

# 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.

# CASE iZ

GUARANTEED COMPRESSED AIR SOLUTIONS

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

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## Allen-Bradley PLC-based Local Controller

### HARDWARE SPECIFICATIONS

#### Enclosure

Rating .....Type 4/12  
Dimensions.....36" h x 24" w x 12" d  
Color.....Pebble Gray  
Weight.....166 lbs.

#### PLC Components

Processor.....A-B CompactLogix L30ER  
Analog Inputs .....Sixteen  
(4-20mA, 1-5V)  
Analog Outputs .....Two  
(4-20mA)  
Digital Inputs .....Sixteen  
(24VDC)  
Digital Outputs.....Sixteen  
(12-250 VAC/VDC)

#### Front Panel Devices

HMI .....10" PanelView Plus 7 (Touch)  
Emergency Stop .....Push Button  
Control Power.....Selector Switch

#### Communications

Dual Port Ethernet IP .....Used for connection to HMI  
Ethernet Switch.....Connection to others  
Cellular Modem .....Used for remote support

**Power Requirements** ....120VAC, 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 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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