

Ultrasonic Anemometer

Product Introduction

HY-WDS2E Anemometer measures wind speed and direction by utilizing the time difference in the propagation of ultrasonic waves through the air. It features an ASA engineering plastic housing that is lightweight and structurally robust, and includes a built-in intelligent heating module that allows it to operate normally in extremely cold and freezing conditions.



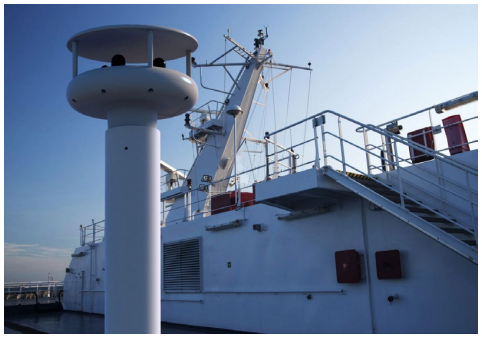
Applications

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



Key Features

- No moving parts, zero wear
- Maintenance-free, long service life
- ASA Plastic Housing
- It uses a reflective ultrasonic probe, resulting in a more compact design.
- Uses acoustic phase compensation technology for greater accuracy



Technical Indicators

Project	Range	Accuracy	Resolution
Wind Speed	0~60m/s(Can be expanded to75m/s)	±(0.5 m/s + 0.03×V)	0.01m/s
Wind Direction	0–360°（0° and 360° coincide）	±3°（V ≥ 1 m/s）	1°
Interface	RS232、RS485、SDI-12（Choose one）		
Analog Output Interface	2 × 4 – 20 mA current outputs (impedance less than 500 ohms)		
Baud Rate	1200–115200		
Protection	IP65		
Operation Temperature	-40℃~+80℃		
Operation Humidity	0–100%RH		
Electromagnetic Shielding	EN61000-6-2 standard		
Storage Temperature/Humidity	-40℃ ~ +80℃；0–100%RH		
Power Requirements	12–24VDC		
Power Consumption	Normal: 0.12W; Intermittent mode:0.008W;Heating:1.6W		
Size/Weight	Φ144×148mm / 0.36kg		
Material/Color	ASA / White and Black		

Product Showcase

