

# RK400-13 Radar Rainfall Sensor

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1

The Radar Rainfall Sensor is a precipitation sensor which can be used to determine both the type of precipitation and its quantity and intensity. The RK400-13 operates with a 24GHz Doppler radar, which records raindrop fall speed. The precipitation quantity is then calculated by means of the correlation of raindrop size and speed. RK400-13 is more sensitive and has faster response time than tipping bucket rainfall gauge, It's configurable as a replacement for tipping bucket systems and the leaves fallen on its surface won't matter at all, no necessary to add extra heating device to protect it from, The RK400-13 precipitation sensor allows fast measurement of precipitation intensity and distinguishes between precipitation type (Rain, snow, hail).

## FEATURES

- Compact size for easy use
- High accuracy, good stability
- Light weight
- Free calibration and maintenance

## Parts:

1. Rainfall sensor with cable: 1

2

## SPECIFICATIONS

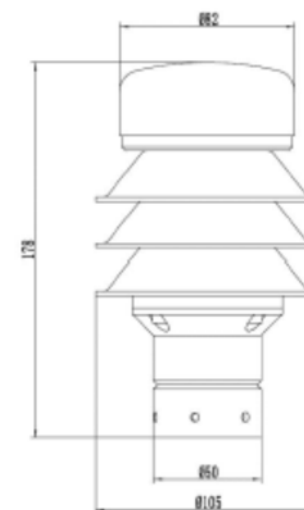
Item	Specification
Distinguishable type	Rain, Snow, Hail
Measure Range	0-100mm/hour
Sample frequency	0.1s
Resolution	0.1mm
Accuracy	±10% (wind speed<5m/s)
Supply	Mark on the label
Output	RS485,RS232,SDI-12 Optional
Operating temperature	-30-+60°C
Operating humidity	0-100%
Main material	ABS+ aluminum alloy
Dimension	Ø105 * 178mm
Weight(unpacked)	0.45kg

## MOUNTING

Follow the instructions below to guarantee correct long-term operation:

- Installation height above the ground 2 meters
- Distance to road carriageway at least 10m
- Distance to trees or bushes at the height of the sensor at least 10m
- When selecting the installation location please take care to position the device at a suitable distance from other systems incorporating a 24GHz radar sensor, such as traffic counting devices on overhead gantry signs. Otherwise cross effects and system malfunctions may occur. In the final analysis, the distance to other measuring systems also depends on their range of coverage and signal strength.

3



4

