

Since...  
1992

## Automatic Raingauge (Self Recording Raingauge) (IS : 5235 - 1992)

The self recording rain gauge consists of a rain collector & recording mechanism mounted on base.

The collector has a gunmetal knife edged rim with a funnel to direct the collected rain water towards the float chamber. It has a window of 100mm x 100mm for viewing the recording chart. It has a device to lock it to the base. A strong bracket is provided at the bottom of the base for anchoring it securely to the cement platform.

The Collector & Base are manufactured out of glass fiber reinforced polyester (FRP) with beautiful colour & smooth surface finish. FRP material is highly corrosion resistant, shock & dent proof & good insulator of heat. These properties give long outdoor life & less evaporation loss of collected rain water.

### THE RECORDING MECHANISM CONSISTS OF

- 1) Gunmetal float chamber with integral cast rests for fixing it on the base. Float with a flat guide strip at the bottom & a rod at the top for holding the ink pointer assembly.
- 2) Siphon chamber with two coaxial tubes a conical brass washer, a polished glass disc & a threaded cap. Brass disc with 'V' shaped opening connects the siphon chamber to the float chamber.
- 3) Recording clock drum with dust proof cover paper clip & nut.
- 4) Recording ink pen & Pen holder
- 5) Provided with Quartz type clock drum. (Daily)



### RECORDING CHART :

Specially printed graph chart is provided for correct record of rainfall. The chart is printed on high quality paper.

Two types of charts are available. Daily chart for 10mm & 25mm range. The rain gauge works on natural siphon principle. The rainfall is collected by a gunmetal knife edged rim having controlled diameter. The water enters into the float chamber through the funnel. The float rises with water level. After attaining a calibrated level the siphon action drains the water. Pen is directly attached to the float rod. It also rises with the float & drops to zero after siphoning, The graph traced on the clock drum represents the rainfall.

### SPECIFICATIONS :

- 1) Overall height from base to collector top - 675 mm
- 2) Internal diameter of gunmetal collector ring
  - a) 10 mm range - 203.4 mm
  - b) 25 mm range - 128.6 mm
- 3) Diameter of clock drum - 93.3 mm
- 4) Net weight of complete unit - 10 kg Approx.

**TYPES OF RAIN GAUGES:** Type is based on capacity of measuring the rain per one complete siphon cycle.

- 1) 10mm Rainfall range. This satisfies the requirement of light to medium heavy rainfall areas. This meets the requirement of wide regions in India. As such this type is manufactured as standard.
- 2) 25mm Rainfall range This type is suitable for regions having heavy rainfall & supplied against specific order.

- STANDARD SET**
- 1) Collector & Base with foundation bolt.
  - 2) Quartz clock recording mechanism with daily clock drum
  - 3) 100 Recording charts & 15 ml. Ink bottle.

## **EVERFLOW SCIENTIFIC INSTRUMENTS**

No.231/298, Kilpauk Garden Road, Kilpauk, Chennai - 600 010

e-mail : everflowin@gmail.com, M : 9444259624, Ph:044-26646066