

TurboLogix®

TurboLogix® ensures that your centrifugal air compressor performs in the most energy efficient way possible.



What is TurboLogix?

TurboLogix is a user-friendly open architecture PLC based control system for the control, monitoring and protection of all makes and models of centrifugal compressors.

The PLC brings flexibility, availability, and serviceability from several resources, including Air Relief and/or the user's on-site staff. TurboLogix systems offer immediate integration into user's distributed control systems and several energy efficiency modes of operation.

TurboLogix Technology

The TurboLogix is a well-established compressor control system. Utilizing the rock-solid combination of Allen-Bradley's PLC hardware and the field proven TurboLogix control and energy management software. Customers have a robust open architecture system that is unmatched in the industry. Compressor activity can be monitored via a 10.5" LCD based operator interface that offers real time data viewing/trending or tied into a user's system via Ethernet for high-speed data acquisition.

Common Basic System Configurations

- NEMA 12 enclosure (48" X 30" X 10") with sub-panel
- Allen Bradley CompactLogix L23E processor, I/O and power supply
- 10.5" color touchscreen operator interface, Ethernet Interface
- 120vac 15-amp circuit breaker
- AC fusing and terminals
- DC fusing and terminals
- One 120vac 10amp isolation relays for main motor starters control
- 500 VA control power transformer with primary and secondary fuses
- Prelube pump motor starter (IEC Rated)
- Oil heater contactor (IEC rated)

TurboLogix® Upgrades

TurboLogix® BASIC

- Allen-Bradley CompactLogix hardware standard
- Open software architecture
- Modbus & Allen-Bradley communication included
- 10.5" color touch-screen operator interface standard
- Optional 15" operator interfaces available
- Extensive data trending/event logs plus backup
- Energy saving compensated turn-down
- Fully field-configurable
- Simplified installation and startup
- DCS-friendly
- Enhanced reliability
- TurboGuardian Cloud compatible

TurboLogix® ENGINEERED

- **Includes all of the features of TurboLogix® BASIC**
- Customized design panel to fit your needs and all environments
- Allen-Bradley ControlLogix upgrade hardware available
- Replace or integrate with current or obsolete system

TurboLogix® RETROFITS

- **Includes all of the features of TurboLogix® BASIC and ENGINEERED**
- Designed for quick, easy drop-in retrofit upgrades
- Retrofit solutions available for any OEM controller
- In-house manufacturing to ensure quick delivery
- Modbus RTU, TCP/IP and Allen-Bradley Ethernet IP communication interfaces standard

LOADSHARING POWER SAVINGS

- Energy saving "throttle alignment" to provide utmost "inlet guide" savings from all units
- "Wakeless" system testing to provide non-disruptive removal of compressors from a system
- "Peer-to-Peer" design – no external black box or special hardware required
- Ethernet-based communication network
- Automated management system (start/stop, load/unload) of compressors
- Compatible with electric and turbine driven centrifugal compressors
- Fastest installation and setup anywhere in the world

ENHANCED PERFORMANCE MONITORING PACKAGE

- Hardware/software enhancement to pinpoint issues that cause frequent downtime
- Features include performance measurements for electricity usage/costs, inlet and bypass valves performance, compressor performance loss due to dirty inlet filters, oil pressure loss due to dirty oil filters and maintenance alerts
- Highly desirable upgrade for preventative maintenance, enhanced troubleshooting, field performance analysis and cloud-based analytics
- Helps minimize field service calls and prevents downtime – saving customers money