

# HY-WDS6E all in one weather station

## Introduction

HY-WDS6E is all in one weather station integrated with multiple modules. Wind measurement is based on our ultrasonic technology, it has no fear of the damage commonly experienced with more fragile cups/vane weather station. Without the need for expensive on-site calibration or maintenance and with a corrosion free exterior, HY-WDS6E is maintenance free, quick and easy to install.

Shell is made by ASA engineering plastic, which has high outdoor weather ability. ASA is extremely resistant against UV radiation of sun, it is frost and heat resistant, standing all climatically conditions for over 10 years.

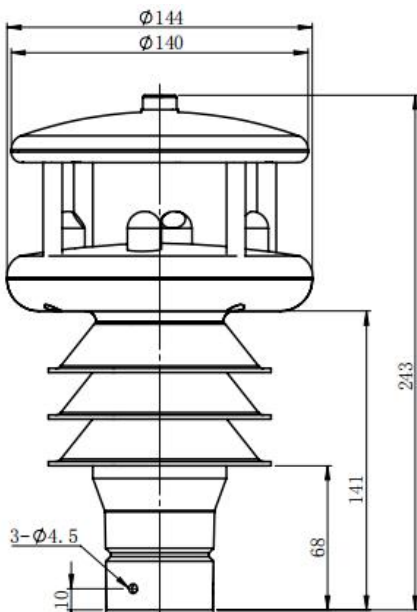
HY-WDS6E can realize simultaneous measurement of multi-parameters: wind, temperature, humidity, pressure and precipitation, solar, luminance, dust, noise.

Precipitation is detected by 24G radar or piezoelectric module.

## Application

Weather observation  
Emergency services  
Coastal and ocean buoys  
Agriculture and horticulture  
Environmental monitoring

## Dimension



## Specification

Wind Speed: 0 ~ 60m/s	Principle: Ultrasonic
80m/s is optional with extra cost	
Resolution: 0.1 m/s	Accuracy: ±2%
Wind Direction: 0 ~ 360°	Principle: Ultrasonic
Resolution: 1°	Accuracy: ±3°
Temperature: -40~+80°C	Principle: NTC
Resolution: 0.1°C	Accuracy: ±0.5°C
Humidity: 0-100%	Principle: Capacitive
Resolution: 0.1%	Accuracy: ±2%
Pressure: 150-1100hPa	Principle: Piezoelectric
Resolution: 0.1hPa	Accuracy: ±1 hPa
Precipitation: 0-500mm/hr	
Principle: 24G radar or piezoelectric	
Resolution: 0.01mm/hr	Accuracy: ±10%
Luminance: 0-200000lux	Principle: photoelectric
Resolution: 1 lux	Accuracy: ±5%
Solar Radiation: 0-2000W/m2	
Principle: photoelectric	
Resolution: 1 W/m2	Accuracy: ±5%
PM1.0/PM2.5/PM10: 0-500ug/m3	
Principle: laser scattering	
Resolution: 1 ug/m3	Accuracy: ±10%
Noise: 30-130 dB	
Principle: microphone	
Resolution: 0.13dB	Accuracy: ±3dB
Interface: RS232 or RS485	
Protocol: ASCII, ASCII polled, NMEA0183, MODBUS-RTU, SDI-12	
Baud: 1200, 4800, 9600, 19200, 38400	
Power consumption: Sensor: 7-30 VDC < 110 mA	
Operating temperature: -50 ~ +70°C	

