



QUICK START GUIDE

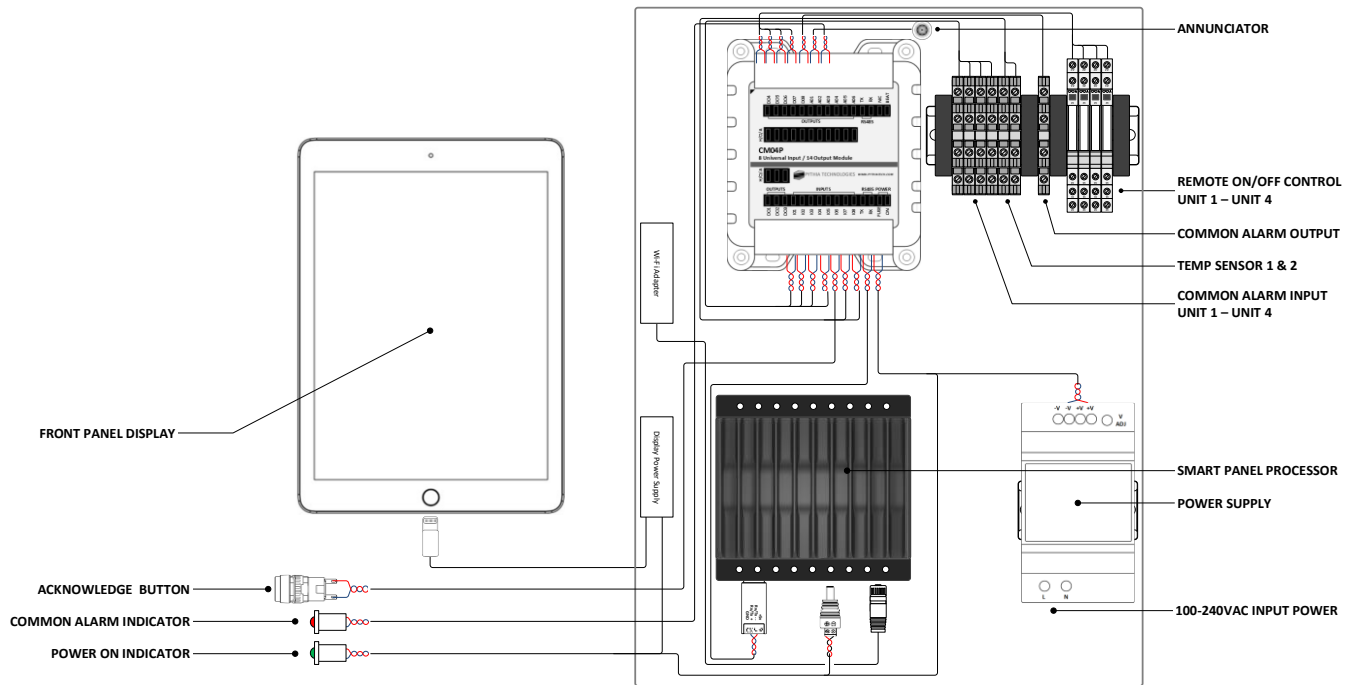
Smart Panel – AC4
Version 1.0 - 06/2022

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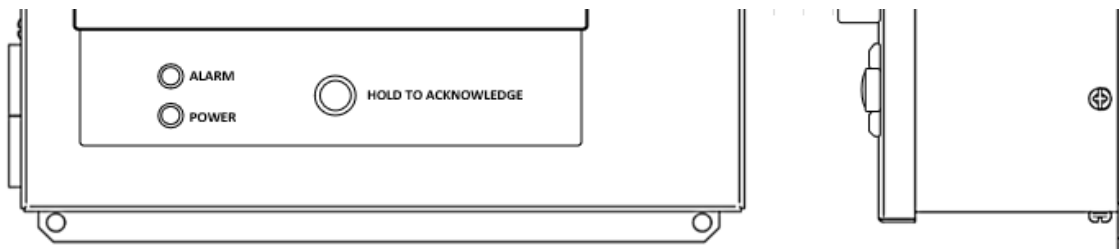
1. GETTING STARTED

