

Ultrasonic anemometer

Model ES-W303U



Main features

- The probe is inverted and dustproof and waterproof.
- No angle limit, 360° measurement of wind speed and direction
- Random error recognition technology, low discrete error can be guaranteed even in strong winds
- High-strength ABS engineering plastic shell
- Built-in electronic compass, no direction requirements
- No maintenance and on-site calibration required

Compliance

The electromagnetic compatibility in accordance with the following applicable directives:
 LVD 2014/35/EU Low Voltage
 EMC 2014/30/EU
 Electromagnetic Compatibility
 EMC 2014/35/EU
 Electromagnetic Compatibility

Introduction

ES-W303U small ultrasonic wind speed and direction sensor is a wind speed and direction measuring instrument developed based on ultrasonic principles. It uses the transmitted sound wave pulses to measure the phase difference at the receiving end to calculate the wind speed and wind direction. The sensor can measure the instantaneous values of wind speed and wind direction at the same time.

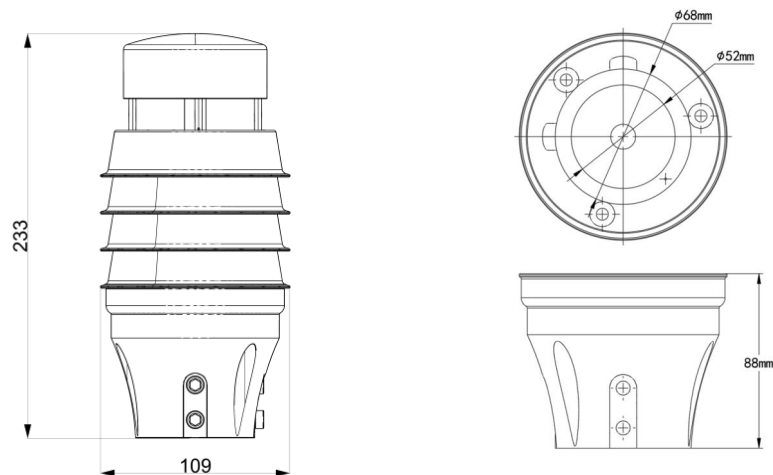
The device with built-in electronic compass selection no longer has the requirements for orientation during installation, and only needs to ensure horizontal installation. The whole machine shell is made of high-quality ABS material, which is light in weight and has no moving parts.

Application

It is widely used in wind speed and direction measurement in meteorology, ocean, environment, airports, ports, laboratories, industry, agriculture and transportation.

Dimension

Unit:mm



Specification

Supply voltage	10-30V DC	
Power consumption	485: 0.12W 4~20mA/0~5V/0~10V: 1.2W	
Range	Wind speed	0 ~ 40m / S, 0 ~ 70m / S(customizable) 0.5m starting wind speed
	Wind direction	0~360°
Accuracy	Wind speed	±0.5+2%FS
	Wind direction	±3°
Resolution	Wind speed	0.01 m/s
	Wind direction	1°
Working environment	-40~80°C, 0~95%RH	
Wind resistance	75 m/s	
Response time	1S	
IP grade	485 type: IP65 Analog type: IP54	
Signal output	485 (Modbus RTU protocol) 4 ~ 20mA current output 0 ~ 5V voltage output 0 ~ 10V voltage output	

Order guide

ES-W303U	Ultrasonic Wind Speed & Direction Sensor		
	CODE	Function type	
	A	No built-in electronic compass	
	B	Built-in electronic compass	
		CODE	Signal output
		1	4~20mA
		2	0-10V
		3	0-5V
		4	RS485
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