

# RAIN GAUGE



## Tipping Bucket Rain Gauge

Rain gauge is a device to measure liquid rain fall amount and intensity. The device is composed of a rain collector cone and a double-chamber tipping bucket connected to a magnet. In order to meet the requirement of information transmission, processing, recording and display, amount of rainfall is converted to pulse output by the magnet. It can be widely used in weather stations, hydrometric stations, agriculture & forestry, defence & field monitoring stations. It can provide the original data for flood prevention, water-supply system, and reservoir water management in plant.



### Features

- Compact size for easy use.
- High accuracy, good stability.
- Mesh in the funnel preventing debris such as leaves and insects from entering the working of rain sensor (mesh is optional).
- Highly polished stainless steel construction.
- Rain collector with filter, to prevent the leaves, such as debris jam over the hole.
- Optional heating function in cold region.

### Applications

Water supply systems, Hydrology, Natural disaster monitoring, Agro-meteorological research, Climate research, Weather stations etc.

### Technical Specifications

	SS-TBRG-01	SS-TBRG-02	RK400-07	SS-TBRG-03
				
<b>Diameter</b>	φ200 mm	φ 200 mm	φ 200 mm	φ159.60±0.6 mm
<b>Collector Area</b>	314 cm <sup>2</sup>	314 cm <sup>2</sup>	314 cm <sup>2</sup>	200 cm <sup>2</sup>
<b>Resolution</b>	0.2 mm	0.1 mm & 0.2 mm	0.5 mm and 1 mm	0.1 mm
<b>Accuracy</b>	±4%	a) ±2% for rain rate up to 25 mm/hr b) ±3% or better, for rain rate between 25mm/hr to 150 mm/hr	a) ±2% for rain rate up to 25 mm/hr b) ±3% or better, for rain rate between 25mm/hr to 150 mm/hr	±0.4mm(≤10mm); ±4%(>10mm)

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	SS-TBRG-01	SS-TBRG-02	RK400-07	SS-TBRG-03
Output	Dry reed switch contact pulses; RS485 (optional)	Dry reed switch contact pulses; RS485 (optional)	Dry reed switch contact pulses; RS485 (optional)	Dry reed switch contact pulses; RS485 (optional)
Operating temperature	0 to 60°C	-20 to +80°C (no freeze)	-20 to +80°C (no freeze)	0 to 60°C
Material	Rainfall collector & tipping bucket: ABS, supporting leg: 304SS	Collector: 304SS, tipping bucket: ABS	Collector: 304SS, tipping bucket: ABS	Housing: Aluminium Alloy
Weight	2.5 Kg	3.5 Kg	3 Kg	1.3 Kg

## Common Technical Specifications

Rain Gauge	Principle	Switch close/open tipping bucket
	Design	WMO Complied
	Levelling unit	Bubble air fixed on the base
	Protection from dirtiness	Removable filter on the in-let
	Protection rate	IP66

Note: Calibration certificate from India Meteorological Department may be provided for specific requirement.