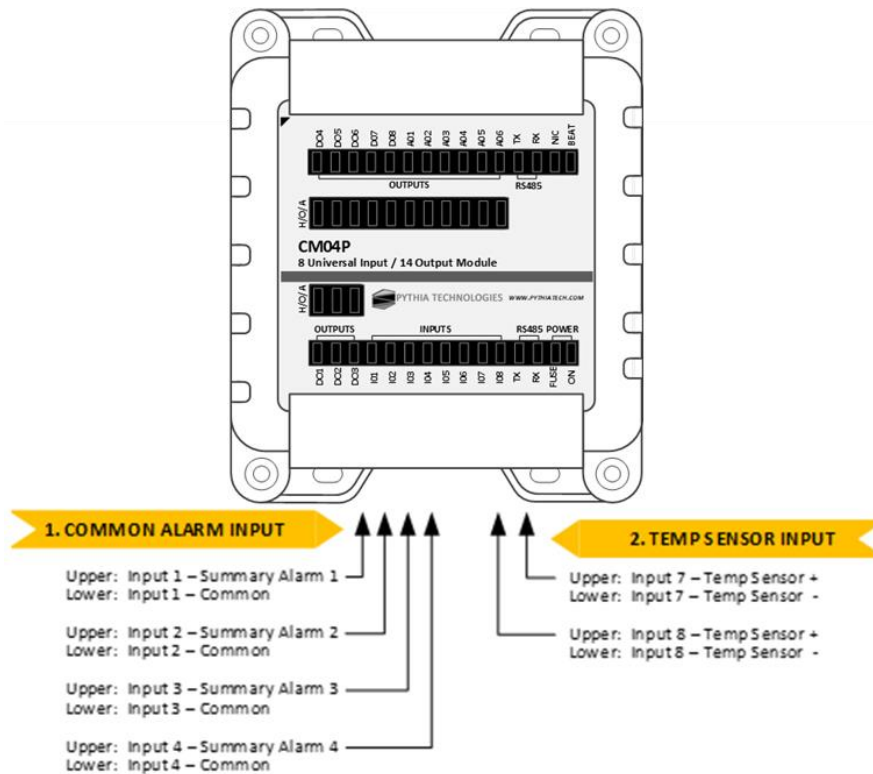


# QUICK START GUIDE

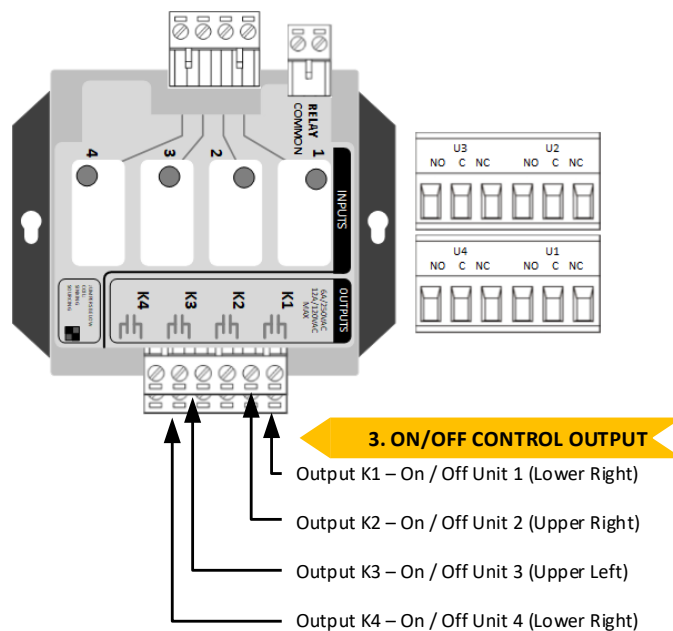
## Smart Panel FSS4

Version 2.0 - 12/2020

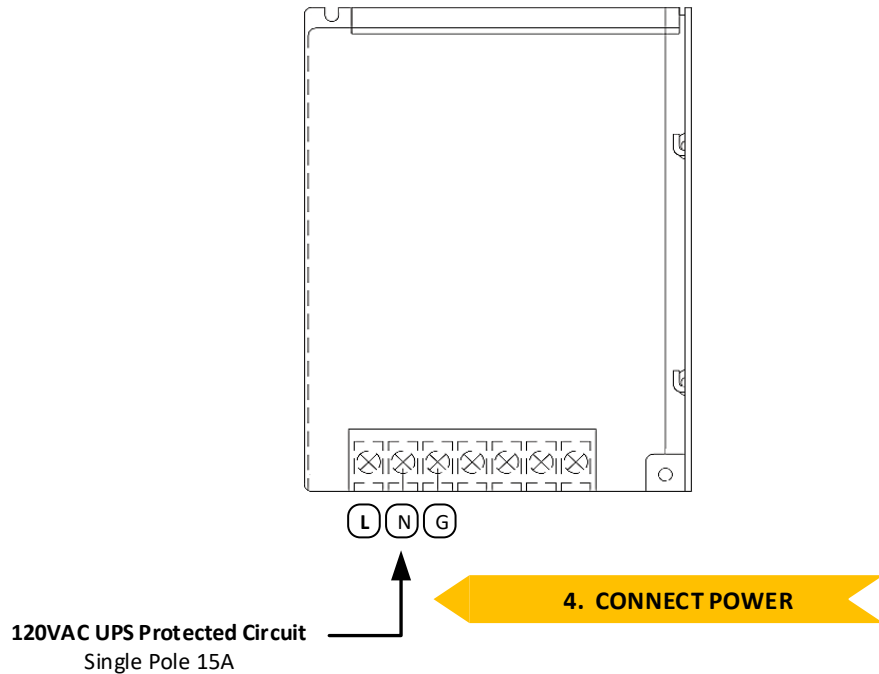
**INPUT CONNECTIONS:** Dry-contact (voltage-free) summary alarm contact from unit. Temperature sensors for staging feature are thermistor 10k type II compatible.



**OUTPUT CONNECTIONS:** “Fail ON” units should be connected to common and normally closed contact.



