Renke Fixed Weather Station Types

Outdoor weather stations are monitoring instruments used to monitor real-time environmental changes and make corresponding warnings. Usually used in the meteorological industry. With the rise of various industries, automatic weather station technology has become more and more advanced, and its application has become more and more extensive. The technology of automatic weather stations has now reached the advanced technology of the Internet of Things. Weather stations play an important role in many industries, such as agriculture, industry and other industries are indispensable monitoring equipment. The following are the main types of weather stations in our company:

Renke - M1 types			
RS-QXZN-M1-DC-12-G		RS-QXZN-M1-LED-G	
Adopt split wind speed and direction sensor	Using ultrasonic wind sensor	Adopt split wind speed and direction sensor	Using ultrasonic wind sensor
This M1 type weather station can measure: wind speed, wind direction, soil temperature, soil moisture, soil EC, soil PH, air temperature and humidity, noise, carbon dioxide, atmospheric pressure, sunlight, rain and snow, UV, solar radiation, PM2.5, PM10, negative oxygen ions, rainfall, soil NPK.			

Renke - M2 types

RS-QXZN-M2-DC-12-G		RS-QXZN-M2-LED-G	
Adopt split wind speed and direction sensor	Using ultrasonic wind sensor	Adopt split wind speed and direction sensor	Using ultrasonic wind sensor
This M2 type weather station can measure: wind speed, wind direction, soil temperature, soil moisture, soil EC, soil PH, air temperature and humidity, noise, carbon dioxide, atmospheric pressure, sunlight, rain and snow, UV, solar radiation, PM2.5, PM10, negative oxygen ions, rainfall, soil NPK.			

Renke - M3 types

RS-QXZN-M3-DC-12-G	RS-QXZN-M3-LED-G
The C-type integrated weather station can measure: wind speed, wind direction, air temperature and humidity, noise, carbon dioxide, atmospheric pressure, PM2.5, PM10, negative oxygen ions.	The ultrasonic integrated weather station can measure: wind speed, wind direction, air temperature and humidity, noise, carbon dioxide, atmospheric pressure, light, PM2.5, PM10, negative oxygen ions.
This portable installation pole, without LED display, has a retracted height of 1 meter, a minimum installation height of 1.1 meters, and a maximum installation height of 2.1 meters	

Renke - M4 types	
RS-QXZN-M4-DC-12-G	RS-QXZN-M4-LED-G
The C-type integrated weather station can measure: wind speed, wind direction, air temperature and humidity, noise, carbon dioxide, atmospheric pressure, PM2.5, PM10, negative oxygen ions, and rainfall.	The ultrasonic integrated weather station can measure: wind speed, wind direction, air temperature and humidity, noise, carbon dioxide, atmospheric pressure, light, PM2.5, PM10, negative oxygen ions, and rainfall.

Renke - M5 types	
RS-QXZN-M5-DC-12-G	RS-QXZN-M5-LED-G

The C-type integrated weather station can measure: wind speed, wind direction, air temperature and humidity, noise, carbon dioxide, atmospheric pressure, PM2.5, PM10, negative oxygen ions, and rainfall.	The ultrasonic integrated weather station can measure: wind speed, wind direction, air temperature and humidity, noise, carbon dioxide, atmospheric pressure, light, PM2.5, PM10, negative oxygen ions, and rainfall.

Related technical parameters

Parameter	Interface	Instruction
Power supply	External power supply	220V AC alternating current
	Dual power supply	Support dual power supply of 220V mains and solar panels (priority mains power supply, when the mains is cut off, the solar panels and batteries provide power, and the equipment will work normally without interruption)
	Solar powered	Supporting our solar panels and batteries (battery life is about 7 days)
Data upload interface	GPRS	Upload data via GPRS
	4G	Upload data via 4G
	RJ45 network port	Uploading data through the network port and GPRS or 4G uploading cannot coexist
	ModBus-RTU	Support external devices to query the data in the weather station through the ModBus-RTU protocol.
Data acquisition communication interface	Main RS485 interface	Able to collect the data of the transmitter with 485 interface, the longest communication distance ≥ 1500 meters
Dot matrix LED screen display interface	LED screen display interface	Default with 96*48 dot matrix outdoor screen
2-way relay output (optional)	Relay dry contact output	Relay capacity: 250VAC/30VDC 5A Can be used as a remote control
1 channel tipping bucket rain gauge pulse signal input	Collecting magnetic switch pulse signal for rainfall measurement	Default pulse equivalent: 0.2mm Instantaneous rainfall, daily rainfall, current rainfall and accumulated rainfall values can be uploaded. (By default, the second switch value is used as the rain gauge input)
Data upload interval	2S~10000S	Data upload interval 2S~10000S can be set (default 30s)