

Accurate ultrasonic anemometer

Model ES-W307



Main features

- Imported probe, no calibration required, more stable data
- Imported UV-resistant, anti-aging non-metallic material, more insulating, salt spray resistant
- Electronic compass, prevents getting lost, suitable for mobile monitoring
- Heating function melts ice and snow, fearless of severe cold and icy rain

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

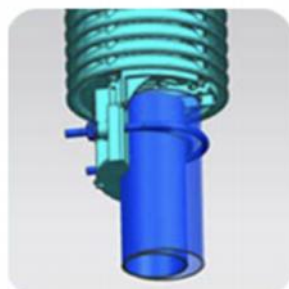
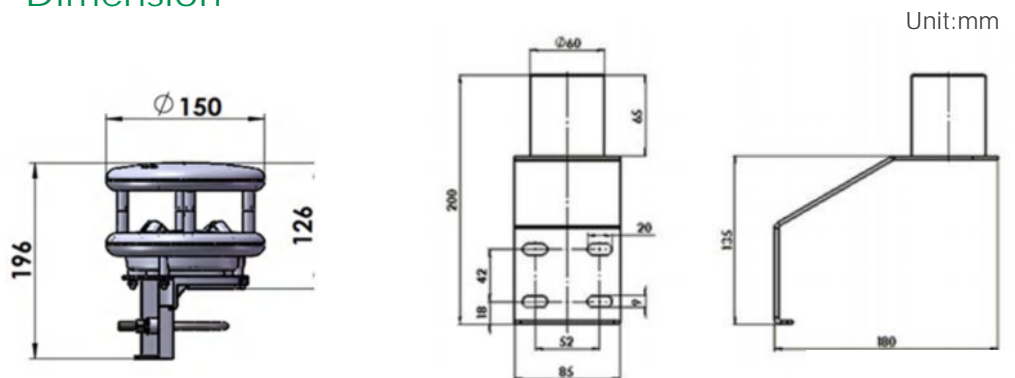
Introduction

The ES-W307 series ultrasonic anemometers utilize advanced ultrasonic technology to measure wind speed and direction accurately in real time, providing reliable data support for weather forecasting, environmental monitoring, and wind energy utilization. Whether in complex and changing natural environments or demanding industrial environments, they ensure the accuracy and reliability of measurement results.

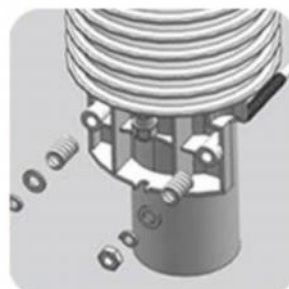
Application

It is mainly used in industries such as highways, meteorology, drilling platforms, waterways, ports, wind power generation, ships and automatic weather stations.

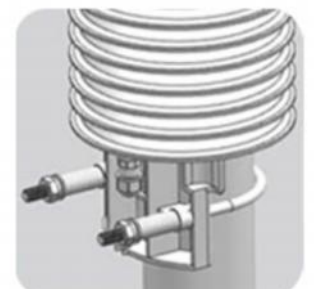
Dimension



50-70mm round pipe



Installation exploded view



Installation completed view

Specification

Wind speed	Measurement range: 0-75 m/s
	Measurement accuracy: ± 0.5 m/s (≤ 20 m/s), $\pm 3\%$ (> 20 m/s)
	Resolution: < 0.1 m/s
Wing direction	Measurement range: 0-360°
	Accuracy: $\pm 2^\circ$
	Resolution: $< 1^\circ$
Operating Temperature	-40-80°C
Operating Humidity	0-100%RH
Output Signal	RS485 Modbus RTU protocol
Power Supply Method	DC12-24V, DC12V(recommend)
Average Power Consumption	170mA/12V (no heating), 750mA/12V (heating)
Communication Mode	Supports multiple transmission methods including RS485, RS232, USB, Ethernet, WIFI, and Beidou
Baud Rate	4800~115200 Default baud rate: 9600
Data Reception Mode	Wireless data cloud platform APP/PC/webpage Wired standalone software,Secondary development communication interface
Protection Rating	IP68
Output Connector	IP68 SP13-6
Sensor Expansion	Supports
Carrier Type	Fixed brackets, portable mobile brackets, vehicle-mounted, ship-mounted, tower-mounted, and offshore platforms, etc.

Order guide

ES-W307	Ultrasonic Wind Speed & Direction Sensor		
	CODE	Function type	
	A	Wind speed + wind direction	
		CODE	Signal output
		1	RS485
		2	RS232
		3	USB
		4	Ethernet
		5	WIFI
		6	Beidou
ES-W307	A	1	Order example