Brifit EU-WA100

Brifit EU-WA100 Indoor Outdoor Thermometer with 3 Wireless Sensors User Manual

Model: EU-WA100

1. INTRODUCTION AND OVERVIEW

The Brifit EU-WA100 Indoor Outdoor Thermometer provides real-time monitoring of temperature and humidity in up to four locations simultaneously. This device includes a main unit and three wireless remote sensors, allowing you to track environmental conditions both indoors and outdoors. It features a large backlit LCD display, records maximum and minimum values, and indicates comfort levels.

Image: The Brifit EU-WA100 main display unit and three wireless remote sensors.

2. PACKAGE CONTENTS

Please check the package to ensure all items are present:

- 1 x Brifit EU-WA100 Main Thermometer Host Unit
- 1 x USB Charging Cable (100 cm length)
- 3 x Wireless Remote Sensors (with lanyards)
- 3 x Transparent Suction Cups
- 1 x User Manual

3. PRODUCT FEATURES

- **Simultaneous Display:** Large 4.6-inch backlit LCD screen displays temperature and humidity for the main unit and three remote sensors, along with trend indicators and comfort levels.
- **Real-time Monitoring:** Provides current temperature and humidity readings.
- **Data Records:** Records maximum and minimum temperature and humidity values for the last 24 hours

or all-time.

- **Three Wireless Sensors:** Includes three remote sensors for monitoring multiple locations.
- **Extended Range:** Sensors can transmit data up to 100 meters (328 feet) in open areas without obstacles.
- **Dual Power Supply:** Main unit can be powered by 3x AA batteries or a USB cable. Remote sensors require 2x AAA batteries each.
- **Versatile Placement:** Main unit supports standing, wall-mounting, and magnetic attachment. Remote sensors can be stood, wall-mounted, or attached with suction cups.
- **Temperature Units:** Easily switch between Celsius (℃) and Fahrenheit (℉).
- **Backlight:** The main unit features a backlight for easy reading in low light conditions.

Image: An overview of the Brifit thermometer's key features, including temperature, humidity, trend indicator, high precision, and 3 channels.

4. Setup

4.1 Main Unit Setup

1. **Power Supply:**

   - Insert 3x AA batteries (not included) into the battery compartment, observing correct polarity.
   - Alternatively, connect the provided USB charging cable to the main unit and a power source. If both are connected, the USB power will be prioritized.

2. The main unit will power on and display indoor temperature and humidity.

4.2 Remote Sensor Setup

1. Insert 2x AAA batteries (not included) into each remote sensor, observing correct polarity.
2. The sensors will automatically attempt to pair with the main unit. The main unit will display the readings from each connected sensor on channels 1, 2, and 3.
3. If a sensor does not connect, press the "RF SEARCH CHANNEL" button on the main unit to initiate a

search. Ensure sensors are within range.

