Automatic Weather Station

Virtual Hydromet

"Virtual" make Automatic Weather Station 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 sensors mounted on a tripod stand with sealed waterproof IP65 enclosure for Data Logger, Solar charger and battery.

Features:

- Display: 16 Characters X 2 Lines alphanumeric display,
- Keyboard: 4x2 membrane keypad for onsite programming of data logger.
- Measured Parameter – **Date, Time, Sensors data, & Battery Voltage.**
- Real Time Clock accuracy: Internal with ± 2 minutes / year & leap year
- Number of Channels: 16 can be extendable (at extra cost)
- Channels Configuration: Factory configured sensors as per purchase order.
- Logging Interval: 1 min to 24 Hr program log Start time within next 24 hours
- Data Storage: store 1 year data at user's selectable 1 hour logging interval.
- 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)
- Mast: **Default**-Stainless Steel Tripod (SS). **Optional –** 3M SS /6meter GI Mast (at extra cost)
- Data retrieval: Data shuttle (default) to Computer. Other options also available (at extra cost).

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.
Also available with data file generation for Windrose Software (at extra cost)

Other options: Ethernet, RS-485, RS-232, VSAT, 2G/3G/4G enabled Web based telemetry at Virtual's Portal "www.ehydromet.in".

Sensors selection Guide for AWS (*limited to channels availability*):

- Air Temperature & Relative Humidity
- Wind Speed Sensor (3-Cup type)
- Wind Direction Sensor (Vane Type)
- Wind Speed & Direction (Ultrasonic Type)
- Rainfall Sensor
- Barometric Pressure Sensor
- Solar Radiation Sensors
- Pyranometers
- Pyranometers with Shading Ring Assembly
- Albedometers
- 2 / 4-Component Net Radiation Sensors
- Pyrgeometer
- Pyrheliometer (with /without solar tracker)

- Ultraviolet Sensor
- Infrared Sensor
- Quantum Sensor
- Line Quantum Sensor
- PAR Sensor
- Fog Sensor
- Visibility Sensor
- Passive Cloud Cover
- Snow Water Equivalent
- Ultrasonic Snow Depth
- Soil Moisture Sensor
- Soil Temperature
- Leaf Wetness Sensor

- Water Level (Shaft Encoder Type)
- Water Level (Pressure Type)
- Water Level (Radar Type)
- Water Level (Bubbler Type)
- Water Temperature Sensor
- Road Temperature Sensor
- Infrared Remote Temperature
- PV Module Temperature Sensor
- Evaporation Sensor
- CO_2 Sensor
- NO_2 Sensor
- O_2 Sensor
- PM 2.5 and many more…

Ordering Guide:

SN	Description	(With SS small Tripod Stand) Model No.	(With SS Tripod Stand) Model No.	(With GI Mast) Model No.
1	AWS with Data Shuttle option	AWS-VH-SS-D	AWS-VH-SS2-D	AWS-VH-GM-D
2	AWS with Ethernet option	AWS-VH-SS-E	AWS-VH-SS2-E	AWS-VH-GM-E
3	AWS with 2G/3G/4G WEB-based Telemetry	AWS-VH-SS-GPRS	AWS-VH-SS2-GPRS	AWS-VH-GM-GPRS

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