

Weather Stations



Rain, snow, heat, cold, drought, and storms all play a dramatic part in shaping our lives. Every life form reacts to both great and small changes in the weather. Briefly stated, changes in weather are brought about by movement in air masses, which in turn brings about changes in wind speed, wind direction, humidity, and atmospheric pressure.

Weather changes can be from slow and subtle to swift and volatile. Agencies such as the U.S. National Weather Service rely on a wide variety of stations and observation systems to monitor and measure surface-weather conditions. Automatic weather stations, designed by High Sierra Electronics, can be configured with a variety of sensors to meet the real time data processing and reports requirements for federal, state, and local authorities.

A typical weather station is built around a tower on which much of the equipment and sensors are mounted. Sensors may include those for measuring wind, rainfall, temperature, barometric pressure, and humidity. These automated sensors format the data and send it instantaneously by radio transmitter to a base station or personal computer.

In 1989, the NWS launched a 3 billion dollar plan to modernize the gathering of weather data and the distribution of forecasts and warnings. Since then, High Sierra Electronics has played an integral part in designing and manufacturing high-speed communication and data collection systems.

High Sierra Electronics provides:

- ▶ Data Transmitter with Tower
- ▶ Shelters or Environmental Enclosures
- ▶ Automated Sensors including:
 - Wind Speed, Wind Direction, Wind Gust
 - Barometric Pressure
 - Temperature, Relative Humidity
 - Snow & Rainfall, Solar Radiation
 - Soil Moisture & Soil Temperature
- ▶ Software for Automated Data Collection & Modeling
- ▶ Batteries, Solar Panels, Cables, Antennas