**POWER CONNECTION:** SP-FSS4 will automatically start when power is applied. Within (1) minute, the front panel display will be active.



## 1. 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 choose to follow the steps noted in this section or use the front display. All views / settings are comparable in appearance.*



### 1.1 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.

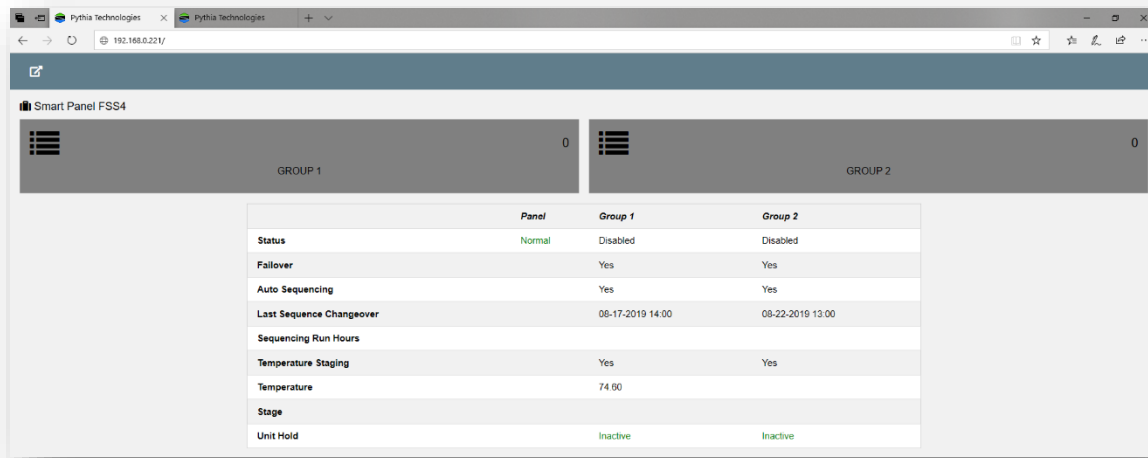
	SMART PANEL (PORT 0)	YOUR PC (EXAMPLE)
IP ADDRESS	192.168.0.221	192.168.0.100
SUBNET	255.255.0.0	255.255.0.0
GATEWAY	192.168.0.254	192.168.0.254

