

[Click Here To Start Demo](#)

Version 5.0 Copyright © 2005 by Case Engineering Inc

This is intended as a working active demonstration only. Every attempt has been made to replicate the AirLogix® control system. However, limitations in the software used to create the demo prevent an exact replica. Minor differences may exist between the AirLogix® control system and this demonstration.

Case has mature compressed air solutions built on other platforms and more such installations than everyone else combined.

For more information, a personal presentation or to visit us for a tour of our facility contact:



Case Engineering Inc (CaseControls)
P.O. Box 6884 • 1401 West Franklin Street
Evansville Indiana • USA • 47719-0884
Tel 812.422.2422 Fax 812.425.3138

Main

User License
Agreement

PSN
Entry

PanelView
Configuration

Navigate

PanelView Plus



← At any point during the Demo click the Case Controls logo to return to the Main Screen.

The AirLogix® Main Operator Screen has a wealth of information about your compressor. Click on the input text below to see how to customize your screen to display what is most important.



PanelView Plus

The AirLogix® Main Operator Screen allows custom configuration of the data that is most important to the user. Choose the data to be displayed and press Select.

Unit 1
AIR LOGIX®
1/31/2020 12:56:25 PM

0.0	Vibration Stage 1 (mils)
0.0	Vibration Stage 2 (mils)
0.0	Vibration Stage 3 (mils)
28.5	Oil Pressure (psig)
109.9	Oil Temperature (F)
78.4	Discharge Air Temperature Stage 1 (F)
77.9	Discharge Air Temperature Stage 2 (F)
79.2	Discharge Air Temperature Stage 3 (F)

Inlet % Open

0.0



DTL

106.9



Act

0.0

Start
Stopped
Ready To Start
to Load
Unloaded

AirMaster
Event History
Trend Select
User Defined Status
Navigate

System Pressure

Machine Pressure

Oil Temperature

Discharge Air Temperature

Oil Pressure

Oil Differential Pressure

Motor Current

Bearing Oil Pressure

Pre-filter Oil Pressure

▶ **Vibration Stage 1**

Vibration Stage 2

Vibration Stage 3

Vibration Stage 4

Inlet Air Temperature

Discharge Air Temperature Stage 1

Discharge Air Temperature Stage 2

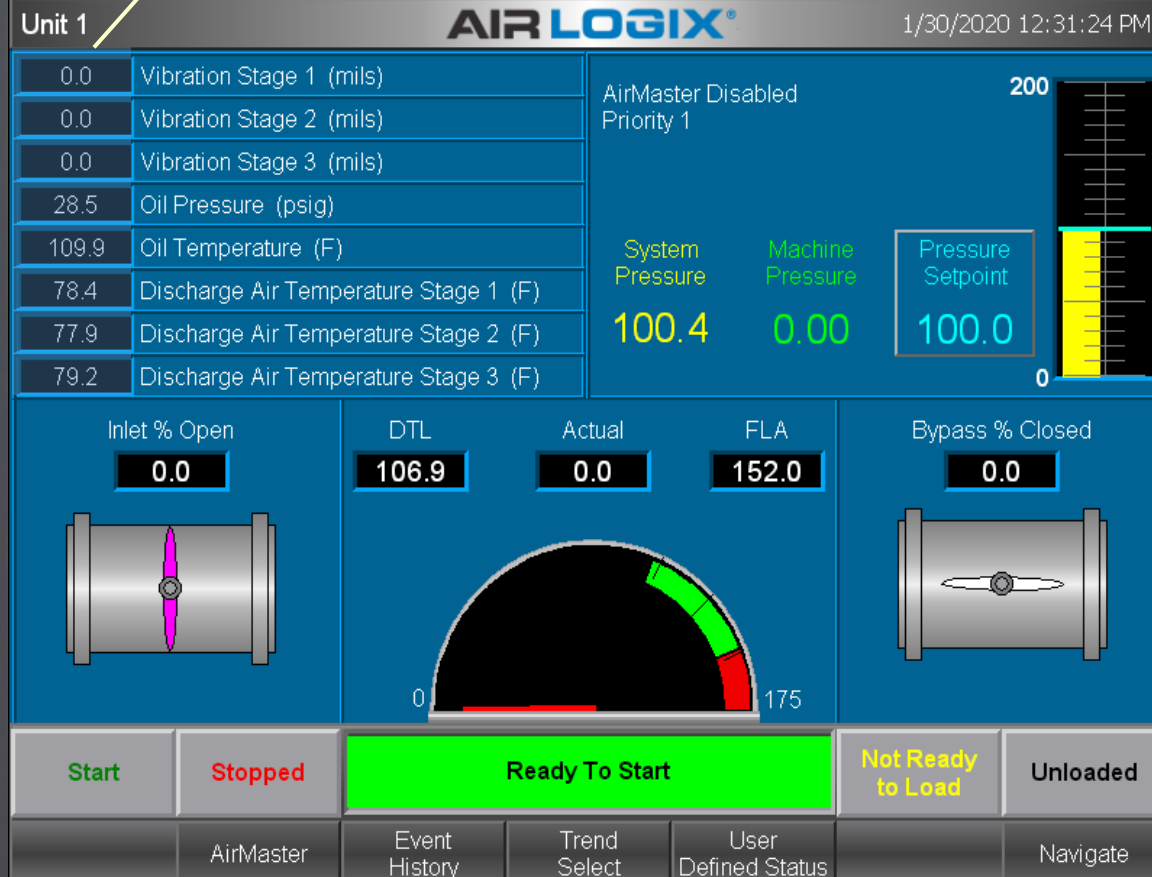
Discharge Air Temperature Stage 3

Discharge Air Pressure Stage 1

▲
Select
▼

Close

The AirLogix® Main Operator Screen conveniently displays configuration data. Click on the input numeric values below to see analog input configuration information.

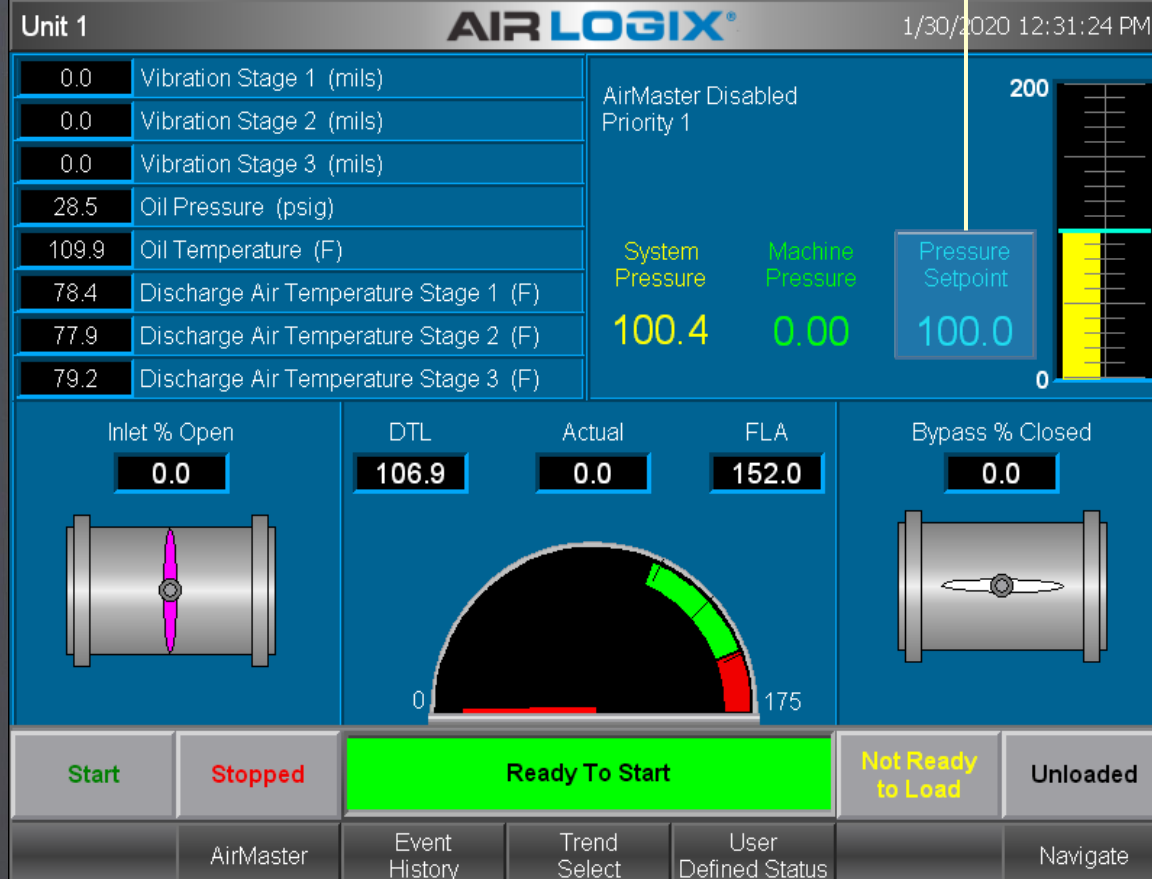


Input configuration data is easily accessible from the AirLogix® Main Operator Screen. Start permissive, warning and trip values can be viewed. Press **[Close]** to continue.



PanelView Plus

The AirLogix® control system maintains a constant system pressure. The desired pressure setpoint can be changed from the AirLogix® Main Operator Screen. Press on the **[Pressure Setpoint]** below to change the setpoint.



A numeric keypad will appear to facilitate the setpoint entry. Once the desired setpoint is entered, press the Enter key ↵

Unit 1
AIR LOGIX®
1/31/2020 4:25:43 PM

0.0	Vibration Stage 1 (mils)				
0.0	Vibration Stage 2 (mils)				
0.0	Vibration Stage 3 (mils)				
28.5	Oil Pressure (psig)				
109.9	Oil Temperature (F)				
78.4	Discharge Air Temperature				
77.9	Discharge Air Temperature				
79.2	Discharge Air Temperature				

Inlet % Open

0.0



Bypass % Closed

0.0



Start

Stopped

Not Ready to Load

Unloaded

AirMaster
Event History
Trend Select
User Defined Status
Navigate

Oil temperature is too low to start the compressor. [Click \[HERE\]](#) to heat the oil and prepare to start the compressor.

Unit 1

AIR LOGIX®

1/30/2020 12:29:56 PM

0.0	Vibration Stage 1 (mils)	AirMaster Disabled Priority 1	200
0.0	Vibration Stage 2 (mils)		
0.0	Vibration Stage 3 (mils)		
28.5	Oil Pressure (psig)		
87.4	Oil Temperature (F)	System Pressure	100.0
78.4	Discharge Air Temperature Stage 1 (F)	Machine Pressure	
77.9	Discharge Air Temperature Stage 2 (F)		
79.2	Discharge Air Temperature Stage 3 (F)		



Not Ready To Start	Stopped	Oil Temperature - 87.4			Not Ready to Load	Unloaded
	AirMaster	Event History	Trend Select	User Defined Status		Navigate


PanelView Plus

Now that the Start Permissive Display reads "Ready To Start". Press the **[Start Button]** to start the compressor.

Unit 1

AIR LOGIX®

1/30/2020 12:31:24 PM

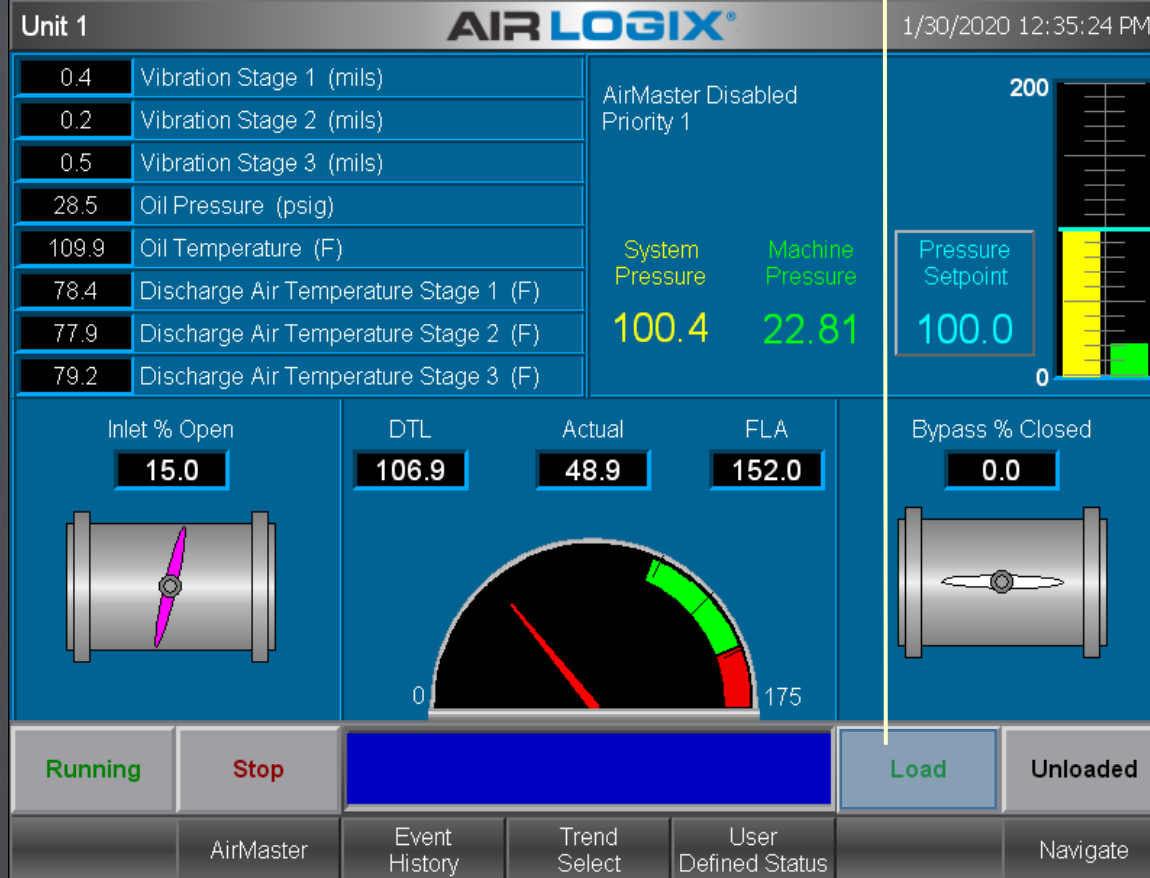
0.0	Vibration Stage 1 (mils)	AirMaster Disabled Priority 1	200	
0.0	Vibration Stage 2 (mils)			
0.0	Vibration Stage 3 (mils)			
28.5	Oil Pressure (psig)			
109.9	Oil Temperature (F)	System Pressure	Machine Pressure	Pressure Setpoint
78.4	Discharge Air Temperature Stage 1 (F)	100.4	0.00	100.0
77.9	Discharge Air Temperature Stage 2 (F)			
79.2	Discharge Air Temperature Stage 3 (F)			



