

Mini Ultrasonic Anemometer

» Product Introduction

HY-WDC2E measures wind speed and wind direction by measuring the time difference in the propagation of ultrasonic waves through the air. It features a low-power chip that consumes only 0.2 W, making it suitable for low-power environments powered by solar energy or batteries. The housing is available in two materials—aluminum alloy and ASA—to accommodate various environmental applications.



ASA



Aluminum Alloy

» Technical Indicator

Project	Range	Accuracy	Resolution
Wind Speed	0–40m/s	±3%	0.1m/s
Wind Direction	0–359°	±3°	1°
Digital Output	RS232、RS485、SDI-12（Choose one）		
Baud Rate	1200–115200		
Protocol	ModBus-RTU		
Protection	IP65		
Operating Temperature	-40℃ ～ 80℃		
Operating Humidity	0–100%RH		
Power Requirements	VDC：5–24V		
Power Consumption	0.2W		
Dimensions/Weight	Φ84×120mm；ASA 0.38kg，Aluminum Alloy 0.78kg		
Materials	ASA、Aluminum Alloy		

Applications

It is primarily used in home weather stations, agricultural weather monitoring, and wind speed monitoring for tower cranes, among other applications.



Key Features

- Maintenance-free, long service life
- No moving parts, zero wear
- ASA or aluminum alloy housing
- Uses a reflective ultrasonic probe, resulting in a more compact design
- Uses acoustic phase compensation technology



Product Showcase