4. Place the remote sensors in desired locations (e.g., outdoors, in a greenhouse, or another room). Avoid placing them in direct sunlight or areas with poor ventilation, as this can affect measurement accuracy.
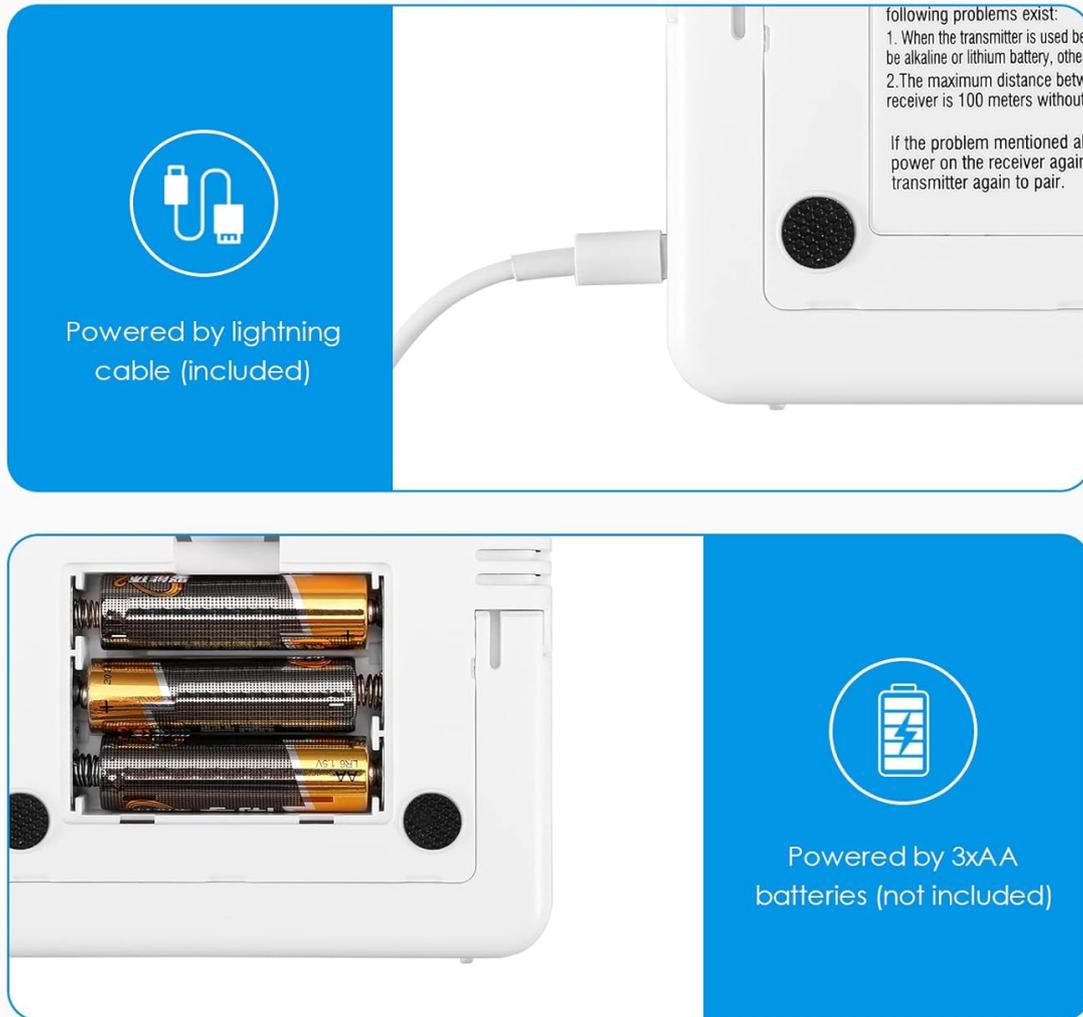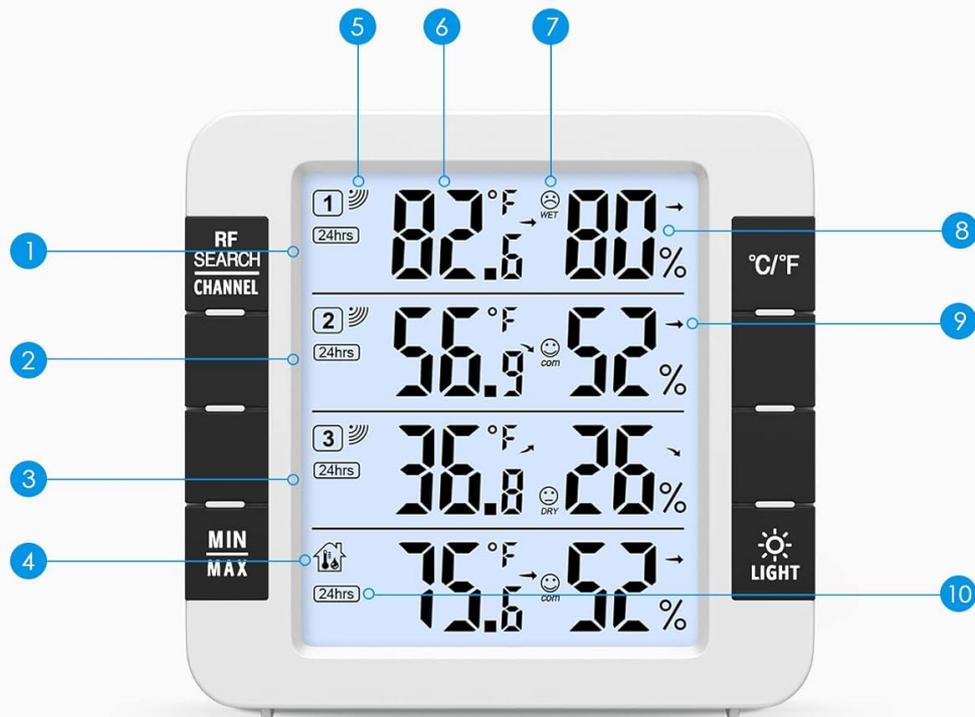

