"Instrumex" 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.





- 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)

Application Software (Instrumex)

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)

Mast: Default-Stainless Steel Tripod (SS). Optional – 3M SS /6meter GI Mast (at extra cost)

Other options: Ethernet, RS-485, RS-232, VSAT, 2G/3G/4G enabled Web based telemetry at Instrumex Portal "www.instrumex.ae"







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

- Air Temperature & Relative Humidity ٠
- Wind Speed Sensor (3-Cup type)
- Wind Direction Sensor (Vane Type)
- Wind Speed & Direction (Ultrasonic Type)
- **Rainfall Sensor**
- **Barometric Pressure Sensor** ٠
- Solar Radiation Sensors
- Pyranometers
- Pyranometers with Shading Ring Assembly
- Albedometers
- 2 / 4-Component Net Radiation Sensors ٠
- Pyrgeometer
- Pyrheliometer (with /without solar tracker)

- Ultraviolet Sensor
- **Infrared Sensor** ٠
- **Quantum Sensor**
- Line Quantum Sensor ٠
- PAR Sensor .
- Fog Sensor
- Visibility Sensor ٠
- Passive Cloud Cover .
- Snow Water Equivalent •
- Ultrasonic Snow Depth ٠
- Soil Moisture Sensor ٠
- Soil Temperature

٠

- Leaf Wetness Sensor
- O₂ Sensor

Sensor

CO₂ Sensor

NO₂ Sensor

Type)

•

٠

•

PM 2.5 and many more...

Water Level (Shaft Encoder

Water Level (Radar Type)

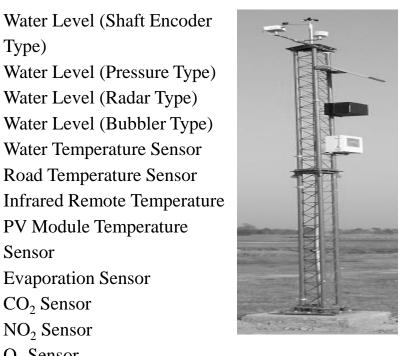
Water Level (Bubbler Type)

Water Temperature Sensor

Road Temperature Sensor

PV Module Temperature

Evaporation Sensor







SNo	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	AWS-VH-SS-GPRS	AWS-VH-SS2-GPRS	AWS-VH-GM-
	Telemetry			GPRS

Optical sensors Sweden AB

DUQE Square Business Centre, Quarter Deck, Queen Elizabeth 2, Mina Rashid, Dubai (United Arab Emirates)

Tel. +971-525829733

E-mail: sales@instrumex.ae

Our Technology Partner

Optical Sensors Sweden AB — 💥

Stora Badhusgatan 18 Hiss 4 Vån. 2, Se - 411 21 Göteborg, SWEDEN



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

