

Radar Rain Gauge

»Product Introduction

The HY-RS2E incorporates a compact flat-panel radar module that uses 24 GHz Doppler radar technology to measure the descent velocity of precipitation droplets. Based on the droplet size and descent velocity, it can distinguish between rain, snow, and hail, as well as determine precipitation intensity.

Compared to traditional mechanical rain gauges, the HY-RS2 radar rain detector can detect the start and end of rainfall more sensitively and quickly; there is no need to worry about objects such as leaves covering the detector' s surface and affecting rainfall detection, nor is a heating device required to prevent icing. The detector contains no moving parts, is maintenance-free, compact, and energy-efficient.



»Technical Indicators

Project		Parameters
Measurement Type		Rain, Snow, Hail
Rainfall Range		0 – 400 mm (rainfall)
Measurement Accuracy		Daily Total ± 5%
Particle Size Range (Raindrop Size)		0.5 – 5.0 mm
Rainfall Resolution		0.1 mm
Sampling Frequency		1 second
Lightning Detection	Range	0 – 40 km
	Accuracy	±2 km
	Resolution	1 km
Digital Output		RS485、RS232、SDI-12
Protocols		ModBus-RTU、ModBus-ASCII
Power/Power consumption		DC 7 – 24 V； 1.6 W @ 12 V
Operating Range		-40 ℃ – 80 ℃； 0 – 100% RH
Size		Ø105 × 215 mm
Material / Weight		ASA / 0.56 kg

»Applications

- • Rainfall Monitoring at Weather Stations
- • Urban Meteorological Monitoring System
- • River Flood Monitoring



»Key Features

- ● Detects the start and end of rainfall more sensitively and quickly than mechanical rain gauges
- ● Unaffected by objects such as leaves covering the detector surface
- ● No heating device required to prevent icing
- ● No moving parts, zero wear
- ● Maintenance-free, compact, and energy-efficient



»Product Showcase