Image: Illustration of the main unit's dual power supply options: USB cable or 3x AA batteries.

5. OPERATION

5.1 Display Overview

Wireless Remote Sensor

Image: Detailed view of the main unit's LCD display, showing channels, RF signal, temperature, humidity, and trend indicators.

① Channel 1	② Channel 2	③ Channel 3
④ Indoor	⑤ RF Signal	⑥ Current temperature
⑦ Body Feeling Status	⑧ Current humidity	⑨ Trend
⑩ ALL/24hrs		

- **Channels 1, 2, 3:** Display readings from the respective remote sensors.
- **Indoor:** Displays readings from the main unit's internal sensor.
- **RF Signal:** Indicates successful connection to remote sensors.
- **Current Temperature/Humidity:** Real-time measurements.
- **Trend Indicator:** Arrows show if temperature/humidity is rising, falling, or stable.
- **Comfort Status:** Icons (DRY, COM, WET) indicate air comfort levels based on humidity.

5.2 Button Functions

- **°C/°F Button:** Press to switch between Celsius and Fahrenheit temperature units.
- **MIN/MAX Button:**

    - Press once to view maximum temperature and humidity recorded.
    - Press again to view minimum temperature and humidity recorded.
    - Press and hold to clear the recorded MAX/MIN values.

- **RF SEARCH CHANNEL Button:** Press to manually search for and pair with remote sensors.
- **LIGHT Button:** Press to activate the backlight.

- When powered by USB, there are two backlight levels (semi-bright, full-bright).
- When powered by batteries, the backlight is fixed.

5.3 Comfort Indicator

The display shows a comfort indicator based on humidity levels:

- **DRY:** Humidity < 40%
- **COM (Comfort):** Humidity 40% ~ 70%
- **WET:** Humidity > 70%

Image: Visual representation of the air comfort indicator (DRY, COM, WET) based on humidity percentages.

6. INSTALLATION METHODS

6.1 Main Unit Placement

The main unit offers three installation options:

- **Standing:** Use the integrated kickstand to place it on a desk or table.
- **Wall Mount:** Hang it on a wall using the mounting hole on the back.
- **Magnetic:** Attach it to a metallic surface, such as a refrigerator, using the magnetic back.

Image: The main unit standing upright on a surface next to a plant.

Image: The main unit mounted on a wall above a sofa.

Image: The main unit magnetically attached to a refrigerator door.

6.2 Remote Sensor Placement

Each remote sensor is equipped with a lanyard and a suction cup for flexible placement:

- **Standing:** Place on any flat surface.
- **Wall Mount:** Hang using the lanyard or a screw.
- **Suction Cup:** Attach to smooth surfaces like windows or tiles.

