



Logging Rain Gauge (RG20)

Features

- 0.2 mm resolution
- Marine grade stainless steel barrel
- Powder-coated aluminium funnel and base
- Solar powered
- Capacity for one extra sensor
- 35,000 readings memory with real-time clock
- Easy cleaning & barrel removal
- Database/Reporting software included

Applications

- Rainfall distribution & intensity
- Catchment monitoring
- Soil conservation
- Hydrology

Description

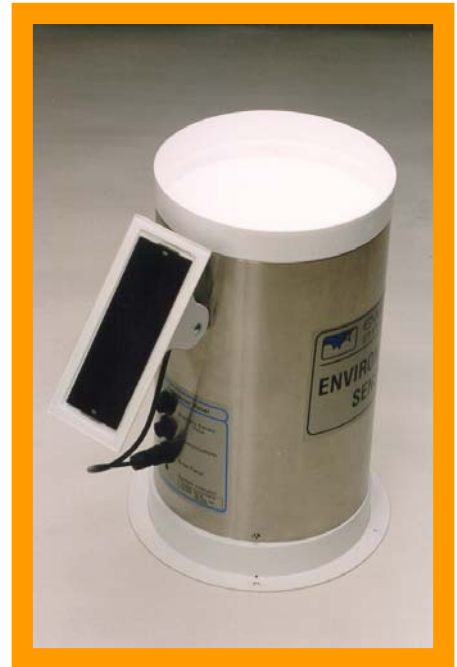
The RG20 is a compact, robust, automatic rain gauge. It consists of an inbuilt tipping bucket rain gauge sensor, Windows software, data logger, rechargeable battery, and solar panel. The rain gauge automatically sends its information to the data logger, which processes and stores the data in its memory. The data is then available for collection by personal computer either onsite or remotely via telemetry.

Factory Calibration

The rain gauge sensor is factory calibrated so that each system is ready for use immediately. It can be used for an extended period without any need for adjustment.

Versatile

There are no electrical connections to be made, no mechanical assembly - just mount the unit on a suitable base and switch it on.



The Single Unit Makes it Simple

This light-weight innovative design, is easy to carry to site, easy to set up, and easy to operate immediately.

Memory

The unit's memory provides up to 35,000 readings, facilitating high-intensity data collection, or long intervals between data collection.

Data is stored in 3 independent secure areas with battery backup.

Usually, daily summaries are stored in Memory Area 1, hourly data in Area 2, and rainfall intensity data in Area 3.

If the system's software should fail, (e.g. as a result of a nearby lightning strike) an automatic circuit ("watch-dog") will restart the logger within a 4 seconds, ensuring that data storage is uninterrupted.

The internal, real-time clock ensures that the correct date and time are always stored explicitly with the data.

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Specifications

Sensor Type	Tipping bucket mechanism Hall Effect Sensor
Measurement Units	mm
Operating Range	Up to 450mm per hour
Resolution	0.2mm
Funnel Diameter	203mm

DATA RECORDER

Memory

Data stored into 3 independent memory areas. 104K battery backed RAM - stores a total of 35,000 readings including date and time stamps.

System Indicator

- 1 second flash - Communicating
- 2 Second flash - Normal
- 4 Second flash - Attention required

Battery

6 volt 3.0AH internal sealed rechargeable gel cell - capacity for 6 weeks operation without sunlight.

Power Consumption

3 mA in operation mode. 50mA while communicating.

Provision to Log an Extra Sensor

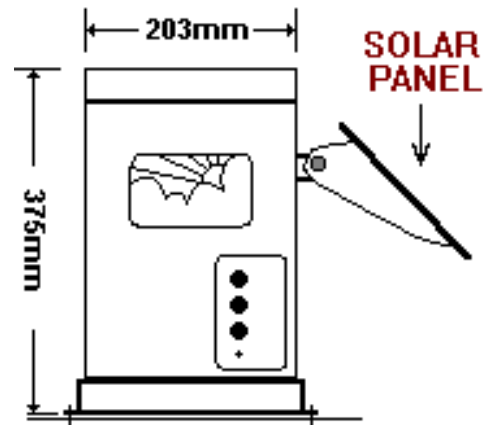
The RG20 can also collect data from one external sensor. This can be any other weather or environmental sensor. Data can be collected into the same memory as the rainfall data, or into a separate memory.

Hall Effect Sensing

The RG20 is supplied with an electronic (Hall Effect) detector. This means reliable performance with no limit to operational life.

Solar Panel

1.0 watt panel - maintains battery with three hours' bright sunshine per day.



Lightning Protection

Software failure as a result of nearby lightning strike initiates an automatic circuit 'watch dog' to restart the logger within a minute, ensuring data storage is uninterrupted.

Programming

Pre-programmed with universal program - stores daily summary (memory 1), hourly sensor data (memory 2) and rainfall intensity (memory 3).

Software

EasiAccess Windows software included in the RG20 package. EasiAccess (EA40) contains weather station management functions, database and full reporting and graphing options. EasiAccess Software operates on any PC with Windows 98 or above.

RS232 Connection

6 pin (serial RS232C standard). DTR, DSR, TX, RX, ground & power. 9600 to 9600 Baud

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