

# PLC+

## Custom Control Panels from Altronic

- **Brings together state-of-the-art Rockwell Automation/Allen Bradley Controls and gas engine-specific PLC+ Modules from Altronic**
- **Scalable systems to cost-effectively meet the range of gas compressor control requirements**
- **Custom-engineered PLC+ Modules from Altronic provide gas compression-specific control functionality and full Ethernet TCP integration with the control system backbone, including engine detonation and vibration monitoring and protection**
- **System design architecture insures maximum user flexibility and minimized programming**
- **Comprehensive customer support provided by Altronic and Rockwell Automation**

Joining forces with global control system provider Rockwell Automation as an alliance partner, Altronic of Girard, Ohio, is proud to offer Allen-Bradley-based control panels and solutions in parallel with traditional Altronic product-based control offerings such as the DD, DE, and Exacta systems.

### How does Altronic set itself apart from other PLC-based control system providers?

The Altronic PLC+ control panels are built around the Allen-Bradley RS Logix line of controls — including both the Compact Logix and Control Logix product families — and the associated human-machine interface devices (HMIs). Utilizing an

innovative system design approach, individual unit configuration requirements and costs are minimized, while providing the customer with long-term system configuration and adjustment access.

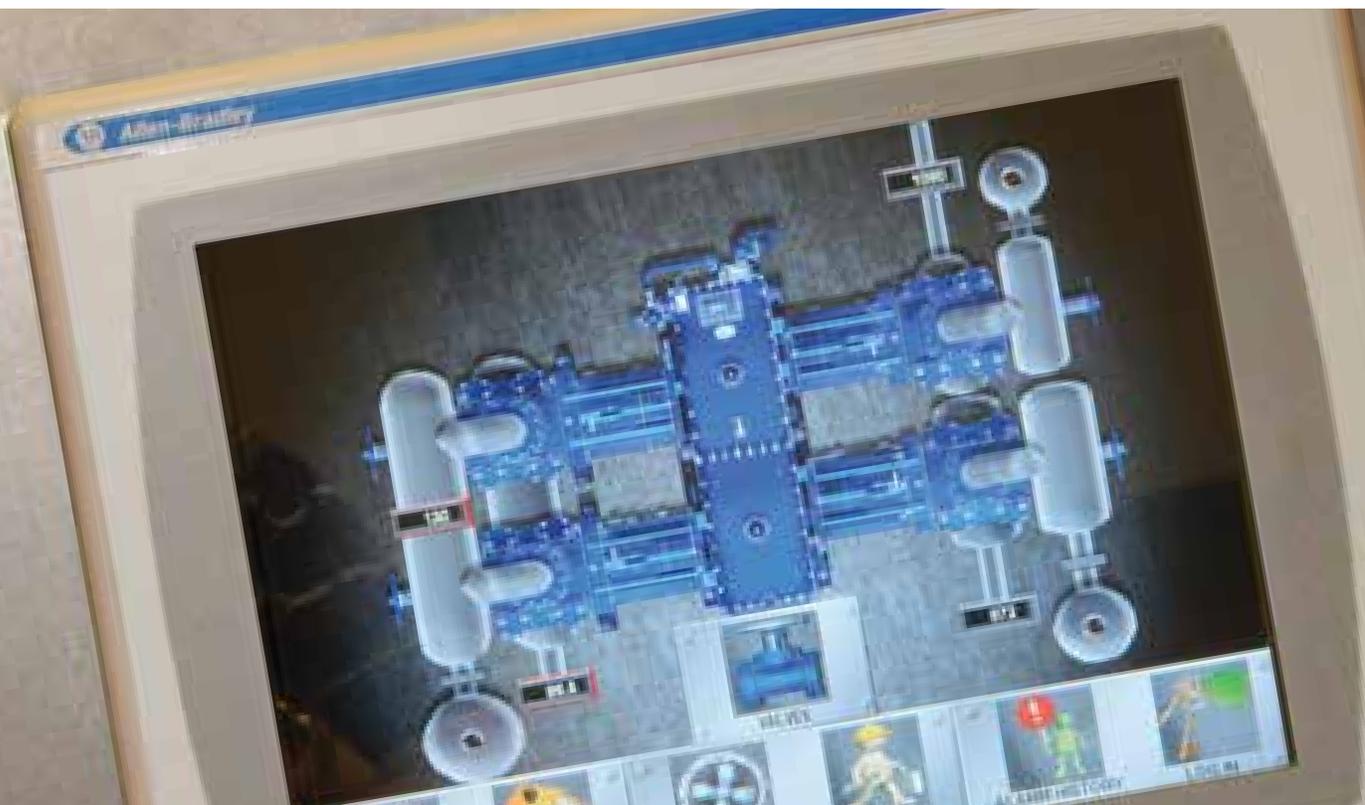
Altronic has taken the unique step of introducing Altronic's custom-built PLC+ Modules into its PLC control panel designs. These innovative and cost-effective modules provide “pre-packaged” gas engine and compressor functionality and I/O for use in a PLC environment. The small unit “footprint” and Modbus Ethernet TCP communications allow for the integration of specially designed and constructed devices for engine detonation, vibration, and other package-related monitoring and control requirements into a larger PLC-based control package.

### The Result

A control system that can be competitively designed and produced that meets the near-term requirements of the customer and, at the same time, can be supported and expanded to suit the evolution of the application on a long-term basis.

The Altronic/Allen Bradley partnership in the gas compression control marketplace brings with it an unparalleled level of customer support and confidence. Leveraging the engineering and field service resources of both organizations, a PLC+ panel operator can be assured of prompt and effective support.

Please see the reverse for an overview of a typical PLC+ control panel offering and the associated functionality.

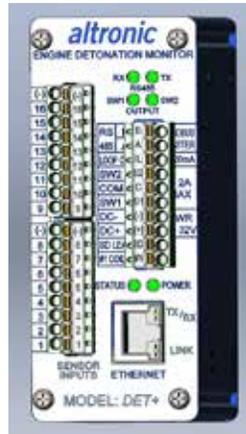


## Altronic PLC+ Design and Operating Philosophy

The PLC+ systems make optimum use of all of the capabilities of the Compact Logix and Control Logix systems from Allen-Bradley — a unique, highly flexible system configuration platform designed and developed at Altronic — and the expanding line of gas engine/compressor-specific PLC+ Modules from Altronic.

A PLC+ panel is designed and manufactured with ease of operation in mind for both the system operator and technician:

- The HMI screen elements are a direct representation of the hardware that is being monitored and controlled.
- A system gauge looks and acts like a gauge, and the engine/compressor package resembles the real-world equipment to which it is connected, complete with end-devices and other I/O placed in their correct locations.
- Altronic's traditional "first-out fault" approach is incorporated into all system designs as a means of minimizing system and application troubleshooting and to get the unit back into service.
- All system inputs can be configured for any alarm or shutdown grouping of the customer's choice
- The communications and the physical connections of all system I/O is continually monitored by the controller so as to insure data quality and integrity
- Multi-line trending of multiple processes of interest (compressor pressures, engine exhaust temperatures, etc.) are available on single monitoring screens based upon customer requirements
- Data associated with the prime mover and the compressor (or other process) can be easily captured for output in multiple communications protocols to a connected supervisory monitoring or SCADA system
- The Altronic PLC+ Modules seamlessly deliver efficient and cost-effective I/O for functions not easily managed by off-the-shelf PLC hardware, including detonation and vibration detection and other critical monitoring and control requirements



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