Start	Stopped	Ready To Start	Not Ready to Load	Unloaded
AirMaster	Event History	Trend Select	User Defined Status	Navigate

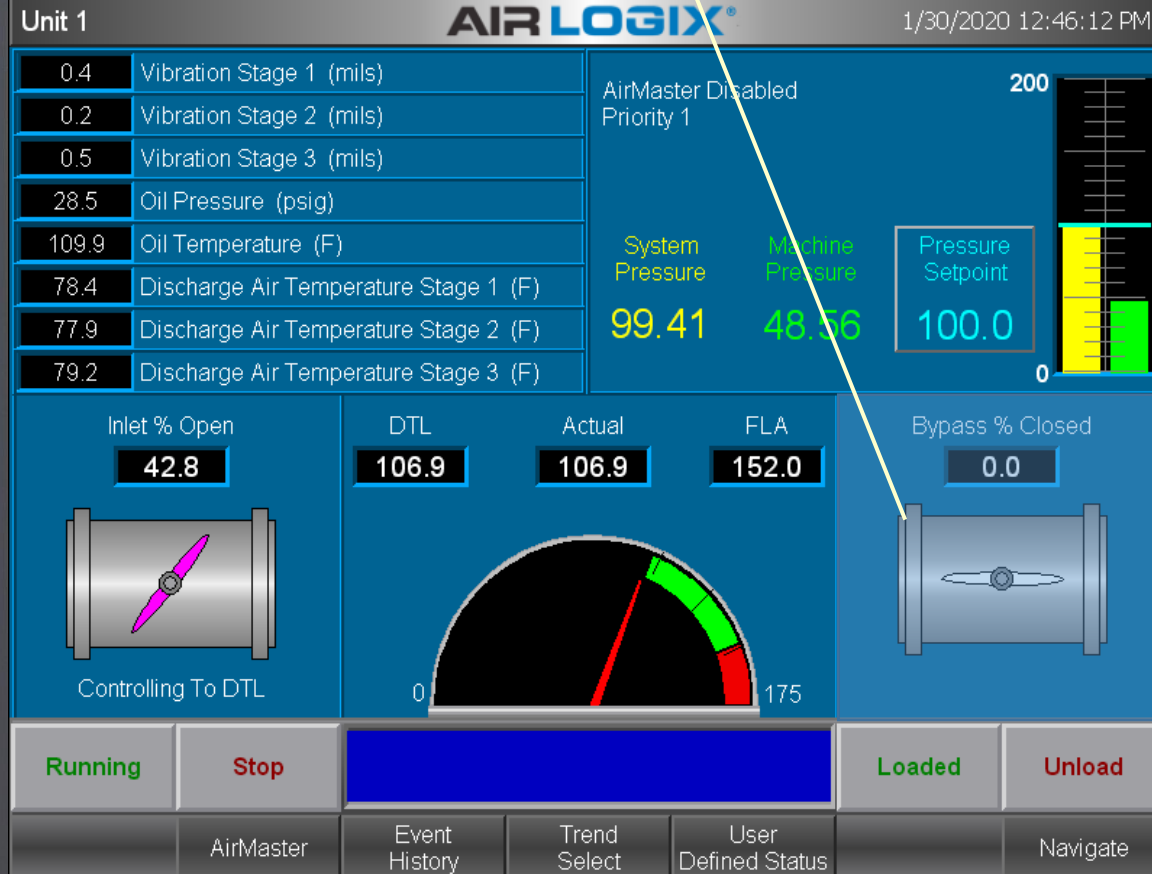
PanelView Plus

First the inlet valve opens to start position. Real time data is displayed during the start-up. The red needle illustrates Motor Current. Press the [Load] button to load the compressor.

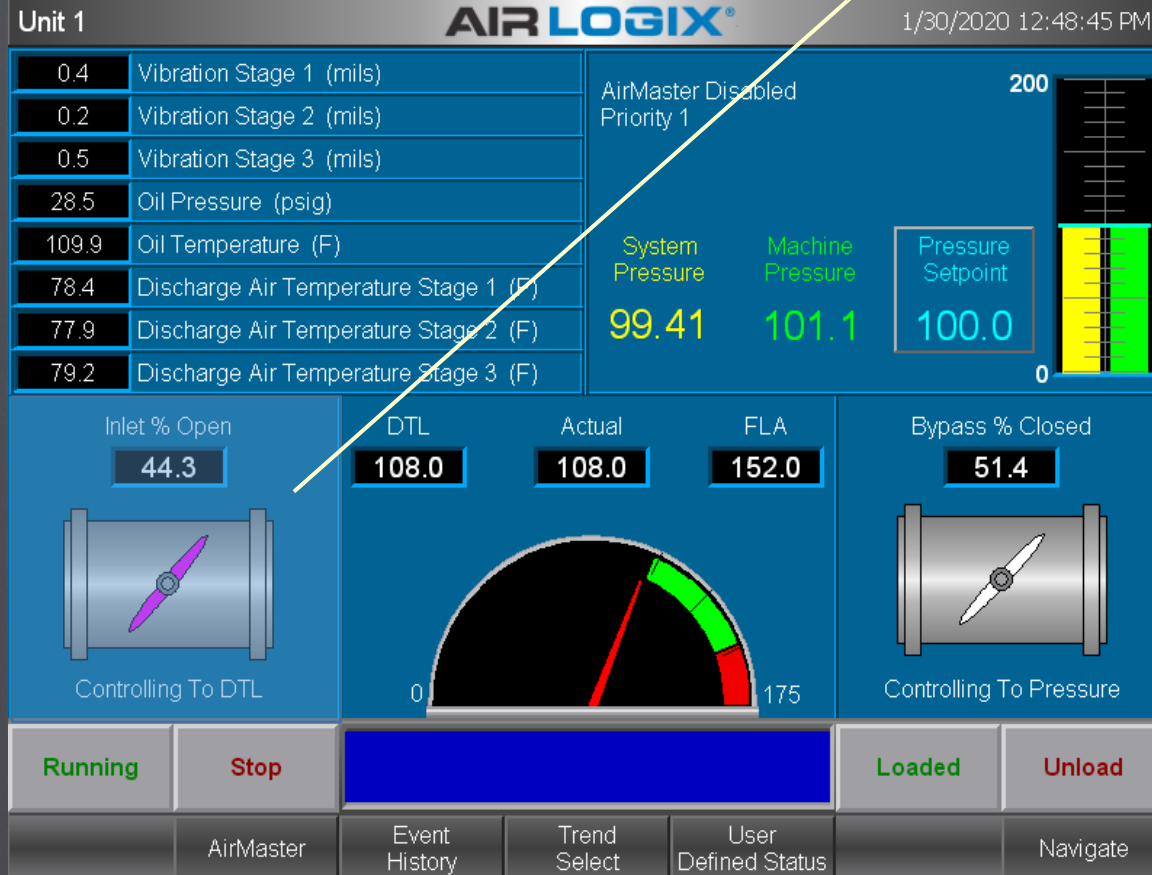


PanelView Plus

The inlet valve opens until Motor Current has reached DTL (Dynamic Throttle Limit).
 "Controlling to DTL" is displayed below the valve to indicate it is throttling to maintain the necessary amperage to prevent surge. **Press the Bypass Valve** to start building pressure.

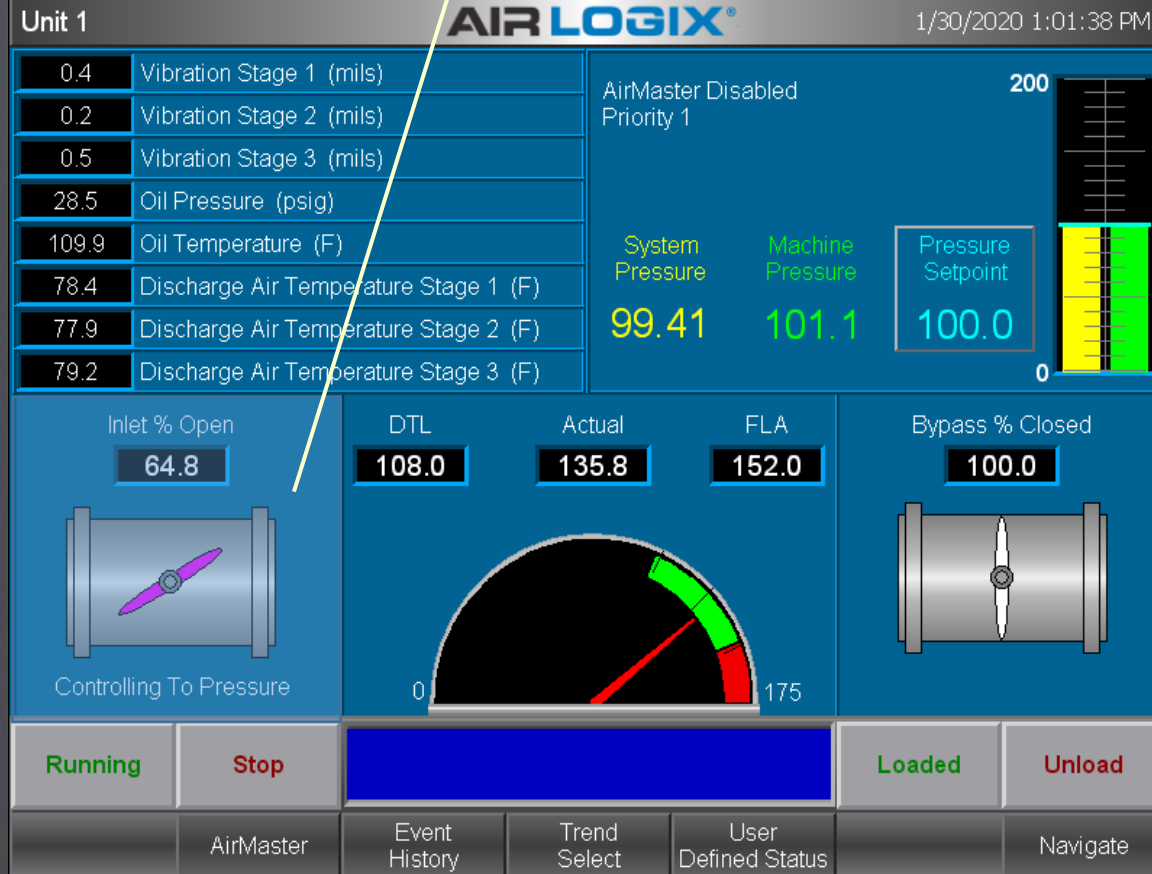


The bypass valve closes to build pressure. "Controlling to Pressure" is displayed below the valve to indicate it is throttling to maintain the desired pressure. **Press the Inlet Valve** to continue.

