

HY-WDC

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231	Казань (843)206-01-48	Новокузнецк (3843)20-46-81	Смоленск (4812)29-41-54
Архангельск (8182)63-90-72	Калининград (4012)72-03-81	Новосибирск (383)227-86-73	Сочи (862)225-72-31
Астрахань (8512)99-46-04	Калуга (4842)92-23-67	Омск (3812)21-46-40	Ставрополь (8652)20-65-13
Барнаул (3852)73-04-60	Кемерово (3842)65-04-62	Орел (4862)44-53-42	Сургут (3462)77-98-35
Белгород (4722)40-23-64	Киров (8332)68-02-04	Оренбург (3532)37-68-04	Тверь (4822)63-31-35
Брянск (4832)59-03-52	Краснодар (861)203-40-90	Пенза (8412)22-31-16	Томск (3822)98-41-53
Владивосток (423)249-28-31	Красноярск (391)204-63-61	Пермь (342)205-81-47	Тула (4872)74-02-29
Волгоград (844)278-03-48	Курск (4712)77-13-04	Ростов-на-Дону (863)308-18-15	Тюмень (3452)66-21-18
Вологда (8172)26-41-59	Липецк (4742)52-20-81	Рязань (4912)46-61-64	Ульяновск (8422)24-23-59
Воронеж (473)204-51-73	Магнитогорск (3519)55-03-13	Самара (846)206-03-16	Уфа (347)229-48-12
Екатеринбург (343)384-55-89	Москва (495)268-04-70	Санкт-Петербург (812)309-46-40	Хабаровск (4212)92-98-04
Иваново (4932)77-34-06	Мурманск (8152)59-64-93	Саратов (845)249-38-78	Челябинск (351)202-03-61
Ижевск (3412)26-03-58	Набережные Челны (8552)20-53-41	Севастополь (8692)22-31-93	Череповец (8202)49-02-64
Иркутск (395)279-98-46	Нижний Новгород (831)429-08-12	Симферополь (3652)67-13-56	Ярославль (4852)69-52-93
Россия (495)268-04-70	Киргизия (996)312-96-26-47	Казахстан (7172)727-132	

2. HY-WDC series MINI Weather Station

HY-WDC2E cost-effective ultrasonic anemometer

HY-WDC2E Ultrasonic 2D Anemometer is designed 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. Low power chip make its power consumption low to 0.2W. By using ABS shell allows a lighter weight is lighter and more stable structure.



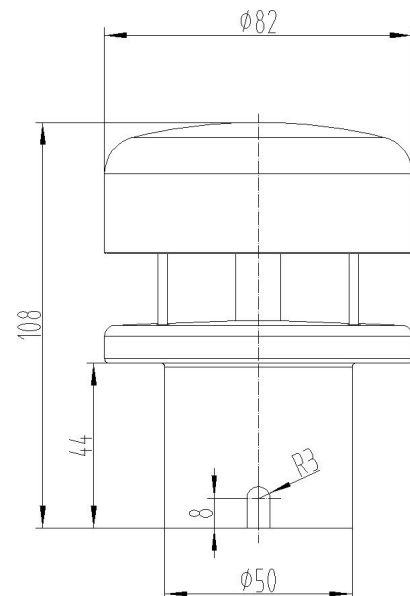
Specification

HY-WDC2E	Range	Accuracy	Resolution
Wind Speed	0 - 40m/s	±5%	0.1m/s
Wind Direction	0 - 359°	±3 °	1°
Digital Output	RS485 、 RS232、 SDI-12		
Baud Rate	4800 - 19200		
Communication Protocol	ModBus-RTU、 NMEA-0183、 ASCII		
Protection Grade	IP65		
Operating Temperature	-40℃ - +60℃		
Operating Humidity	0 - 100%		
Operating Voltage	5-30VDC 18mA @5V		
Dimension/Weight	ABS: Φ82×108mm 、 0.28kg ; Aluminum alloy: Φ82×125mm , 0.38kg		
Color of Body	Black or White		
Material	ABS or aluminum alloy		

- Extremely low power consumption(0.2W), suitable for solar-powered
- No moving or wearing parts
- Low power design supports battery-operated data loggers.
- Using engineering plastic or aluminum alloy shell make it lighter
- Adopts the reflecting type of ultrasonic probe, robust structure



Features



HY-WDC2THPE weather station

HY-WDC2THPE is developed based on WDC2E by integrating temperature, humidity, and barometric pressure sensor, its specification refer to HY-WDC6SE.