Stand	Wall Mount	Magnetic Back
Stand	Wall Mount	Lanyard sucker

Image: Various installation methods for the main unit (stand, wall mount, magnetic) and remote sensors (stand, wall mount, suction cup).

7. POWER SUPPLY

The main unit and remote sensors have different power requirements:

- **Main Unit:** Requires 3x AA batteries (not included) or can be powered via the included USB cable.
- **Remote Sensors:** Each sensor requires 2x AAA batteries (not included).

When battery levels are low, a low battery symbol will appear on the corresponding channel on the main unit's display.

Image: The main unit displaying a low battery icon for a sensor, indicating it's time to replace batteries.

8. MAINTENANCE

- **Cleaning:** Wipe the device and sensors with a soft, dry cloth. Do not use abrasive cleaners or immerse in water.
- **Battery Replacement:** Replace batteries promptly when the low battery indicator appears to ensure continuous operation and accurate readings.
- **Placement:** Avoid placing sensors in direct sunlight, near heat sources, or in areas with poor ventilation to maintain accuracy. Do not install in air vents.
- **Storage:** If storing the device for an extended period, remove all batteries to prevent leakage.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display on main unit.	Batteries are dead or incorrectly inserted; USB cable not connected or faulty.	Check battery polarity and replace if necessary. Ensure USB cable is securely connected to a working power source.
Remote sensor not displaying data.	Sensor batteries are dead; sensor is out of range; interference; sensor not paired.	Replace sensor batteries. Move sensor closer to the main unit. Press "RF SEARCH CHANNEL" on the main unit to re-pair. Avoid strong electromagnetic interference.
Inaccurate readings.	Sensor placed in direct sunlight, near heat/cold sources, or in poor ventilation.	Relocate sensors to a shaded, well-ventilated area away from extreme temperature sources. Allow time for readings to stabilize after relocation.
Backlight not working or dim.	Battery power only; low battery.	Connect via USB for brighter backlight options. Replace main unit batteries if backlight is dim on battery power.

10. SPECIFICATIONS

Feature	Detail
Model Number	EU-WA100

Feature	Detail
Main Unit Dimensions	11.8 x 11.2 x 2.5 cm (4.64 x 4.4 x 0.98 inches)
Remote Sensor Dimensions	8.3 x 5 x 2 cm (3.27 x 1.97 x 0.79 inches)
Display	LCD with Backlight
Color	White
Indoor Temperature Range	-20°C to 70°C (-4°F to 158°F)
Outdoor Temperature Range	-50°C to 70°C (-58°F to 158°F)
Humidity Range	10% to 99% RH
Temperature Accuracy	±1°C (±2°F)
Humidity Accuracy	±5% RH
Wireless Transmission Range	Up to 100 meters (328 feet) in open air
Main Unit Power	3x AA batteries (not included) or USB cable
Sensor Power	2x AAA batteries per sensor (not included)
Connectivity Technology	Wireless RF, USB
Material	Plastic

Track Temp & Humidity for 4 Place

Max distance: 328ft/100m

Image: Diagram showing the dimensions of the main unit and the effective range of the wireless sensors, with examples of sensor placement.

Image: Infographic detailing the detection ranges for indoor/outdoor temperature and humidity, along with accuracy specifications.

11. WARRANTY AND SUPPORT

Information regarding specific warranty terms and customer support contact details is not provided in the

product data. Please refer to the product packaging or the manufacturer's official website for warranty information and customer service contacts.

12. APPLICATION SCENARIOS

The Brifit EU-WA100 thermometer is suitable for various environments:

Image: Collage showing various places where the thermometer can be used, including bedroom, living room, office, greenhouse, warehouse, and wine cellar.

Chambre   Bureau   Cave   Serre   Incubateur

Image: Examples of diverse environments for the thermometer, such as bedroom, office, cellar, greenhouse, and incubator.