



Siren / Strobe Sensor STR00 User Manual



Help Version updated till firmware 404j / SP456
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What is a Siren / Strobe Sensor

The Siren / Strobe sensor is a combination sensor that emits a loud piercing sound and a visual blinking strobe light. It makes an important addition to security and safety. These Siren / Strobes are easy to install and configure.

Located at data center entrances, in security areas or at remote sites to alert personnel to trouble or identify intruders are just three examples of how the Siren / Strobe sensors can be utilized.

The Siren / Strobe can be activated manually or triggered by any other sensor connected to the AKCP base units. Linking the siren / strobe sensors to AKCess Pro's IR motion sensors or IR parameter beam sensors is two good examples of how these can be used in a security environment.

Also linking the Siren / Strobe sensors to AKCess Pro's Smoke Sensors or water sensors is yet two further examples of how the sensors can be used in environmental alerting.

This sensor cannot be used as a standalone sensor.

AKCP also offers a weather proof outdoor Siren / Strobe sensor. Please see the separate product manual for this sensor.

Siren / Strobe Sensor OIDs

For normal state, return value = 2

For alarm state, return value = 4

The value of the Status for the OID for switch sensors can be Normal, No Status, Critical, or sensorError.

A popular OID for Siren Strobe Sensors is the status. For RJ45#1, it is **.1.3.6.1.4.1.3854.1.2.2.1.18.1.3.0**

You can also control the siren / strobe sensor using the following SNMP set commands;

You can turn on and off the siren strobe with this command below:

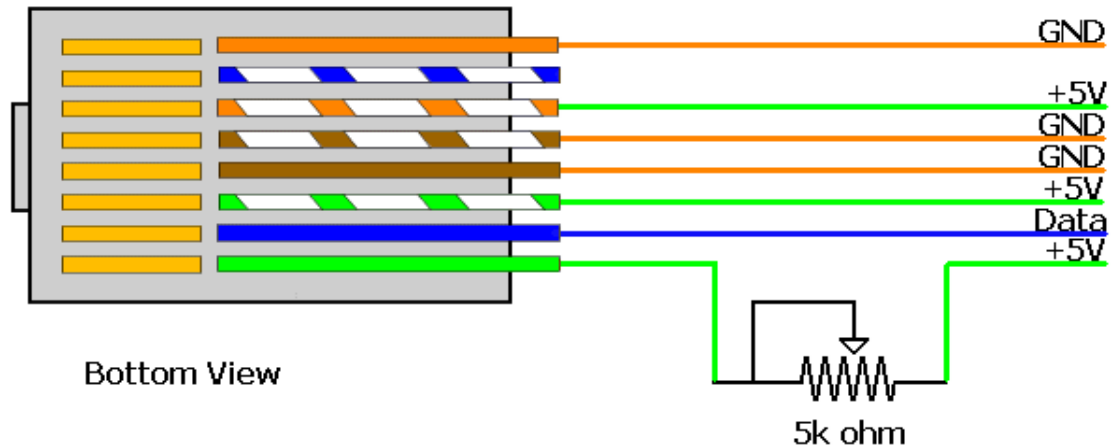
```
snmpset -m all -v 1 -c <community> <IPaddress>  
.1.3.6.1.4.1.3854.1.2.2.1.18.1.25.<port> i <option>
```

When the option is

- 1 = allow-sensor-control
- 8 = cycle-On-Off-On
- 7 = cycle-Off-On-Off
- 3 = turn-on
- 4 = turn off

Adjusting the volume or disabling the Siren

Siren and Strobe Light Wiring Diagram



The diagram above shows the bottom view of the RJ-45 connector that connects to the base units RJ-45 sensor port. You can wire in line a 5 ohm potentiometer (pot) with the siren, then it would be possible to adjust the volume or turn off the siren completely.

Features:

- On/Off visual and audio alarm from the Siren / Strobe
- Alarm Sound : 100±3db@100cm
- Strobe Flash Frequency : _400 Times/Minute
- Light Source : Super bright LEDs x8
- Dimension : 72×123×45 mm
- Sensor type - open/closed contact switch
- Power source: powered by the unit. No additional power needed.
- The unit auto detects the presence of the Siren / Strobe
- Maximum cable extension run length: 30 meters or 100 feet.

Configuring the Siren / Strobe Sensor

a) Plug the sensor into one of the RJ45 ports on the rear panel of the unit.

b) Now point your browser to the IP address of the unit (default, 192.168.0.100). Next you need to login as the administrator using your administrator password (default is “public”). You will then be taken to the summary page.

c) From the summary page you need to select the sensors tab. The layout of the next page will vary depending on your unit so please refer to your unit's manual.

