

ABS tipping bucket rain gauge

Model ES-R404



Main features

- ABS shell material, no rust
- High finish, small error caused by stagnant water
- Mechanical bistable structure
- Imported probe with high sensitivity and accurate measurement
- Support RS485, pulse, analog signal output
- Support dynamic monitoring of instantaneous rainfall, 24-hour rainfall, total rainfall, etc.
- The chassis is equipped with a level adjustment bubble, which can calibrate the level

Compliance

The electromagnetic compatibility in accordance with the following applicable directives:

- LVD 2014/35/EU Low Voltage
- EMC 2014/30/EU
- Electromagnetic Compatibility
- EMC 2014/35/EU
- Electromagnetic Compatibility

Introduction

ES-R404 is a precipitation measurement instrument, and its performance meets the requirements of the national standard GB/T 21978.2-2014 "Precipitation Observation Requirements".

The core component of the instrument, the tipping bucket, adopts a three-dimensional streamlined design, which makes the tipping bucket turn water more smoothly, and has the functions of self-cleaning dust and easy cleaning. The rainfall can be directly read, without the need for secondary calculation, which is simple and convenient.

The tipping bucket of the instrument is equipped with a constant magnet steel, and the reed switch bracket is equipped with a reed switch. When the instrument leaves the factory, the magnetic steel and the reed switch have been adjusted to a suitable coupling distance, so that the output signal of the instrument is proportional to the number of times the tipping bucket is turned over relation.

Application

ABS tipping bucket rain gauge are widely used in many fields, including meteorological observation, hydrological monitoring, agricultural irrigation, environmental protection and urban management, traffic management, etc.

Dimension

Unit:mm



Specification

Rain gauge cylinder diameter	Φ200mm
Resolution	default 0.2mm, optional 0.5mm
Cutting edge acute angle	40°~45°
Measurement error	≤±3% (indoor artificial precipitation, subject to the discharge of the instrument itself)
Rain intensity range	0mm~4mm/min (maximum rain intensity allowed to pass 8mm/min)
Output model	4~20mA/0~2V/0~5V/0~10V, pulse type, 485 communication (standard MODBUS-RTU protocol)
Power supply range	4.5~30V
Maximum power consumption	0.24W
Working environment	0~50°C, <95%(40°C)
Storage environment	-40~125°C, <80% (non-condensing)
Withstand voltage	≤100V (pulse type)
Withstand current	≤0.5A (pulse type)

Order guide

ES-R404	ABS tipping bucket rain gauge		
	CODE	Functions	
	A	rain gauge	
		CODE	Signal output
		1	RS485
		2	Analog 4~20mA/0~2V/0~5V/0~10V
		3	Pulse
ES-R404	A	1	Order example