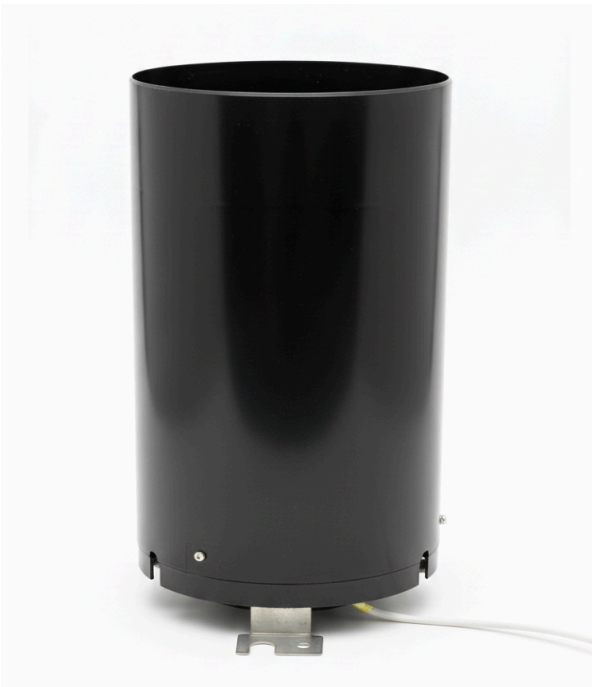


RAIN GAUGE

The Tipping Bucket Rain Gauge represents the pinnacle of precipitation measurement technology, delivering exceptional accuracy and reliability in rainfall monitoring. This precision-engineered instrument employs an advanced balanced tipping mechanism to provide continuous, high-fidelity rainfall data collection for meteorological applications, hydrological research, and environmental monitoring programs. Constructed with durable, weather-resistant materials, the gauge maintains measurement integrity even under extreme environmental conditions.

Designed for seamless integration with modern data acquisition systems, this rain gauge features plug-and-play compatibility with data loggers and remote monitoring platforms, enabling real-time precipitation analysis and informed decision-making. The innovative quick-release maintenance system provides effortless access to internal components, significantly reducing service time and ensuring optimal long-term performance.



Key Features

- **Precision Measurement:** Balanced tipping bucket mechanism ensures laboratory-grade accuracy
- **Maintenance Optimized:** Minimal moving parts design enhances reliability and reduces servicing requirements
- **Advanced Sensing:** Magnetic reed switch technology for precise tip detection
- **Intensity Compensation:** Maintains accuracy across varying rainfall rates
- **Weather-Resistant Construction:** Durable ABS housing withstands harsh environmental conditions
- **System Integration:** Direct compatibility with data loggers and automated weather stations
- **User-Centric Design:** Quick-release fasteners for simplified maintenance procedures

Technical Specifications

| Parameter        | Specification   |
|------------------|---|
| Instrument Type  | Precision Tipping Bucket Rain Gauge                     |
| Orifice Diameter | 159.5 mm or 200 mm (configurable)                       |
| Collector Area   | 200 cm <sup>2</sup> or 314 cm <sup>2</sup> (selectable) |

RAIN GAUGE

| Parameter              | Specification   |
|------------------------|---|
| Sensing Technology     | Magnetic reed switch detection                          |
| Measurement Range      | Up to 150 mm/hour rainfall intensity                    |
| Response Capability    | 1 pulse per second maximum operation rate               |
| Measurement Resolution | 0.2 mm or 0.5 mm per tip (configurable)                 |
| Output Signal          | Reed switch pulse count                                 |
| Measurement Accuracy   | ±2% (traceable calibration)                             |
| Construction Material  | UV-stabilized ABS polymer                               |
| Leveling System        | Adjustable leveling screws with integrated spirit level |
| Debris Protection      | Integrated stainless steel mesh filter system           |

Enclosure & Mechanical Specifications

| Characteristic     | Specification   |
|--------------------|---|
| Body Material      | Weather-resistant ABS polymer                         |
| Protection Rating  | IP65 environmental protection                         |
| Color              | Solar-reflective white                                |
| Mounting System    | Adjustable base with secure mounting provisions       |
| Maintenance Access | Quick-release fasteners for internal component access |