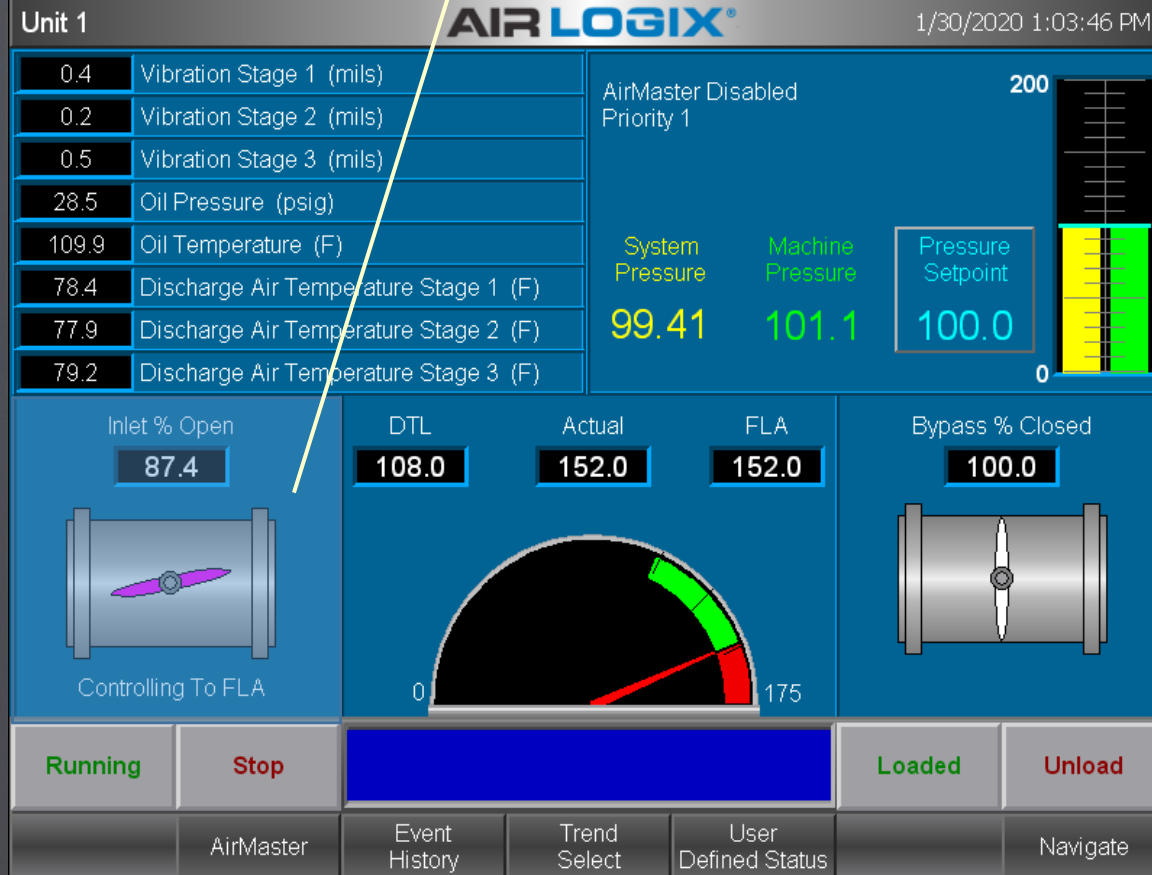


PanelView Plus

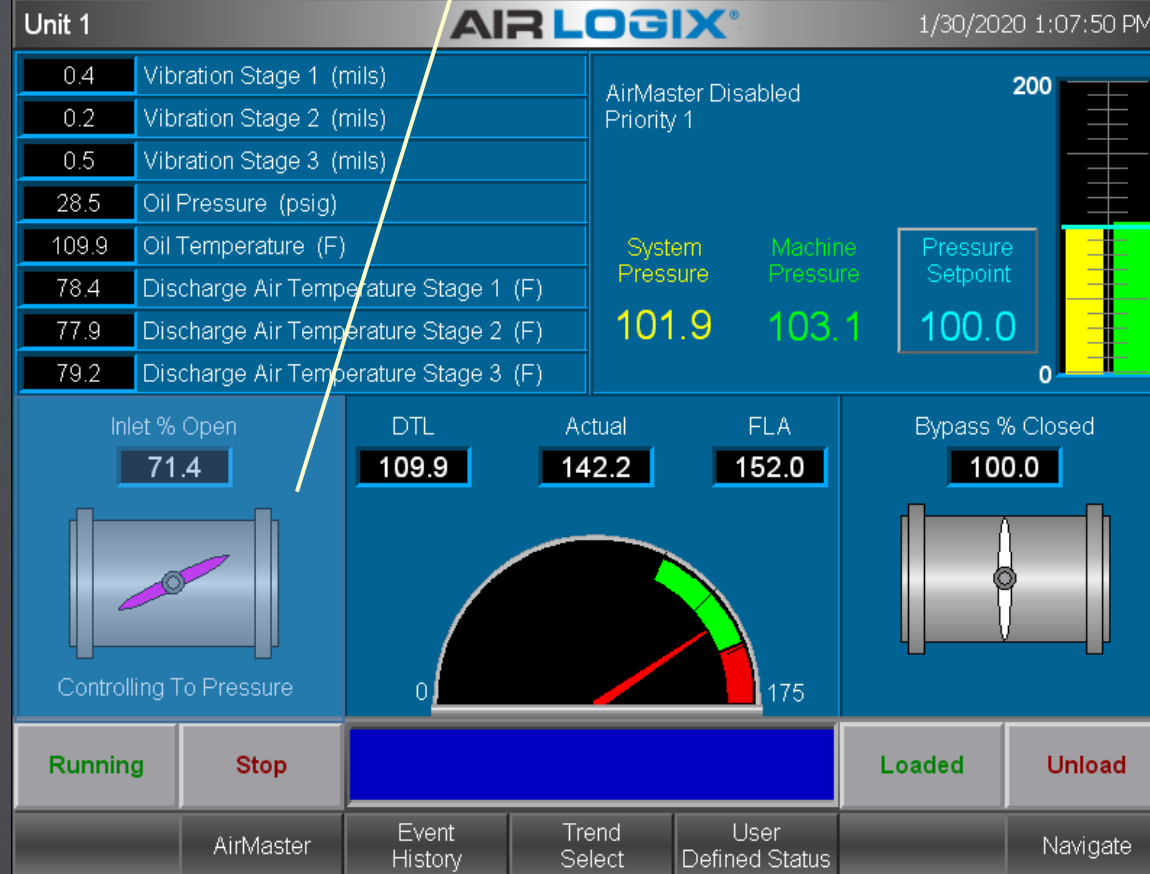
With the bypass valve closed and pressure below setpoint, the indication below the valve changes to "Controlling to Pressure" to indicate the valve is throttling to maintain the desired pressure. **Press the Inlet Valve** to continue.



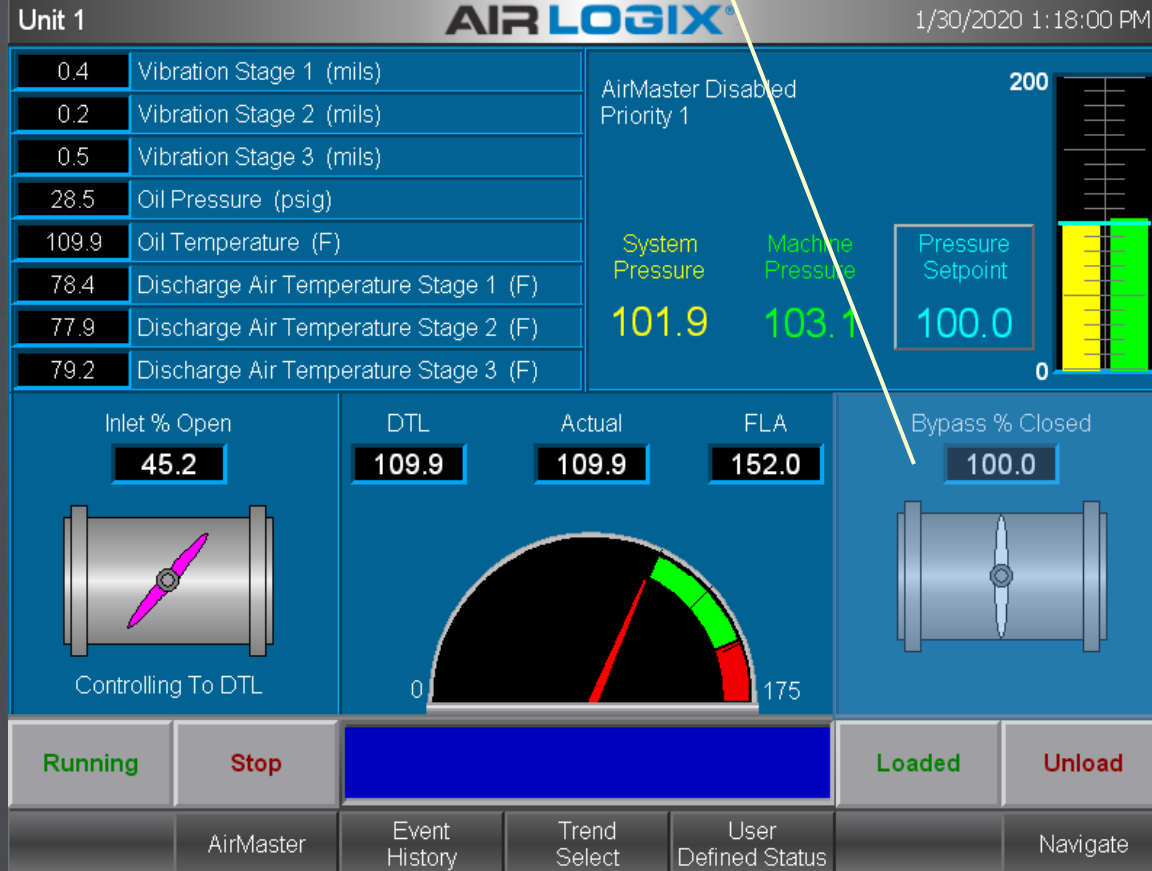
With pressure below setpoint and amperage approaching FLA (Full Load Amps), the indication below the valve changes to "Controlling to FLA" to indicate the valve is throttling to maintain the maximum allowed amperage. **Press the Inlet Valve** to continue.



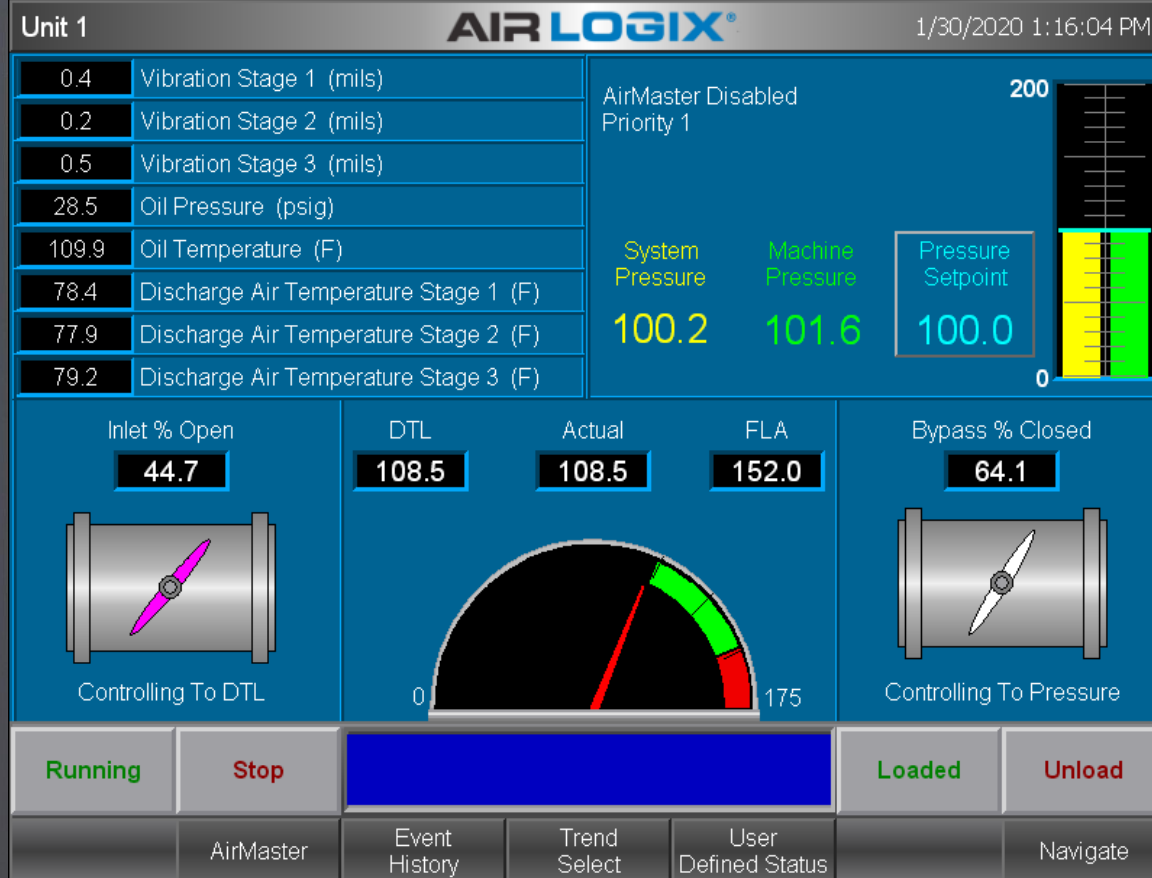
As demand decreases, pressure rises above setpoint. The bypass valve remains closed to prevent unnecessary blow off. The inlet valve begins to throttle back to maintain pressure.
Press the Inlet Valve to continue.



As pressure remains above set point, the inlet valve closes and amperage continues to decrease. As amperage approaches DTL, the inlet throttles to maintain DTL and prevent surge. **Press the Bypass Valve** to continue.

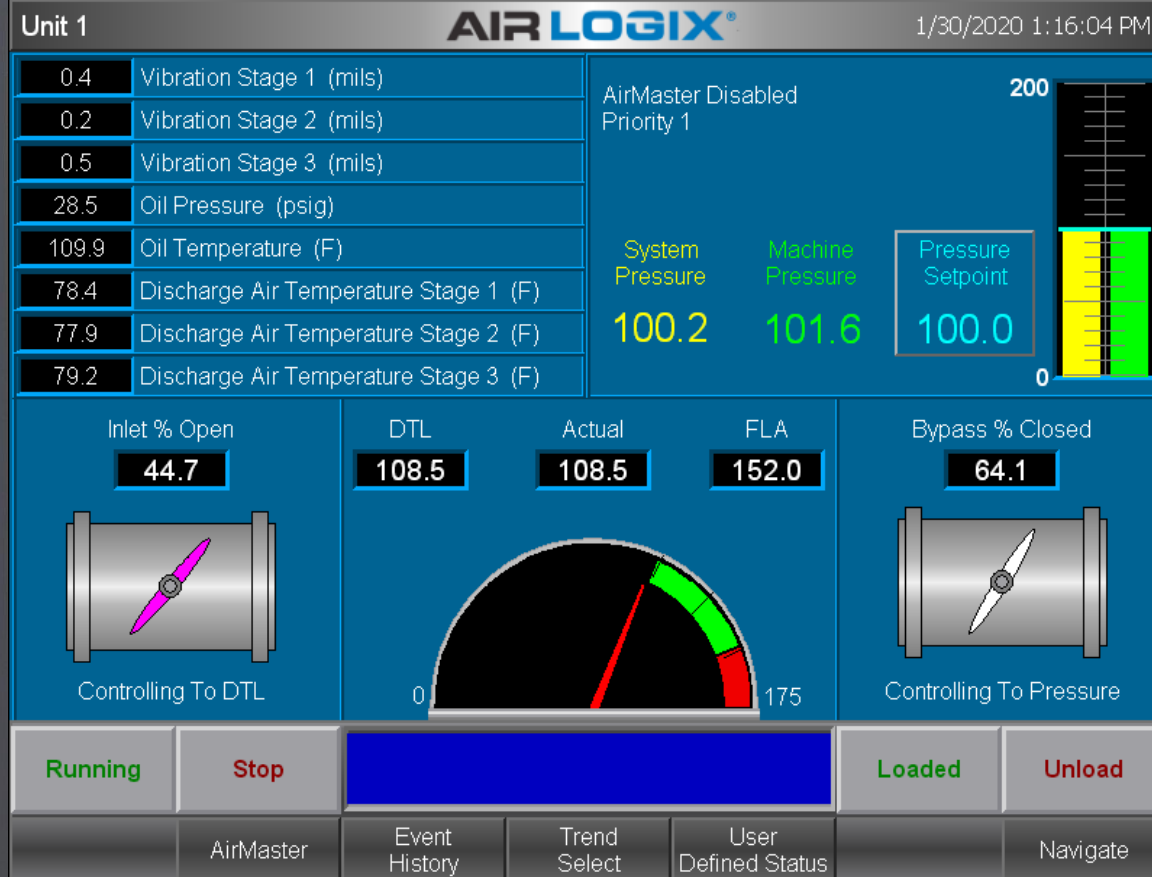


With the inlet throttling to DTL and pressure above setpoint, the bypass valve must open to relieve pressure. The bypass throttles to maintain the desired pressure. **Use the Navigation Buttons** at the bottom of the screen to continue to explore the AirLogix controller.



