

# Environmental Monitoring



The earth's current climate results from a number of factors, including the atmosphere's general patterns of circulation, thermal structure, distribution of moisture, sequence of storms and fair-weather periods. With an understanding of the weather around us, we can make intelligent decisions regarding minimizing its detrimental impact.

Monitoring the environment is a scientific undertaking. One must use precision equipment, then be systematic and careful in making observations and in recording and collecting data. However, much of what constitutes our weather is invisible, and not capable of being identified without precision equipment. For this reason, individuals like Galileo, Gabriel Fahrenheit, English geologist James Hutton, and Sir Christopher Wren, the noted English architect who introduced the first recording rain gauge, all labored to develop professional weather instruments.

Today, with the advent of the computer and other innovative technologies, companies such as High Sierra Electronics are able to develop sophisticated environmental sampling and test equipment. A wide range of products including wind totalizers to relative humidity and temperature probes, water level recorders, complete weather stations, and pocket-sized data logging devices are available to monitor environmental changes.

Environmental changes can happen slowly and be hard to detect without appropriate instrumentation or can happen suddenly with dramatic results. To accurately record and analyze conditions, High Sierra Electronics provides:

- ▶ Data Logging Systems
- ▶ Telemetry Systems
- ▶ ALERT/IFLOWS Systems
- ▶ Telephone and Paging Systems
- ▶ Shelters or Environmental Enclosures
- ▶ Automated Sensors including:
  - Pressure Transducers
  - UltraSonic Level Sensors
  - Bubbler Gauges
  - Incremental Shaft Encoders
  - Tipping Bucket Rain Gauges
- ▶ Batteries, Solar Panels, Cables, Antennas & Mounting Hardware



Weather Sensors retrofitted to an existing rain station in Puerto Rico.