1.1 SMART PANEL (SP-AC4) COMPONENTS:



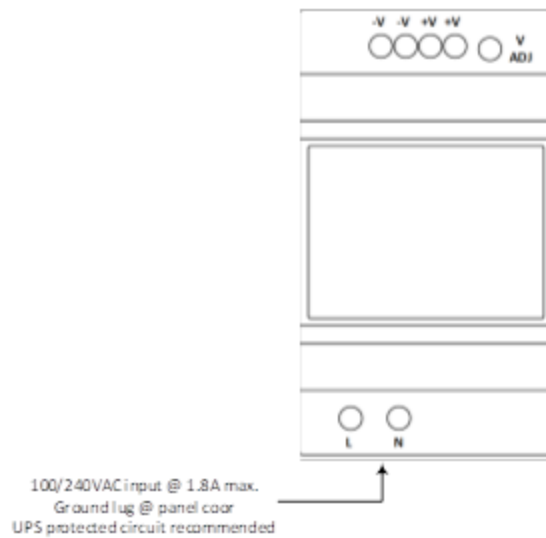
1.2 MOUNTING THE ENCLOSURE

The Smart Panel-AC4 enclosure has a metal flange top and bottom for surface mounting. The panel weighs approximately 20lbs.



1.3 POWER CONNECTION

The Smart Panel-AC4 contains a 100/240-volt power supply that is in the lower left-hand section of the panel. Installers will find the power supply with labeling for Line, Neutral and Ground. The power supply will draw a maximum of 1.8 Amps, so a standard 15 Amp outlet will suffice.



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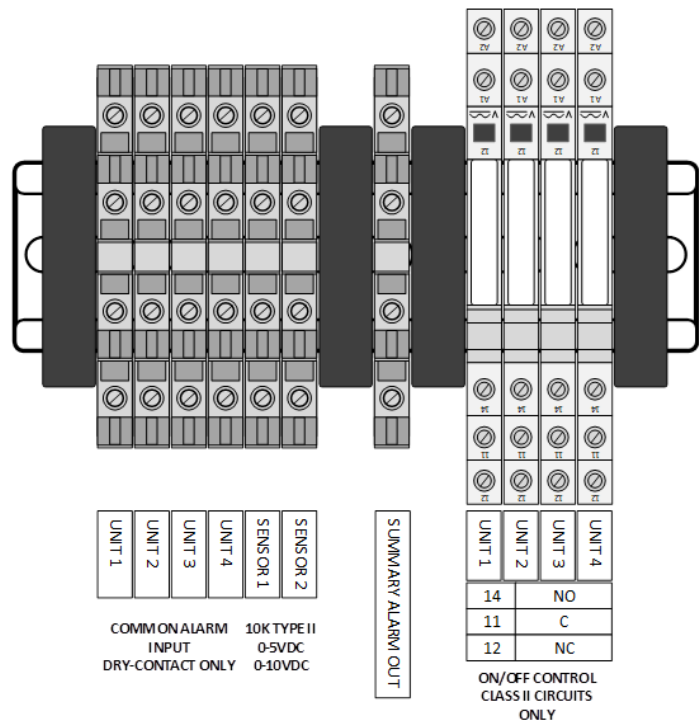
1.4 LOW VOLTAGE CONNECTIONS:

Input:

Dry-contact (volt-free) summary alarm contact from unit.
Analog sensors for staging feature
Compatibility: Type II 10k (1ea. Included), 0-5vdc, 0-10vdc, 2-wire compatible.

Output:

Output Control relays for unit control. Normally Open / Normally Closed contacts rated @ 250VAC/6A, 30VDC/6A



2. CONFIGURING THE SMART PANEL

Note: The following instructions are shown from a web browser standpoint. Users with the optional touch panel display (iPad) on the front of the Smart Panel can chose to follow the steps noted in this section or use the front display. All views / settings are comparable in appearance.

2.1 DEFAULT IP ADDRESS

Users will always connect to Port 0 network interface port on the bottom of the Smart Panel processor. Configure your laptop or desktop PC with an address within the same subnet as noted below.