HY-WDC6E weather station

HY-WDC6E is developed based on WDC2E by integrating temperature, humidity, barometric pressure, and precipitation sensor, its specification refer to HY-WDC6SE.

HY-WDC6SE weather station

HY-WDC6SE is developed based on WDC2E by integrating temperature, humidity, barometric pressure, precipitation, solar radiation, and brightness sensor

Specification

Parameter	Range	Accuracy	Resolution
Wind Speed	0 - 40m/s	±5%	0.1m/s
Wind Direction	0 - 359°	±3 °	1°
Air Temperature	-40°C - +80°C	±0.5°C	0.1°C
Humidity	0-100%	±5%	1
Air pressure	150 - 1100hPa	±1	0.1hPa
Precipitation	0-100mm/hr	±10%(@ speed≤5m/s)	0.01mm
Altitude	-500 - 9000 m	±5%	1m
Solar Radiation (optional)	0-2000W/m ²	±10%	0.1 W/m ²
Brightness (optional)	0-200000lux	±10%	0.1 lux
UV Radiation (optional)	0-2000W/m ²	±10%	0.1 W/m ²
Digital Output	RS232 、 RS485、 SDI-12		
Baud Rate	4800 - 19200 bps		
Communication Protocol	ModBus or NMEA-0183 or ASCII string active output		
Protection Grade	IP65		
Operating Temperature	-40°C - +60°C		
Operating Humidity	0 - 100%		
Power Supply	7-30VDC		
Power Consumption	120mA @12V		
Dimension/Weight	Φ84×120mm ABS: 0.38kg		
Color of Body	White		
Material	ABS		

HY-WDC2DVSE Ultrasonic Anemometer for Davis VP 2

Compatible With Davis Vantage Pro2 Weather Station

HY-WDC2DVSE Ultrasonic Anemometer is completely powered by solar panel come with it. This model is customized to be completely compatible with Davis Vantage Pro2 series weather station, can be directly connected to Davis ISS via RJ11 port.

Thanks to ultrasonic technology, cost-effective HY-WDC2DVSE with significant advantages (Robust, No moving part & inertia) can obviously optimize performance of Davis' weather station, make it sensible to 0.1m/s wind, free from maintenance(wind part).

The "Plug & Play" WDC2DVSE connects directly to a pulse or potentiometer input. Maintenance-free plug & play ultrasound WDC2DVSE wind sensor upgrade for Davis weather stations, replaces anemometer models: # 7911, #7913, #7914, #6410.

