

# Drones ultrasonic anemometer

Model ES-W3054



## Main features

- Maintenance free, long service life
- No moving parts, no wear
- Adopt ultrasonic probe reflection type, with more compact structure
- Adopt acoustic wave phase compensation technology, with higher accuracy

## 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-W3054 drone ultrasonic anemometer uses the ultrasonic resonance principle. It is specially designed to be installed on small aircraft and unmanned platforms to monitor the wind speed and direction values in low-altitude areas.

ES-W3054 weighs 56g and has a diameter of 46mm. It is the lightest and smallest ultrasonic anemometer on the market. It has a compact and solid appearance, is highly resistant to electromagnetic interference, waterproof and dustproof, and can work normally at an altitude of 4000 meters and an external environment between -40°C and +70°C.

It uses a low-power chip inside, and can measure winds up to 60m/s. It is especially used for unmanned aircraft and related flight control platforms, as well as environmental monitoring systems using aircraft.

ES-W3054 is designed with two installation methods, which can be installed vertically on the top of the aircraft and can be installed inverted on the bottom of the aircraft.

## Dimension

Unit:mm



Specification

Wind speed	Range	0 - 60m/s or customized
	Accuracy	±3%
	Resolution	0.1m/s
Wing direction	Measure Range	0-359°
	Accuracy	±3°
	Resolution	1°
Instrument diameter	46mm	
Instrument height	48mm	
Instrument weight	56g	
digital output	RS485	
baud rate	4800 - 19200	
Protocol	ModBus、ASCII	
Operating temperature/humidity	-40°C - +70°C； 0 - 100%	
Working altitude	0-4000 Meter	
Power requirements	VDC: 5-30V； 15mA(12V)	
Installation method	Mounting on the top column or bottom of the aircraft	
Material/Color	ABS/Black or customized	

Order guide

ES-W3054	drone ultrasonic anemomete		
	CODE	Function type	
	A	Wind speed + wind direction	
		CODE	Signal output
		1	RS232
		2	RS485
		3	SDI-12
ES-W3054	A	1	Order example

