



Water

Measurement and Control Systems for Water Applications



Campbell Scientific builds systems for unattended, long-term monitoring of hydrologic conditions. They are used in many environments, including wells, dams, streams, weirs, stormwater systems, and water or wastewater treatment plants. These systems are reliable regard-

less of salinity level, pollution level, or other harsh environmental conditions. Campbell systems can communicate via GOES satellite, licensed-frequency radio, IP cell modems, spread-spectrum radio, and other methods.

MAJOR SYSTEMS

	Measurements	Datalogger	Power	Communications	Description
ALERT200 ALERT Flood Warning System 	Pulse Count SDI-12 0 to 5 V 4 to 20 mA	none	12 or 24 Ah rechargeable battery	ALERT2 via licensed frequency radio	Rugged, low cost, turnkey system for basic ALERT-style standpipe installation. This system is field configurable.
ALERT210 ALERT Flood Warning System 	Pulse Count SDI-12 0 to 5 V 4 to 20 mA Digital I/O Low Level AC Bridge	CR800	12 or 24 Ah rechargeable battery	Typically uses licensed radio with ALERT2	Rugged, turn-key system is designed for ALERT-style standpipe installations. This system is field configurable and fully programmable.
OBS-3A Turbidity and Temperature Monitoring System 	Turbidity Temperature Pressure Conductivity	Integrated	Three D-cell batteries	Laptop	Combines our OBS® probe with pressure, temperature, and conductivity sensors in a battery-powered recording instrument.

Custom Systems

Most of the systems we sell are customized. Tell us what you need and we'll help you configure a system that meets your exact needs.

More info: 435.227.9120

campbellsci.com/water



Water Applications

- › Water level and flow
- › Water quality
- › Flood warning (ALERT)
- › Coastal Monitoring
- › Dam Monitoring
- › Aquaculture/Fisheries
- › Irrigation and Canal Control
- › Oceanography
- › Rural Water
- › Stormwater
- › Mining
- › Wastewater

Water Case Studies

Our water systems have helped a variety of organizations reach their goals. The following are just a few of these:

A Campbell automated monitoring and control system maintains optimal dissolved oxygen levels on Lee's multiple-pond catfish farm in Macon, Mississippi. The system monitors dissolved oxygen in each pond, as well as the amperage drawn from the aerator motors.

www.campbellsci.com/macon-mississippi



For Lee's catfish farm in Mississippi, our equipment eliminated the need to manually check dissolved oxygen concentrations several times a night. Alarms are sent via RF to a computer.

A Campbell Scientific CR1000 datalogger and VTScada software (by Trihedral) are the foundation for a SCADA system that allows Trenton and Amalga, Utah to share water during emergency situations. The towns' water managers to view status of their pumps, water levels, and door and hatch alarms.

www.campbellsci.com/utah-scada

Harris County Flood Control District (HCFCD) in Texas customized and installed a Campbell-based ALERT2 upgrade to their flood-warning system (FWS). By upgrading to ALERT2 hardware and updating infrastructure, HCFCD has reduced gage down time and the length of preventative maintenance visits.

www.campbellsci.com/texas-flood-warning

Nearly 60 monitoring stations containing Campbell equipment record water level and water quality at reservoirs, canals, pipelines, and springs in Emery County, Utah. The system documents water quantity and water quality as well as provide irrigation scheduling and flood control.

www.campbellsci.com/emery-county-utah

A Campbell Scientific system monitors and controls water flow to the Pequest Trout Hatchery in New Jersey. Moving clean, cold water through a trout-rearing facility is essential to its success. Campbell gear has helped make control of the water at Pequest Trout Hatchery precise and reliable.

www.campbellsci.com/new-jersey-hatchery

