

Digital Rainfall Recorder (Tipping Bucket Type)



“Virtual” make Digital Rainfall Recorder (Tipping Bucket Type) is a fully computerized, digital and self contained power source system, fitted with Data Logger and battery charging solar panel with rechargeable, maintenance free batteries complete with sealed waterproof enclosure for Data Logger, Solar charger and battery. It comes with facility to transport Data from Data Logger to a Computer (As per Customer requirement). 16x2 LCD alphanumeric display and 4x2 membrane keypad is provided at front panel of data logger for programming data logger and monitoring sensor reading at site without the help of computer. A tipping bucket (cup) mechanism that triggers a magnetic reed switch once every unit of rainfall. Every pulses by Tipping bucket is counted by Data Logger . Data file is saved in Microsoft’s Excel.

Features & Specifications:

- Sensor Input Tipping Bucket type Rain Gauge.
- Measured Parameter Date, Time, Rainfall (mm), Battery Voltage.
- Display: 16 Characters X 2 Lines alphanumeric display,
- Keyboard: 4x2 membrane keypad for onsite programming of data logger.
- Real Time Clock accuracy: Internal with ± 2 minutes / year & leap year compensation
- Number of Channels: Eight (extendable up to 16 at extra cost).
- Channels Configuration: Factory configured sensors as per purchase order.
- Memory: More than 16000 data points (extendable at extra cost). store 1 year data at user’s selectable 1 hour interval
- ADC Resolution: 16+ bits
- Unattended recording of Solar Radiation. Virtually maintenance free
- Logging Interval: 1 min to 24 Hr program log Start time within next 24 hours

- Operating Temperature: - 40 to 75 °C. Humidity: 0 to 95 % non-condensing.
- Power Supply: 12V SMF battery, Charging: Solar Panel / 220V AC (Optional).
- Battery Life: More than 1.5 Years (Easily Available in local Market)
- Solar Panel:: 12 Volt DC, Wattage: 10, 20 & 40 Watt (as per system power requirement)
- Along with Small Stainless Steel Tripod
- Data Output Format: MS- Excel
- Data retrieval: Data shuttle (default) to Computer. Other options also available (at extra cost).

Other options: Ethernet, 2G/3G/4G enabled Web based telemetry at Virtual’s Portal “www.ehydromet.in”.

Specifications of Rainfall Sensor

Mechanism: Tipping Bucket Type
 Sensing: Magnet & reed Switch
 Resolution: 0.2mm / 0.5mm
 Accuracy: better than $\pm 5\%$ @ 25mm per hour with 27°C
 Operating Temperature: -4°C to +50°C
 Capacity : Unlimited
 Sensitivity: One Tip (0.2mm / 0.5mm rainfall per pulse)
 Humidity: 0 to 100%

Application Software (Virtualware)

This is a user-friendly, Menu Driven, Windows based software allows you to view & save collected data from data logger to computer/laptop. Data file is saved in Microsoft’s Excel format.

Ordering Guide:

SN	Description	Model No.
1	Digital Rainfall Recorder with Data Shuttle option	DRR-VH-D
2	Digital Rainfall Recorder with Ethernet option	DRR-VH-E
3	Digital Rainfall Recorder with GPRS Telemetry option	DRR-VH-GPRS



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Represented by:

****Drawing / specifications are subjected to change at any time without prior notice as per manufacturing suitability.**