

Monitor Sensors Pluviometer

EP Series



The EP series pluviometer consists of a Monitor Sensor's tipping bucket rain gauge model RG(X) combined with a battery powered Model SL2 data logger with 512 kilobytes of data storage. The electronic pluviometer offers a self-recording, stand-alone measurement system with control outputs for the monitoring of rainfall and rain intensity. An RS232C interface is provided to allow for data readout using any portable computer. Data compression techniques used in the instrument provides a typical storage period of 120,000 readings (24 to 120 metres of rainfall depending on bucket size) while retaining a resolution of 1 seconds. This unit uses the same tipping bucket principle of measurement as the Model RG(X).

The design includes several features to maintain accuracy of measurement. A patented software system detects rainfall intensity and compensates the measurements accordingly minimising errors associated with varying intensity of rainfall. Fine stainless steel mesh prevents debris such as dirt and insects from entering the workings of the rain gauge.

Features

- Stand-alone, Self-recording unit
- Level Bubble
- Corrosion Resistant Materials
- Robust Design
- Simple Recalibration Procedure
- Low Power Consumption

Applications

- Catchment Measurement
- Flood Studies/Alerts
- Rainfall Intensity
- Meteorological Rainfall Monitoring
- Agriculture and Horticulture
- Hydrology
- First flush monitoring
- Irrigation control

Specifications

Range:	0 to 508 mm rainfall per hour
Contact System:	Reed switch
Data Storage:	512K bytes, 1 Mbyte, 2 Mbyte, 4Mbyte (Typically 24m to 120m of rainfall).
Calibration Tip Size:	0.2 mm, 0.5 mm or 1mm
Resolution:	0.2 mm, 0.5 mm or 1 mm and 1 second
Accuracy:	>127mm/hr \pm 2% >254mm/hr \pm 3% >381mm/hr \pm 4%
Temperature Range:	+1° C to +60° C (operating)
Humidity Range:	0-100%
Sensor Type:	Tipping Bucket mechanism
Power Supply:	Six volt rechargeable gelcell battery
Battery Life:	Normally 500 days with standard gelcell battery. Battery voltage monitoring is provided
Current Drain:	300 3a (microamps)
Weight (unpacked):	2.3 kg
Dimensions:	Overall height 325 mm Collector diameter 200 mm
Mounting:	Three pre-drilled mounting brackets are incorporated in the base of the rain gauge. These accommodate 9mm diameter bolts. A level bubble is provided to allow the gauge to be leveled accurately.
Cable Details:	One RS232 communications cable is supplied with the EP2 to allow data download from the SL2 data logger to any computer with a communications programme.
Related Products:	AWS1 Automatic Weather Station AWS2 Farmers Weather Station RG(X) Tipping Bucket Rain Gauge

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