Applications

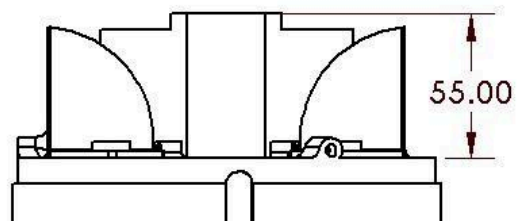
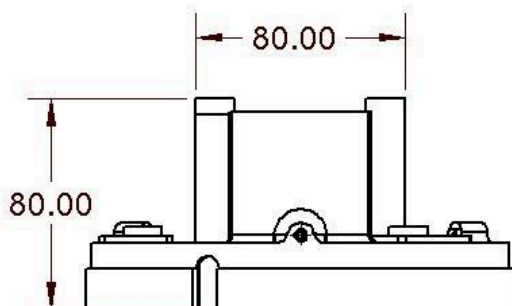
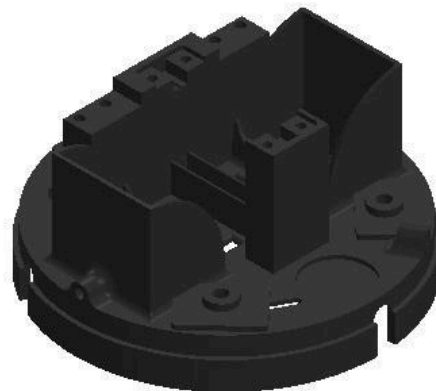
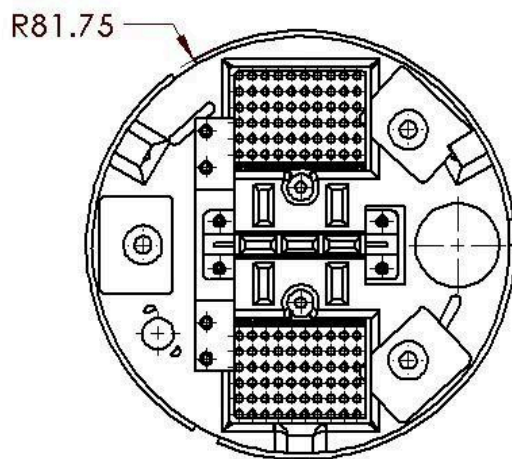
- Meteorological Monitoring:** Professional weather station precipitation measurement
- Agricultural Management:** Irrigation planning and crop water requirement assessment
- Hydrological Research:** Watershed analysis and rainfall pattern studies
- Environmental Science:** Climate change research and environmental impact assessment

## RAIN GAUGE

- **Civil Engineering:** Urban drainage design and flood prediction systems
- **Educational Institutions:** Atmospheric science research and teaching applications

### Quality Assurance

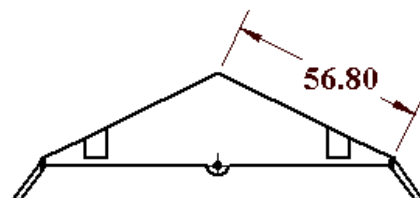
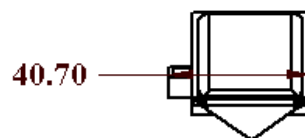
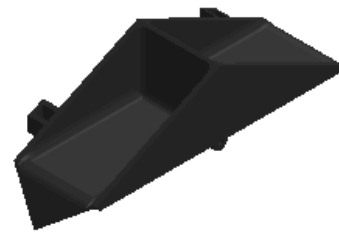
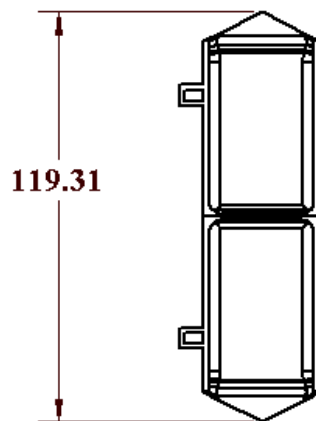
- Factory calibrated with traceable certification
- Compliance with international meteorological standards
- Environmental testing for temperature and humidity extremes
- Vibration and shock resistance validation
- Long-term durability testing for UV and weather resistance



## RAIN GAUGE

### Rain Gauge Base

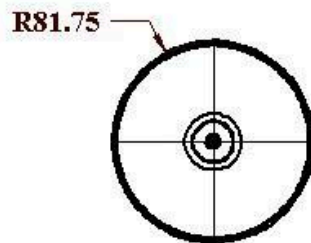
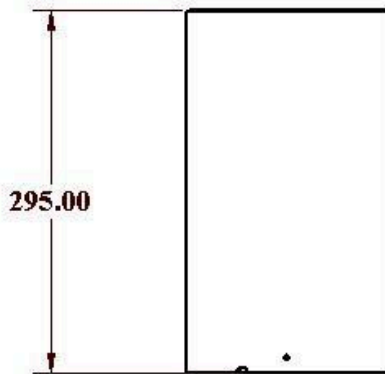
(All The Dimensions are n mm)



### Rain Gauge SeeSaw

(All The Dimensions are in mm)

## RAIN GAUGE



### Rain Gauge Cylinder

(All The Dimensions are in mm)