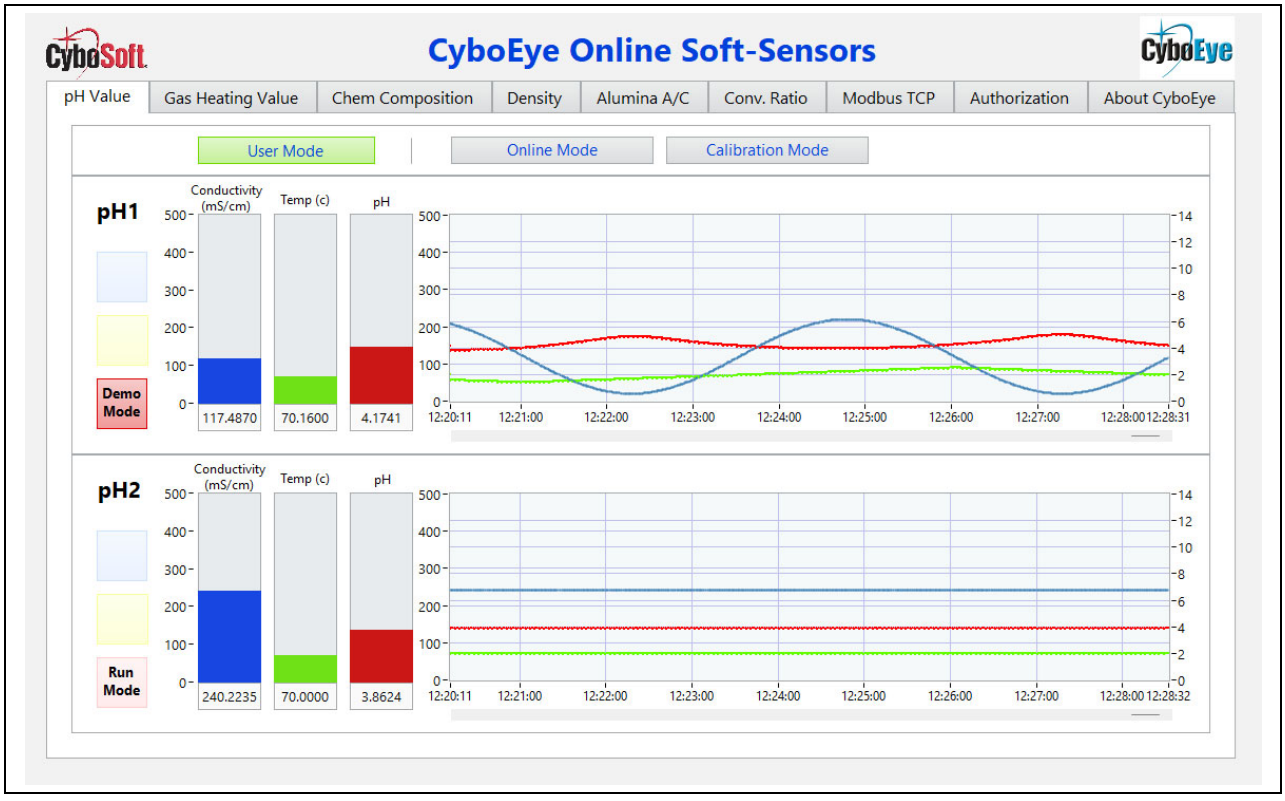
News Release

CyboSoft Releases CyboEye pH Soft-Sensor and MFA pH Control Solution

June 1, 2026 – CyboSoft (Rancho Cordova, California), the developer of Model-Free Adaptive (MFA) control technology and products, announced today the release of its CyboEye pH Soft-Sensor and MFA pH Control Solution for industrial pH measurement and control applications.