PanelView Plus

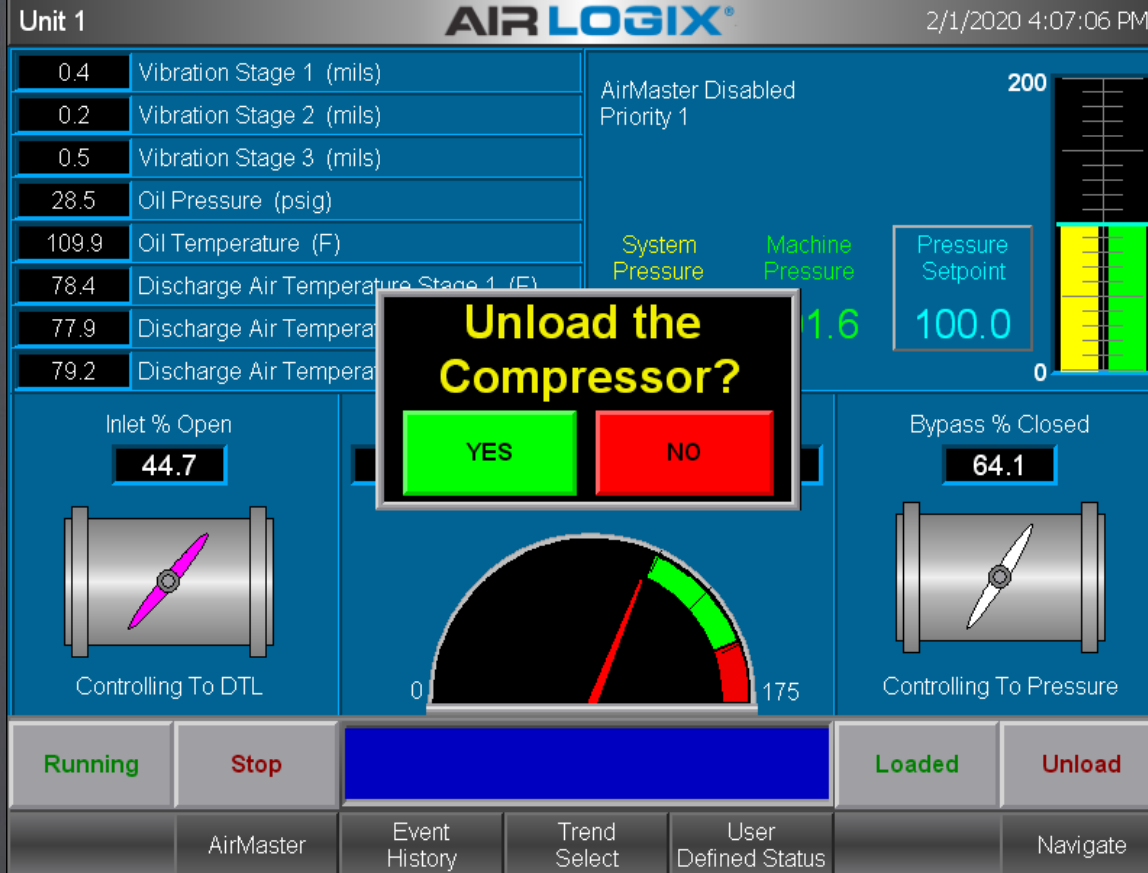
With the inlet throttling amperage to DTL and pressure above setpoint, the bypass valve must open to relieve pressure. The bypass throttles to maintain the desired pressure. **Use the Navigation Buttons** at the bottom of the screen to continue to explore the AirLogix controller.



When the Stop button is pressed, the Stop Confirmation pop up screen is displayed. This prevents an accidental stop of the compressor. **Press [Yes]** to stop the compressor or **Press [No]** to cancel the stop command. If the compressor is loaded when the stop is confirmed, it will unload prior to stopping.



When the Unload button is pressed, the Unload Confirmation pop up screen is displayed. This prevents an accidental unload of the compressor. **Press [Yes]** to unload the compressor or **Press [No]** to cancel the unload command.



The AirMaster™ Compressor Overview screen shows all the pertinent compressor information including the status of each compressor, compressor priority and machine critical information.

AirMaster Overview

AIR LOGIX®

1/16/2020 5:21:05 PM

AirMaster Pressure 94.97	AC-1 Fully Loaded	AC-2 Loaded	AC-3 Ready To Start	AC-4 Ready To Start
AirMaster Enabled	Enabled	Enabled	Enabled	Enabled
Auto Rotation Enabled	Not Enabled	Not Enabled	Not Enabled	Not Enabled
AirMaster Priority	1	2	3	4
AirMaster Control Mode	Base	Trim		
Local System Pressure	94.98	94.80	95.20	94.50
Inlet Pressure Setpoint	97.50	95.00	95.00	95.00
Bypass Pressure Setpoint	97.50	97.50	95.00	95.00
Inlet Position	15.0	75.3	0.0	0.0
Bypass Position	91.0	100.0	0.0	0.0
Motor Current	95.0	79.2	0.0	0.0
DTL Setpoint	77.6	72.5	74.6	80.3

Disable
AirMaster

AirMaster
Setup

Main

Event
History

Trend
Select

User
Defined Status

Setup

Navigate

PanelView Plus

The AirMaster™ Parameters screen is used to configure the compressor automation. All changes are completed in one location and broadcast to all units on the network when the Send AirMaster Parameters button is pressed. The new parameters are entered in the "New" column. Once transmitted, they are updated in the "Current" column

AirMaster Setup

AIR LOGIX®

1/16/2020 5:25:11 PM

Unit ID	Priority		AirMaster Parameters	New	Current
	New	Current			
AC-1	1	1	AirMaster Pressure Setpoint	95.00	95.00
AC-2	2	2	Start/Load Pressure Setpoint	90.00	90.00
AC-3	3	3	Pressure Setpoint Offset	2.50	2.50
AC-4	4	4	Emergency Pressure	85.00	85.00
			Low Pressure Start Delay (Secs)	20.0	20.0
			Reload Delay (Secs)	60.0	60.0
			Unload Time (Min)	20.0	20.0
			Running Unloaded Stop Time (Min)	30.0	30.0
			System Pressure Averaging	YES	YES

Send AirMaster
Parameters

Main

AirMaster

Event
History

Trend
Select

User
Defined Status

Setup

Navigate

PanelView Plus

This screen determines the available reserve compressor throttle capacity of any running compressors. If the unused capacity is sufficient to unload the trim compressor, AirMaster™ will automatically unload a compressor to run the system more efficiently.

AirMaster Capacity Calculation

AIR LOGIX®

1/16/2020 5:29:45 PM

Excess Capacity Unload

Excess Capacity Unload	YES
Unload Factor	0.92
Hold Time	60.00
Total Online Capacity	2918.0
Total Reserve Capacity	0.0
Calculated Threshold	894.9
Last Priority Compressor kW	972.7
Excess Capacity Detected	NO

Local Compressor kW Calculation

Motor kW Input	Calculated
Maximum kW Variable	Dynamic
Maximum kW	616.04
Actual kW	616.04
Reserve kW	0.00
Motor Supply Voltage	4160.00
Motor Power Factor	0.90

Main

AirMaster

Event
History

Trend
Select

User
Defined Status

Setup

Navigate

PanelView Plus

This screen displays the AirMaster™ Auto Functions configuration. The Bypass Pressure Offset allows AirMaster™ to eliminate or reduce bypassing air. Auto Rotation automatically rotates compressor priorities to help evenly distribute run time.

AirMaster Auto Functions

AIR LOGIX®

1/16/2020 5:26:54 PM

Function	Enabled	Pressure	Time	
Emergency Start	YES	85.00		Seconds
Auto Start	YES	90.00	20	Seconds
Auto Load	YES	95.00	60	Seconds
Auto UnLoad	YES		20	Minutes
Auto Stop	YES		30	Minutes
Bypass Pressure Offset			8.50	Pressure
Bypass Position to Auto UnLoad			50.00	Percent

Send AirMaster
Parameters

Auto Rotation

Disabled

Manual
Rotation

Time Interval (Hours)

168.00

Time Remaining (Hours)

166.10

Reset
Time

Main

AirMaster

Event
History

Trend
Select

User
Defined Status

Setup

Navigate

PanelView Plus

The Event History shows the date and time of the last 200 alarms and trips. It also displays events such as starts/stops/loads/unloads and setpoint changes. **Press the [Alarm Help] button for help troubleshooting individual alarms.**

All Events History

AIR LOGIX®

1/31/2020 6:50:34 PM

Alarm time	Acknowledge time	Message
1/31/2020 12:54:39 PM		EL04-Compressor Stop Initialized (PanelView)
* 1/30/2020 1:20:00 PM	1/30/2020 1:20:51 PM	WH10-Vibration Stage 1 High Warning
1/30/2020 12:42:29 PM		EL02-Compressor Load Initialized (PanelView)
1/30/2020 12:33:44 PM		EL01-Compressor Start Initialized (PanelView)
1/30/2020 12:25:54 PM		EL04-Compressor Stop Initialized (PanelView)
* 1/29/2020 8:04:23 PM	1/29/2020 8:05:43 PM	WH10-Vibration Stage 1 High Warning
1/29/2020 7:08:31 PM		EL01-Compressor Start Initialized (PanelView)
1/29/2020 5:16:57 PM		EL04-Compressor Stop Initialized (PanelView)
1/29/2020 5:03:47 PM		EL02-Compressor Load Initialized (PanelView)
* 1/29/2020 4:58:30 PM	1/29/2020 4:59:54 PM	WR17-Discharge Air Temperature Stage 3 Signal Out Of Range. Verify instrument operation and signal wire connections.
* 1/29/2020 4:58:30 PM	1/29/2020 4:59:53 PM	WR16-Discharge Air Temperature Stage 2 Signal Out Of Range. Verify instrument operation and signal wire connections.
* 1/29/2020 4:58:30 PM	1/29/2020 4:59:53 PM	WR15-Discharge Air Temperature Stage 1 Signal Out Of Range. Verify instrument operation and signal wire connections.
* 1/29/2020 4:58:30 PM	1/29/2020 4:59:52 PM	WR14-Inlet Air Temperature Signal Out Of Range. Verify instrument operation and signal wire connections.
* 1/29/2020 4:58:30 PM	1/29/2020 4:59:51 PM	WR13-Vibration Stage 4 Signal Out Of Range. Verify instrument operation and signal wire connections.

Alarm Help	Trip Events	Acknowledge All Alarms	▲	▲	▼	▼
Main	AirMaster		Trend Select	User Defined Status		Navigate

PanelView Plus

The Event History Help screen provides tips to diagnose the most common problems. Choose the warning or trip from the list and AirLogix® will display troubleshooting tips for each event.

Event Help

AIRLOGIX®

12/13/2019 12:18:20 PM

Warning/Trip Descriptions

A wide variety of warnings and trips may occur on the AirLogix system. For each warning/trip, the compressor must be running or attempting to start. The follow is a partial list of warnings and general descriptions of each. Each message is prefixed by an alphanumeric code specific to each event. When contacting Case Engineering for support, the code may be much easier to remember than the message.

WH## - High analog input warnings

WL## - Low analog inputs warnings

WD## - Discrete warnings

WR## - Analog Input Signal Range warnings

TH## - High analog input trips

TL## - Low analog input trips

TD## - Discrete trips

EL## - Event Log for starts, stops, loads, unloads, ect.

Low/High Temperature Warnings/Trips

Most instances of temperature warnings/trips lead to air or oil cooler problems. However, it is possible the problem may lie in the instrumentation. The most common instrumentation problem is a disconnected or loose wire where the RTD transmitter connects to the RTD element. An open RTD will read full scale resulting in a compressor warning/trip. A disconnected 4-20mA signal wire will read minimum scale and will issue "Input Range Warnings" after the compressor starts.



Low/High Temperature Warning/Trips

Vibration Warnings/Trips

TD01-Low Seal Air Pressure Trip

TL05-Motor Current Low Trip

TH05-Motor Current High Trip

WH01-Machine Pressure High Warning

TH01-Machine Pressure High Trip



Main

Event
History

Trend
Select

User
Defined Status

Navigate

PanelView Plus

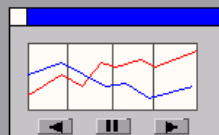
Live and Historical data can be trended from the PanelView. Click the [User Defined] trend for an illustration.

Trend Select

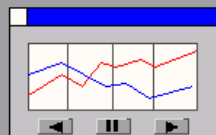
AIR LOGIX®

1/17/2020 9:11:09 AM

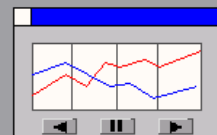
Vibrations



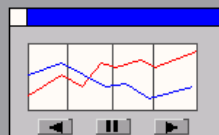
Air Temperatures



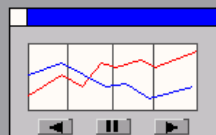
Air Pressures



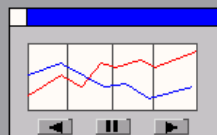
Motor Information



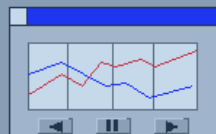
Overview



Oil and Water



User Defined



Main

AirMaster

Event
History

User
Defined Status

Navigate

PanelView Plus

Trend screens provide live data and historic data. The AirLogix holds approximately 6 hours of historical data. This trend can be configured by the operator to display any data points monitored by the system. In addition, the Y-axis scale can be modified to zoom in/out on specific data points.

