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**EQBVZZRD EQBVZZRD**

# Wind Speed Sensor User Manual

**Model:** WH2900 Compatible Wind Sensor Spare Part
**Brand:** EQBVZZRD

## 1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your EQBVZZRD Wind Speed Sensor spare part, designed for compatibility with the WH2900 weather station. This sensor is engineered to accurately measure wind speed, providing crucial data for your personal home weather station.

## 2. Important Safety Information

Please read and understand all safety instructions before installing or operating the wind speed sensor. Failure to follow these instructions may result in damage to the product or personal injury.

- **Installation:** Ensure the installation location is stable and secure. Avoid installing near power lines or other electrical hazards.
- **Handling:** Handle the sensor with care to avoid damaging the delicate components.
- **Environmental Conditions:** While designed for outdoor use, extreme weather conditions (e.g., severe thunderstorms, hurricanes) may require temporary removal or additional securing of the sensor.
- **Children:** Keep out of reach of children. This is not a toy.

## 3. Package Contents

Please verify that all items are present and in good condition upon opening the package:

- EQBVZZRD Wind Speed Sensor (Spare Part)

*Note: This product is a spare part and does not include the main weather station unit or mounting hardware unless specified.*

## 4. Setup and Installation

The assembly of the wind speed sensor is designed to be straightforward. Please follow these steps carefully for proper integration with your WH2900 weather station.

1. **Preparation:** Ensure your WH2900 weather station is powered off before beginning the installation of the spare part.
2. **Remove Old Sensor (if applicable):** If replacing an existing sensor, carefully disconnect it from the weather station unit. Note the orientation and connection points.
3. **Attach New Sensor:** Align the new EQBVZZRD wind speed sensor with the designated port on your WH2900 weather station. Gently push or twist (depending on the connection type) until it is securely fastened. Ensure a firm connection to prevent data loss or intermittent readings.
4. **Mounting:** If the sensor is part of a larger outdoor assembly, ensure it is mounted in an open area, free from obstructions (like buildings or trees) that could interfere with accurate wind readings. The sensor should be level for optimal performance.
5. **Power On:** Once the sensor is securely attached, power on your WH2900 weather station. The system should automatically detect the new wind speed sensor.



Figure 1: Top-down view of the EQBVZZRD Wind Speed Sensor, illustrating its three-cup design for capturing wind.



Figure 2: Side view of the EQBVZZRD Wind Speed Sensor, highlighting the robust construction of the cups and central shaft.

## 5. Operation

Once properly installed and connected to your WH2900 weather station, the wind speed sensor will begin transmitting data wirelessly. The sensor measures wind speed by the rotation of its cups.

- **Data Transmission:** The sensor transmits data to the main weather station unit. The reception range has been improved for enhanced accuracy and stability of data transmission, up to 330 feet (100 meters) in open air.
- **Measurement Updates:** Current wind speed, average wind speed, and peak wind speed readings are tracked and updated approximately every 18 seconds.
- **Viewing Data:** Refer to your WH2900 weather station's main display unit manual for instructions on how to view and interpret the wind speed data.

## 6. Maintenance

Regular maintenance ensures the longevity and accuracy of your wind speed sensor.

- **Cleaning:** Periodically inspect the sensor cups for dirt, dust, spiderwebs, or other debris that may impede rotation. Gently clean with a soft, damp cloth. Avoid using abrasive cleaners or solvents.
- **Obstruction Check:** Ensure no new obstructions (e.g., growing tree branches, new structures) are interfering with the wind flow to the sensor.

- **Connection Check:** Occasionally check the connection point to the weather station unit to ensure it remains secure.
- **Winter Care:** In areas with heavy snowfall or ice, ensure the cups are not frozen or obstructed by ice buildup. Do not attempt to force rotation if frozen.

## 7. Troubleshooting

If you experience issues with your wind speed sensor, refer to the following common problems and solutions:

- **No Wind Speed Reading:**
  - Ensure the sensor is securely connected to the WH2900 weather station.
  - Check the distance between the sensor and the main unit. While the range is up to 330ft, obstacles like thick walls or electronic interference can reduce it.
  - Verify that the sensor cups are rotating freely. Clean any obstructions.
  - Consult your WH2900 weather station manual for specific sensor pairing or reset procedures.
- **Inaccurate Wind Speed Readings:**
  - Ensure the sensor is mounted in an open area, away from buildings, trees, or other structures that could create wind turbulence or block wind flow.
  - Check for any physical damage to the sensor cups or shaft.
  - Verify the sensor is level.
- **Intermittent Readings:**
  - This could indicate a weak signal. Try repositioning the sensor or the main weather station unit to improve reception.
  - Check for potential sources of electromagnetic interference nearby.

If problems persist after attempting these solutions, please contact customer support.

## 8. Specifications

| Feature | Detail |
| --- | --- |
| Product Type | Wind Speed Sensor Spare Part |
| Compatibility | WH2900 Weather Station |
| Transmission Range | Up to 330ft (100m) |
| Update Interval | Approximately every 18 seconds (for current, average, and peak wind speed) |
| Dimensions (Package) | 1.18 x 0.79 x 0.39 inches |
| Item Weight | 3.53 ounces (100 Grams) |
| Color | One Color (Black) |
| Batteries Required | No (powered by main weather station) |

## 9. Warranty and Support

For warranty information and customer support, please refer to the documentation provided with your original WH2900 weather station or contact the manufacturer directly. Keep your purchase receipt as proof of purchase for any warranty claims.

**Manufacturer:** EQBVZZRD

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