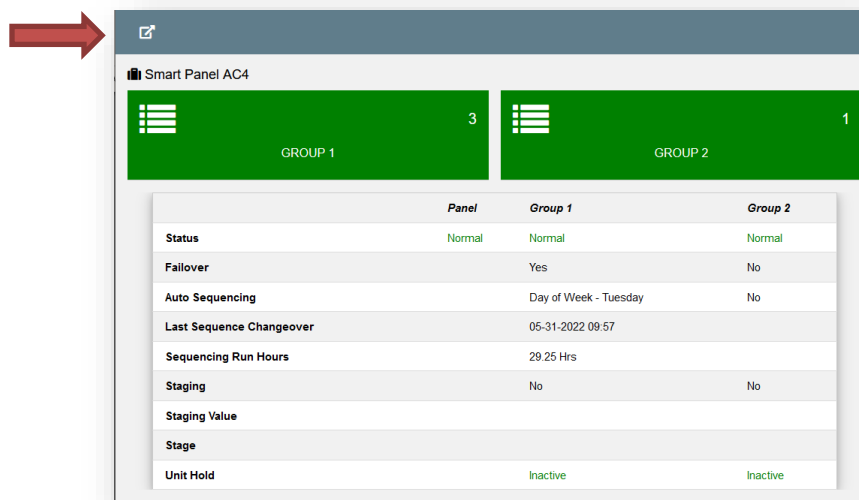
	SMART PANEL (PORT 0)	YOUR PC (EXAMPLE)
IP ADDRESS	192.168.0.221	192.168.0.100
SUBNET	255.255.0.0	255.255.0.0
GATEWAY	192.168.0.254	192.168.0.254

2.2 DEFAULT USERNAME AND PASSWORD

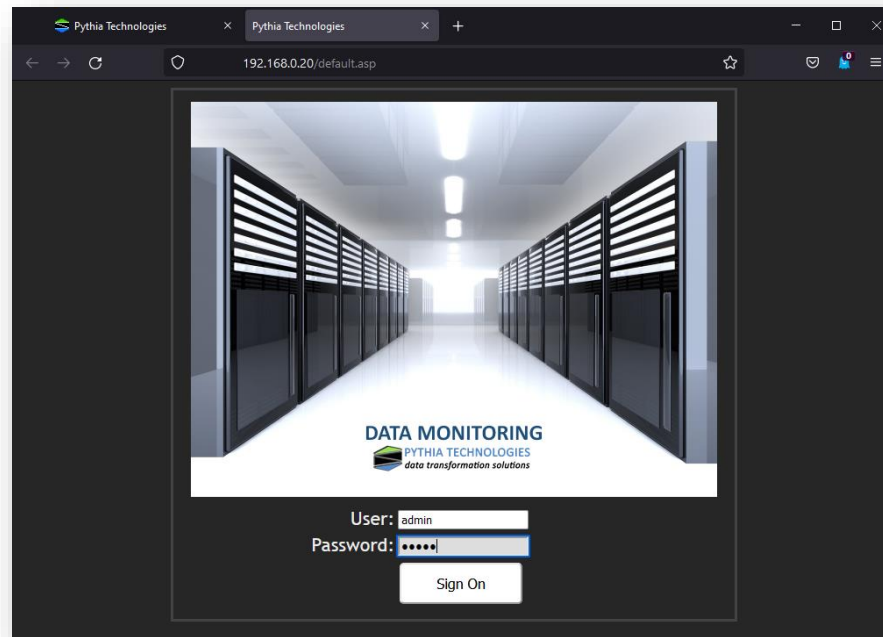
- The default username: “admin”
- The default password is “admin”

2.3 OPEN A WEB BROWSER SESSION

In the address bar type: 192.168.0.221 and a similar screen to following should appear. Note: If web page does not appear, check your network settings, cable, etc.) Select the icon shown below. This will take you to the main console.

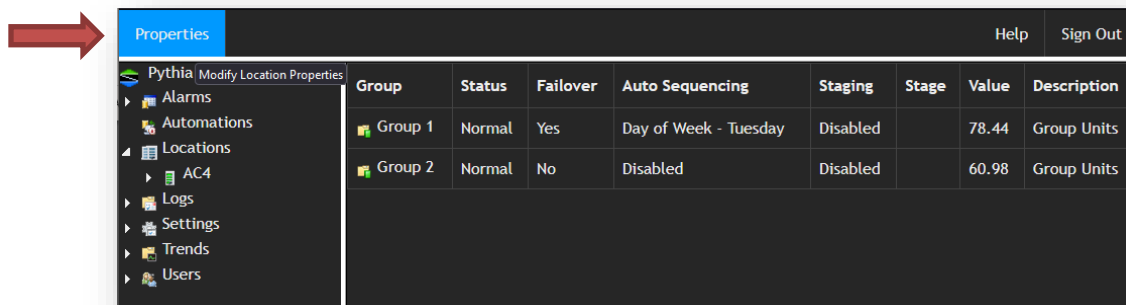


The following web page should appear. Default Username = “admin” and Password = “admin”



2.4 SMART PANEL GLOBAL SETTINGS

From the left-hand navigation tree, expand the “Locations” container and then click on the AC4 container. The Properties button in the upper left of the screen will take you to the global settings page of the Smart Panel.



