

Wind Speed Probe User Guide

Product Introduction

The three-cups wind speed sensor is a wind speed measuring instrument which developed and produced by our group . The sensor housing is made of aluminum with small dimensional tolerances, high weather resistance, high strength, corrosion resistance and water resistance. Internal components include photoelectric conversion mechanism, industrial microcomputer processor, standard current generator, current driver, etc.



The circuit PCB is made of military-grade-A material, which ensures the stability of measurement parameters and electrical performance; the electronic components are all imported industrial grade chips, which can make the sensor has extremely reliable anti-electromagnetic interference capability.

Use Case Scenarios

This product is widely used in greenhouses, environmental protection, engineering machinery, weather stations, ships, docks, farming and other environments for wind speed measurement.

Features

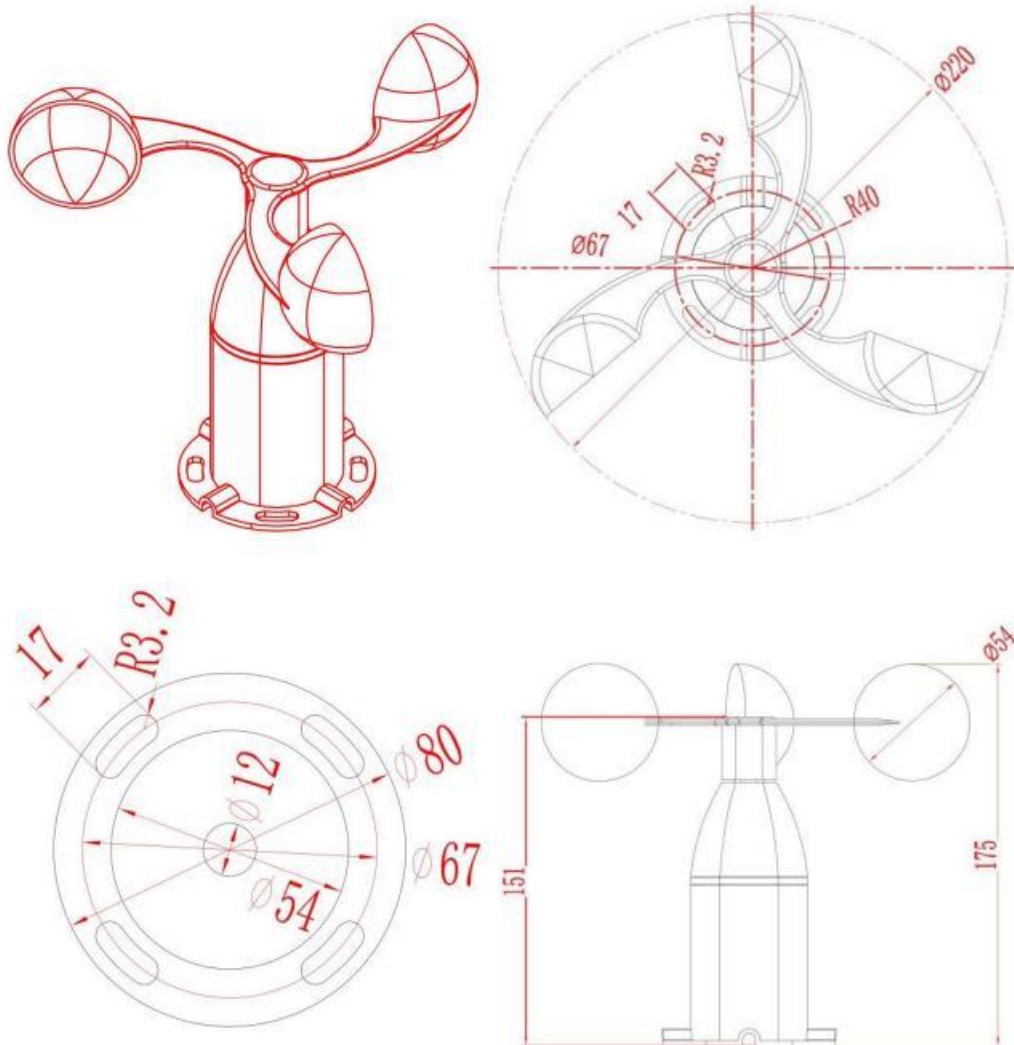
1. This sensor has compact size and high measurement accuracy.
2. Quick response and good interchangeability.
3. Low cost, low price and high performance .
4. Simple and easy installation .
5. High data transfer efficiency and reliable performance to ensure proper operation.
6. Long signal transmission distance.
7. Two parameters of both wind speed and wind level.

Product Specification

Specification	
Model	UB-WS-N1
Measurement range	0~30m/s
Startup wind speed	≤0.3m/s
Accuracy	± (0.3+0.03v) m/s
Output signal	RS485 (Modbus-RTU communication protocol)
Power supply voltage	5~24V DC
Stabilization time	< 1second
Response time	< 1second
Working temperature	- 30°C~70°C
Working humidity	15~85%RH (Non-condensation)
Cable length	3m

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Outline Size



Cautions

1. Please check that the packaging is intact and that the sensor model and specifications match the product you have purchased.
2. Sensor can not be wired with electricity. The power can be turned on only after connecting line been checked with no issue.
3. Users should not alter the components and wires which have been soldered.
4. The sensor is a precision device, so please do not disassemble it by yourself when using it.
5. Avoid sticky particles go inside the sensor and prevent moisture to avoid affecting the measurement performance.