### 1.2 DEFAULT USERNAME AND PASSWORD

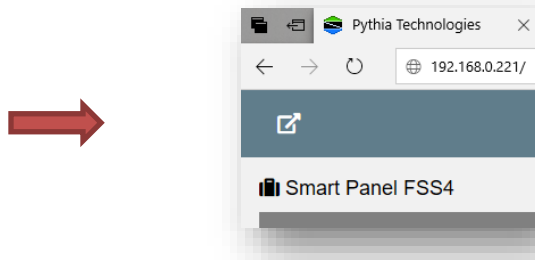
- The default username: "admin"
- The default password is "admin"

### 1.3 OPEN A WEB BROWSER SESSION

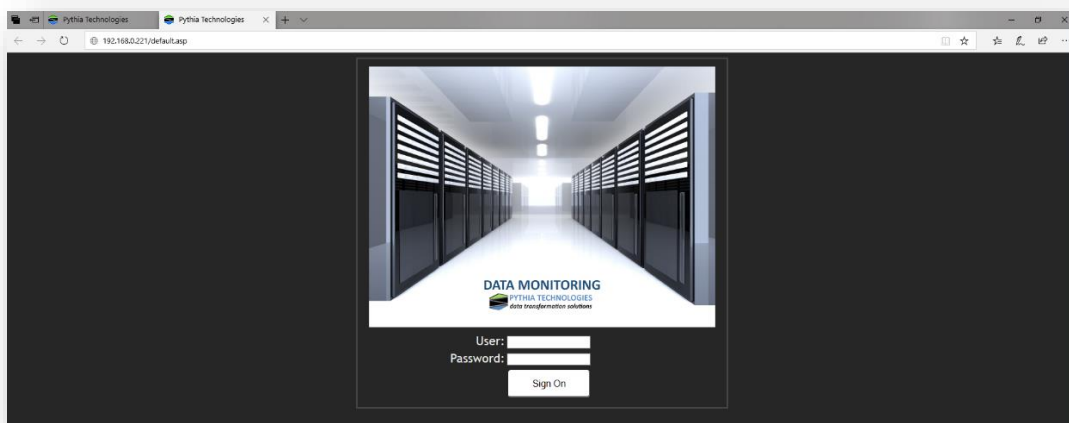
In the address bar type: 192.168.0.221 and a similar screen to following should appear. Note: If web page does not appear, check your network setting, cable, etc.)



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"



### 1.3.1 SMART PANEL GLOBAL SETTINGS

From the left-hand navigation tree, expand the “Locations” container and then click on the SPFS4 container. The Properties button in the upper left of the screen will take you to the global settings page of the Smart Panel.

Properties				
<ul style="list-style-type: none"> <li>Pythia Technologies</li> <li>Alarms</li> <li>Automations</li> <li>Locations               <ul style="list-style-type: none"> <li>SPFS4</li> </ul> </li> <li>Logs</li> <li>Settings</li> <li>Trends</li> <li>Users</li> </ul>	Group	Status	Failover	Auto Sequen
	Group 1	Normal	Yes	Yes
	Group 2	Normal	Yes	Yes

#### DEFINITIONS:

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

**Unit Minimum Runtime:** This field dictates that minimal amount of time that a unit will run when commanded. This is intended to keep units from cycling on/off within short periods.

**Unit Off-On Delay:** This field dictates how long a unit must be Off, before being able to be turned back on. This is intended to keep units from cycling on/off within short periods.