DEFINITIONS:

Code: This field may be used to distinguish a facility, room, or area for the location of the Smart Panel

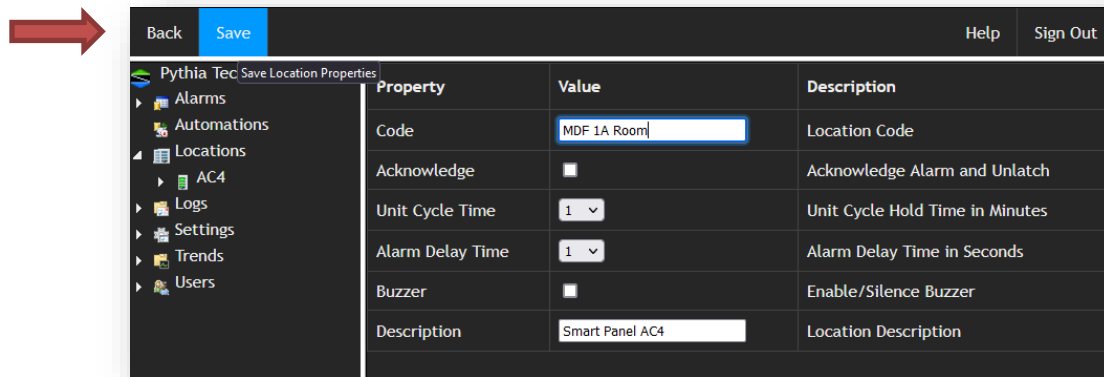
Acknowledge: This field allows you to remotely acknowledge alarms and unlatch control relays

Unit Cycle Time: This entry in this field is used whenever a system change occurs. This field dictates the number of minutes that the Common Alarm Inputs are ignored. This is intended to help room stabilization during failover, changeover, and other events.

Alarm Delay Time: This is the wait period between when an alarm occurs at the panel and when the panel acts.

Buzzer: This field allows users to remotely enable / disable the alarm annunciator as well as silence the annunciation.

Description: User preference.



Property	Value	Description
Code	MDF 1A Room	Location Code
Acknowledge	<input type="checkbox"/>	Acknowledge Alarm and Unlatch
Unit Cycle Time	1	Unit Cycle Hold Time in Minutes
Alarm Delay Time	1	Alarm Delay Time in Seconds
Buzzer	<input type="checkbox"/>	Enable/Silence Buzzer
Description	Smart Panel AC4	Location Description

