



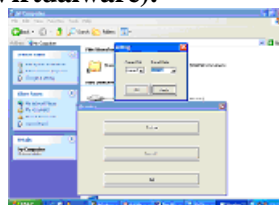
Snow Water Equivalent Recorder



Snow is an important component of the hydrological cycle in mountainous and polar areas, and also in mid-latitude countries. The appearance and disappearance of snow is an important environmental factor too. Snow can be regarded as a convenient form of precipitation because it is a natural reservoir, storing water for extended periods which, if harnessed judiciously, can be used for a variety of essential purposes. Also, snow covered areas are recognized as extremely sensitive barometers of climate variability and change.

Since snow contributes a major amount to the available water, areal Values of snow cover are required for estimation of the water resources. It has been established that a combination of remote sensing and ground measurements should be used for snow cover mapping. The Important parameters for hydrological purposes are snow depth, density and snow water equivalent. The reported snow gauge comprises a weighing platform with strain gauge based load cell, a data logger, supporting electronics and a solar panel (SPV) backed battery pack. With this arrangement, precipitation is calculated from the weight measurements of the accumulated water, i.e. every increase in the weight corresponds to a certain volume of precipitation. The 'Virtual' make Snow Water Equivalent Recorder offers professional snow monitoring and good value for money. The standard instrument consists of a weatherproof enclosure, which contains the data logger and power supply, and comes complete with a solar panel, Mounting stand and SWE sensor. Measurements can automatically stored in systems memory as per user selectable logging period. Comes with integral solar panel, which will easily keep the batteries charged throughout the year. A durable hard enclosure protects the data logger from weathering. User-replaceable SMF batteries. Data file is saved in Microsoft's Excel.

Application Software (Virtualware):



Virtualware is a user-friendly, Menu Driven, Windows based application software allows you to view & save collected data. Data file is saved in Microsoft's Excel format.

Data Shuttle:



The data shuttle is a pocket-sized device that can be used to download & transport the data from data logger to a computer (USB Port), allowing the instrument to stay in place for continuous monitoring/recording. The shuttle connects to a PC and is used with the “Virtualware” to download data.

Features:

LCD (16 X 2) to display the programming status

Membrane Keyboard is provided for on site programming without help of computer.

Memory range more than 4000 data sets (extendable to more at extra cost)

User Programmable Logging Interval from 1 min to 24 Hour

Rechargeable SMF batteries with integral solar panel, which will easily keep the batteries charged throughout the year.

User-friendly Virtualware application software. Data retrieval by pocket size data shuttle to your computer

Suitable for mounting in a variety of locations. Comes with weatherproof enclosure

Operating Temperature: -20 to 70 °C. Operating Humidity: 0 to 95 % non-condensing.

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Hydrology, Meteorology, Forestry, Agro-Meteorology, Scientific & Soil Testing Equipments.

जल, मौसम, कृषि, वन, मृदा विज्ञान एवं अन्य वैज्ञानिक उपकरण