

Rainfall Sensor (Tipping Bucket Type)

Model: SEN-RAIN

Description:

The 206 mm diameter collector meets IMD specifications for statistical accuracy. Every time the bucket tips, a pulse is transmitted. Each tip of the bucket shows 0.20 / 0.5 mm of rainfall.

The tipping bucket rain gauge consists of a funnel that collects and channels the precipitation into a small seesaw-like container. After a pre-set amount of precipitation falls, the lever tips, dumping the collected water and sending an electrical signal.

The advantage of the tipping bucket rain gauge is that the character of the rain (light, medium, or heavy) may be easily obtained. Rainfall character is decided by the total amount of rain that has fallen in a set period (usually 1 hour) and by counting the number of 'clicks' in a 10 minute period the observer can decide the character of the rain. Correction algorithms can be applied to the data as an accepted method of correcting the data for high level rainfall intensity amounts.

This rainfall sensor can be easily use with any pulse counter, Data logger / event logger which can use pulse input.

Specifications:

Sensor: Tipping Bucket Rain gauge.

Dia: 206 mm

Collector area: 330 cm²

Range: 100mm / hour

Resolution: 0.20mm / 0.50 mm

Sensing: Magnet & Reed Switch

Capacity: Unlimited

Accuracy: ± 5% @ 25mm/hr

Output: Switch closure

Debris Filtering Screen: Provided



Ordering Guide:

Model No.	Tip Size	Output	Sensor Material
SEN-RAIN-2	0.20 mm	Pulse	Weather proof Plastic
SEN-RAIN-5	0.50 mm	Pulse	Weather proof Plastic
SEN-RAIN-F-2	0.20 mm	Pulse	Fiber
SEN-RAIN-F-5	0.50 mm	Pulse	Fiber
SEN-RAIN-M-2	0.20 mm	Pulse	Aluminum / Stainless Steel
SEN-RAIN-M-5	0.50 mm	Pulse	Aluminum / Stainless Steel

Applications:

- Meteorological Studies
- Hydrological Studies
- Natural disaster Monitoring
- Hydropower Stations