

Rain Gauge Sensor

Model: RG0002

Product Overview

The RG0002 is a tipping bucket rain gauge that measures rainfall accumulation and intensity. The gauge uses a precisely calibrated double tipping bucket mechanism where each tip represents 0.2mm of rainfall. The sensor outputs rain data via RS485 Modbus protocol. The stainless steel construction provides durability for long-term outdoor deployment.



Applications

- Agricultural weather monitoring
- Irrigation scheduling based on rainfall events
- Flood warning and drainage management
- Hydrological studies and water balance calculations
- Weather station integration
- Erosion risk assessment
- Runoff prediction for field operations

Measurement Specifications		Electrical Specifications	
Rainfall Range	0 - 100 mm	Power Supply (Input)	9 - 24V DC
Rain Intensity	0 - 4 mm/min	Signal Output	RS485
Resolution	0.2 mm		

Environmental Specifications		Measurement Accuracy	
Operating Temperature	0°C to +70°C	Measurement Accuracy	±3%
Operating Humidity	0% to 100% RH		

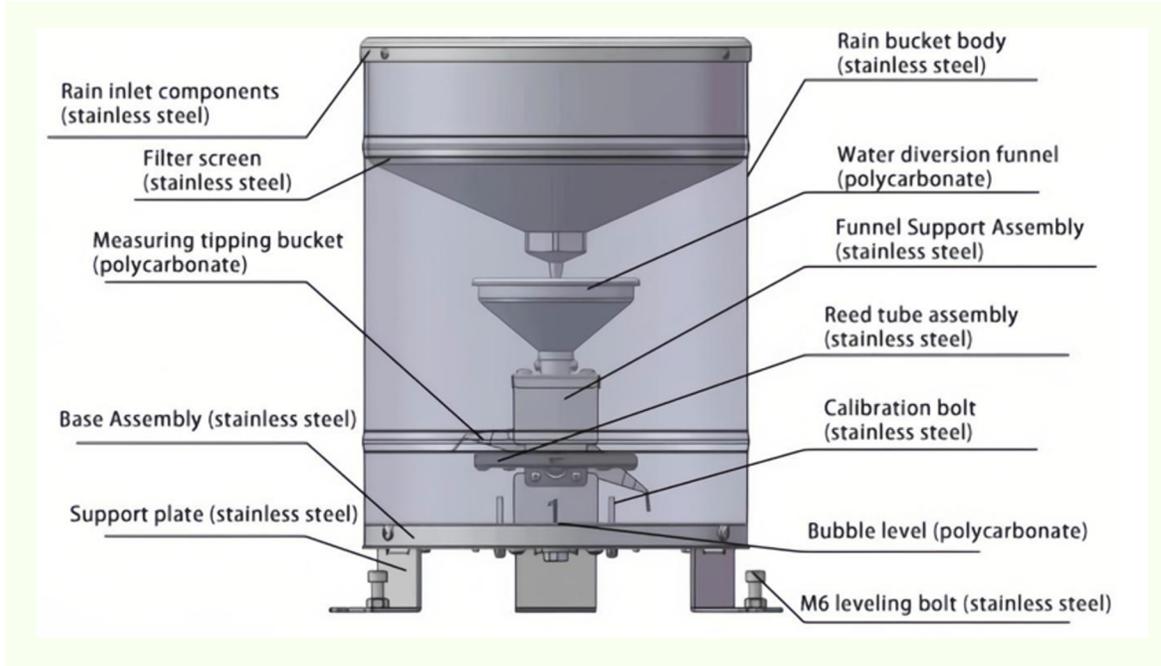
Physical Specifications		Cable & Connection	
Rain Bearing Diameter	200 mm	Cable Length	3 meters
Cutting Edge Angle	40° to 45°	Connector Type	M12, 4 Pin Male A Code (PG9)
Tipping Bucket	Double		
Material	Stainless Steel + Polycarbonate		
Outline Dimensions	210 mm (dia) × 367 mm (H)		
Ingress Protection	IP67		



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Water Level Transmitter

Model: WLT13010 / WLT16035

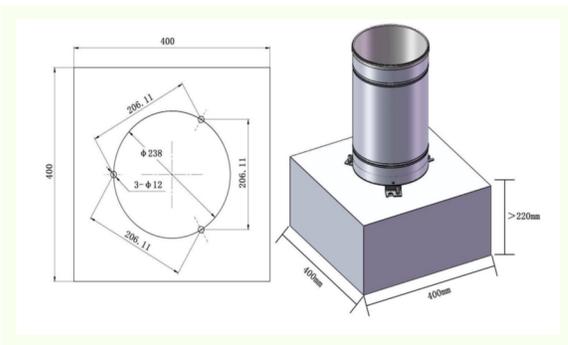


Installation Notes

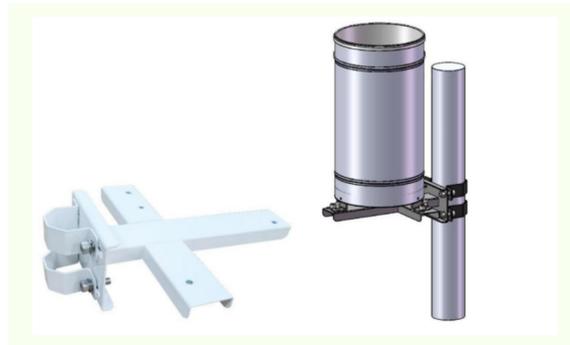
- Install on a level surface away from buildings, trees, and other obstructions
- The gauge opening should be at least 30cm above ground level to prevent splash
- Use the three M6 adjusting screws to level the gauge using the built-in spirit level
- For pole mounting, secure the bracket to a stable mounting pole before attaching the gauge
- Ensure no objects overhead that could drip water into the gauge
- Clean the funnel and filter periodically to prevent blockages from debris or insects

Suggested field installation

Method I: Concrete base



Method II: Mounting pole (48mm) & Bracket



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Installation Steps:

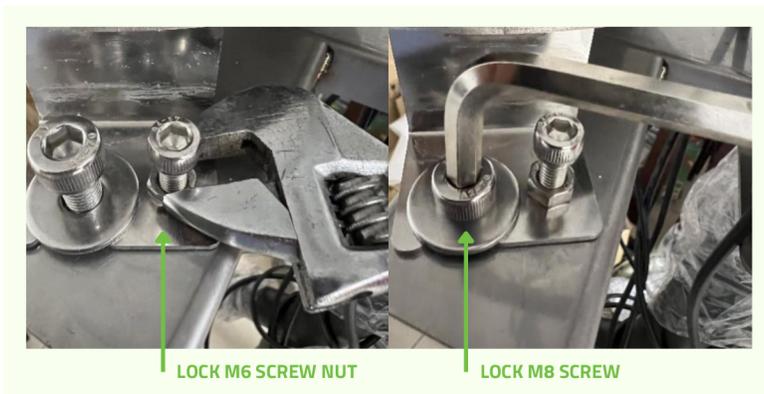
- Unscrew three screws and disassemble the rain gauge bucket body;
- Install the bracket on the mounting pole (method II). For method I, skip this step.
- Use three M8 screws & washers to install the rain gauge without bucket onto the basement (method I) or onto the rain gauge bracket (method II). Do not tighten the screws this step.



- Adjust three M6 screws until the bubble of leveling compensator is in the center.



- Tighten three M6 screw nuts with wrench.
- Tighten three M8 screws with washers onto the basement (method I) or onto the rain gauge bracket (method II).



- Install the bucket body back to rain gauge.



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