

HY-WDS2E Ultrasonic Anemometer

Introduction

HY-WDS2E Ultrasonic Anemometer uses highly stable ultrasonic probes to simultaneously measure wind speed and direction based on principle of TOF(time of flight) of ultrasonic sound wave. Power consumption is low to 7mA@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: $\pm 2\%$
2 minutes, 10 minutes secondary calculated
Minimum, Maximum, Averaged
wind, gust, compass, GPS, true wind speed and
direction are 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 Consumption:
Sensor: 7 mA @ 7-30 VDC
Heater: Automatic ON/OFF at 0°C (100mA@12V)
- Operating Temperature: -50 ~ +70°C
- Operating Humidity: 0 ~ 100%
- 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>Material: Aluminium</p> <p>Tripod installation kit 40 USD/UNIT Tripod is not included</p>	<p>Mounting mast 25 USD/UNIT Material: Cast Aluminium</p> <p>Mounting mast 25 USD/UNIT</p>	<p>Material: SUS304</p> <p>Mounting bracket 25 USD/UNIT</p>
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