



RG30 Logging Rain Gauge

Compact Robust Remote rainfall Logging

The RG30 is a compact, reliable, full featured automatic rain gauge, designed and built in Australia.

Features:

- Full sized Tipping Bucket Rain Gauge
- Powerful built in Data Logger
- Robust & Reliable
- Stainless steel barrel, chassis & bucket
- Easy to install, easy to use
- Permanent Site or Easily Transportable
- Low power, ideal for remote siting
- Expansion for 4 additional sensors
- Over 36 months of intensive data memory

Applications

- Rainfall distribution and intensity
- Catchment monitoring
- Construction contract management
- Workflow planning
- Safety and automation
- PLC, RTU & SCADA connectivity

The RG30 is a commercial grade logging rain gauge, with Australian Made quality, reliability and support.

The RG30 Combines the RG12H tipping bucket rain gauge, with mounting post, levelling bracket & our DW30 WeatherMate Data Logger.

RG12H Tipping Bucket Rain Gauge (TBRG)

Constructed from stainless steel with a powder coated aluminium base and funnel.

The tipping bucket is manufactured from stainless steel, ensuring that tips are accurate and consistent.



RG31 Shown includes tripod with solar panel for remote siting.

The inlet funnel is fitted with a syphon to control and maintain a constant flow-rate. This ensures reliable rainfall recording even at very high rainfall intensities.

Hall Effect

The RG30 incorporates the advanced and ultra-reliable RG12H rain gauge fitted with an electronic (Hall Effect) detector. The hall effect sensor life is expected to exceed 100 years, and tens of millions of tips.

WeatherMate 3000 Data Logger

On-board memory for 1,000,000 sets of readings with individual date and time stamp.

In atypical high rainfall area, this will provide 36+ months of Daily, Hourly and 10-minute Rainfall summaries, plus independent rainfall intensity records.

The flash memory is retained indefinitely even with no batteries connected. Data is stored in final text form that includes date and time stamps.

Each memory operates like a revolving storage drum. Once full, the oldest data is discarded to make way for new data.

Programming

The data logger is delivered with your specified logging schedule loaded so it operates immediately. You can load alternative schedules or create your own.

Bird Protection

The BS30 is a ring of stainless steel bird deterrent spikes designed to prevent birds landing on the rim and fouling the collection funnel.

Recommended where birds would otherwise interfere with the operation of the unit.

Specifications:

Data Logger Inputs

5 channels, pulse counting. For Envirodata sensors or third party sensors with a custom interface.

Data Output

RS232 Serial ASCII text. MODBUS TCP/IP Option.

Connects via terminal program, EasiAccess software, or WeatherMation software.

Data Logger Dimensions

IP66 Enclosure: 230 (W) x 139 (H) x 95 (D) (mm)

System Indicators

LED indicators provided for operating status

Battery

Capacity for up to 1 week's operation without sunlight on a typical RG30 system

- 12 volt 3.0AH sealed rechargeable gel cell (SLA)

Power Consumption

- 10mA in logging mode
- 35mA while communicating

Rainfall Mechanism:

- Tipping Bucket with Hall Effect detector

Operating Range:

- Up to 450 mm/hr

Accuracy:

- $\pm 2\%$ at low rainfall rates.
- $\pm 5\%$ at rainfall rates above 300 mm/hr.

Resolution:

- 0.2mm per tip.

Rain Gauge Dimensions:

- Funnel Diameter: 203mm
- Height: 315mm
- Base Diameter: 250mm

Mounting Options:

The RG30 includes a mast with levelling bracket to install the top of the gauge at 1000mm above ground.

You can choose an optional 2m Mast for more clearance above ground and the optional LH35 lockable housing adds further physical protection for the data logger.

For fixed remote sites with no power simply add a solar panel to complete the package.

RG31 Package:

The RG31 package as pictured includes an Aluminium tripod instead of the fixed mast & includes a 10W solar panel.

The RG31 package can therefore provide you with a complete, robust & convenient portable rainfall logging system.