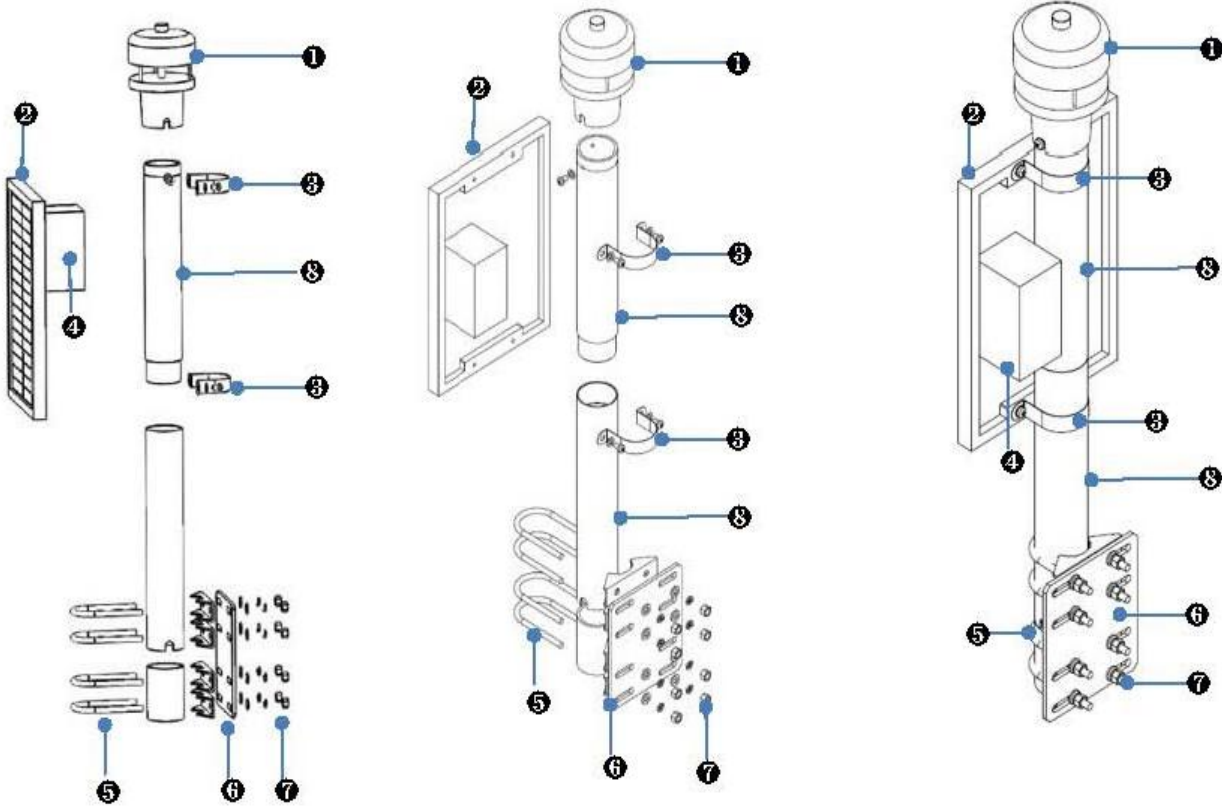


Technical specification

Signal Output	wind speed	pulse signal
	wind direction	potentiometer signal
Connection	RJ11	
Wind Speed	Range	0 - 40m/s
	Accuracy	±5%
	Resolution	0.1m/s(0.2 knots)
	Threshold	0.1m/s
Wind Direction	Range	0 - 359°
	Accuracy	±3°
	Resolution	1°
Solar Radiation (optional)	Range	0-1800 W/m2
	Accuracy	±10% F.S.
	Resolution	1 W/m2
Power Supply	Self-powered by Solar Panel & 2 pcs rechargeable 18650 lithium battery	
Environmental	Protection Class	IP65
	Operating Temperature	-40°C to +60°C
	Operating Humidity	0 to 100% RH
	CE	Approved
Mechanical	WDC2DVSE	Material Engineering ABS shell, Size:Φ84×120mm, 0.38kg
Power Supply	Solar Panel	Size: 25mm*18mm Weight:1kg.

Meteorological Instrument Manufacturer

Items included in parcel:



- ① WDC2DVSE Ultrasonic Anemometer
- ② Solar Panel
- ③ Clamp for solar panel
- ④ Power Manage Module

- ⑤ Clamp for conjunction plate
- ⑥ Conjunction plate
- ⑦ Nuts & Cushion & Spring
- ⑧ Mounting Mast



