

SERRAX TECHNOLOGIES

AUTOMATIC WEATHER STATION



**A Leading
Manufacturer
and Supplier of
Air Quality
Monitoring, Gas
Monitoring, and
Industrial Process
Measurement
Instruments.**

AUTOMATIC WEATHER STATION



SERRAX TECHNOLOGIES introduces a state-of-the-art indigenous weather monitoring system to measure Wind Speed (Anemometer), Wind Direction, Temperature, Relative Humidity, Rainfall, Soil Moisture, Leaf wetness, Solar Radiation & Barometric Pressure, and more. Our Automatic Weather Station (AWS) is a microcontroller-based instrument designed for field conditions. The system is housed in an all-weather cabinet and is for unattended outdoor operation. Serrax developed an indigenous real-time Portable weather monitoring system in a compact shelter. Meteorology, Particulate, and gas measurements are performed simultaneously. Particulate monitoring is performed via a laser light scattering system and gaseous pollutants are monitored via electrochemical sensors. The system has an in-built data logger and can be configured to upload data at periodic intervals to our optional cloud server via a GSM modem. As such users can access data from anywhere.

supplied with Serrax's Windows-based software, WinStat Pro, which comes with loads of features including plotting of Colored Windrose Diagrams, Diurnal Curves, exporting data to MS Excel, and many more. It comes in three variations-

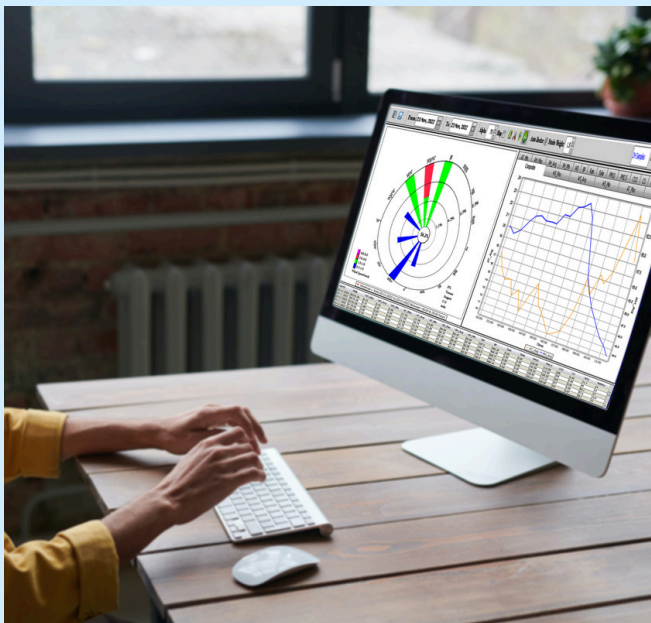
- AWS10B
- AWS10W
- AWS10M

DATA ACCESS AND REPORTING

Serrax Technologies has developed all the hardware and software components required for providing remote access to data being recorded by your Automatic Weather Station. The AWS systems have an inbuilt modem, add a GPRS-enabled pre-paid SIM card and the system is ready for operation. Every user is provided with a unique username and password on Serrax's cloud service. The AWS 10W will periodically upload data to our cloud-based data bank at a pre-set interval selected by the user. You can view recent or historical values



DATA REPORTING SOFTWARE- WINSTAT PRO



Serrax's WinStat Pro software is Microsoft Windows compatible and provides most of the analytical functions you will need for interpreting data from the Weather Station. Utilities provided include: Colored Windrose diagram: Enter the GPS location for your site and the system will enable you to superimpose the Windrose over a Google Map of the area making it easy to pinpoint regions that will fall downwind of a potential pollution source. Diurnal Curves: Most met parameters show a distinct diurnal trend as they are essentially driven by incoming solar energy. With Serrax's WinStat Pro multi-parameter diurnal curves are simple to plot. Moreover all graphs and diagrams can be saved or printed.

SPECIFICATIONS OF AWS10W SENSORS

SENSORS	TECHNOLOGY	RANGE	RESOLUTION	ACCURACY
AMBIENT TEMPERATURE	RTD	0 - 50° C	0.1° C	±1°C
RELATIVE HUMIDITY	POLYMER CAPACITIVE	0 - 99%	0.1 %	±3%
WIND SPEED	3 WIND CUP	0 - 160 Km/h	0.1Km/h	±3%
WIND DIRECTION	WIND WANE	0 - 360 °	0.1°	±2°
RAIN SENSORS	OPTICAL/MAGNETIC	0 - 999 mm	0.2 mm	±1%
BAROMETRIC PRESSURE	PIEZORESISTIVE STRAIN GAUGE	700 - 1200 mbar	1 mbar	±1%
SOLAR RADIATION	SILICON PHOTO DIODE	0 - 1800 W/m ²	0.1 W/m ²	±5%

Our Customers







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