**Unit Hold 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.

**Buzzer:** This field allows users to enable / disable the alarm annunciator

**Description:** User preference.

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

<div>Back Save</div>			
<ul style="list-style-type: none"> <li>Pythia Technologies</li> <li>Alarms</li> <li>Automations</li> <li>Locations               <ul style="list-style-type: none"> <li>SPFS4</li> </ul> </li> <li>Logs</li> <li>Settings</li> <li>Trends</li> <li>Users</li> </ul>	Property	Value	Description
	Code	<input type="text"/>	Location Code
	Unit Minimum Runtime	2 <input type="text"/>	Unit Minimum Runtime in Minutes
	Unit Off-On Delay	3 <input type="text"/>	Unit Cycle Off-On Delay in Minutes
	Unit Hold Time	5 <input type="text"/>	Unit Change State Hold Time in Minutes
	Buzzer	Enabled <input type="text"/>	Enable/Silence Buzzer
	Description	Smart Panel FSS4 <input type="text"/>	Location Description

### 1.3.2 ASSIGNING GROUP PROPERTIES

A Group is a container where the properties are defined for Failover, Auto-changeover and Temperature 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\SPFSS4 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 contains a tree view with the following structure:

- Pythia Technologies
  - Alarms
  - Automations
  - Locations
    - SPFSS4
      - Group 1
      - Group 2
  - Logs
  - Settings
  - Trends
  - Users

The main panel displays a table of properties for the selected group:

Property	Value	Description
Failover	<input checked="" type="checkbox"/>	Enable Unit Failover
Auto Sequencing	<input checked="" type="checkbox"/>	Enable Unit Auto Sequencing
Auto Sequencing Start	14:00	Unit Auto Start Time
Auto Sequencing Time	168	Unit Auto Sequencing Time in Hours: (1 - 999)
Auto Sequencing Changeover	08-17-2019 14:00	Last Auto Sequencing Changeover Time
Temperature Staging	<input checked="" type="checkbox"/>	Enable Unit Temperature Staging
Temperature Setpoint 1	70	Temperature Staging Setpoint 1: (51 - 90)
Temperature Setpoint 2	70	Temperature Staging Setpoint 2: (51 - 90)
Temperature Setpoint 3	70	Temperature Staging Setpoint 3: (51 - 90)
Temperature Setpoint 4	60	Temperature Staging Setpoint 4: (51 - 90)
Description	Group 1 Units	Group Description

#### DEFINITIONS:

**Failover:** This field dictates enabling / disabling the feature.

**Auto Sequencing:** This field dictates enabling / disabling the feature.

**Auto Sequencing Start:** This field dictates the time of day that changeover occurs.

**Auto Sequencing Time:** This field dictates the number of hours between changeovers

*Note: The auto sequencing start and time work in conjunction with each other to determine when to swap running units. In the noted example, auto sequencing will occur the next time that 2pm occurs and then every 168 hours thereafter.*

*If a user wanted to specify a weekly auto sequence cycle, uncheck the Auto Sequencing enable property and select the desired start time and a duration of 168 hours, then Save. Within 24 hours of the desired changeover, users should enable the Auto Sequence function and Save. Meaning that the auto changeover cycle will start the next time the "start time" is reached.*

**Temperature Staging:** This field dictates enabling / disabling the feature.

**Temperature Staging Setpoints:** These fields dictate the temperature staging requirements.

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

### 1.3.3 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.

#### PROPERTY DEFINITIONS:

Property	Value
Unit	Unit 1
Enable	AUTO
Type	ACTIVE
Unit Relay	Normally Open
Description	

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

Enable: AUTO = Normal Operation, Unit may also be Forced ON/OFF.

Type: Choices are ACTIVE, or STANDBY.

Unit Relay: This field refers to how the unit is wired on at the Output Relay Contact. *Note: This setting must match the wiring for proper operation.*

Description: The actual Unit Name can be entered here.

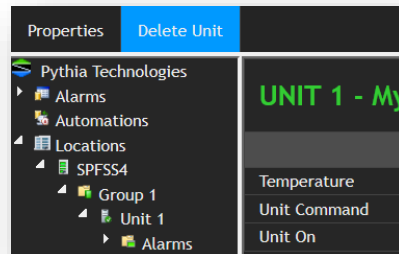
**Select the "Save" button in the upper left of the screen when complete. Upon saving you will see the unit appear under the Group container.**

Continue to add more units in the same manner.