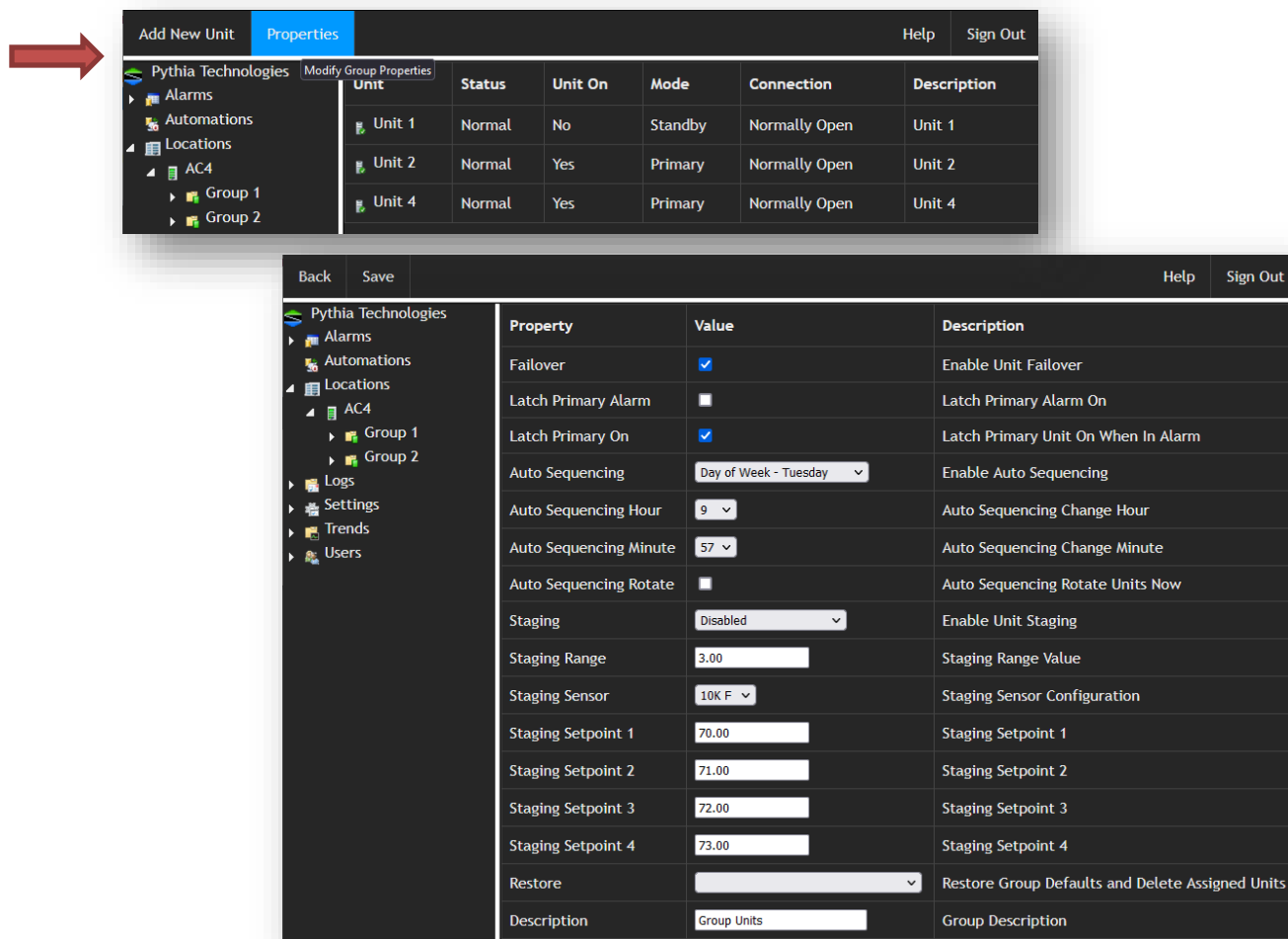
Select the "Save" button in the upper left of the screen when complete.

2.5 ASSIGNING GROUP PROPERTIES

A Group is a container where the properties are defined for Failover, Auto-changeover and Staging. Units assigned with the Group will have the same operational properties.

Ultimately, a Group must have more than (1) Unit and may have a maximum of (4) Units assigned.

Access Groups by expanding Locations\AC4 and select Group 1 or Group 2. To edit the Group properties, select the Properties button in the upper left of the screen.



The screenshot shows the 'Properties' tab for a group. The sidebar on the left shows a tree view of the system structure: Pythia Technologies > Locations > AC4 > Group 1. The main table displays the properties for the selected group.

Unit	Status	Unit On	Mode	Connection	Description
Unit 1	Normal	No	Standby	Normally Open	Unit 1
Unit 2	Normal	Yes	Primary	Normally Open	Unit 2
Unit 4	Normal	Yes	Primary	Normally Open	Unit 4

Property	Value	Description
Failover	<input checked="" type="checkbox"/>	Enable Unit Failover
Latch Primary Alarm	<input type="checkbox"/>	Latch Primary Alarm On
Latch Primary On	<input checked="" type="checkbox"/>	Latch Primary Unit On When In Alarm
Auto Sequencing	Day of Week - Tuesday	Enable Auto Sequencing
Auto Sequencing Hour	9	Auto Sequencing Change Hour
Auto Sequencing Minute	57	Auto Sequencing Change Minute
Auto Sequencing Rotate	<input type="checkbox"/>	Auto Sequencing Rotate Units Now
Staging	Disabled	Enable Unit Staging
Staging Range	3.00	Staging Range Value
Staging Sensor	10K F	Staging Sensor Configuration
Staging Setpoint 1	70.00	Staging Setpoint 1
Staging Setpoint 2	71.00	Staging Setpoint 2
Staging Setpoint 3	72.00	Staging Setpoint 3
Staging Setpoint 4	73.00	Staging Setpoint 4
Restore		Restore Group Defaults and Delete Assigned Units
Description	Group Units	Group Description

DEFINITIONS:

Failover: This field dictates enabling / disabling the feature.

