Yuecoom Yuecoomg948qozmbu

Yuecoom Three Cups Wind Speed Detector (Model Yuecoomg948qozmbu) User Manual

Model: Yuecoomg948qozmbu | Brand: Yuecoom

1. Product Overview

The Yuecoom Three Cups Wind Speed Detector is designed for accurate and reliable wind speed measurement across various applications. This device features a robust construction and a sensitive three-cup design for comprehensive 360-degree wind sensing. It is suitable for environments such as power plants and weather stations.
Key features include:

- **3-Cup Wind Sensing:** Utilizes three fan blades for precise 360-degree wind speed measurement.
- **High Accuracy:** Lightweight design and reduced friction enhance sensitivity and measurement accuracy.
- **Durable Construction:** Shell made of high-hardness ABS material with a sprayed outer coating for resistance against wear.
- **Wide Measurement Range:** Operates within 0-70m/s with a high resolution of 0.0875m/s.
- **Easy Installation:** Features a 4cm mounting hole for straightforward setup.
- **Waterproof Cable:** Includes an 8-meter waterproof cable for reliable signal transmission.

2. Package Contents

Upon unpacking, please verify that all components are present and undamaged:

- 1 x Three Cups Wind Speed Detector



Image 1: The Yuecoom Three Cups Wind Speed Detector, showing the main unit and its attached 8-meter waterproof cable with a connector.

3. Specifications

Item Type	Three Cups Wind Speed Detector
Brand	Yuecoom
Model	Yuecoomg948qozmbu
Material	Acrylonitrile Butadiene Styrene (ABS)
Weight	Approx. 313g / 11oz
Installation Aperture	4cm / 1.6in
Voltage Output Range	0-3.8V

Measurement Range	0-70 m/s
Resolution	0.0875 m/s
Cable Length	8 meters (Waterproof)

4. Setup and Installation

Follow these steps to properly install your wind speed detector:

1. **Choose a Location:** Select an outdoor location that is free from obstructions (buildings, trees, etc.) that could interfere with accurate wind flow. The sensor should be mounted at a height where it can accurately measure wind speed for your specific application.
2. **Mounting the Sensor:** The detector features a base with a 4cm (1.6 inch) mounting hole. Secure the sensor firmly to a stable pole or surface using appropriate fasteners (not included). Ensure the sensor is level for optimal performance.



Image 2: Close-up view of the wind speed detector's base, showing the mounting holes and the three cups.

3. **Connecting the Cable:** The detector comes with an 8-meter waterproof cable. Connect the cable's connector to your data acquisition system or display unit. Ensure the connection is secure and protected from environmental elements.

