

# Tipping Bucket Rain Gauge



Accurate rainfall measurement for  
network and catchment monitoring



Product datasheet

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## Accurate rainfall measurement for network and catchment monitoring

The Tipping Bucket Rain Gauge delivers accurate, real-time rainfall data to support hydrological assessments, environmental compliance, and sewer network performance monitoring. Each tip of the bucket corresponds to a known volume of rain, providing consistent measurement even during high-intensity events. Supplied as a complete unit with flat plate mounting, it is designed for long-term deployment in harsh outdoor environments.



## Key Applications

This device supports a wide range of environmental and infrastructure monitoring needs, including:

- Flow surveys for sewer and drainage systems
- Flood risk analysis and mitigation planning
- River and catchment hydrology studies
- Environmental monitoring and regulatory reporting

## Power

The rain gauge is battery powered with a field-replaceable battery pack. Depending on usage and configuration, battery life can extend up to 7 years. No solar panel is required or supported.

## Deployment and Maintenance

The rain gauge is designed for straightforward deployment and long-term reliability. It comes fully assembled and pre-calibrated, with all necessary mounting hardware included for flat plate installation. Setup is completed via a dedicated mobile app, compatible with Android 14 or later, allowing for quick configuration in the field without the need for a PC. Once installed, the device requires minimal maintenance—typically just periodic cleaning and inspection of the integrated insect filter. Its durable construction and remote update capabilities further reduce the need for on-site servicing.

## Technical Specifications

Measurement Type	Tipping bucket mechanism (SBS314)
Resolution	0.2 mm per tip (custom options available)
Accuracy	±3% up to 120 mm/hr (Class A)
Communications	2G / 4G / NB-IoT / LTE-M
Data Output	Cumulative rainfall and timestamped event log
Sampling Rate	Configurable
Power Supply	Replaceable lithium battery
Battery Life	Up to 7 years (depending on configuration)
Enclosure	UV-stabilised ASA or powder-coated aluminium
Ingress Protection	IP65
Operating Temperature	-20°C to +60°C
Mounting	Flat plate only
Dimensions	450 mm (L) x 300 mm (W) x 480 mm (H); funnel diameter 200 mm
Weight	18.6 kg