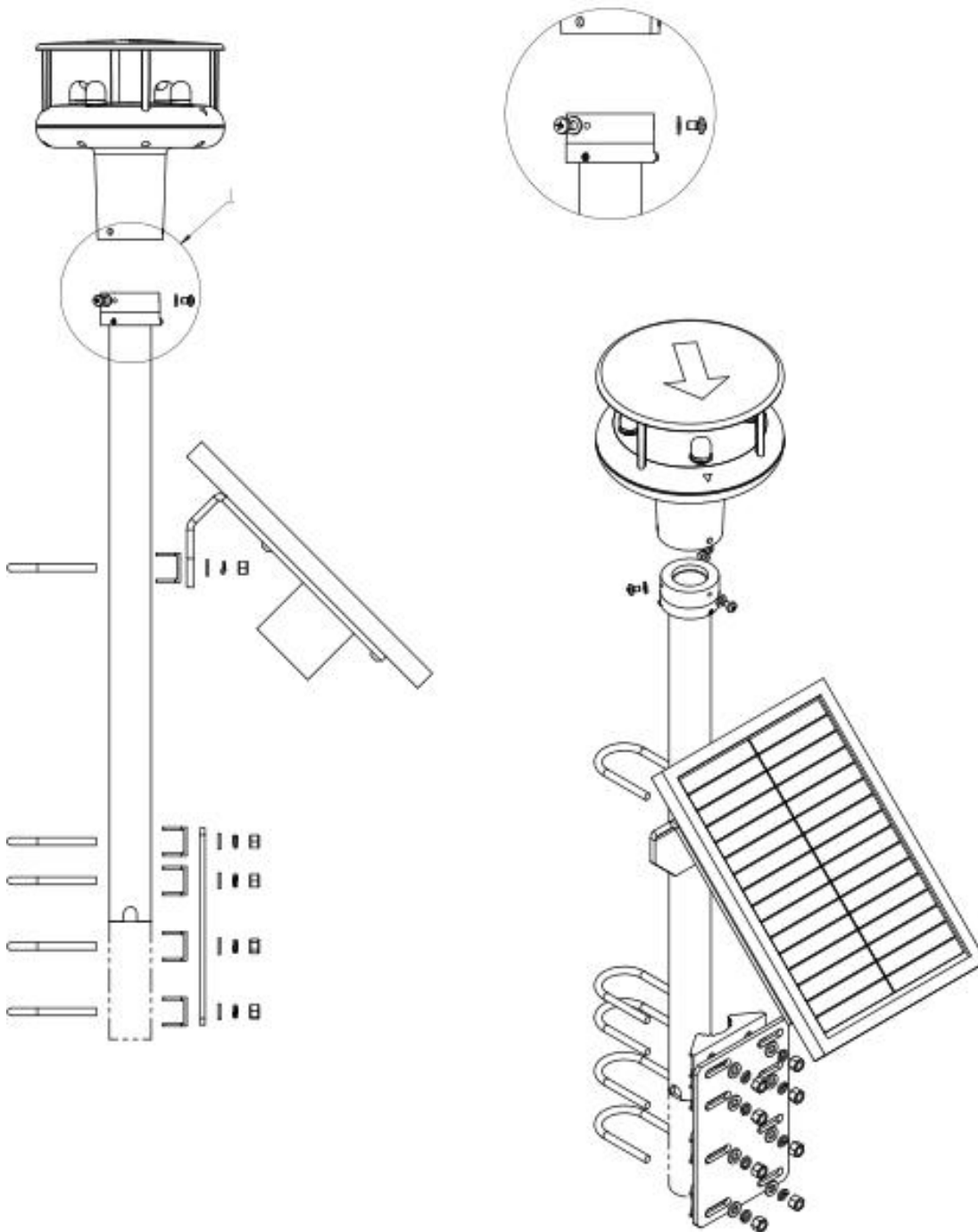
HY-WDS2DVSE Ultrasonic Anemometer

Compatible With Davis Vantage Pro2 Equipment

HY-WDS2DVSE Ultrasonic Anemometer is completely powered by solar panel come with it. This model is customized to be completely compatible with Davis Vantage Pro2 series weather station, can be directly connected to Davis ISS via RJ11 port.

Thanks to ultrasonic technology, cost-effective HY-WDS2DVSE with significant advantages (Robust, No moving part & inertia) can obviously optimize performance of

Davis' weather station, make it sensible to 0.1m/s wind, free from maintenance(wind part). The "Plug & Play" WDS2DVSE connects directly to a pulse or potentiometer input. Maintenance-free plug & play ultrasound WDS2DVSE wind sensor upgrade for Davis weather stations, replaces anemometer models: # 7911, #7913, #7914, #6410.



Meteorological Instrument Manufacturer

Specification

Signal Output	wind speed	pulse signal	
	wind direction	potentiometer signal	
Connection	RJ11	Heating Function	Yes
Wind Speed	Range	0 - 60m/s	
	Accuracy	±2%	
	Resolution	0.01m/s(0.2 knots)	
	Threshold	0.01m/s	
Wind Direction	Range	0 - 359°	
	Accuracy	±3°	
	Resolution	1°	
Power Supply	Self-powered by Solar Panel & 2 pcs rechargeable 18650 lithium battery		
Environmental	Protection Class	IP65	
	Operating Temperature	-40°C to +60°C	
	Operating Humidity	0 to 100% RH	
	CE	Approved	
Mechanical	WDS2DVSE	Material Engineering ABS shell, Size:Φ144×163mm, Weight:ABS:0.38kg	
	Solar Panel	Size: 25 cm*18cm Weight:2kg.	

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Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93