

# Water Level & Stream Flow



Floods arise from many situations - some are gradual developments while others are fast breaking events. Most floods occur when excessive rain, falls over large river basins already saturated from previous wet periods. When spring snowmelt is added to the seasonal precipitation, extraordinary runoff is handled by often heavily taxed drainage systems.

Throughout history, North America has witnessed periods of devastating rain that have raised its rivers to the flood stage and beyond. Prior to the existence of automatic stream gauges and hydrologic monitoring stations, ascertaining water level and stream flow data was a time delayed, labor intensive process requiring numerous field personnel. High Sierra Electronics' remote telemetry systems are automated, using pressure transducers, bubbler gauges, incremental shaft encoders, and ultrasonic acoustic level sensors for monitoring and evaluating water level and velocity in real time.

Real time information is necessary for quick response time in managing dams and reservoirs, irrigation systems, rivers, and for monitoring storm water runoff. Unfavorable conditions require immediate action to avoid potential environmental problems.

High Sierra Electronics can provide:

- ▶ ALERT Data Transmitter with Standpipe Tower
- ▶ Stand Alone Data Logging Systems
- ▶ Shelters or Environmental Enclosures
- ▶ Complete Packaged Systems
- ▶ Stage Measuring Sensors including:
  - Pressure Transducers
  - Bubbler Gauges
  - Incremental Shaft Encoders
  - UltraSonic & Acoustic Sensors
  - Flow Probes
  - Tipping Bucket Rain Gauges
- ▶ Dataloggers and/or Module Recorders
- ▶ Batteries, Solar Panels, Cables, Antennas & Mounting Hardware



Stand Alone Stage Recorder  
and Rain Gauge