



Automatic Weather Stations

| Meteorological Instrument

☰ Details Info

Automatic weather stations is used for wind direction, wind speed, rainfall, air temperature, relative humidity, barometric pressure, solar radiation, soil temperature, soil moisture and other weather elements for all-weather nine-site monitoring. Weather SMS with mobile phone,through a variety of communication methods (wireline, data radio, GPRS mobile communications, etc.) and meteorological center computercommunications, meteorological data to weather Weather Center computer database for statistical analysis and processing.

Automatic weather stations from the meteorological sensors, micro-meteorological data collection instrument, power systems, light shutterboxes, field boxes and stainless steel stents and other protective parts. Wind speed and direction and other meteorological sensors for the specificsensor with high precision and high reliability features. Micro-meteorological data collection instrument with weather data acquisition, real-time clock, time weather data storage, parameter setting, user-friendly interface and standard communication functions. Widely used in meteorology,environmental protection, airports, agriculture, forestry, hydrology, military, warehousing, research and other fields.

Function

- Real-time monitoring of wind speed, wind direction, rainfall, temperature, humidity, barometric pressure, solar radiation, soil temperature, soil moisture and other nine elements of meteorological parameters
- Micro-meteorological data collection instrument with weather data acquisition, real-time clock, time storage, parameter setting, historical dataand meteorological parameters such as power-down protection functions
- USA character LCD keypad interface, friendly interface.
- Mobile weather SMS.
- Standard RS232/485 communication, support the MODBUS protocol, can be wired, mobile wireless GPRS and wireless data radio and othermeans of communication and meteorological weather monitoring system composed of a computer.
- Power system electricity, DC and solar systems a variety of ways.

- All-steel frame and field protection case, appearance, corrosion resistance, anti-interference.

System Features

- Power System: wind and solar power systems, AC 220V, DC 5V, 12V, and solar power can also be optional according to user needs.
- Reliable operation in harsh field environments, low power, high stability, high accuracy, can be unattended.
- Improve the lightning, and interference protection.
- Hardware and software are open modular design modular, flexible combination.
- Optional weather sensors as needed.
- means of communication can be optional according to need.

Measurement parameters

| Elements | Range | Resolution | Accuracy | Unit |
|---------------------|-----------|------------|---|------|
| Ground temperature | -50--80 | 0.1 | ±0.3 | °C |
| Air temperature | -50--50 | 0.1 | ±0.2 | °C |
| Relative Humidity | 0--100 | 1 | ±3 | % |
| Wind velocity | 0--70 | 0.1 | ± (0.3+0.03V) | m/s |
| Wind direction | 0--360 | 2.5 | ±5 | |
| Barometric pressure | 450--1060 | 0.1 | ±0.3 | hpa |
| Precipitation | 0--999.9 | 0.2 | ±4% (Indoor static test, the rain intensity2mm/min) | mm |
| Total radiation | 0--1500 | 1 | ±0.5 | w/m2 |



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