

A LIFESAVER!

H₂FLO

automated
water systems



CHOOSE A PRE-ENGINEERED
H₂FLO SYSTEM...OR LET
SYNCHRONY DESIGN YOUR
OWN UNIQUE SYSTEM!

 **Synchrony**



H₂FLO SCADA SYSTEMS REMOTELY CONTROL AND MONITOR...

- Water and Wastewater Treatment Plants
- Tank levels
- Wells and Booster Stations
- Lift Stations
- Automated Turbidity Monitoring and Reporting systems
- Wastewater Neutralization

No PROPRIETARY VENDORS OR SPECIAL PARTS

H₂FLO uses standard parts and software. Parts are readily available from local, state, or national distributors. Even the remote telemetry units use industry-standard off-the-shelf programmable logic controllers.

Compare: Proprietary systems use expensive and confusing one-source hardware and software.

SYSTEM OPERATION NOT DEPENDENT ON ANY SINGLE COMPONENT

H₂FLO controllers and remote telemetry units continue to operate as intelligent stand-alone units should there be a loss of communication anywhere in the system!

Compare: When a proprietary system's PC goes down, pump and well control is either lost or frozen in its current state.

H₂FLO...A SUPER

Well-written OPERATOR MANUALS

H₂FLO components and programs are thoroughly documented with instructions clearly written for easy understanding and troubleshooting.

Compare: Proprietary systems typically lack even the most elementary instructions for operators and technicians.

EXPENSIVE SERVICE CALLS...ELIMINATED!

H₂FLO is so completely documented, on-site maintenance personnel can handle practically all adjustments and trouble-shooting. *Compare: Many proprietary systems suffer from poor service because of incomplete documentation and no local technical support.*

Nothing withheld

H₂FLO technical documentation includes in-depth information such as bill-of-materials, technical manuals and programs. *Compare: Proprietary systems typically include mysterious "black boxes" and circuit boards.*

ON-SCREEN DOCUMENTATION

H₂FLO technical documents are instantly available at your fingertips! Everything necessary is available at the touch of a mouse...operator manuals, wiring diagrams, programs etc. *Compare: Proprietary systems do not have on-screen documentation.*

rior SCADA System!

Quick, reliable local support

H₂FLO is designed, built and supported by Synchrony, a well-established company in Virginia. If service or support is needed, technicians are a few hours away.

Compare: Proprietary systems are not locally well supported. Often, when help is needed, an expensive service technician is flown in, typically arriving several days after help is needed.



EASY FUTURE EXPANSION

H₂FLO components are designed with plenty of room for future growth or change in needs.

CONTINUOUS MONITORING

H₂FLO continuously displays and monitors status and diagnostic information in easy-to-understand formats.

DATA AUTOMATICALLY COLLECTED AND REPORTED

H₂FLO automatically collects and reports required State and Local data, making it available in a variety of formats, including Microsoft Excel® and Access®.

REDUNDANT DATA COLLECTION FOR SAFETY

H₂FLO reporting data is collected and stored in both the SCADA database and in individual remote telemetry units!

AUTOMATICALLY NOTIFY KEY PERSONNEL

H₂FLO includes flexible and powerful e-mail, paging and dial-up calling features that automatically notify key personnel of activity or changes, day or night!

USES EXISTING SYSTEM COMPONENTS

H₂FLO easily accommodates existing system valves, flow and turbidity meters. There is no need to make expensive substitutions and upgrades.

OPTIONAL WEB-BASED ACCESS

The system can be programmed so that multiple users can access data and setpoints from offices and homes.



Typical CUSTOMER RESPONSES...

LOWER LABOR COSTS

Current users report significant labor savings due to the system's automated report generation, fault diagnostics and chemical feed controls.

BETTER WATER QUALITY

Current users enjoy tighter controls and better water quality because of intelligent programming provided within each remote telemetry unit.

FAST RETURN ON INVESTMENT

Current users have realized significantly faster payback with *H₂FLO* as compared to proprietary SCADA systems.

DESIGNED AND BUILT BY AN AWARD-WINNING VIRGINIA COMPANY

Synchrony has served government and industry since 1993, providing custom automation systems, automated water systems, production management software, magnetic bearing systems, and technology development. We have worked with a number of consulting engineering firms and municipalities in specifying, designing, integrating, installing and maintaining automated water systems. In this area, we offer:

- Project management services
- Complete control system architecture design and specification generation
- CAD-based layout and design of control enclosures and RTUs
- Building & testing specified electrical hardware in our UL-certified panel shop
- SCADA system software programming from the leading vendors
- Integration of industrially-hardened PLC-based control systems
- Field-startup, calibration and training services

As a testament to our engineering excellence, we have received six *Small Business Innovation Research Awards* from *NASA* and the *Department of Defense*, and were recently selected as one of *Virginia's Fantastic 50 Companies* for our sustained growth. We are a member of the *Control System Integrator's Association*, the *Roanoke Regional Chamber of Commerce*, and the *Roanoke Valley Economic Development Partnership*.



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