

PRODUCT OVERVIEW

RAIN GAUGE

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Product Manual

Tipping Bucket Rain Gauge R60



R60 Tipping Bucket Rain Gauge

Tipping Bucket Rain Gauge was designed for the National Weather Service to provide a reliable, low-cost tipping bucket rain sensor. It has been update and improved with the addition of an inner funnel to even the flow of the rainfall into the gauge, providing better accuracy at higher rainfall rates. It simplicity of design assures trouble-free operation , yet provide accurate rainfall measurement

Features

WMO standard bucket's top diameter (200mm/8")

High Accuracy

Good stability

Low resistance

Mesh in the funnel preventing debris

Highly polished stainless steel construction

Horizontal Bubble in bottom

Applications

Environmental monitoring

Water supply system

Hydrological monitoring

Natural disaster monitoring

Climate research

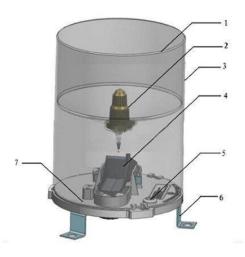
Weather monitoring stations

Smart Agriculture



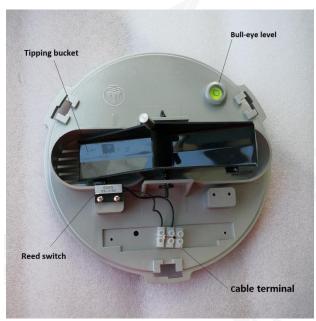


1. Specification



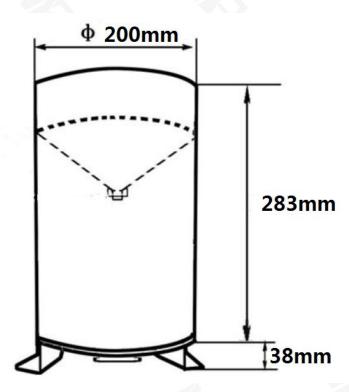
- 1. Rainfall collector
- 2. Filter
- 3. Enclosure assembly
- 4. Tipping bucket
- 5. Bull-eye level
- 6. Mounting foot
- 7. Base





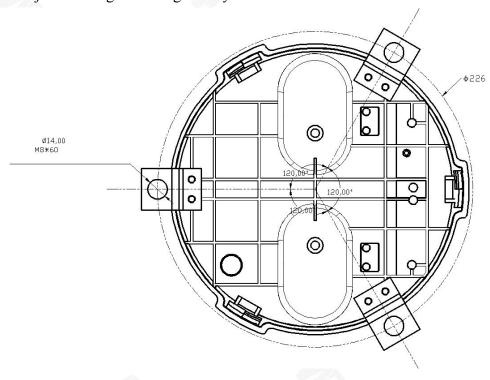
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|-----------------------------|---|--|
| Type Image | R60ABS2 | R60ABS5 |
| Material | ABS+PC | ABS+PC |
| Measuring range | 0~4mm/min | 0~4mm/min |
| Accuracy | $\pm \leqslant 2\% (\leqslant 0.4 \text{mm/min});$ $\pm \leqslant 3\% (\leqslant 2 \text{mm/min});$ $\pm \leqslant 6\% (\leqslant 4 \text{mm/min})$ | $\pm \leqslant 2\% (\leqslant 0.4 \text{mm/min});$ $\pm \leqslant 3\% (\leqslant 4 \text{mm/min});$ |
| Resolution | 0.2mm | 0.5mm |
| Inner diameter | 200mm/8inch ±0.3% | |
| Acute angle of cutting edge | 40~45° | |
| Insect protection | Steel stainless Mesh | |
| Output | Reed switch,5 pulse/mm (MaxDC24V,100mA) | Reed switch,2 pulse/mm (MaxDC24V,100mA) |
| Level control | Bulls eye level adhered | |
| Mounting holes | Three mountings | |
| Discharge control | Straight through flow mechanism | |
| Working temperature | -10∼50°C | |
| Working humidity | 0%~100%RH | |
| Gross Weight | 2.1Kgs | |
| Packing Size | 26*26*34cm | |

2. Installation



A. Method 1 (with 3 mounting foot)

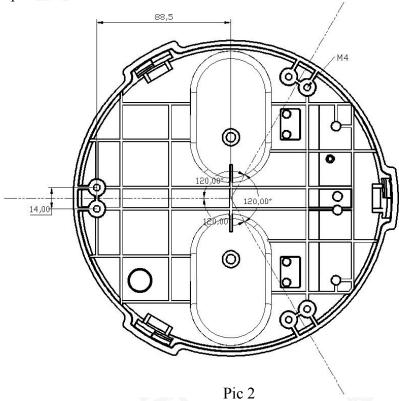
- a. Use M8*60 expansion screws fixed on the ground or plate;
- b. Adjust leveling according bull-eye level.



Pic 1

B. Method 2(Without 3 mounting foot)

- a. Attention: The surface is not flat, customer should prepare bracket by themselves;
- b. 6pcs M4 screw fixed.

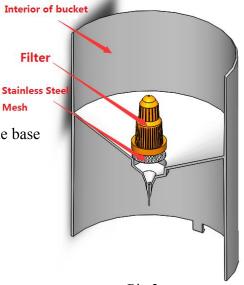


3. Maintenance

The only routine maintenance required is cleaning. The following items should be checked regularly

for cleanliness:

- * Filter
- * Stainless steel mesh
- * Interior of bucket
- * Ensure Rain Gauge is level using the bubble level fitted to the base
- * Enclosure locking screws lightly lubricate after cleaning



Pic 3

A. Dismounting steps

- 1. Pull out the filter Pic4.
- 2. Take out the stainless steel mesh and clean it Pic 5



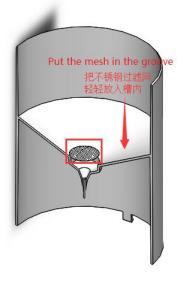


Pic4

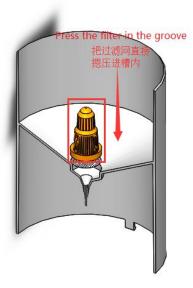
Pic5

B. Assembly steps

- 1. Put the cleaned stainless steel mesh on the bottom Pic6
- 2. Press the filter in the groove Pic7



Pic 6



Pic7

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