User Defined

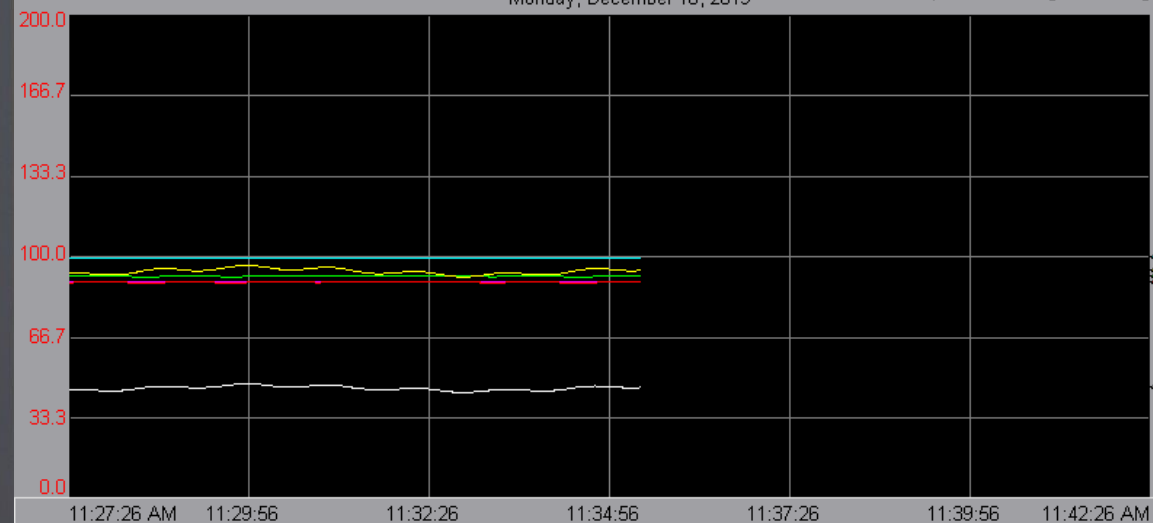
AIR LOGIX®

12/16/2019 11:35:23 AM

90.0	System Pressure	90.0	Pressure Setpoint
92.5	Machine Pressure	46.6	Inlet Valve Position
95.0	Motor Current	100.0	Bypass Valve Position

Monday, December 16, 2019

(Touch Item in Legend to Change)



Y-Axis Max

Y-Axis Min



RESUME



Main

Event
History

Trend
Select

User
Defined Status

Navigate

PanelView Plus

The User Defined Status screen allows the user to decide which inputs they want to view. The screen can be configured to display any analog input as well as other useful information provided by the AirLogix® control system.

User Defined Status

AIR LOGIX®

1/31/2020 7:43:12 PM

100.0	Pressure Setpoint	0.4	Vibration Stage 1 (mils)
100.2	System Pressure	0.2	Vibration Stage 2 (mils)
101.6	Machine Pressure (psig)	0.5	Vibration Stage 3 (mils)
21.5	Discharge Air Pressure Stage 1 (psig)		
54.8	Discharge Air Pressure Stage 2 (psig)	109.9	Oil Temperature (F)
		28.5	Oil Pressure (psig)
78.1	Inlet Air Temperature (F)		
78.4	Discharge Air Temperature Stage 1 (F)	76266.0	Run Hours
77.9	Discharge Air Temperature Stage 2 (F)	75894.0	Loaded Run Hours
		703.6	Actual Power Usage
44.7	Inlet Valve Position	2095.6	Power Usage Today
64.1	Bypass Valve Position	1962.4	Power Usage Yesterday
108.5	Motor Current (amp)	138017	Power Usage This Month
108.5	Dynamic Throttle Limit	119815	Power Usage Last Month
703.6	Motor kW	2886982	Power Usage Year to Date

Main

AirMaster

Event
History

Trend
Select

Navigate

PanelView Plus

The Navigation Menu combined with the lower button bar provides navigation to all of the system displays for the AirLogix® system.

Navigation Menu

AIRLOGIX®

1/28/2020 9:16:03 AM

Compressor Run Information	Maintenance Timers	PanelView Diagnostics
Peak Vibration Data	Auto Functions	DTL Setup Trend
Case Controls Information	Trip Data	Clean Display

Main

AirMaster

Event
History

Trend
Select

User
Defined Status

Setup

PanelView Plus

The Compressor Information screen provides various hour meters and motor power data. The Cost / kWh can be customized with actual cost information to provide a more accurate cost estimate.

Compressor Information

AIR LOGIX®

2/1/2020 6:05:42 PM

Compressor Hours		Motor kW (est)	
76266	Total Run Hours	704	Actual
75894	Total Loaded Hours	2096	Today
69269	Full Load Hours	1962	Yesterday
687	Bypassing Hours	138017	This Month
0	Performance Throttle Hours	119815	Last Month
0	Surge Count	2886982	Year to Date
Compressor Cost Estimates			
0.04	Cost / kWh	5520.68	This Month
83.82	Today	4792.60	Last Month
78.50	Yesterday	115479.00	Year to Date

Main

AirMaster

Event
History

Trend
Select

User
Defined Status

Navigate

PanelView Plus

The help screen contains detailed information on the vibration logging screens. The scaling for the graphical data can also be configured here.

Peak Vibration Data

AIR LOGIX®

12/13/2019 10:38:48 AM

Peak Vibration Detection:

The AirLogix PLC is collecting peak vibration data throughout three different operational periods for the compressor. The data collected may be viewed in Bar Graph or numerical form. This selection is toggled by pressing [F6]. The most recent twenty events (1-20) are displayed. Event number 1 is the most recent and event 20 is the oldest.

Peak Vibration During Startup:

This is the peak vibration point detected after a start is initialized and the vibration inhibit timer is timing.

Peak Vibration Running:

This is the peak vibration point detected after the vibration inhibit timer is done. Also, a new peak value is created every day at 12:00 AM. For example, if a compressor runs continuously 10 days, you will have at least 10 separate peak data points, one for each day.

Peak Vibration During Coast Down:

This is the peak vibration point detected after a compressor stop is initialized and during the coast down time.

Additional Data is available not shown on the screen. Please contact Case Engineering for further information.

Vibration Trend Scale

4 (microns)

CLOSE

Screen
Help

View Data

Startup

Shutdown

Main

Event
History

Trend
Select

User
Defined Status

Navigate

PanelView Plus

AirLogix® captures the peak vibration for each stage during startup and displays it here in tabular format. The last 20 peaks are displayed here for analysis.

Peak Vibration Data

AIR LOGIX®

12/16/2019 3:31:58 PM

Peak Vibration During Startup

Stage 1	1-10	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	11-20	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Stage 2	1-10	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	11-20	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Stage 3	1-10	0.33	0.33	0.33	0.33	0.33	0.33	0.00	0.00	0.00	0.00
	11-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Screen
Help

View Graph

Running

Shutdown

Main

Event
History

Trend
Select

User
Defined Status

Setup

Navigate

PanelView Plus

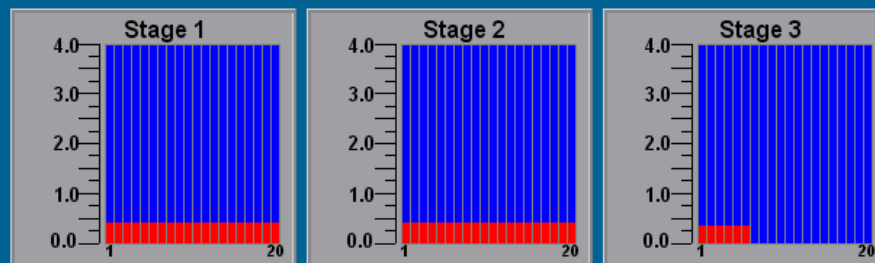
AirLogix® captures the peak vibration for each stage during startup and displays it here in graphical format. The last 20 peaks are displayed here for analysis.

Peak Vibration Data

AIR LOGIX®

12/16/2019 4:25:00 PM

Peak Vibration During Startup



Screen Help	View Data		Running	Shutdown	
Main		Event History	Trend Select	User Defined Status	Navigate

PanelView Plus

AirLogix® captures the peak vibration for each stage while the compressor is running and displays it here in tabular format. The last 20 peaks are displayed here for analysis. If the compressor runs continuously a new peak will be captured every day.

Peak Vibration Data

AIR LOGIX®

12/16/2019 3:30:05 PM

Peak Vibration Running

Stage 1	1-10	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	11-20	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Stage 2	1-10	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
	11-20	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Stage 3	1-10	0.33	0.33	0.33	0.33	0.33	0.33	0.00	0.00	0.00	0.00
	11-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Screen
Help

View Graph

Startup

Shutdown

Main

Event
History

Trend
Select

User
Defined Status

Setup

Navigate

PanelView Plus

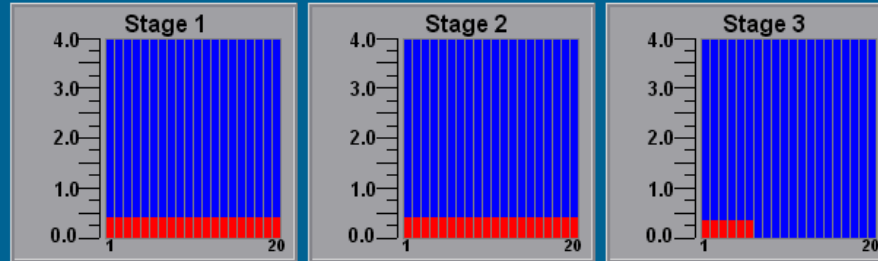
AirLogix® captures the peak vibration for each stage while the compressor is running and displays it here in graphical format. The last 20 peaks are displayed here for analysis. If the compressor runs continuously a new peak will be captured every day.

Peak Vibration Data

AIR LOGIX®

12/16/2019 4:22:52 PM

Peak Vibration Running



Screen Help	View Data	Startup		Shutdown	
Main		Event History	Trend Select	User Defined Status	Navigate

PanelView Plus

AirLogix® captures the peak vibration for each stage while the compressor is coasting down and displays it here in tabular format. The last 20 peaks are displayed here for analysis.

Peak Vibration Data

AIR LOGIX®

12/16/2019 3:32:43 PM

Peak Vibration During Shutdown

Stage 1	1-10	0.00	0.40	0.00	0.40	0.00	0.40	0.00	0.40	0.00	0.40
	11-20	0.00	0.40	0.00	0.40	0.00	0.40	0.00	0.40	0.00	0.40
Stage 2	1-10	0.00	0.40	0.00	0.40	0.00	0.40	0.00	0.40	0.00	0.40
	11-20	0.00	0.40	0.00	0.40	0.00	0.40	0.00	0.40	0.00	0.40
Stage 3	1-10	0.00	0.33	0.00	0.33	0.00	0.33	0.00	0.33	0.00	0.33
	11-20	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Screen
Help

View Graph

Startup

Running

Main

Event
History

Trend
Select

User
Defined Status

Setup

Navigate

PanelView Plus

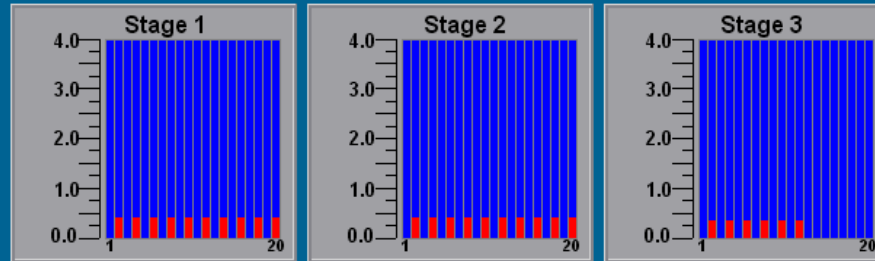
AirLogix® captures the peak vibration for each stage while the compressor is coasting down and displays it here in graphical format. The last 20 peaks are displayed here for analysis.

Peak Vibration Data

AIR LOGIX®

12/16/2019 3:34:33 PM

Peak Vibration During Shutdown



Screen Help	View Data	Startup	Running			
Main		Event History	Trend Select	User Defined Status	Setup	Navigate

PanelView Plus

This screen contains the software version number and information to contact Case Engineering. The processor's and PanelView's Ethernet communication parameters are also displayed here.



Version 5.00.00

PLC Ethernet IP Parameters

IP Address: 192.168.0.200
Subnet: 255.255.255.0
Gateway: 0.0.0.0

PanelView Ethernet IP Parameters

IP Address: 192.168.0.199
Subnet: 255.255.255.0
MAC Id: 5c-88-16-e8-8e-21

Developed By:
Case Engineering
1401 W. Franklin St
Evansville, IN 47710
Phone: (00) 1-800-294-7856

Intellectual Property Statement -
The PLC and HMI logic provided here are the property of Case Engineering Inc. The Buyer has purchased a license to use these programs and has agreed not to duplicate, distribute or reproduce them. Please report any violation to Case Engineering at 1-800-294-7856.

Main

User License
Agreement

PSN
Entry

PanelView
Configuration

Navigate

PanelView Plus

The copyrighted software or "source code" is the property of Case Engineering, Inc. It is licensed to users for installation and use on one centrifugal compressor per license.



USER LICENSE AGREEMENT

Case Engineering inc. (CASE) provides the computer software program(s) and User Manual(s) ("The Program") and any modifications, updates, revisions or enhancements received by you from CASE and licenses its use within the terms stated below:

- A. You are granted a nontransferable license to use the Program under the terms stated in this Agreement for use in your business to control one Centrifugal Air Compressor. Title and ownership of the Program and of the copyright in the Program remains in CASE;
- B. The Program may be used by you at a single location on a single Centrifugal Air Compressor which you own or use and for which the Program(s) is/are designed to operate.
- C. You may not make copies, translations or modifications of or to the Program, except you may copy the Program into machine-readable or printed form for backup purposes in support of your use of the Program. You must reproduce the copyright notice on any copy of the Program or portion of the Program reproduced for back-up or support purposes. You may not merge the Program or portions of the Program into another program.
- D. You may not assign, sell, distribute, lease, rent, sublicense or transfer the Program or this license or disclose the Program to any other person. You may not reverse-engineer, dis-assemble or decompile the Program or otherwise attempt to discover the source code or structural framework of the Program; and
- E. This license terminates if you fail to comply with any provision of this Agreement. You agree upon termination to destroy the Program, together with all copies, modifications and merged portions in any form, including any copy in your computer memory or on a hard disk.

