

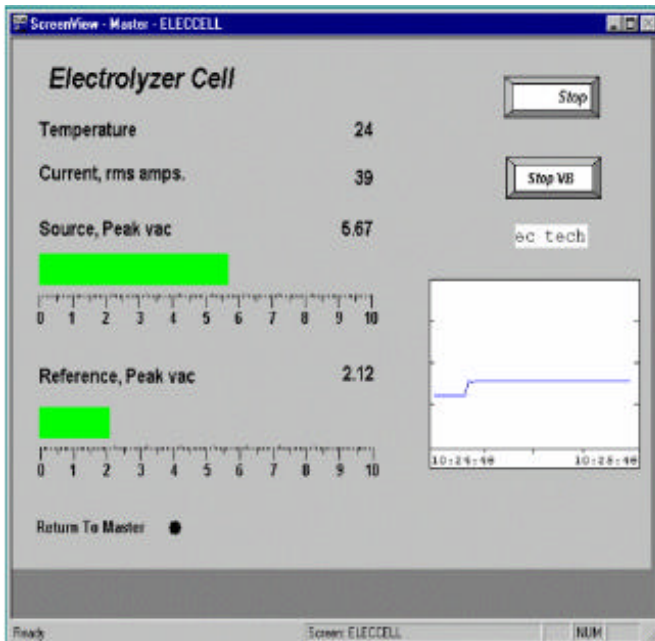

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Think & Do Featured Applications

Chemical Processing Control

EC Technologies, Inc is a premier consulting company working in the chemical industry. They provide a variety of design, configuration and implementation services for PC based control of experimental apparatus (such as furnaces) and chemical processes. One **Think & Do** application implemented by EC Technologies strips noble metals from copper plates. The screen shown below (one of many in this application) shows the Electrolyzer Cell that monitors temperature, current and voltage of the process. Control logic is implemented in **Think & Do** flowcharts using a Automationdirect.com 205 IO Rack for I/O. The process monitoring and control utilizes both analog and discrete inputs and outputs.

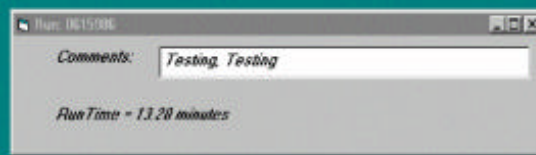


To provide some specialized operator interfaces and data logging, EC Technologies wrote a Visual Basic program to run in conjunction with the **Think & Do** control logic and operator screens. To provide an intuitive and powerful interface between the two programs, EC used an Active X control provided with **Think & Do**. The Active X control provided both tag browsing functions and realtime data exchange between the programs.

Using the Active X control allowed EC to use tagnames directly from the **Think & Do** tag database in their Visual Basic application, avoiding the time-consuming and error-prone task of re-keying them.

One of the key reasons John E. Young, Ph.D. (President of EC Technologies) selected **Think & Do** software is its easy interface to the **Automationdirect.com** 205 IO Rack. **Think & Do** provides instant I/O configuration where the software actually scans the I/O network,

identifies the I/O modules installed and configures the software accordingly. In only a few seconds the user has an animated display of their I/O network, with no programming. John Young trained himself on the **Think & Do** software in a just a few afternoons and his report was that "**Think & Do** software really is easy to learn and fun to use."



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