### 1.3.4 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.

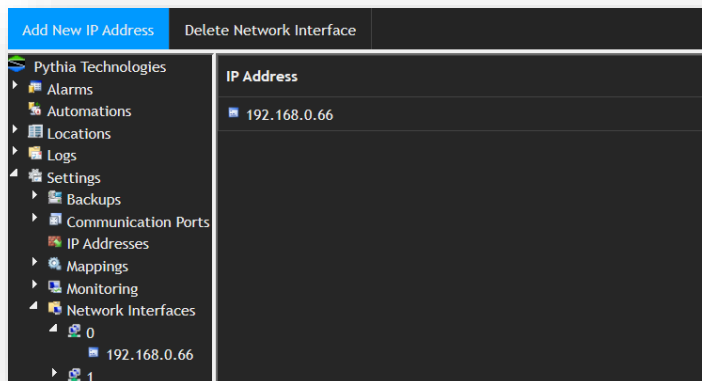
Select the desired Unit under Group 1 / 2, then select the Delete Unit button in the upper left of the screen.



### 1.4 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 – user preference.

The screenshot shows the 'Settings' menu with 'Network Interfaces' selected. Under 'Network Interfaces', '0' is selected. The 'Property' table shows the following values:

Property	Value
IP Address	192.168.10.150
SubnetMask	255.255.255.0
Gateway	192.168.10.1

**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.

The screenshot shows the 'Settings' menu with 'Network Interfaces' selected. Under 'Network Interfaces', '0' is selected. The 'Property' table shows the following values:

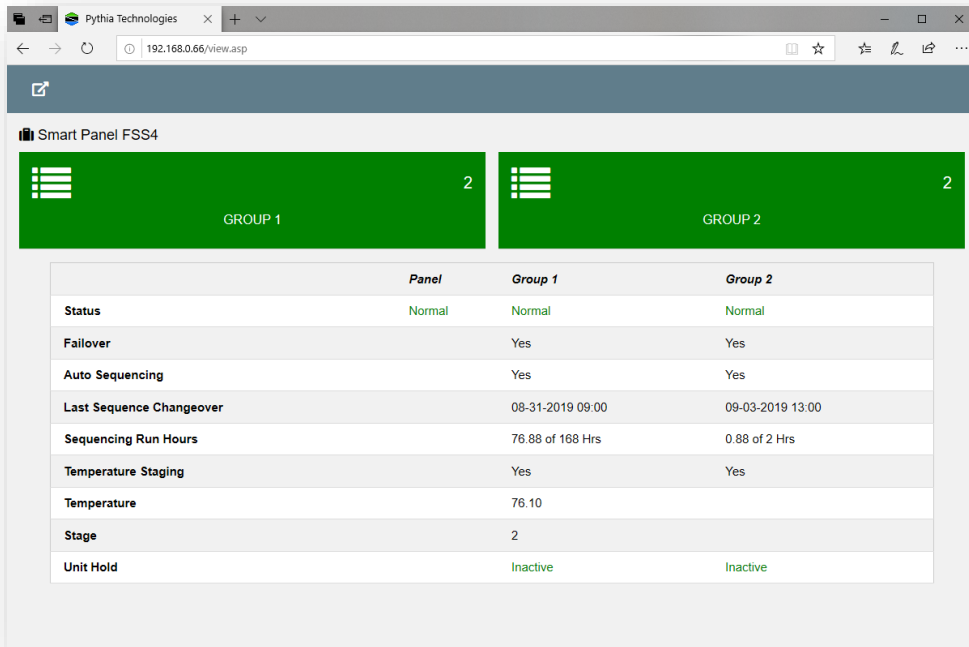
Property	Value
Apply	<input checked="" type="checkbox"/>
DNS	

## 2. 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-FSS4 processor. If navigation is ever lost, user can simply reopen the Safari application and restore functionality.

### 2.1 MAIN SCREEN

The Main Screen will provide insight on the SP-FSS4 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.