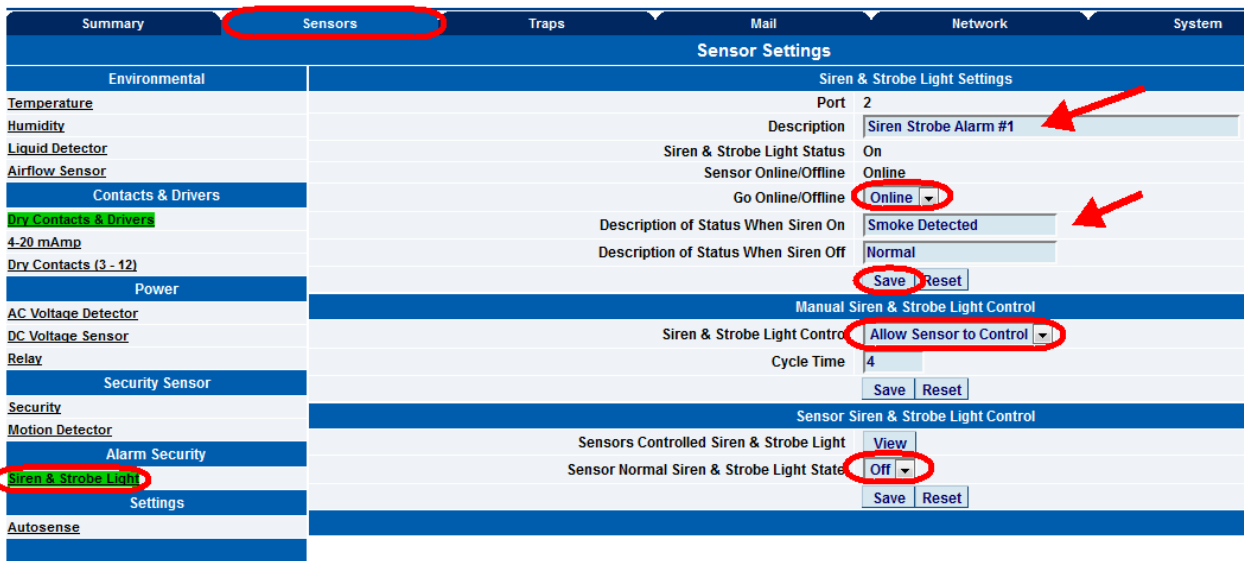
Now we will cover the settings that are specific to your sensor.

Status: If the sensor is offline the status is No Status. If the sensor is online and the Siren / Strobe sensor is off the status is Normal. If the Siren / Strobe is triggered or manually turned on then the status is Critical. If at any time communications with the Siren / Strobe is lost, the status of the Siren / Strobe is changed to sensor Error.

Note: see below for exact steps for configuring the Siren / Strobe Sensors on your base unit.

sensorProbe base units

Plug the Siren / Strobe Sensor to RJ45 port.



Then log in to the sensorProbe's web interface as the administrator, navigate to the Sensors page, click on the Siren & Strobe Light link in the Alarm Security column on the left of the screen. Now ensure that the "Go Online\Offline" option is set to Online. You can now rename your Siren / Strobe to whatever you wish. You can also rename the Descriptions to match what sensor will trigger the Siren / Strobe. You would then save your settings as shown in the screen shot above.

If you will have the Siren / Strobe sensor that will be triggered by another sensor connected to your sensorProbe base unit, then you will need to make sure the "Allow Sensor to Control" is selected in the Manual Siren & Strobe Light Control area as shown in the screen shot above.

You can also set in which state the sensor will be in the Normal State and also View the sensors that are linked with your Siren / Strobe.

Traps	Mail	Network	System
Sensor Settings			
Siren & Strobe Light Settings			
Port	2		
Description	Siren Strobe Alarm #1		
Siren & Strobe Light Status	Siren Off		
Sensor Online/Offline	Online		
Go Online/Offline	Online ▾		
Description of Status When Siren On	Siren On		
Description of Status When Siren Off	Siren Off		
<input type="button" value="Save"/> <input type="button" value="Reset"/>			
Manual Siren & Strobe Light Control			
Siren & Strobe Light Control	Allow Sensor to Control ▾		
Cycle Time	Allow Sensor to Control Cycle Siren On-Siren Off-Siren On Cycle Siren Off-Siren On-Siren Off		
Sensor S	Siren On Siren Off		
Sensors Controlled Siren & Strobe Light	view		
Sensor Normal Siren & Strobe Light State	Siren Off ▾		
<input type="button" value="Save"/> <input type="button" value="Reset"/>			

