

Snow Gauge

This is a Alter style snow gauge as per IS 6806-1973 for use with a precipitation gauge to improve the catch of the snow. Snow is an important component of the hydrological cycle in mountainous and polar areas, and also in mid-latitude countries. The Important parameters for hydrological purposes are snow depth, density and snow water equivalent. This Snow gauge is used to measure Snow Water Equivalent. This System comes with one Snow Gauge, one sample collection bottle and one measuring Jar.

Measurement

Snow gauges measure snowfall by collecting the falling snow into a Funnel / collector. During storms, there are occasions where the wind will cause the falling snow to be blown past the snow gauge funnel/collector causing the measurement to be low. Updrafts will also affect the



snow collection by blowing the snowfall away from the funnel/collector. The design of the Alter style wind screen prevents strong updrafts and induces turbulence around the snow gauge funnel / collector. These actions aid to reduce air flow streams over the snow gauge funnel / collector and result in better collection of the snowfall during windy conditions. Significant increases in the gauge catch are noted whenever the snowfall size is very small.

The Measuring Jar / Glass shall meet the requirement laid down in IS: 4849-1968 for graduation and figure except for the following deviation as under. The measure glass of 10 mm capacity shall contain 500 cm³ or 498.03 g of distilled water corresponding to 10 mm of rainfall. The lower edge of the water meniscus shall be in the horizontal plane containing the graduation marks. Similarly, the measuring glass of 20 mm capacity shall contain 1000 cm³

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Specifications

As per IS 6806-1973

Materials: Zinc plated and galvanized steel

Leaves: 32

Size: 1 meter wide (App.) X 1.4 long

Taper: 4 & Posts: 4

Spacers: Long 28 in number & Short 8 in number

Ring: 39"

Supporting Columns: 2 in number

Collector / funnel: 1 number (500 cm²)

Measuring Jar: 10 mm and 20 mm



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