

AIR LOGIX®

Proven, PLC Controller for Centrifugal Compressors

Why you should choose AirLogix

AirLogix is a widely proven, robust control solution for centrifugal compressors built on Allen-Bradley CompactLogix and ControlLogix PLCs using PanelViewPlus HMIs.

This system is completely supportable with your own resources. AirLogix uses familiar PLC technology and there are no Case Controls proprietary components.

The control scheme completely automates the compressor, continuously adjusting to real-world conditions. Well conceived screens provide the operator with detailed machine performance information. More than sixty additional secured screens give you all the tools you need to add, name, scale and configure additional I/O points, tune PID loops, take manual control of the valves, and more.

You can even configure custom screens to display the information of greatest interest to you.



AirLogix® Features & Benefits

- **Dynamic Throttle Limit (DTL™) Algorithm** utilizes air density compensation for better turn-down—which results in energy savings and improving surge protection.
- **Elaborate HMI Functionality** allows complete configuration, tuning, troubleshooting, and operation of the compressor.
- **Familiar Allen-Bradley PLC and HMI platforms** can be easily supported. No Case Controls proprietary parts are used.
- **24/7/365 Support**, by phone or remote connection is prompt and effective.
- **Documentation** thoroughly addresses set-up, tuning, troubleshooting and operations.
- **Program back-up copies** are provided on flash cards and shipped installed in the PLC and HMI for insurance against hardware failure.
- **Ethernet/IP Communication** is native and other protocols are optional for connection to any third-party system.
- **Plug and Play Retrokit** for OEM controllers are available for fast installation in your existing enclosure.
- **AirLogix is compatible** with 3PX-Backbone™, permitting electronic integration with numerous third-party controllers.



A Revolution in Compressor Automation

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To learn more about AirLogix,
please call Case Controls at (812) 422-2422.

AIR LOGIX[®]

Allen-Bradley PLC-based Local Controller

HARDWARE SPECIFICATIONS

Enclosure

RatingType 4/12
Dimensions36"h x 24"w x 12"d
ColorPebble Gray
Weight166 lbs.

PLC Components

ProcessorA-B CompactLogix L30ER
Analog InputsSixteen
(4-20mA, 1-5V)
Analog OutputsTwo
(4-20mA)
Digital InputsSixteen
(24VDC)
Digital OutputsSixteen
(12-250 VAC/VDC)

Plug and Play Retrokits

AirLogix can be configured for plug and play installation that can be completed in approximately four hours for compressors with the following OEM control systems:

- Ingersoll-Rand MP3, CMC, Xe
- Joy, Cooper, Cameron Quad III, Quad 2K

Retrokits include additional instruments and transmitters for complete installation. In some instances, the PLC requires a satellite enclosure due to space limitations in the existing enclosure.

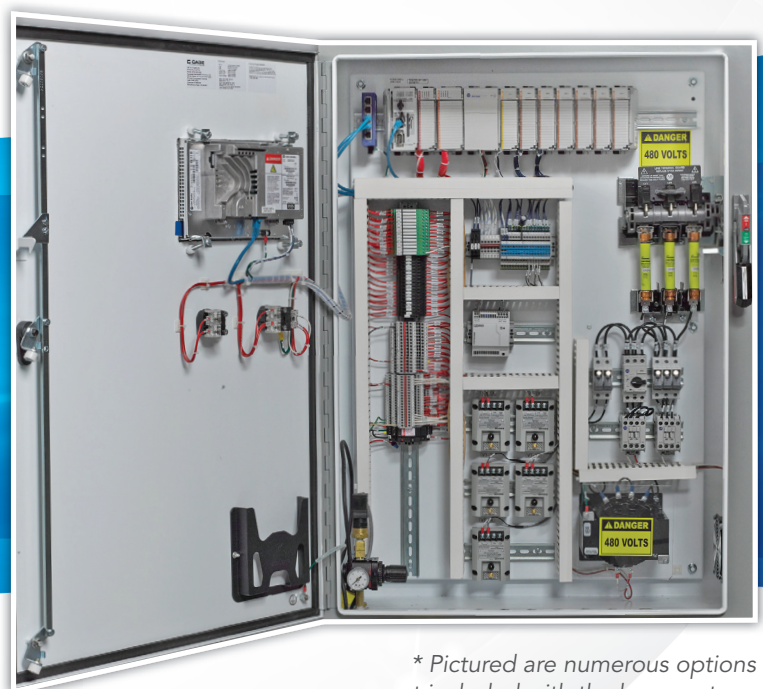
Front Panel Devices

HMIPanelViewPlus 700 Color
Emergency StopPush Button
Control PowerSelector Switch

Communications

Dual Port Ethernet IPUsed for connection to HMI
Ethernet SwitchConnection to others
Cellular ModemUsed for remote support

Power Requirements120VAC, 10 amps



** Pictured are numerous options not included with the base system.*

OPTIONS

Enclosure/System

Type 4X SS Enclosure Rating
Purgeable Instrument Access
Door for HMI
Vortec Panel Cooler
Panel Air Conditioning
Panel Heater
Larger PanelView

Communications

Modbus TCP
Modbus RTU
BACnet
HART
PROFIBUS

480V Power Package

Auxiliary Oil / Pre-Lube Starter
Oil Heater Contactor
Control Circuit Transformer
Lockable Disconnect

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