Accept
Terms

PanelView Plus

The copyrighted software or "source code" is the property of Case Engineering, Inc. It is licensed to users for installation and use on one centrifugal compressor per license.

CASE
CONTROLS

Hardware PSN Entry

Close

Evansville, IN 47710
Phone: (00) 1-800-294-7856

Intellectual Property Statement -
The PLC and HMI logic provided here are the property of Case Engineering Inc. The Buyer has purchased a license to use these programs and has agreed not to duplicate, distribute or reproduce them. Please report any violation to Case Engineering at 1-800-294-7856.

Main

User License
Agreement

PSN
Entry

PanelView
Configuration

Navigate

PanelView Plus

The PanelView configuration screen allows access to certain configurations such as communication parameters and date/time settings.

FactoryTalk View ME Station - 10.0.14.290

Current application:

AirLogix_v500.mer

Load Application
[F1]

Run Application
[F2]

Application Settings
[F3]

Terminal Settings
[F4]

Delete Log Files
Before Running
[F5]

☐ Yes

☒ No

Device: PVP2934

IP Addr: 192.168.0.199

Subnet: 255.255.255.0

Reset
[F7]

Exit
[F8]

PanelView Plus

The AirLogix® provides configurable maintenance timers. When the time elapsed reaches the set point, an alarm banner will be displayed to provide reminders for preventative maintenance.

Maintenance Timers

AIR LOGIX®

2/4/2020 4:32:50 PM

Maintenance Timer Setup					
Enable	Name	Time (H)	Setpoint	Base	Reset
YES	Air Filter Change Due	1050.8	2500	RUN	Reset
YES	Oil Sample Required	1192.6	2000	OFF	Reset
YES	Oil Change	1192.9	5000	OFF	Reset
YES	Rebuild Timer	1172.5	32000	RUN	Reset

Main

AirMaster

Event
History

Trend
Select

User
Defined Status

Setup

Navigate

PanelView Plus

The AirLogix® provides some basic automation functionality. Here the compressor is configured to automatically start, load, unload, and stop based on the local system pressure.

Auto Functions

AIR LOGIX®

12/13/2019 11:15:47 AM

		Pressure	Time	
Auto Start	YES	95.00	20	Seconds
Auto Load	YES	80.00	20	Seconds
Auto Unload	YES		420	Seconds
Auto Stop	YES		10	Minutes
Load After Start	YES			

Main

Event
History

Trend
Select

User
Defined Status

Navigate

PanelView Plus

The Trip Data screens are a useful troubleshooting tool. The AirLogix® control system displays 5 seconds of data leading up to the last three trip events.

Trip Data - 1st

AIR LOGIX®

2/4/2020 4:28:28 PM

Input Name	T0	T-1	T-2	T-3	T-4
System Pressure	94.98	94.98	94.98	94.98	94.98
Machine Pressure	95.83	95.83	95.83	95.83	95.83
Oil Temperature	95.00	95.00	95.00	95.00	95.00
Discharge Air Temperature	64.99	64.99	64.99	64.99	64.99
Oil Pressure	0.00	5.30	10.60	16.80	26.30
Motor Current	95.00	95.00	95.00	95.00	95.00
Pre-filter Oil Pressure	61.04	61.04	61.04	61.04	61.04
Vibration Stage 1	0.30	0.30	0.30	0.30	0.30
Vibration Stage 2	0.30	0.30	0.30	0.30	0.30
Vibration Stage 3	0.50	0.50	0.50	0.50	0.50
Inlet Air Temperature	78.10	78.10	78.10	78.10	78.10
Discharge Air Temperature Stage 1	78.90	78.90	78.90	78.90	78.90
Discharge Air Temperature Stage 2	77.50	77.50	77.50	77.50	77.50
Discharge Air Temperature Stage 3	85.45	85.45	85.45	85.45	85.45
Low Oil Pressure Trip					

Main

AirMaster

Event
History

Trend
Select

User
Defined Status

Setup

Navigate

PanelView Plus

The PanelView Diagnostic Display screen shows internal PanelView events and errors. This screen can be useful in troubleshooting various PanelView issues.

Diagnostic Display

AIR LOGIX®

12/13/2019 11:18:17 AM

```

i Write 1 to {[AirLogix]PanelView_ReplaceDisplayNum}
i Write 43 to {[AirLogix]PanelView_ReplaceDisplayNum}
i Write 50 to {[AirLogix]PanelView_ReplaceDisplayNum}
i Write 19 to {[AirLogix]Current_Date_Time_PV[5]}
i Write 17 to {[AirLogix]Current_Date_Time_PV[4]}
i Write 11 to {[AirLogix]Current_Date_Time_PV[3]}
i Write 13 to {[AirLogix]Current_Date_Time_PV[2]}
i Write 12 to {[AirLogix]Current_Date_Time_PV[1]}
i Write 2019 to {[AirLogix]Current_Date_Time_PV[0]}
i Write 57 to {[AirLogix]PanelView_ReplaceDisplayNum}
i Write 43 to {[AirLogix]PanelView_ReplaceDisplayNum}
i Write 24 to {[AirLogix]PanelView_ReplaceDisplayNum}
i Write 13 to {[AirLogix]PanelView_ReplaceDisplayNum}
i Write 43 to {[AirLogix]PanelView_ReplaceDisplayNum}
i Write 19 to {[AirLogix]Current_Date_Time_PV[5]}
i Write 15 to {[AirLogix]Current_Date_Time_PV[4]}
i Write 11 to {[AirLogix]Current_Date_Time_PV[3]}
i Write 13 to {[AirLogix]Current_Date_Time_PV[2]}
i Write 12 to {[AirLogix]Current_Date_Time_PV[1]}
i Write 2019 to {[AirLogix]Current_Date_Time_PV[0]}
i Write 1 to {[AirLogix]PanelView_ReplaceDisplayNum}
i Write 43 to {[AirLogix]PanelView_ReplaceDisplayNum}
i Write 13 to {[AirLogix]PanelView_ReplaceDisplayNum}
i Write 43 to {[AirLogix]PanelView_ReplaceDisplayNum}
i Write 57 to {[AirLogix]PanelView_ReplaceDisplayNum}
i Write 43 to {[AirLogix]PanelView_ReplaceDisplayNum}
i Write 45 to {[AirLogix]PanelView_ReplaceDisplayNum}
i Write 45 to {[AirLogix]PanelView_ReplaceDisplayNum}
    
```

Clear

Clear All



Main

Event
History

Trend
Select

User
Defined Status

Navigate

PanelView Plus

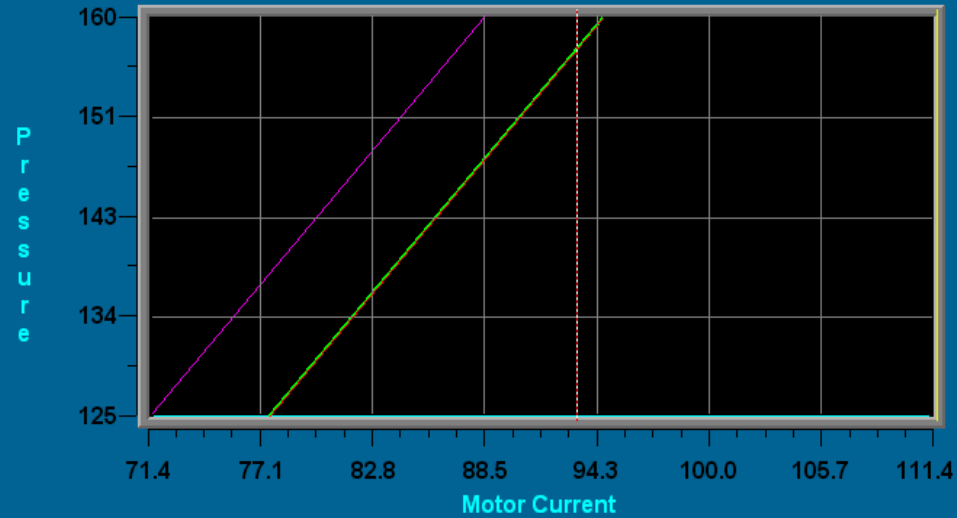
Dynamic Throttle Limit (DTL) is used to protect the compressor from surge and reduce energy consumption. The surge line is continuously calculated based on discharge pressure and inlet air density. The surge testing procedures determine the parameters for this algorithm.

DTL Animation

AIR LOGIX®

12/17/2019 4:39:58 PM

Actual Throttle Surge Line DTL Line With Air Density Compensation Max Amp Set Point 150.0
Actual Line With Offset



Motor Current 93.1
DTL Set Point 77.6

Main

Event History

Trend Select

User Defined Status

Navigate

PanelView Plus

The AirLogix® control system utilizes a 10' touchscreen display. This screen allows the touchscreen to be cleaned without danger of making any unintended changes or shutting the compressor down.

Clean Display

AIR LOGIX®

2/1/2020 7:39:04 PM

Cleaning Time Remaining

10

PanelView Plus

All Setup Screens can be viewed by anyone. However, to modify a setup parameter an authorized user must login using their credentials when prompted.

Setup Menu

AIR LOGIX®

12/13/2019 11:22:34 AM

Control System Configuration	Analog Input 3 Configuration	Control Signal Configuration
Discrete Input Configuration	Oil System Configuration	Manual Valve Control
Analog Input 0 Configuration	Motor Start/Stop Configuration	Surge Parameters
Analog Input 1 Configuration	Cooling Water/ Condensate Purge	Trend Configuration
Analog Input 2 Configuration	Startup / Load Configuration	Log In

Main		Event History	Trend Select	User Defined Status		Navigate
------	--	---------------	--------------	---------------------	--	----------

PanelView Plus

Once logged in - Press the selection area in black to the right of each item in the list will toggle through the selection options or provide a pop-up keypad to enter the required information

Control System Configuration

AIR LOGIX®

12/13/2019 11:23:27 AM

Control System Selection	AirLogix
Inlet Valve Control	Analog
Bypass Valve Control	Analog
Bypass Position Reference	% Closed
Compressor Manufacturer	IR Centac
Stage Reference	Discharge
ID/Name	AC-2
Number Of Stages	3
Design Capacity (SCFM)	5550
Design Pressure	125
Maximum Pressure Setpoint	120
Minimum Pressure Setpoint	80
Motor Nameplate FLA	150
Motor Voltage	4160
Motor Horsepower	458

Main

Event
History

Trend
Select

User
Defined Status

Setup

Navigate

















PanelView Plus

For each input an On/Off indication or a red X is displayed under the input identification. When the input is enabled, the On/Off indication will display the current state of the input. When the input is disabled, the red "X" is displayed.

Discrete Inputs

AIR LOGIX®

12/13/2019 11:25:13 AM

DI00 	Low Water Flow	DI08 	Spare2
DI01 	Low Seal Air	DI09 	Spare3
DI02 	High Inlet Filter D/P	DI10 	Spare4
DI03 	High Oil Filter DP	DI11 	Spare5
DI04 	Low Oil Level	DI12 	E-stop Pressed
DI05 	High Condensate Level	DI13 	Remote Stop
DI06 	High Motor Temperature	DI14 	Remote Start
DI07 	Spare1	DI15 	Remote Load

 = OFF/NO  = ON/YES  Disabled

Main

Event
History

Trend
Select

User
Defined Status

Setup

To configure an input, press the input to be configured.
The Discrete Input details screen will be opened.

PanelView Plus

Once logged in, parameters may be modified by pressing the field associated with the header to be modified.

Discrete Input Details

AIR LOGIX®

12/17/2019 11:42:54 AM

Input Enable		Input Identification			Actual
Disable		Low Water Flow			Condition False
N/O N/C	Start Permissive	Warning	Warning Time Dly	Trip	Trip Time Dly
N/C	Disabled	Disabled	3.00	Disabled	2.50

Main

Event
History

Trend
Select

User
Defined Status

Return

Navigate

PanelView Plus

Once logged in, parameters may be modified by pressing the field associated with the header to be modified.

Discrete Input Details

AIR LOGIX®

12/17/2019 11:44:33 AM

Input Enable		Input Identification			Actual
Disable		Low Seal Air			Condition True
	Start Permissive	Warning	Warning Time Dly	Trip	Trip Time Dly
	Disabled	Disabled	3.00	Disabled	3.00

Main

Event History

Trend Select

User Defined Status

Return

Navigate

PanelView Plus

Once logged in, parameters may be modified by pressing the field associated with the header to be modified.

Discrete Input Details

AIR LOGIX®

12/17/2019 11:45:25 AM

Press **[Enable/Disable]** to enable or disable the input. The indicator in the upper right-hand corner indicates if the condition is True or False

Input Enable		Input Identification			Actual
Disable		High Inlet Filter D/P			Condition True
N/O N/C	Start Permissive	Warning	Warning Time Dly	Trip	Trip Time Dly
N/C	Disabled	Disabled	3.00	Disabled	3.00

Main

Event
History

Trend
Select

User
Defined Status

Return

Navigate

PanelView Plus

Once logged in, parameters may be modified by pressing the field associated with the header to be modified.

Discrete Input Details

AIR LOGIX®

12/17/2019 11:46:13 AM

Press **[Enable/Disable]** to enable or disable the input. The indicator in the upper right-hand corner indicates if the condition is True or False

Input Enable		Input Identification			Actual
Enable		High Oil Filter DP			Condition False
N/O N/C	Start Permissive	Warning	Warning Time Dly	Trip	Trip Time Dly
N/C	Disabled	Disabled	3.00	Disabled	3.00

Main

Event
History

Trend
Select

User
Defined Status

Return

Navigate

PanelView Plus

Once logged in, parameters may be modified by pressing the field associated with the header to be modified.

Discrete Input Details

AIR LOGIX®

12/17/2019 11:47:03 AM

Input Enable		Input Identification			Actual
Enable		Low Oil Level			Condition False
N/O N/C	Start Permissive	Warning	Warning Time Dly	Trip	Trip Time Dly
N/C	Disabled	Disabled	3.00	Disabled	3.00

Main

Event
History

Trend
Select

User
Defined Status

Return

Navigate

PanelView Plus

Once logged in, parameters may be modified by pressing the field associated with the header to be modified.

