

Tipping Bucket Rainfall Sensor AR400-01H



Reliable & Industrial Economical Tipping Bucket Rainfall Sensor



The **AR400-01H Tipping Bucket Rainfall Sensor** is an instrument for testing rainfall in the nature. in order to meet the requirement of information transmission, processing, recording and display, the amount of rainfall is converted to pulse output. It can be widely used in weather stations, hydrometric stations, agriculture and forestry, defense & 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).
- ▶ Well made tipping bucket with low resistance.
- ▶ High polished stainless steel construction.



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Applications

- ▶ Water supply system
- ▶ Hydrologic monitoring
- ▶ Natural disaster monitoring
- ▶ Agro-meteorological research
- ▶ Climate research



Technical Specifications

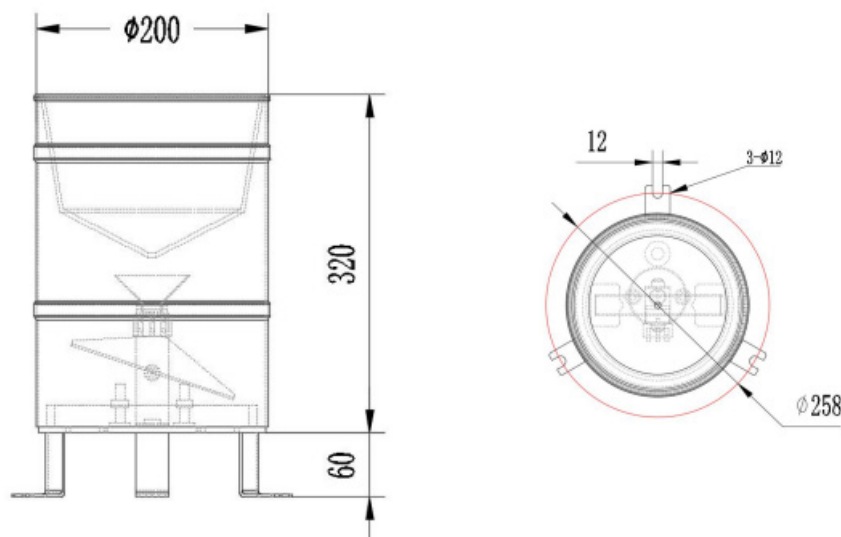
Item	Specification
Rainfall collector	Diameter: $\Phi 200\text{mm}$, height: 350mm
Measured rainfall intensity	Max: 4mm/min
Allow rainfall intensity	Max: 10mm/min
Resolution	0.1mm, 0.2mm
Accuracy	$\pm 2\%$ upto 25m/h, $\pm 3\%$ upto 25m/h
Maximum load voltage	30VDC (pulse output)
Maximum load current	20mA (pulse output)
Output	Reeds witch pulses, RS485 (12-24VDC supply)
Operating temperature (no freeze)	-20~+80°C
Main material	Collector: 304SS, tipping bucket: ABS
Tipping bucket	Single
Heating (optional)	Heating power: approx..350W Heating voltage: 22VAC
Collector filter	Removable filter (prevent leaves and sundries) optional
Weight (unpacked)	3.5kg



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Dimension

Unit:mm



Parameter Selection Table

Remark	Series	Type	Output	Resolution	Heating	Filter	Cable Length	
AR								
	400							
		01H						
			A					Pulse (Reed switch)
			B					RS485
			C					Customization
				A				0.2mm (default)
				X				Other
					A			Without heating
					B			With heating (independent cable)
						A		Without filter
						B		With filter
							1500	Units: mm
							3000	Units: mm
							...	Units: mm