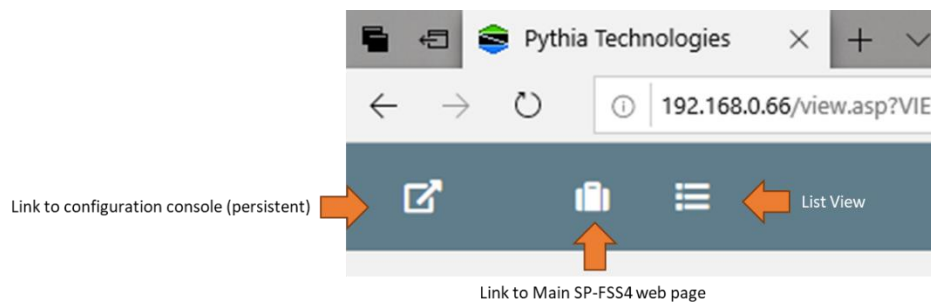
	Panel	Group 1	Group 2
Status	Normal	Normal	Normal
Failover		Yes	Yes
Auto Sequencing		Yes	Yes
Last Sequence Changeover		08-31-2019 09:00	09-03-2019 13:00
Sequencing Run Hours		76.88 of 168 Hrs	0.88 of 2 Hrs
Temperature Staging		Yes	Yes
Temperature		76.10	
Stage		2	
Unit Hold		Inactive	Inactive

### 2.1.1 NAVIGATION BAR

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

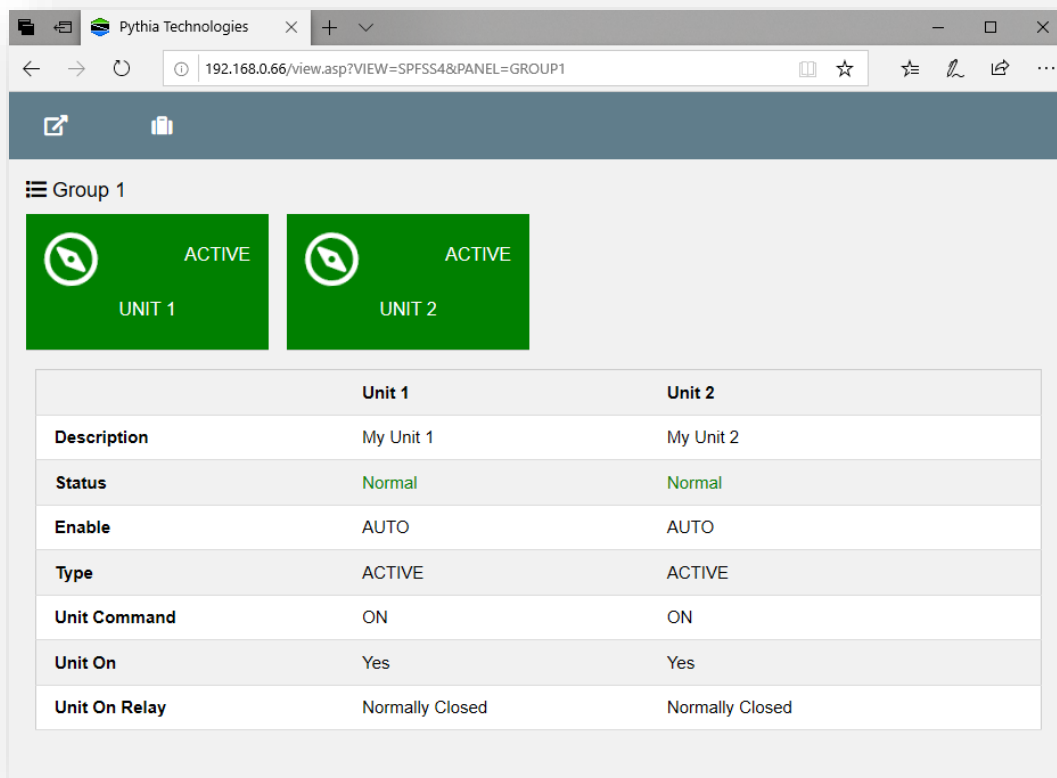
The icon to the far left is persistent and will link you to the main configuration console. This link will open a new window or tab, so you will not lose your place in the web application.

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.



### 2.1.2 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.



### 2.1.3 ACCESSING UNIT DATA

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

Pythia Technologies

192.168.0.66/view.asp?VIEW=SPFSS4&PANEL=GROUP1UNIT1

Unit 1

Data

Description	My Unit 1
Unit On	Yes (Status)
Unit Command	ON (Status)

Alarm

Summary

Normal