

# HY-WDS2E Ultrasonic Anemometer

## Introduction

HY-WDS2E Ultrasonic Anemometer uses highly stable ultrasonic probes to simultaneously measure the 2-dimensional horizontal components of the wind speed and direction based on principle of TOF(time of flight) of ultrasonic sound wave. Power consumption is low to 10mA@12VDC. ASA shell allows a lighter weight and robust structure, ASA is extremely resistant against UV radiation of sun, it is frost and heat resistant, standing all climatically conditions for over 10 years.

It is widely used in the meteorological industry as well as various outdoor applications.

## Application

Weather observation  
Ports and harbour  
Emergency services  
Coastal and ocean buoys  
Agriculture and horticulture  
Environmental monitoring  
Crane safety alarm  
Photovoltaic plant



## Specification

Wind Speed: 0 ~ 60 m/s

80m/s is optional with extra cost

Resolution: 0.01 m/s Accuracy:  $\pm 2\%$

Gust and averaged wind is optional with extra cost.

Wind Direction: 0 to 360°

Resolution: 1°

Accuracy:  $\pm 3^\circ$

Interface: RS232 or RS485 or 4-20mA

Protocol: ASCII active output, NMEA0183, MODBUS-RTU, SDI-12

Baud rate: 1200, 4800, 9600, 19200, 38400

Wind Units: m/s, knots, mph, kph,ft/min

Power Requirement:

Sensor: 10 mA @ 7-30 VDC typical

Heater: Automatic ON/OFF at 0°C(100mA@12V)

Environmental:

Operating Temperature: -50 ~ +70°C

Protection Class: IP65

Color: white as default, black is optional

Dimensions:  $\Phi 144 \times 165$ mm

Weight: 0.36 kg

Shipping Weight: 2.5 kg

## Optional component

<p>with screw standard 3/8-16 UNC</p> <p><b>Material: Aluminium</b></p> <p><b>Tripod installation kit 40 USD/UNIT</b> Tripod is not included</p>	<p><b>Mounting mast</b> 25 USD/UNIT <b>Material: Cast Aluminium</b></p> <p><b>Mounting mast 25 USD/UNIT</b></p>	<p><b>Material: SUS304</b></p> <p><b>Mounting bracket 25 USD/UNIT</b></p>
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