

Water Quality



Pure water is an odorless, tasteless liquid. It has a slight bluish tint, which darkens with quantity and depth. Because of its capacity to dissolve numerous substances in large amounts, pure water rarely occurs in nature, necessitating water purification and the science of maintaining water quality.

In the United States, the Environmental Protection Agency is responsible for helping state and local government agencies protect their environment and water resources. Efforts in the area of water quality include: establishment of water quality standards, regulation of regional water pollution controls and water supply methods.

For many communities, suspended and dissolved impurities present in their water supply make it unsuitable for their needs and objectives. Organic and inorganic materials must be detected, analyzed and removed. With assistance from High Sierra Electronics, water quality stations can be assembled to monitor characteristics such as pH, dissolved oxygen, and conductivity. In situations where laboratory analysis of samples is necessary, the station can trigger an automatic water sampler based on a variety of parameters.

Equipment solutions can range from hand-held instruments to complete, unattended monitoring systems with real time data telemetry.

High Sierra Electronics provides:

- ▶ Data Transmitter with Tower
- ▶ Shelters or Environmental Enclosures
- ▶ Automated Sensors including:
 - pH Sensor
 - Conductivity Sensor
 - Dissolved Oxygen Sensor
 - Water Sampler
- ▶ Auxiliary Sensors including:
 - Incremental Shaft Encoders
 - UltraSonic Level Sensors,
 - Flow Probes, Batteries,
 - Antennas & Mounting Hardware
- ▶ Water Temperature Sensors
- ▶ Turbidity Sensors
- ▶ Residual Chlorine Sensors
- ▶ Pump Controllers

