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› [EMOS](#) /

› [EMOS Wireless Sensor E05018 User Manual](#)

EMOS E05018

EMOS Wireless Sensor E05018 User Manual

Model: E05018

INTRODUCTION

This manual provides detailed instructions for the EMOS Wireless Sensor E05018. This sensor is designed to wirelessly transmit temperature and humidity data to compatible EMOS weather stations and thermometers, including models E5010, E0352, E5018, E5068, E5062, E5063, E3078, E3028, E0300, E8236, E0211, E3010, E0127, E0329, E5005, E3003, E0107, E0129, and E5101. It features a metal probe for accurate measurements and a display for direct readings.

PRODUCT FEATURES

- Wireless data transmission at 433 MHz frequency.
- Outdoor transmission range of up to 30 meters (unobstructed).
- Integrated metal probe for temperature measurement.
- Measures operating temperatures from -50 °C to +70 °C with 0.1 °C accuracy.
- Measures outdoor relative humidity from 20% to 95%.
- Equipped with a display for direct temperature and humidity readings.
- Powered by 2 x 1.5 V AAA batteries (not included).

PACKAGE CONTENTS

The EMOS Wireless Sensor E05018 package includes:

- 1 x EMOS Wireless Sensor E05018 with integrated metal probe.

Note: 2 x 1.5 V AAA batteries are required for operation and are not included in the package.

SETUP

1. Battery Installation

1. Locate the battery compartment on the back of the sensor.
2. Open the battery compartment cover.
3. Insert two (2) 1.5 V AAA batteries, ensuring correct polarity (+/-).

4. Close the battery compartment cover securely.

2. Sensor Placement

For optimal performance, place the sensor in a location that allows for clear transmission to your compatible EMOS weather station or thermometer. Avoid placing it near large metal objects, thick walls, or other sources of interference that may reduce the wireless range. The sensor is designed for outdoor use, but should be protected from direct heavy rain and prolonged direct sunlight to ensure longevity and accurate readings.



Figure 1: Front view of the EMOS Wireless Sensor E05018, displaying current temperature and humidity, and indicating its wireless capabilities.



Figure 2: Back view of the EMOS Wireless Sensor E05018, highlighting the battery compartment and mounting options.

3. Pairing with Main Unit

Once batteries are installed, the sensor will automatically begin transmitting data. Refer to the instruction manual of your specific EMOS weather station or thermometer (e.g., E5010, E0352, E5018, etc.) for detailed instructions on how to pair the sensor and receive its data. Typically, this involves activating a search or pairing mode on the main unit.

OPERATION

After successful pairing, the sensor will continuously transmit temperature and humidity data to your main unit. The sensor's integrated display will show the current temperature and humidity readings directly. Ensure the sensor remains within the effective transmission range of your main unit for uninterrupted data reception.

MAINTENANCE

Battery Replacement

When the display on the sensor becomes dim or the main unit stops receiving data, it is likely time to replace the batteries. Follow the battery installation steps outlined in the "Setup" section.

Cleaning

Wipe the sensor casing with a soft, damp cloth. Do not use abrasive cleaners or immerse the sensor in water. Keep the metal probe clean and free from debris for accurate readings.

Environmental Considerations

While designed for outdoor use, extreme weather conditions (e.g., heavy snow, prolonged direct sun, severe storms) can affect the sensor's performance and lifespan. Consider placing the sensor in a sheltered outdoor location if possible.

TROUBLESHOOTING

- **No data received by main unit:**

- Check if batteries are correctly installed and have sufficient charge. Replace if necessary.
- Ensure the sensor is within the 30-meter range of the main unit.
- Reduce obstacles between the sensor and the main unit (e.g., thick walls, large appliances).
- Re-initiate the pairing process on your main unit as per its manual.

- **Inaccurate readings:**

- Ensure the metal probe is clean and unobstructed.
- Verify the sensor is not exposed to direct heat sources or extreme cold that might skew readings.
- Allow time for the sensor to stabilize after placement, especially if moved from one temperature extreme to another.

- **Sensor display is blank or dim:**

- Replace the batteries.

SPECIFICATIONS

Model Number	E05018
Brand	EMOS
Dimensions (L x W x H)	3.3 x 7 x 11.5 cm
Weight	74 grams
Power Source	2 x 1.5 V AAA batteries (not included)
Frequency	433 MHz
Outdoor Range	Up to 30 meters
Operating Temperature	-50 °C to +70 °C (0.1 °C accuracy)
Outdoor Humidity Range	20% to 95% relative humidity

WARRANTY AND SUPPORT

Information regarding product warranty and availability of spare parts is not provided in the product details. For warranty claims, technical support, or inquiries about spare parts, please contact the manufacturer, EMOS, directly through their official support

channels.

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