Discrete Input Details

AIR LOGIX®

12/17/2019 11:47:56 AM

Input Enable		Input Identification			Actual
Enable		High Condensate Level			Condition False
N/O N/C	Start Permissive	Warning	Warning Time Dly	Trip	Trip Time Dly
N/C	Disabled	Disabled	3.00	Disabled	3.00

Main

Event
History

Trend
Select

User
Defined Status

Return

Navigate

PanelView Plus

Once logged in, parameters may be modified by pressing the field associated with the header to be modified.

Discrete Input Details

AIR LOGIX®

12/17/2019 11:48:38 AM

Input Enable		Input Identification			Actual
Enable		High Motor Temperature			Condition False
N/O N/C	Start Permissive	Warning	Warning Time Dly	Trip	Trip Time Dly
N/C	Disabled	Disabled	3.00	Disabled	3.00

Main

Event
History

Trend
Select

User
Defined Status

Return

Navigate

PanelView Plus

Once logged in, parameters may be modified by pressing the field associated with the header to be modified.

Discrete Input Details

AIR LOGIX®

12/17/2019 11:49:34 AM

Input Enable		Input Identification			Actual
Enable		Spare1			Condition False
N/O N/C	Start Permissive	Warning	Warning Time Dly	Trip	Trip Time Dly
N/C	Disabled	Disabled	3.00	Disabled	3.00

Main

Event
History

Trend
Select

User
Defined Status

Return

Navigate

PanelView Plus

Once logged in, parameters may be modified by pressing the field associated with the header to be modified.

Discrete Input Details

AIR LOGIX®

12/17/2019 11:50:15 AM

Input Enable		Input Identification			Actual
Enable		Spare2			Condition False
N/O N/C	Start Permissive	Warning	Warning Time Dly	Trip	Trip Time Dly
N/C	Disabled	Disabled	3.00	Disabled	3.00

Main

Event
History

Trend
Select

User
Defined Status

Return

Navigate

PanelView Plus

Once logged in, parameters may be modified by pressing the field associated with the header to be modified.

Discrete Input Details

AIR LOGIX®

12/17/2019 11:50:49 AM

Input Enable		Input Identification			Actual
Enable		Spare3			Condition False
N/O N/C	Start Permissive	Warning	Warning Time Dly	Trip	Trip Time Dly
N/C	Disabled	Disabled	3.00	Disabled	3.00

Main

Event
History

Trend
Select

User
Defined Status

Return

Navigate

PanelView Plus

Once logged in, parameters may be modified by pressing the field associated with the header to be modified.

Discrete Input Details

AIR LOGIX®

12/17/2019 11:51:34 AM

Input Enable		Input Identification			Actual
Disable		Spare4			Condition False
N/O N/C	Start Permissive	Warning	Warning Time Dly	Trip	Trip Time Dly
N/O	Disabled	Disabled	3.00	Disabled	3.00

Main

Event
History

Trend
Select

User
Defined Status

Return

Navigate

PanelView Plus

Once logged in, parameters may be modified by pressing the field associated with the header to be modified.

Discrete Input Details

AIR LOGIX®

12/17/2019 11:52:23 AM

Input Enable		Input Identification			Actual
Disable		Spare5			Condition True
N/O N/C	Start Permissive	Warning	Warning Time Dly	Trip	Trip Time Dly
N/C	Disabled	Disabled	3.00	Disabled	3.00

Main

Event
History

Trend
Select

User
Defined Status

Return

Navigate

PanelView Plus

Once logged in, parameters may be modified by pressing the field associated with the header to be modified.

Discrete Input Details

AIR LOGIX®

1/15/2020 5:44:30 PM

Input Enable	Input Identification	Actual
	E-stop Pressed	Condition False

The E-Stop input is NOT configurable

Main

Event
History

Trend
Select

User
Defined Status

Return

Navigate

PanelView Plus

Once logged in, parameters may be modified by pressing the field associated with the header to be modified.

Discrete Input Details

AIR LOGIX®

1/15/2020 5:41:28 PM

Input Enable	Input Identification	Actual
Enable	Remote Stop	Condition False
N/O N/C		
N/O		

Main

Event
History

Trend
Select

User
Defined Status

Return

Navigate

PanelView Plus

Once logged in, parameters may be modified by pressing the field associated with the header to be modified.

Discrete Input Details

AIR LOGIX®

1/16/2020 10:14:46 AM

Input Enable	Input Identification	Actual
Enable	Remote Start	Condition False
N/O N/C		
N/O		

Main

Event
History

Trend
Select

User
Defined Status

Return

Navigate

PanelView Plus

Once logged in, parameters may be modified by pressing the field associated with the header to be modified.

Discrete Input Details

AIR LOGIX®

1/16/2020 10:12:37 AM

Input Enable	Input Identification	Actual
Enable	Remote Load	Condition False
N/O N/C		
N/O		

Main

Event
History

Trend
Select

User
Defined Status

Return

Navigate

PanelView Plus

For each analog input a value or red X is displayed to the right of the input identification. When the input is enabled, the input's analog value will be displayed. When the input is disabled, a red "X" is displayed.

Analog Inputs

AIR LOGIX®

12/13/2019 11:26:00 AM

AI00	89.9	System Pressure
AI01	92.4	Machine Pressure
AI02	95.0	Oil Temperature
AI03	65.0	Discharge Air Temperature
AI04	95.0	Oil Pressure
AI05	94.1	Motor Current
AI06	X	Bearing Oil Pressure
AI07	244.2	Pre-filter Oil Pressure

X Disabled

Main

Event
History

Trend
Select

User
Defined Status

Setup

To configure an input, press the desired input. The Analog Input Detail screen will be opened. Press the [Oil Temperature] input for a demonstration

PanelView Plus

Press **[Enable/Disable]** to enable or disable the input. Configure High and Load, Start Permissive, Warning, and Trip Set Points as required by the analog input.

Input Enable		Input Identification					Actual
Disable		Oil Temperature					95.00
	Input Scale	Start Permissive	Warning Set Point	Warning Time Dly	Trip Set Point	Trip Time Dly	
High	400.00	120.00	120.00	3.00	125.00	3.00	
		Enabled	Enabled		Enabled		
Low	0.00	70.00	70.00	3.00	65.00	3.00	
		Enabled	Enabled		Enabled		
UOM	(F)	Press to change Input Signal Type. Input Module Jumper MUST be moved.					1-5 Vdc
Input Signal Range Warning							Enabled

Enter "High/Low" Set Points

The user must be logged in to modify the parameters on this screen. Press the field associated with the set point to be modified.

Main
AirMaster
Event History
Trend Select
User Defined Status
Return
Navigate

PanelView Plus

For each analog input a value or red X is displayed to the right of the input identification. When the input is enabled, the input's analog value will be displayed. When the input is disabled, a red "X" is displayed.

Analog Inputs

AIR LOGIX®

12/13/2019 11:27:37 AM

AI10	0.4	Vibration Stage 1
AI11	0.4	Vibration Stage 2
AI12	X	Vibration Stage 3
AI13	X	Vibration Stage 4
AI14	-50.0	Inlet Air Temperature
AI15	62.5	Discharge Air Temperature Stage 1
AI16	62.5	Discharge Air Temperature Stage 2
AI17	85.5	Discharge Air Temperature Stage 3

To configure an input, press the desired input. The Analog Input Detail screen will be opened.

X Disabled

Main

Event
History

Trend
Select

User
Defined Status

Setup

PanelView Plus

For each analog input a value or red X is displayed to the right of the input identification. When the input is enabled, the input's analog value will be displayed. When the input is disabled, a red "X" is displayed.

Analog Inputs

AIR LOGIX®

1/13/2020 12:34:44 PM

AI20	X	Discharge Air Pressure Stage 1
AI21	X	Discharge Air Pressure Stage 2
AI22	X	Discharge Air Pressure Stage 3
AI23	X	Winding Temperature A
AI24	X	Winding Temperature B
AI25	X	Winding Temperature C
AI26	X	Inlet Water Temperature
AI27	X	Bullgear Vibration

To configure an input, press the desired input. The Analog Input Detail screen will be opened.

X Disabled

Main

Event
History

Trend
Select

User
Defined Status

Setup

PanelView Plus

For each analog input a value or red X is displayed to the right of the input identification. When the input is enabled, the input's analog value will be displayed. When the input is disabled, a red "X" is displayed.

Analog Inputs

AIR LOGIX®

12/13/2019 11:28:25 AM

AI30	X	Vibration Stage 5
AI31	X	Discharge Air Temperature Stage 4
AI32	X	Discharge Air Pressure Stage 4
AI33	X	Inboard Bearing Temperature
AI34	X	Outboard Bearing Temperature
AI35	X	Machine Air Flow
AI36	X	Spare1
AI37	X	Spare 2

To configure an input, press the desired input. The Analog Input Detail screen will be opened.

X Disabled

Main

Event
History

Trend
Select

User
Defined Status

Setup

PanelView Plus

Once logged in, parameters may be modified by pressing the field associated with the header to be modified.

Oil System Configuration

AIR LOGIX®

12/13/2019 11:29:13 AM

Electric Main Oil Pump	NO
Air Driven Auxiliary Oil Pump	NO
Prelube Oil Pump	YES
Prelube Off Timer (Seconds)	20
Prelube Recovery Pressure	10.00
Oil Heater Enabled	YES
Oil Heater On Temperature	114
Oil Heater Off Temperature	122
Oil Pressure Permissive Enabled	NO
Oil Level Permissive Enabled	NO

Prelube Pump START PRELUBE PUMP STOPPED

Main

Event History

Trend Select

User Defined Status

Setup

Navigate

PanelView Plus

Once logged in, parameters may be modified by pressing the field associated with the header to be modified.

Motor Start/Stop Configuration

AIR LOGIX®

12/13/2019 11:29:51 AM

Momentary Start (Seconds)	NO	5
Momentary Stop (Seconds)	NO	10
Wye-Delta (Seconds)	YES	15
Main Motor Coastdown (Seconds)		240
Run Hours		672
Allowed Starts / Minutes	3	60
Start Sequence	NO	



Main

Event
History

Trend
Select

User
Defined Status

Setup

Navigate

PanelView Plus

Once logged in, parameters may be modified by pressing the field associated with the header to be modified.

Cooling Water/Condensate Purge **AIR LOGIX** 12/13/2019 11:30:51 AM

Cooling Water Valve	YES
Energize Output To	OPEN
Post Shutdown Timer (Minutes)	30
Valve Mode	Auto
Valve Position	Open
Condensate Purge	NO
Energize Output To	OPEN
Purge Interval (Minutes)	Manual Purge 10
Purge Duration (Seconds)	3

Once logged in, parameters may be modified by pressing the field associated with the header to be modified.

Startup / Load Configuration

AIR LOGIX®

12/13/2019 11:31:37 AM

General Start Override (Seconds)	20
Motor Current Start Override (Seconds)	20
Vibration Start Override (Seconds)	20
Vibration Multiplier	Disable
Ready To Load (Seconds)	25
Closed Inlet Start Time (Seconds)	15

Main

Event
History

Trend
Select

User
Defined Status

Setup

Navigate

PanelView Plus

Configure compressor control signals here.

Control Signal Configuration

AIR LOGIX®

2/4/2020 4:21:49 PM

Local Mode	Start	Stop	Load	Unload
PanelView	YES	YES	YES	YES
Communication	NO	NO	NO	NO
Discrete Input	NO	NO	NO	NO
Enable Remote Control Functionality				YES
Remote Mode	Start	Stop	Load	Unload
PanelView	NO	NO	NO	NO
Communication	YES	YES	YES	YES
Discrete Input	NO	NO	NO	NO
Enable Remote Setpoint Control				NO

Main

AirMaster

Event
History

Trend
Select

User
Defined Status

Setup

Navigate

PanelView Plus

Once logged in, parameters may be modified by pressing the field associated with the header to be modified.

Control Signal Configuration

AIR LOGIX®

1/28/2020 12:56:16 PM

Local Mode	Start	Stop	Load	Unload
PanelView	YES	YES	YES	YES
Communication	NO	NO	NO	NO
Discrete Input	NO	NO	NO	NO
Enable Remote Control Functionality				YES
Remote Mode	Start	Stop	Load	Unload
PanelView	NO	NO	NO	NO
Communication	NO	NO	NO	NO
Discrete Input	NO	NO	NO	NO
Enable Remote Setpoint Control				NO