Latch Primary Alarm: When enabled, this action requires that the user will need to acknowledge the event before the alarm lamp will clear.

Latch Primary On: When enabled, the Primary unit will continue to run while in alarm.

Auto Sequencing: This field dictates enabling / disabling the feature. Users can select Day of the Week, Day of the Month, or Number of Days

Auto Sequencing Hour: This field dictates the hour of the day that changeover occurs (0-24).

Auto Sequencing Minute: This field dictates the minute of the day that changeover occurs (0-59).

Auto Sequencing Rotate: This parameter will initiate a manual changeover. The original settings will not change.

Staging: This field dictates enabling / disabling the feature.

Staging Range: This field dictated the hysteresis value once a threshold is crossed.

Staging Sensor: Users can select the sensor type (Type II 10K in F/C, 0-5, 0-10)

Staging Setpoint 1-4: Users can enter the threshold values.

Restore: This function sets Group X back to factory defaults.

Description: Allows the users to identify a group name

Select the “Save” button in the upper left of the screen when complete

2.6 ADDING A UNIT TO A GROUP

The term Unit is referred to as the device you want to control. By default, units are labeled Unit-1 through Unit-4. Since we have Group 1 selected by the previous example, this step dictates that we will be adding a unit to Group 1. There is an opportunity to name the unit in the description field for the device.

Unit	Status	Unit On	Mode	Connection	Description
Unit 1	Normal	No	Standby	Normally Open	Unit 1
Unit 2	Normal	Yes	Primary	Normally Open	Unit 2
Unit 4	Normal	Yes	Primary	Normally Open	Unit 4

Property	Value	Description
Unit	Unit 1 ▾	Unit Identifier
Mode	Off ▾	Enable Unit
Connection	Normally Open ▾	Unit Relay Connection
Description	<input type="text"/>	Unit Description

DEFINITIONS:

Unit: Use the pull-down to select the desired unit. *Note: Unit 1 refers to Summary Input 1, and Output Relay 1.*

Mode: OFF/ON = Forced ON/OFF, Standby or Primary

Connection: This selection must match your physical wiring at the output relay – select Normally Open or Closed

Description: The actual Unit Name can be entered here.

Select the “Save” button in the upper left of the screen when complete. Upon saving you will see the unit appear under the Group container.

Continue to add more units in the same manner.

2.7 EDITING UNITS AND GROUPS

An individual Unit can only be in Group 1 or Group 2. If the desired unit is in the wrong Group, or if changes must be made to move a unit from one Group to another Group – the Unit must first be deleted from the present Group, and then added to the proper Group.

