

# PLC+

## Custom Control Panels from Altronic Controls

- 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 Controls and Rockwell Automation

Joining forces with global control system provider Rockwell Automation as an alliance partner, Altronic Controls of Garland, Texas, 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 Controls set itself apart from other PLC-based control system providers?

The Altronic Controls 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.

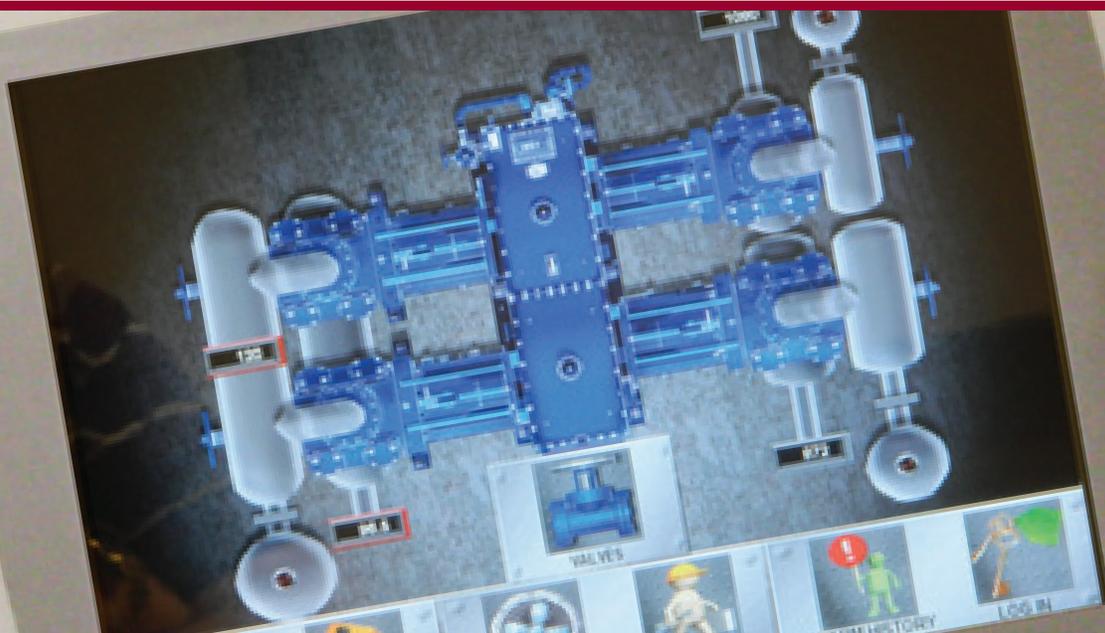
Altronic Controls has taken the unique step of introducing Altronic's custom-built PLC+ Modules into its PLC control panel designs. These innovative and cost-effective modules provide “pre-packaged” gas engine and compressor functionality and I/O for use in a PLC environment. The small unit “footprint” 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 Controls/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 Controls 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 Controls — 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:

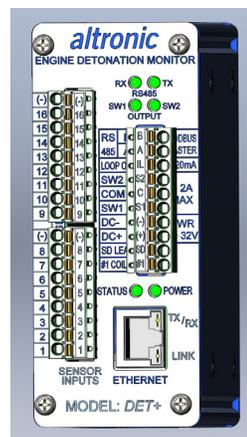
- The HMI screen elements are a direct representation of the hardware that is being monitored and controlled.
- A system gauge looks and acts like a gauge, and the engine/compressor package resembles the real-world equipment to which it is connected, complete with end-devices and other I/O placed in 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 critical detection and other critical monitoring and control requirements



**PLC+**



Automated with  
**Rockwell  
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