Main

AirMaster

Event
History

Trend
Select

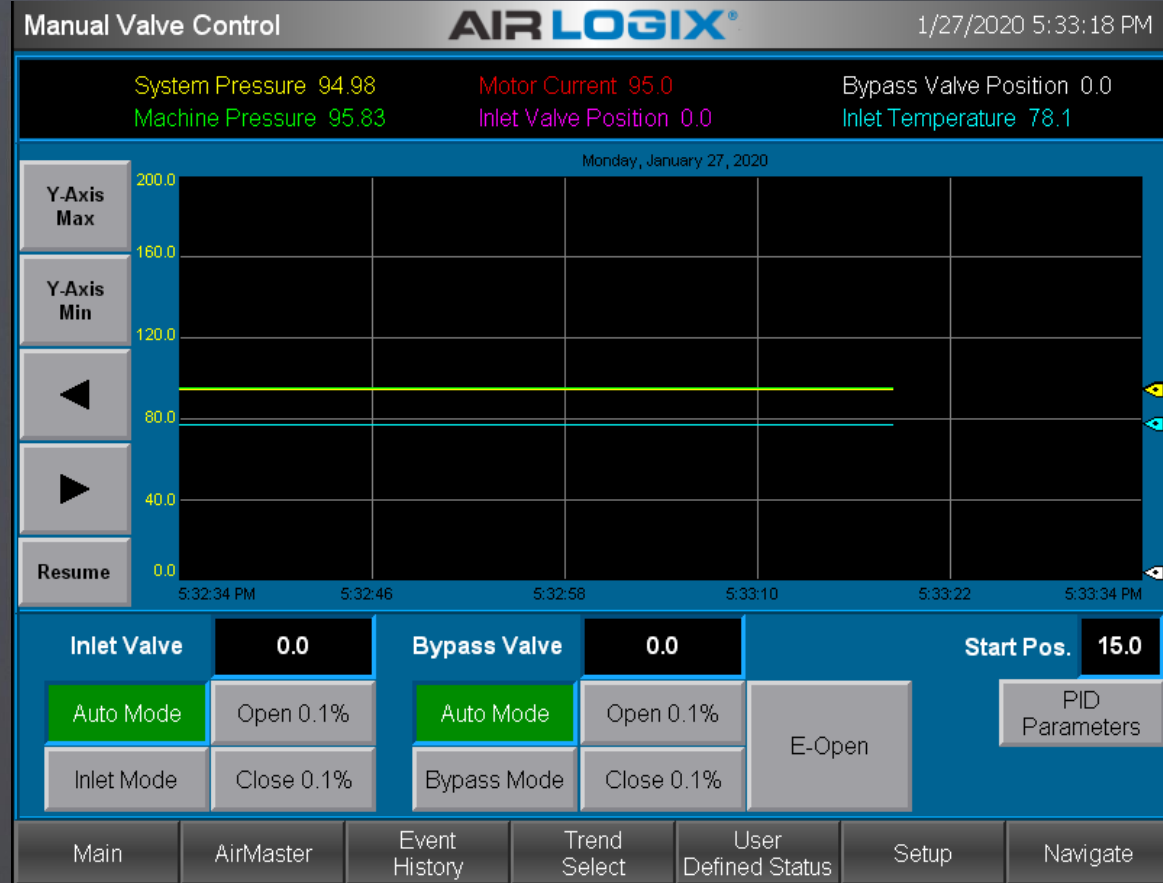
User
Defined Status

Setup

Navigate

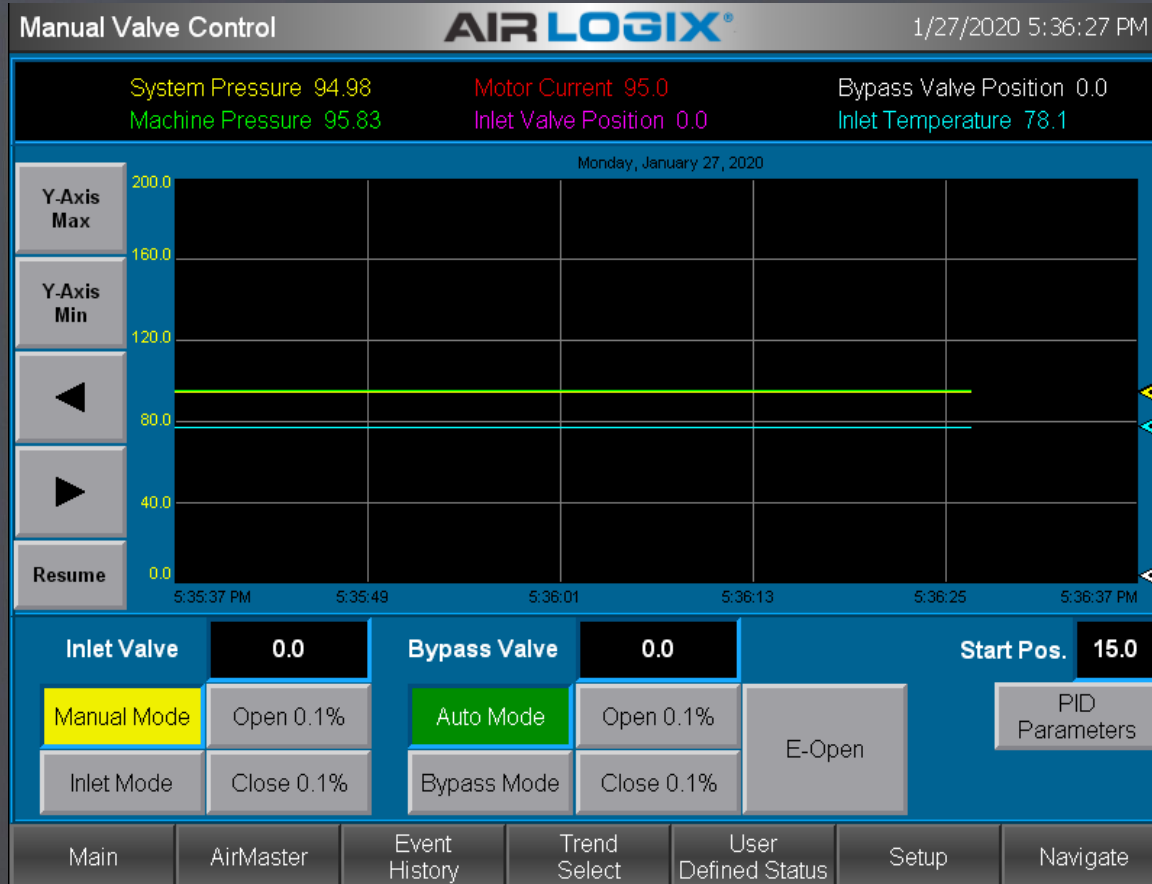
PanelView Plus

Press "Inlet Mode" or "Bypass Mode" to toggle the valve between "Auto/Manual" modes.



PanelView Plus

Press "Inlet Mode" or "Bypass Mode" to toggle the valve between "Auto/Manual" modes.



PanelView Plus

Press "Inlet Mode" or "Bypass Mode" to toggle the valve between "Auto/Manual" modes.



PanelView Plus

This screen provides access to the PID parameters and is used for tuning compressor response to plant demand changes.

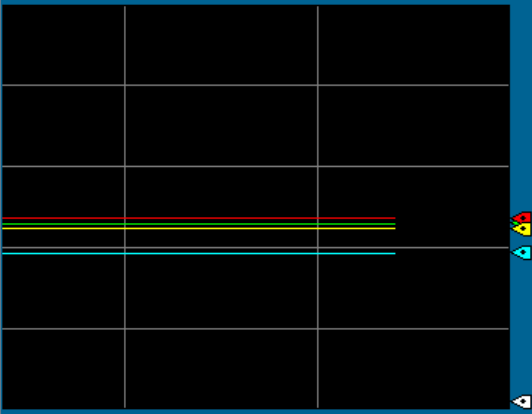
Manual Valve Control
AIR LOGIX
1/13/2020 3:23:34 PM

	Gain	Reset	Rate
Inlet DTL	0.80	0.02	0.00
Inlet PSI	5.00	0.15	0.00
Inlet Max Amp	0.80	0.02	0.00
Bypass PSI	8.00	0.20	0.00
Motor Current PID Offset			2.50
Machine Pressure PID Offset			10.00
Set Point Ramp Up Rate (Pressure)			1.00
Set Point Ramp Down Rate (Pressure)			2.00
Set Point Ramp Time (Seconds)			1.0

Close

15.0 Bypass Valve Position 0.0
Inlet Temperature 78.1

January 13, 2020



3:23:18 3:23:30 3:23:42 PM

Inlet Valve 0.0

Auto Mode Open 0.1%

Inlet Mode Close 0.1%

Bypass Valve 0.0

Auto Mode Open 0.1%

Bypass Mode Close 0.1%

Start Pos. 15.0

E-Open

PID Parameters

Main
Event History
Trend Select
User Defined Status
Setup
Navigate

Manual Valve Control

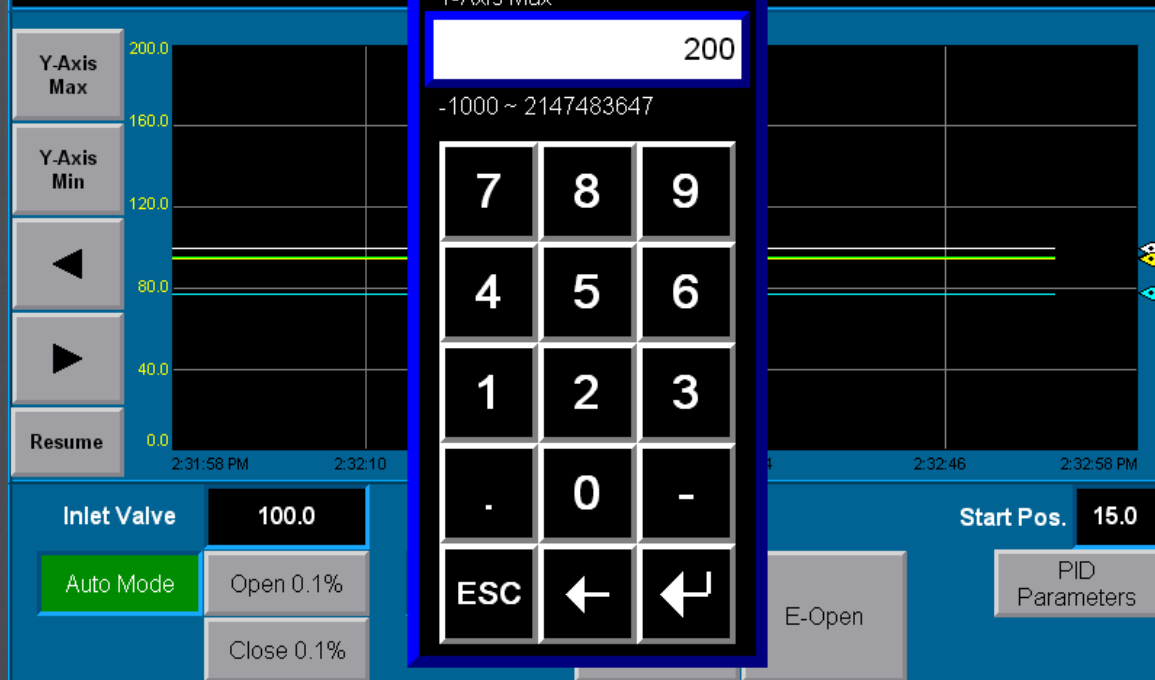
AIR LOGIX®

1/17/2020 2:32:53 PM

System Pressure 94.98
Machine Pressure 95.83

Motor Current 95.0

Bypass Valve Position 100.0
Inlet Temperature 78.1



PanelView Plus

Data captured from Surge tests is entered here.

Surge Parameters

AIRLOGIX®

2/4/2020 3:58:52 PM

	Surge Pressure	Surge Amps	Amps w/Offset	Amps Indexed	
Natural Surge	136.70	115.20			
High Pressure Surge	110.00	88.53	94.7	94.7	Reset DTL Offset
Low Pressure Surge	90.00	71.36	77.6	77.6	
Surge Line Offset (%)	7	Captured Surge Data:		Newest	Oldest
Inlet Temperature	77.8	Pressure		87.80	112.10
Motor Amp Index Per Surge	1.0	Motor Current		65.60	91.06
Maximum Motor Amps	120.0	Inlet Temperature		77.80	78.10
Radical Motor Current	30.0	Radical Current		25.00	31.20
Radical Discharge Pressure	3.0	Radical Pressure		11.20	13.60

Surge Data Calculator	Pressure	Amps		Pressure	Amps
High Surge Data	112.10	91.0	New High Pressure SP	136.00	115.0
Low Surge Data	86.80	65.6	New Low Pressure SP	90.00	68.8

Main

AirMaster

Event
History

Trend
Select

User
Defined Status

Setup

Navigate

PanelView Plus

Trend Configuration

AIR LOGIX®

12/13/2019 11:46:46 AM

Trend #1 Pins

Vibration Stage 1
Vibration Stage 2
Motor Current
Inlet Valve Position
Vibration Stage 5

Trend #4 Pins

Motor Current
Winding Temperature A
Winding Temperature B
Winding Temperature C
Inboard Bearing Temperature
Outboard Bearing Temperature

Trend #2 Pins

Inlet Air Temperature
Discharge Air Temperature Stage 1
Discharge Air Temperature Stage 2
Discharge Air Temperature Stage 3
Discharge Air Temperature Stage 4
Discharge Air Temperature

Trend #5 Pins

Motor Current
Machine Pressure
System Pressure
Inlet Valve Position
Bypass Valve Position
Dynamic Throttle Limit

Trend #3 Pins

System Pressure
Machine Pressure
Discharge Air Pressure Stage 1
Discharge Air Pressure Stage 2
Discharge Air Pressure Stage 3
Discharge Air Pressure Stage 4

Trend #6 Pins

Oil Temperature
Oil Pressure
Bearing Oil Pressure
Pre-filter Oil Pressure
Inlet Water Temperature

Main

Event
History

Trend
Select

User
Defined Status

Setup

Navigate

PanelView Plus

Multiple Security Levels protect the system configuration. Log in to change system parameters.

Setup Menu

AIR LOGIX®

12/13/2019 11:47:54 AM

Control System
Configuration

Analog Input 3
Configuration

Control Signal
Configuration

Discrete Input
Configuration

Oil System

Manual Valve

User Name
[F2]

Login
[Enter]

Password
[F3]

Cancel
[Esc]

Result:

Analog Input 2
Configuration

Startup / Load
Configuration

Log In

Main

Event
History

Trend
Select

User
Defined Status

Navigate

PanelView Plus

✖ Login attempt failed. User authentication failed.
 ✖ Login attempt failed. User authentication failed.
 ⓘ Write 1 to {[AirLogix]PanelView_ReplaceDisplayNum}
 ⓘ Write 19 to {[AirLogix]Current_Date_Time_PV[5]}
 ⓘ Write 47 to {[AirLogix]Current_Date_Time_PV[4]}
 ⓘ Write 11 to {[AirLogix]Current_Date_Time_PV[3]}

Clear

Clear

Login

User Name
[F2]

Login
[Enter]

Password
[F3]

Cancel
[Esc]

Result: User authentication failed.

Analog Input 2
Configuration

Startup / Load
Configuration

Log In

Main

Event
History

Trend
Select

User
Defined Status

Navigate

PanelView Plus

Write
Write
Write
Write
Write
Write

1	2	3	4	5	6	7	8	9	0	-	=
q	w	e	r	t	y	u	i	o	p	[]
a	s	d	f	g	h	j	k	l	;	'	`
z	x	c	v	b	n	m	,	.	/	\	
SHF	CAP	INS	SPACE			<<	>>	ESC	CLR	←	

Main

Event
History

Trend
Select

User
Defined Status

Navigate

PanelView Plus