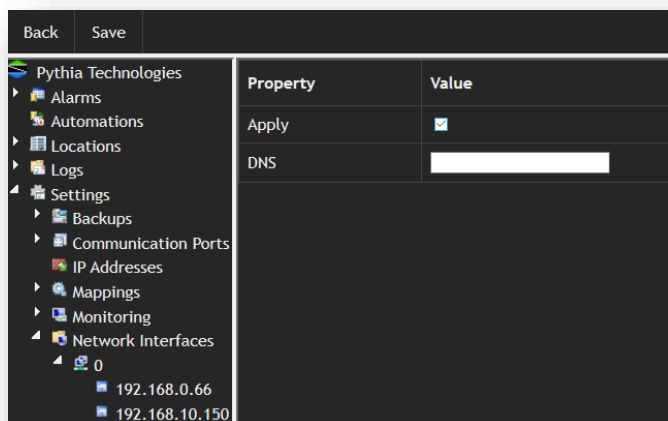
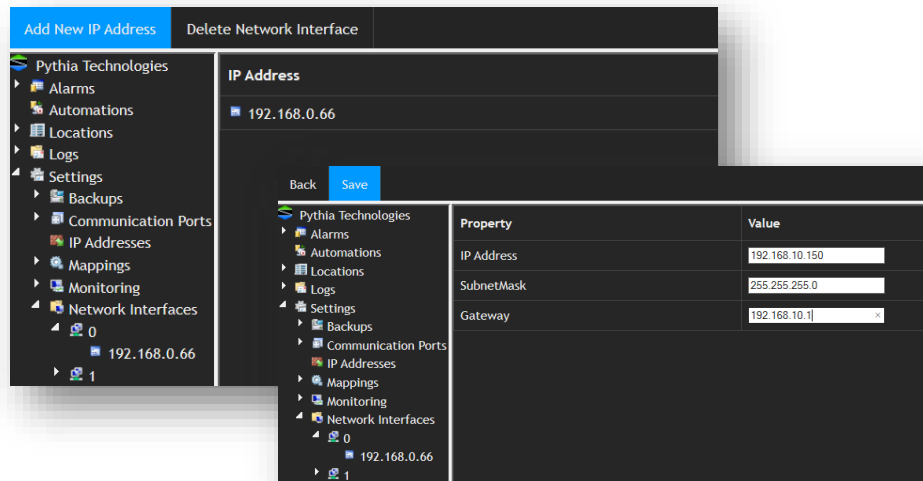
Select the desired Unit under Group 1 / 2, then select the Delete Unit button in the upper left of the screen.

2.8 CHANGING THE IP ADDRESS OF THE SMART PANEL

Ensure that you are plugged into network jack labeled Port 0 before proceeding.

Navigate to Settings / Network Interfaces and click on "0." Select THE Add New IP Address button from the top left of the screen.

Modify the properties as required and select the Save button when complete. Once the IP address is Saved, you should see it in the list under Port 0. More than (1) IP address can be assigned to the port, so the default address can remain, or be deleted..



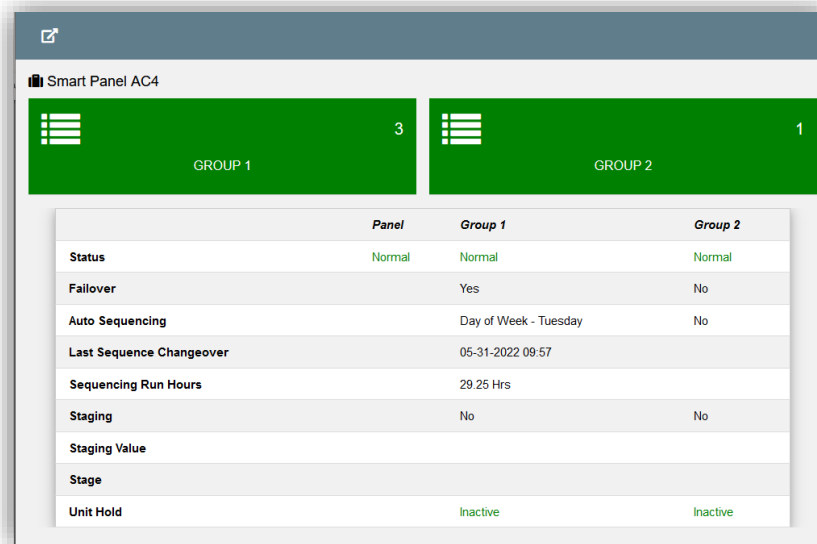
IMPORTANT: Once the Save action is complete, the Smart Panel must be restarted for the new IP address can be assigned to the port. Navigate to Settings / Network Interfaces and click Properties from the upper left of the screen. Select the Apply checkbox, then Save. The Smart Panel will now restart. The Smart Panel should be online within 60 seconds.

3. NAVIGATION – FRONT PANEL DISPLAY

The front panel display is an Apple iPad. The Safari web browser application is configured to go directly to the web site of the SP-AC4 processor. If navigation is ever lost, user can simply reopen the Safari application and restore functionality.

3.1 MAIN SCREEN

The Main Screen will provide insight on the SP-AC4 status as well as the operating conditions of the panel. From this point, user will be able to navigate inward using the touch display to review the status of the individual Groups as well as Units.