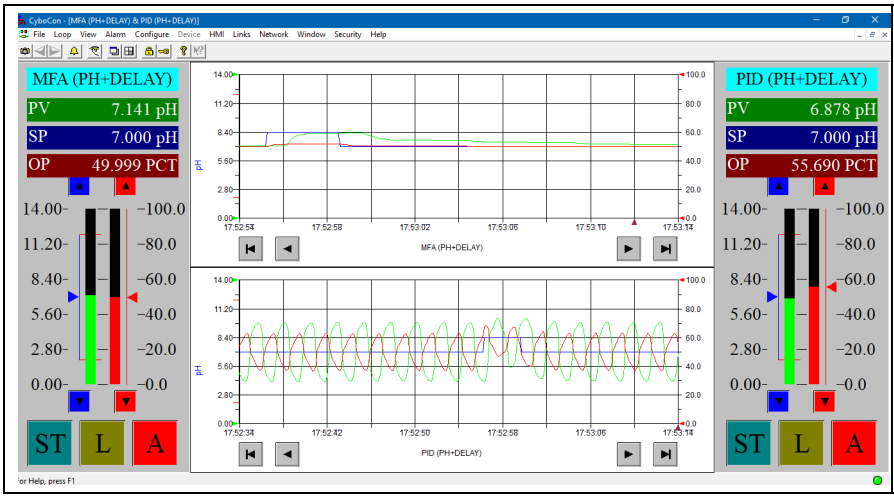
Many industrial pH applications operate under harsh conditions, including corrosive chemicals, high temperatures, and process streams containing solids and fine particulates that can cause sensor fouling, coating, or abrasion. For example, in zinc refineries, the leaching process uses acids to dissolve zinc from its ore. Industrial pH sensors are commonly used to monitor and control such processes, but require frequent cleaning and calibration. Poor pH measurement and control can result in excessive chemical consumption, reduced product yield, and lower plant profitability.

CyboSoft CEO Dr. George Cheng said, "CyboSoft is releasing the CyboEye pH Soft-Sensor and MFA pH Control Solution to help industrial plants improve pH measurement and control in harsh operating environments. Instead of relying solely on physical sensors, CyboEye uses an AI engine to derive pH values from process information that may be easy to gather or readily available in the plant. By using proven MFA pH controllers, the solution can significantly reduce sensor maintenance work, achieve reliable pH control, and increase product yield."



The CyboEye pH Soft-Sensor screen shown above displays two online pH Soft-Sensors, pH1 and pH2. The pH values (Red) are derived by the CyboEye AI engine using online Conductivity (Blue) and Temperature (Green) measurements from the process. By replacing a physical pH Sensor with a Conductivity Sensor and using CyboEye Software, the pH measurement is reliable and requires much less maintenance. For a zinc leaching process involving sulfuric acid as the primary leaching agent, toroidal conductivity sensors with acid resistant coatings are well suited. Since a Conductivity Sensor can continue to operate in harsh environments where a pH sensor may fail, it can provide a more reliable pH measurement solution. Application areas include pulp black liquor, zinc and copper leaching, sulfuric acid processes, caustic soda processes, acid recovery systems, metal pickling baths, fertilizer production, and other highly corrosive industrial applications.

CyboSoft is well known for its family of MFA controllers, including the MFA pH Controller and Anti-Delay MFA pH Controller. The CyboEye pH Soft-Sensor and MFA Control Solution can be implemented using CyboEye Software and CyboCon MFA Control Software running on an industrial PC. The MFA control system can also interface with an existing DCS or PLC through OPC or Modbus TCP, making system integration easy.



Top: An Anti-delay MFA pH controller can effectively control a pH process with large time delays. MFA can deal with significant gain changes and large time delays.

Bottom: A PID pH control loop oscillates badly due to the large time delay and the highly nonlinear behavior of the pH process.

About CyboSoft

CyboSoft is the leader in control technology serving the worldwide process control, building control, and equipment control markets. CyboSoft's patented Model-Free Adaptive (MFA) control technology for automatically controlling physical processes is a major breakthrough. No other comparable technology possesses all the attributes of MFA. CyboSoft received the 2007 Frost & Sullivan "North America Technology Leadership Award" in the field of Industrial Automation. MFA is the only commercially successful smart controller that does not require mathematical models.

For more information or to request a CyboEye Software or MFA Control Demo, please contact: CyboSoft, e-mail: Jenny Jordan, jjordan@cybosoft.com. Website: www.cybosoft.com.