

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 and 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 including air density, demand changes, and actual pressure readings. A small group of well-conceived operator screens provide complete control and thorough machine performance information. More than sixty additional secured screens give you all the tools 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 and results in energy savings and 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 DCS or SCADA systems.
- **Plug and Play Kits** 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

Phone 812-422-2422 **Fax** 812-425-3138

Mailing Address P.O. Box 6884 • Evansville IN 47719-0884

Street Address 1401 W. Franklin St. • Evansville IN 47710

Email solutions@casecontrols.com

www.casecontrols.com

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)

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

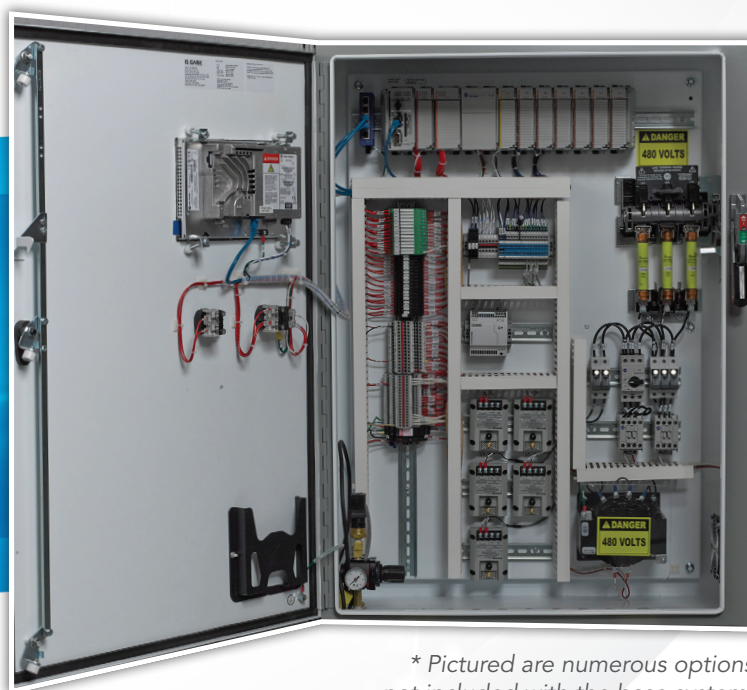
Power Requirements120VAC, 10 amps

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.



** 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 Panel View

Communications

Modbus TCP
Modbus RTU
BACnet
HART
PROFIBUS

480V Power Package

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

CASE
CONTROLS

A Revolution in Compressor Automation

Phone 812-422-2422 Fax 812-425-3138

Mailing Address P.O. Box 6884 • Evansville IN 47719-0884
Street Address 1401 W. Franklin St. • Evansville IN 47710

Email solutions@casecontrols.com
www.casecontrols.com