

HY-WDC6E Mini Weather Station

Overview

HY-WDC6E mini automatic weather station self-developed by HongYuv can simultaneously monitor multiple optional meteorological parameters: temperature, humidity, wind speed, wind direction, air pressure, precipitation, solar radiation, luminance and UV index.



Measurement of precipitation adopts advanced small 24GHz Doppler radar, The speed rate of drops is registered with a 24 GHz radar system. By comparison between the speed rate and the size of drops, the quantity of rain or its intensity will be registered. The rain/precipitation type (rain/snow/snow-covered rain/freezing rain/hail) is determined thanks to the speed rate of the rain.

Thanks to the adoption of new technology and design, the structure is more compact and robust. No need to conduct maintenance or calibration after installation. It's very suitable to be integrated into Agrometeorological System.

Application

- Weather station for household
- Meteorological observation for farmland
- Wind speed & direction monitoring for tower crane
- Smart city distributed weather station

Specifications

Optional Parameters	Range	Accuracy	Resolution
Wind Speed	0 - 40m/s	±5%	0.1m/s
Wind Direction	0 - 359°	±3 °	1°
Temperature	-40℃ - +80℃	±0.5℃	0.1℃
Humidity	0 - 100%	±5%	1
Air Pressure	150 - 1100hPa	±1hPa	0.1hPa
Precipitation	0 - 100mm/hr	±10%	0.01mm
Solar Radiation	0-2000 W/m2	±5%	0.1 W/m2
UV Radiation	0-2000 W/m2	±5%	0.1 W/m2
Luminance	0-200000 lux	±5%	0.1 lux
PM1.0/PM2.5/PM10(dust)	0-500 μ g/m3	±10%	1 μ g/m3
Digital Output	RS485 or RS232 or SDI-12	Baud Rate	4800 - 19200
Communication Protocol	ModBus-RTU,NMEA0183,SDI-12		
Output Frequency	1Hz	Protection Grade	IP65
Operating Temperature	-40℃ - +60℃	Working Humidity	0 - 100%
Power Supply	VDC: 7-24V 120mA@12VDC		
Material	ABS engineering plastic	Dimension/Weight	Φ84×210mm 0.33kg

Note: Configuration of parameters are decided when you place order. Price depends on configuration you need.

Site Photos

