

HY-RS2E Radar Precipitation Solar Radiation Sensor

Brief Introduction

HY-RS2E 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/hail) is determined thanks to the speed rate of the rain. Resolution up to 0.1mm, without maintenance.



HY-RS2E radar precipitation detector has higher sensitivity and faster response than the traditional mechanical type when detecting start and end time of rain, besides, neither do you need to worry about obstruction such as leaves covered in the surface of the detector to interfere with rainfall detection, nor do you need to have heating device to prevent freezing.

HY-RS2E detector has no moving parts, almost free of maintenance, and it's small and of extremely low power consumption.

Application

- Weather station
- Smart city weather system
- River flood control forecasting

Technical Specifications

| | |
|-------------------------|--------------------------------|
| Model | HY-RS2E |
| Type of precipitation | Rain,Snow,Hail |
| Measurement Range | 0.01-200mm/hour (liquid |
| Accuracy | +10% of the measured value for |
| Measuring drop size | 0.5-5.0mm |
| Resolution | 0.1mm |
| Sample rate | 1 time per second |
| Communication interface | RS485、RS232 |
| Protocol | ModBus、NMEA-0183、ASCII |
| Voltage | DC7-30V: 130mA@12V |
| Operating Temperature | -40℃ — +70℃ |
| Operating Humidity | 0-100% |
| Size | Ø105 * 178mm |
| Material | Aluminum alloy +ABS |
| Weight | 0.45kg |
| Protection Grade | IP65 |