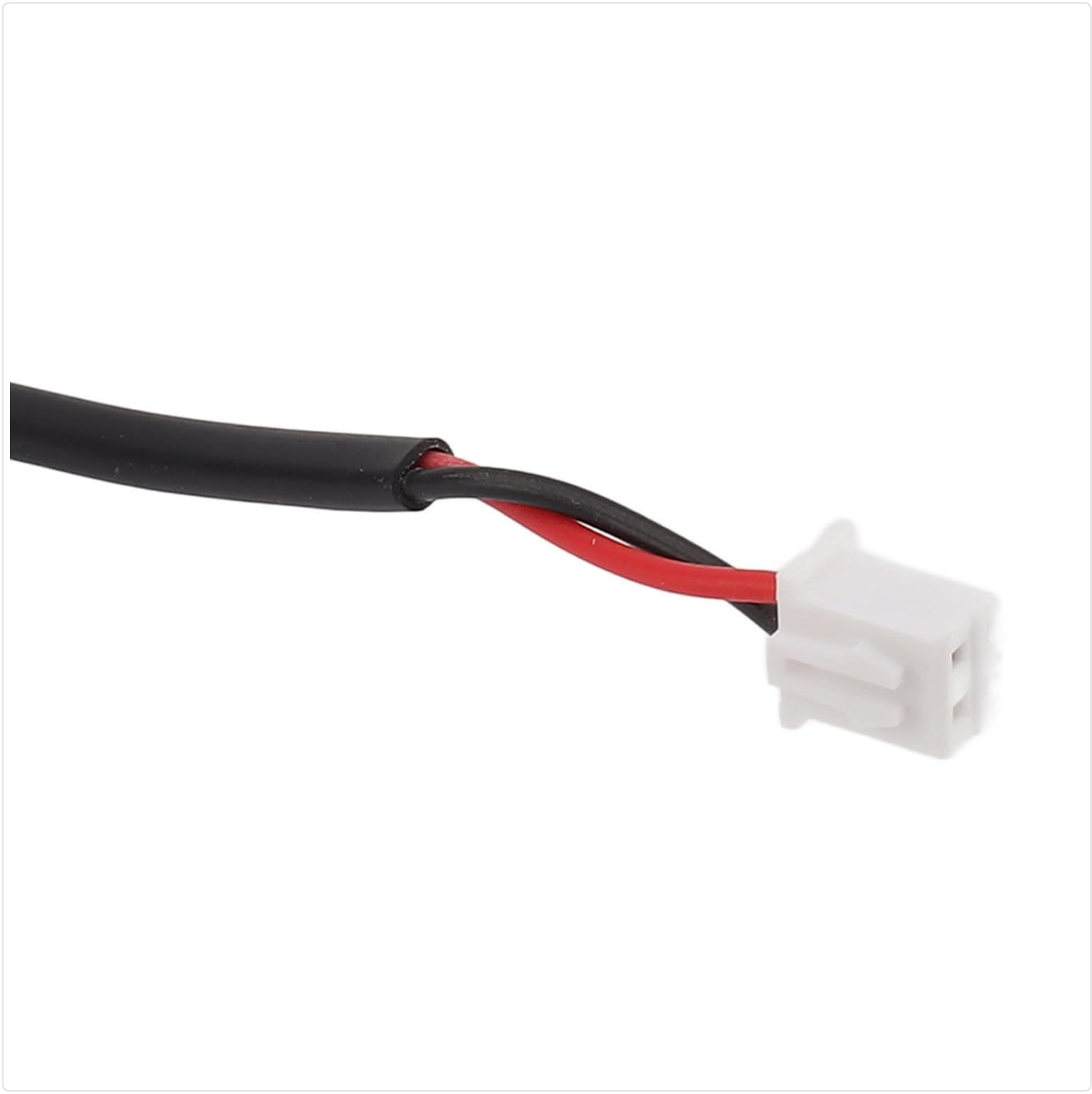


Image 3: Detailed view of the 2-pin cable connector, which connects the sensor to a data system.

4. **Power Requirements:** The sensor provides a voltage output in the range of 0-3.8V. Ensure your receiving device is compatible with this voltage range and provides the necessary input impedance for accurate readings.



Image 4: Example of the wind speed detector installed on a pole, demonstrating a typical outdoor mounting scenario.

5. Operating Instructions

Once installed and connected, the Yuecoom Wind Speed Detector operates continuously to provide wind speed data.

- **Automatic Measurement:** The three cups will rotate with the wind, and the sensor will automatically generate a voltage output proportional to the wind speed.
- **Data Interpretation:** The output voltage (0-3.8V) corresponds to a wind speed range of 0-70 m/s. Refer to your data acquisition system's documentation for calibration and conversion of voltage readings into actual wind speed values.
- **Applications:** This sensor is ideal for wind measurement in various settings, including power plants, meteorological monitoring stations, and general environmental sensing.



Image 5: The wind speed detector depicted in diverse operational environments, highlighting its versatility for industrial and meteorological uses.

6. Maintenance

The Yuecoom Wind Speed Detector is designed for low maintenance. Regular checks can ensure its longevity and accurate performance.

- **Cleaning:** Periodically inspect the cups and the main body for dirt, dust, or debris accumulation. Gently clean with a soft, damp cloth. Avoid using abrasive cleaners or solvents.
- **Inspection:** Check the mounting for stability and ensure all connections are secure. Inspect the cable for any signs of wear or damage.
- **Bearing Check:** The device uses high-performance imported bearings. While designed for durability, ensure the cups spin freely without excessive resistance.
- **Environmental Protection:** The outer coating is designed to resist scouring. However, extreme environmental conditions may require more frequent inspection.

7. Troubleshooting

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

Problem: No output or incorrect readings.
Possible Causes & Solutions:

- **Incorrect Voltage Supply/Reading:** The sensor outputs 0-3.8V. Ensure your data acquisition system is configured to read this voltage range correctly. Some systems may require a specific input voltage (e.g., 24V) for their own operation, but the sensor's output is 0-3.8V. Verify compatibility.
- **Loose or Damaged Cable Connection:** Check that the cable is securely connected to both the sensor and your receiving device. Inspect the cable for any cuts or damage.
- **Obstructions:** Ensure there are no physical obstructions preventing the cups from rotating freely.
- **Sensor Malfunction:** If the cups spin freely but there is still no output, the internal sensor may be faulty.

Problem: Cups do not spin or spin with difficulty.
Possible Causes & Solutions:

- **Physical Obstruction:** Check for debris (leaves, ice, etc.) caught in the cups or around the rotating shaft.
- **Bearing Issue:** If the cups are clean but still do not spin freely, the internal bearings might be damaged or seized.
- **Insufficient Wind:** Ensure there is actual wind present at the sensor's location.

Problem: Inaccurate wind speed readings.
Possible Causes & Solutions:

- **Improper Mounting:** Ensure the sensor is mounted level and in an unobstructed location.
- **Calibration:** Verify the calibration settings in your data acquisition system for converting voltage to wind speed.
- **Interference:** While designed for anti-interference, strong electromagnetic fields nearby could potentially affect readings.

If troubleshooting steps do not resolve the issue, please contact customer support.

8. Warranty and Support

Yuecoom products are manufactured to high-quality standards. For specific warranty information, please refer to the documentation provided at the time of purchase or contact your retailer. For technical support or inquiries, please reach out to Yuecoom customer service through the official channels.

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Model number, symptoms, what you tried, or the section of the manual you are using.

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