:** -58°F to 158°F (-50°C to 70°C)
- **Indoor/Outdoor Humidity Range:** 1% to 99% RH
- **Temperature Accuracy:** +/-0.5°F (+/-0.3°C)
- **Humidity Accuracy:** +/-2% RH
- **Wireless Range:** Up to 330 feet (100 meters) in open air
- **Transmission Frequency:** 433 MHz (typical for such devices)
- **Update Interval:** Every 30 seconds
- **Main Unit Power:** 2 x AAA batteries (not included)
- **Outdoor Sensor Power:** 2 x AAA batteries (not included)
- **UN03 Shield Dimensions:** Approximately 3.35 x 4.13 x 7.05 inches (8.5 x 10.5 x 17.9 cm)
- **Waterproof Rating (Outdoor Sensor):** IPX4

## 9. WARRANTY AND SUPPORT

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For warranty information or technical support, please refer to the product packaging or contact U UNNI customer service directly. Contact details may be available on the official U UNNI website or through your purchase platform.

**Contact:** unni\_technology@hotmail.com (as seen on UN03 image)