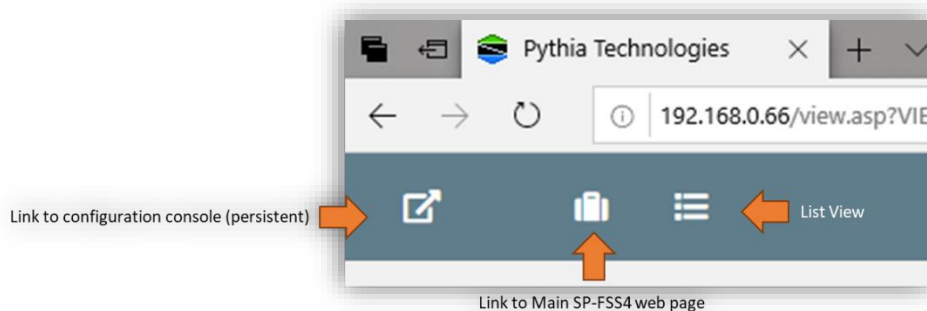
	Panel	Group 1	Group 2
Status	Normal	Normal	Normal
Fallover		Yes	No
Auto Sequencing		Day of Week - Tuesday	No
Last Sequence Changeover		05-31-2022 09:57	
Sequencing Run Hours		29.25 Hrs	
Staging		No	No
Staging Value			
Stage			
Unit Hold		Inactive	Inactive

3.2 NAVIGATION BAR

The navigation bar can be found just under the address bar of the web browser as shown below.

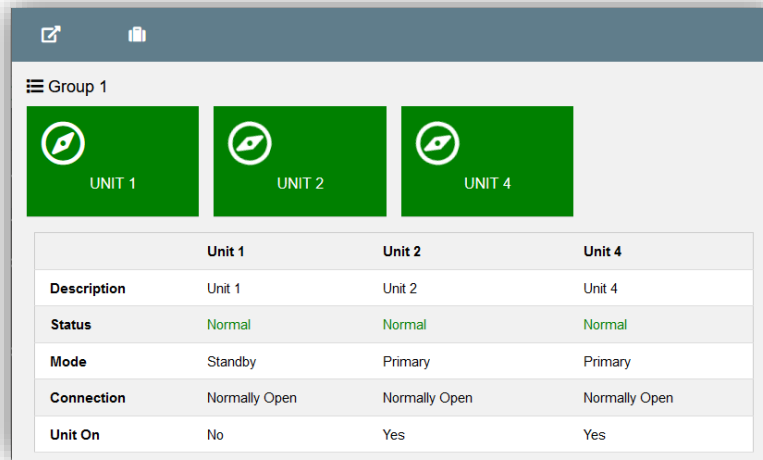
The icon to the far left is persistent and will link you to the main configuration console. This link will open a new window or tab, so you will not lose your place in the web application.

The icons to the right, will vary depending on where you are located within the web page and represent how deep you are in the application. The icons can be viewed a graphical representation of what you have open (window) and allows you to navigate backwards.



3.3 ACCESSING GROUP DATA

Group data can be accessed by selecting the Group 1 or Group 2 icon at the top of the screen, just under the Navigation bar.

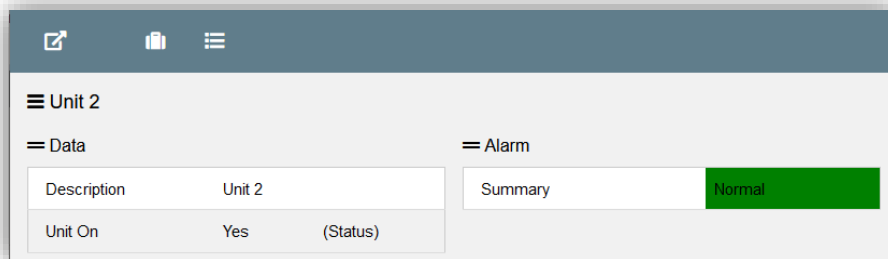


Group 1

	Unit 1	Unit 2	Unit 4
Description	Unit 1	Unit 2	Unit 4
Status	Normal	Normal	Normal
Mode	Standby	Primary	Primary
Connection	Normally Open	Normally Open	Normally Open
Unit On	No	Yes	Yes

3.4 ACCESSING UNIT DATA

Unit data can be accessed by selecting the Unit icon at the top of the screen.



Unit 2

Data		Alarm
Description	Unit 2	Summary
Unit On	Yes (Status)	Normal