

Technology

SPOTLIGHT

BULLETIN #1

This SPOTLIGHT Bulletin is also available for download from our website at: www.zeton.com

Experience and Capabilities of Zeton's Control Systems Group

As a specialist designer-builder of pilot plants serving a worldwide customer base, Zeton has in-house, dedicated control systems groups in both our Burlington and Enschede offices under the leadership of Sean Murray in Canada and Ruud Mennink in The Netherlands. Both groups have more than doubled in size in recent years in response to a sustained increase in the number (and scale) of pilot and demonstration plant projects completed by Zeton on behalf of our customers.

New Applications

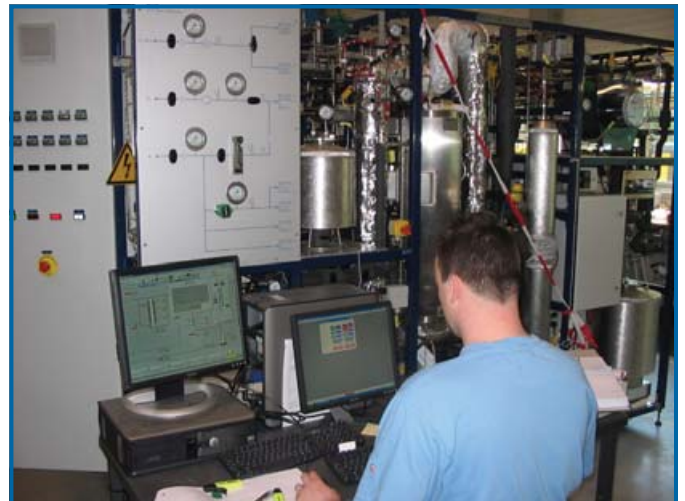
Zeton's engineers are familiar with many of the commercially available control systems, including **Honeywell Experion/HC900, Emerson DeltaV, Allen-Bradley, Eurotherm, Yokogawa Centum/Stardom, Siemens S5/S7/PCS7, ABB, National Instruments Labview, GE Fanuc Proficy HMI/SCADA iFIX and Wonderware InTouch**. In addition to being an approved systems integrator for Emerson DeltaV and for Proficy HMI/SCADA iFIX, Zeton is also a National Instruments LabView Alliance Member, and is in the process of acquiring systems integrator status for the

Honeywell HC900 Hybrid DCS control system. While we have experience in working with many different control systems, we are not tied to any one manufacturer, so we can offer the most suitable one for the application.

A Zeton control system configuration is not just limited to the basic process control loops, but can also be expanded with sophisticated (mass balance) reporting, data storage solutions, sequencing and recipes, as well as remote access capability via secure broadband connection.

Control System Upgrades

While historically our control systems groups have been focused on meeting our customers' control system requirements on new pilot plant projects, we also welcome requests from existing customers for assistance in **upgrading obsolete control systems** in pilot plants built by Zeton (and others) over the past



two decades. Control system upgrades can greatly increase the value of the pilot plant, raising the quality of the data obtained by the customer, and, at the same time, extending its useful life. Zeton's breadth of experience has been gained from completing hundreds of pilot plant projects, ranging in size from less than 100 I/O (bench scale PC-based control systems) to 1750 I/O (networked DCS systems) using technologies from many industry-leading suppliers. As a result, Zeton is in a strong position to recommend an appropriate and cost effective control system solution for any application to meet our customers' needs, preferences and expectations.



In these examples, Zeton's scope was to recommend an appropriate migration path for the control hardware and software, to design and build the electrical interface cabinet(s) housing the I/O hardware, and to configure the control system hardware and the HMI software for the specific operating needs of the respective pilot plants, while retaining (and in some cases, expanding) all of their functionality.

Experience and Capabilities

Zeton's control systems engineers and electrical technicians are responsible for a thorough factory checkout of all new systems. The same personnel are available to assist clients in the field and often provide requested startup and training services during the commissioning phase of each project. Zeton's control groups therefore play an integral role in the success of many projects.

In addition to meeting our customers' needs for new and existing pilot plants designed and built by Zeton, we would also encourage customers to contact us if we can assist with any existing **in-house control system requirements** as a stand-alone project. In such cases, please don't hesitate to contact Zeton at the coordinates listed below in order to discuss your system specification and/or hardware and software configuration needs.

Recent examples of successful control system upgrades in the Burlington office are the DCR FCC Pilot Plant from W.R. Grace and the ACE Technology® Product Line from Kayser Technology, Inc. (KTI). Our customers had requested the (now obsolete) Azonix control hardware be replaced with a state-of-the-art, supported hardware platform. Zeton recommended the Honeywell HC900 Hybrid Controller for both control system upgrades. The HMI was also upgraded to current versions of the Proficy - iFIX software from GE Fanuc.

In Enschede, a large control system upgrade project is currently underway to convert an existing customer's control system infrastructure (multiple platforms) to the latest generation Emerson DeltaV control system architecture. Upon initial investigation, it was found that the research facility had several obsolete PC-based control systems, and no common structure for data collection. Zeton is building the entire control system infrastructure (operation and data collection) for our customer.

To discuss your Control System requirements or items in this SPOTLIGHT Bulletin, please contact:



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