MOD 30 *Retro*PAK:
The Next Generation

Investing in instrumentation that helps get the most out of your process is an important decision. Preserving that investment into the future becomes increasingly difficult with today's rapidly changing technology. Learning new operating techniques and configuration tools, re-wiring existing control panels or purchasing new cabinets can all be significant costs in updating a control system.

MicroMod Automation understands the dilemmas facing manufacturers who want to increase profits and improve productivity without completely abandoning their current control system. MOD 30 *Retro*PAK controllers ensure your original investment in MOD 30 Instruments is protected, and even extended.

MOD 30 Functionality
The MOD 30 *Retro*PAK controllers provide all the process control functions of the MOD 30 Controller XL, Math Unit, and Sequence and Logic unit in one device. Cascade control, adaptive tuning, discrete and continuous logic, totalization, sequence control, signal selection and many more advanced algorithms are all provided in the *Retro*PAK controller.

Flexible, High-Visibility Display
The MOD 30 *Retro*PAK controller's vacuum fluorescent display was designed with MOD 30 users in mind. The green-on-black bargraphs and alphanumeric readouts are larger, easier to read, and visible in virtually any light conditions, from any angle. Plus, the *Retro*PAK controller's display is configurable, so you can create operating displays for sequences, discrete device handling, recipe selection and other process operations as well as the standard PID control loop display and operation.

Easy Operation
The MOD 30 *Retro*PAK controller is even easier to operate. Switching between tag displays is a single-key operation. A unique ramping method allows you to ramp at a fast or slow rate, and reach your target value exactly with no overshoot. Loop tags are clearly indicated, and alarm screens provide the same information as MOD 30: tag, alarm trip point, process value, and a user-configured alarm label.

ICN Compatible
The *Retro*PAK controllers communicate on the peer-to-peer Instrument Communicate Network with your existing MOD 30 instruments, Local Control Panels, and host systems. This means you can fit your upgrade to your budget, without having to replace an entire panel of controllers.
In addition, a second serial port on the MOD 30 *Retro*PAK controllers allows you to select a second ICN, or Modbus RTU communications to field devices, PLCs and other Modbus-capable hardware and software.

RetroPAK Does Windows

The graphic-based configuration software for the MOD 30 RetroPAK controllers operates in a Windows environment. It includes a library of MOD 30-style function blocks* and a suite of graphics tools that allow you to build process symbols and trend windows for testing your configurations.
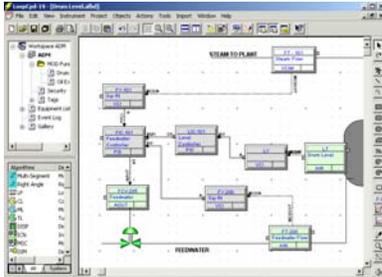

The ICN OPC Server software provides an interface between the MOD 30 Communication Link, External Mini-Link or Internal Mini-Link and any OPC client HMI software on the market. Your MOD 30 system can now be integrated into many popular packages. If you prefer to eliminate the MOD 30 Communications Link, the RetroPAK controllers can be connected directly to an HMI or touchscreen panel using Modbus RS-485, while retaining the ICN for exchanging information between controllers. This separates the information network from the control network, providing an additional level of system availability. An Ethernet converter is available to allow connection to plantwide networks.
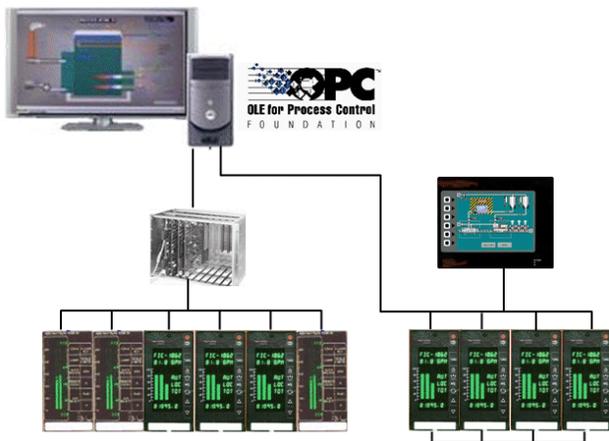
Right Fit for Retrofit

For replacing existing MOD 30 instruments, there's no easier of more economical way to go. The MOD 30 RetroPAK controller fits into the same bezel and panel cutout. A special rear termination lets you use existing MOD 30 instrument cables, and leave the termination panels and field wiring in place. The cables plug right onto the back of the RetroPAK controller, and here are two connectors for replacing a Math Unit or Sequence & Logic Unit (SLU), so you
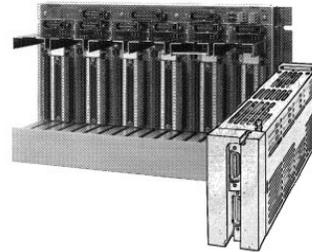
can use two termination panel positions. For replacing an SLU with extended digital I/O, the RetroPAK controller uses MOD Remote I/O units. For SLU installations with extended analog I/O, the MODCELL Multiloop Processor provides additional I/O and also communicates directly on the ICN with the RetroPAK controllers and existing MOD 30 instruments.

Front Panel Tuning

Unlike MOD 30 instruments, the MOD 30 RetroPAK controller needs no external, hand-held device for tuning. In fact, any tuning parameters you desire can be made accessible from the front panel, with password protection. The Visual Application Designer configuration software has the option to build trend windows so you can actually watch the process response as you tune.

Unparalleled Security

With MOD 30 RetroPAK controllers, you don't have to give up all the security features you have with MOD 30. Portable memory modules*, true output display, and cut-wire detection are all built into the RetroPAK. Power recovery settings can be configured for every parameter, so you can start up immediately after a power failure in warm- or cold-start conditions.

For upgrading, retrofit, or expanding an existing MOD 30 Instrument installation, there's no more cost-effective alternative than MOD 30 RetroPAK!