

HY-WDC6E Mini Weather Station

Overview

HY-WDC6E mini automatic weather station self-developed by HongYuv can simultaneously monitor multiple optional meteorological parameters: wind speed, wind direction, temperature, humidity, pressure, precipitation, solar radiation, UV radiation, luminance and PM1.0/2.5/10.

Our weather station was made in molded thermoplastic, also known as ASA, which has high outdoor weather ability. ASA is extremely resistant against the sun's UV radiation, it is frost and heat resistant, standing all climatically conditions for over 10 years. The product is widely used in the automotive industry as well as various outdoor applications.

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

Model	HY-WDC6E			
Signal Output	RS232、RS485、SDI-12			
Power Supply	DC: 7-24V			
Data Output	1 per second			
Power Consumption	10~110mA @12V depend on parameter included.			
Material of Body	ASA			
Communication Protocol	Modbus-RTU、NMEA-0183、SDI-12			
Dimension	Ø144 * 210 mm			
Operating Temperature	-40°C - +60°C			
Operating Humidity	0 - 100%			
	Principle	Range	Accuracy	Resolution
Wind Speed	Ultrasonic	0-40m/s	±5%	0.1m/s
Wind Direction	Ultrasonic	0-359°	<3°	1°
Air Temperature	MEMS sensor	-40°C - +60°C	±0.5°C	0.1°C
Air Humidity	MEMS sensor	0-100%	±2%	0.1%
Air Pressure	MEMS sensor	150-1100hPa	±1 hPa	0.1hPa
Precipitation (Type:Rain/Hail/Snow; Intensity:Rain)	Radar	0-500mm/hr	±10%	0.01mm
Luminance	Silicon	0-200000 lux	±5%	1 Lux
Solar Radiation	Silicon	0-2000 W/m2	±5%	1 W/m2
PM1.0/PM2.5/PM10	Laser scattering	0-500ug/m3	±10%	1 ug/m3
Sea level	MEMS sensor	-50-9000m	±5%	1m

Note: All parameters needed should be decided when you place the order. Final price depend on configuration.