

# Self Recording Raingauge

Manufactured as per IS 5235: 1969



## CONSTRUCTION:ENGINEERED TO PRECISION

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 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, 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.

4) Recording ink pen & Pen holder

## CLOCK MECHANISM WITH DRUM:

Electronic Quartz clock movement with gearing drives the drum. Drum is directly fixed to the centre spindle of electronic clock. Daily-Drum completes one revolution in 25.5 hours. Daily clock is used as standard item.

## RECORDING CHART:

Specially printed graph chart is provided for correct record of rainfall. The chart is printed on high quality paper. 100 charts are supplied with each rain gauge.

Three types of charts are available. Daily chart for 10mm 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 :

Internal diameter of gunmetal collector ring : 203.4 mm      Collector Area : 325 cm<sup>2</sup> (10 mm)  
Diameter of clock drum : 93.3 mm      Rainfall Capacity : Unlimited

**TYPES OF RAIN GAUGES:** Type is based on capacity of measuring the rain per one complete siphon cycle. 10 mm 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.

## RECORDING INK

Special recording ink in 15 cc. Bottle is supplied with rain gauge.

## STANDARD SET

**Collector & Base with foundation bolt.**

Recording mechanism with daily clock drum

100 Recording charts & 15 cc. Ink bottle.



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