Automatic Weather Stations

- Fully Automated
- Real-Time Monitoring
- Data Logging & Storage
- Remote Data Transmission
- Customizable Sensor Configuration

Applications

- Agriculture & Smart Farming
- Disaster Management Alerts
- Hydrology and Water Resources
- Meteorological Research & Forecasting
- Aviation and Transportation Safety
- Urban & Rural Climate Monitoring
- Industrial & Environmental Monitoring

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BURAQ INTEGRATED SOLUTIONS

When Precision Matters...

AUTOMATIC WEATHER STATIONS

Automatic Weather Stations provide an integrated system of components that are used to measure, monitor, and study the weather and climate. These stations often transmit weather parameters such as air temperature, humidity, barometric pressure, precipitation, wind speed and direction, and solar radiation.

BENEFITS

of Automatic Weather Stations

- Easy Installation & Low Maintenance
- Reliable Operation in Harsh Conditions
- Cost-Effective Monitoring Solution
- Supports Remote Calibration and Diagnostics
- Expandable Sensor Network

Variants of AWS

Agri Weather Stations	Our advanced Agri Weather Stations offer real-time, hyperlocal weather data for farming operations, enabling optimization of irrigation, pest control, and harvest timing, thereby boosting yields and conserving resources.
Road Map Information Systems	Our Road Map Information Systems utilize geospatial data, traffic patterns, and environmental conditions for smart infrastructure planning, safer travel, and efficient real-time decision-making in navigation, logistics, and emergency response.
Airport Weather Observatory	Our Airport Weather Observatory systems provide high-resolution meteorological data for safe and efficient aviation, supporting flight operations in all weather conditions, ensuring precision and reliability.
Eddy Co-Variance & Flux Tower	Eddy Covariance & Flux Tower systems provide high-frequency, science-grade data for climate research, ecosystem monitoring, and carbon budgeting, ensuring reliable monitoring of carbon dioxide, water vapor, and energy exchanges.

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We offer real-time weather monitoring solution for observatories, gathering temperature, wind direction/speed, humidity, barometric pressure and flooding data from weather stations. Data is centralized, organized, and transmitted via Radio, GSM or Satelite links.

Sensors & Instruments

BIS offers a wide range of sensors with specific Class categories and ratings, such as NEMA, IP68, etc. Following are a few sensors and instruments that can be connected to Automatic Weather Stations:

- Temperature Sensor
- Humidity Sensor
- Rain Gauge
- Wind Speed and Direction Sensor
- Solar Radiation Sensor – Pyranometer
- Pressure Sensor
- Soil Moisture and Temperature Sensor
- pH Sensor
- Solar Panel with Batteries
- Observatory Camera
- Ceilometer
- Air Monitoring Sensor
- Data Logger
- Radio and/or GSM/Satellite Communication modules

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ENVIRONMENT MONITORING EXPERTS

- Automatic Weather Stations
- Runway Visual Range (RVR)
- HydroMet Solutions
- Precision Agriculture
- Air Quality Monitoring
- Solar & Wind Resource Assessment
- Automated Weather Observing System
- Weather Surveillance Radars
- Early Warning Systems
- Calibration Services

Visit Us

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