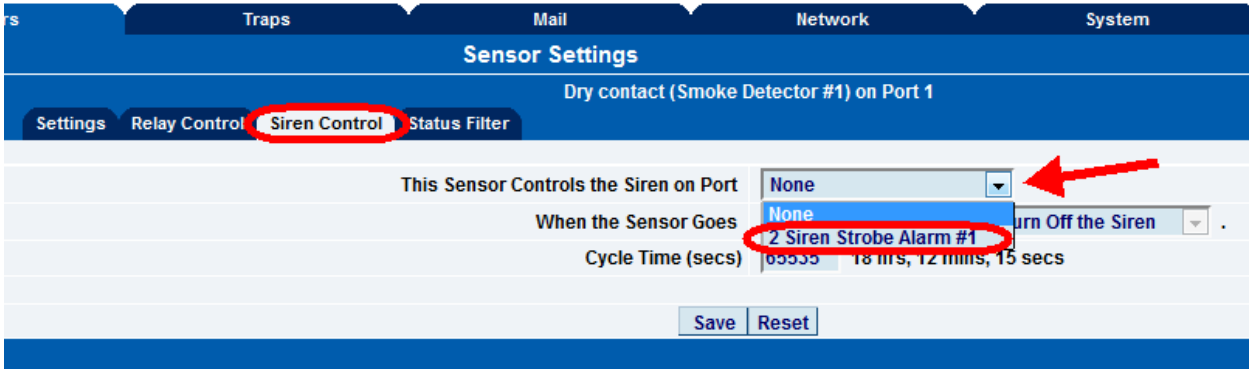
By choosing either the Siren On or Siren Off from the drop down list you are able to manually control the sensor from the web interface.

Linking the Siren / Strobe To Another Sensor

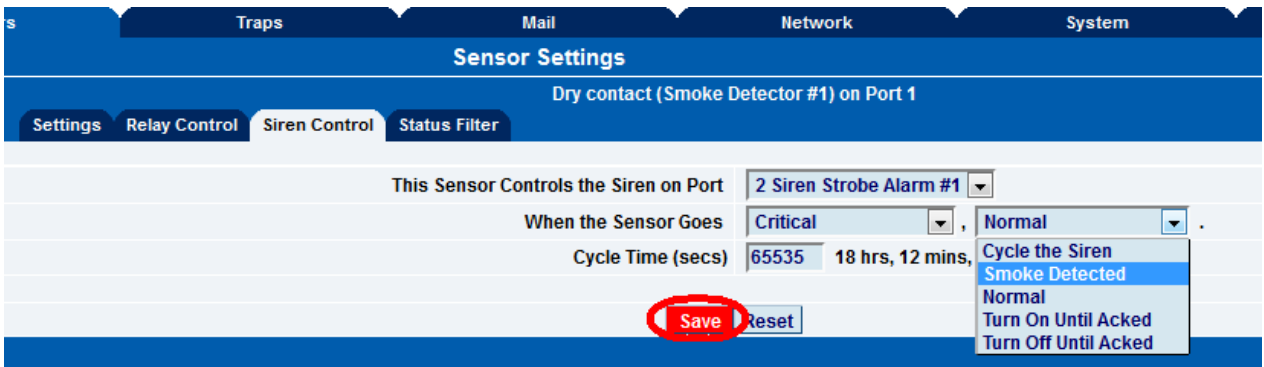
In this segment we will describe how to link your Siren / Strobe Sensor to another sensor that is connected to your base unit. In this example we will use our AKCess Pro Smoke Sensor that has been previously setup on the sensorProbe. Please see the user manual for the Smoke Sensor for more information on how to setup this sensor.

Summary	Sensors	Traps	Mail	Network
Sensor Settings				
Environmental	Please select a Dry contact Sensor to configure			
Temperature	Sensor Description			
Humidity	Smoke Detector #1			
Liquid Detector	Dry Contact Switch2 Description			
Airflow Sensor				
Contacts & Drivers				
Dry Contacts & Drivers				
4-20 mAmp				
Dry Contacts (3 - 12)				
Power				
AC Voltage Detector				
DC Voltage Sensor				
Relay				
Security Sensor				
Security				
Motion Detector				
Alarm Security				
Siren & Strobe Light				
Settings				
Autosense				

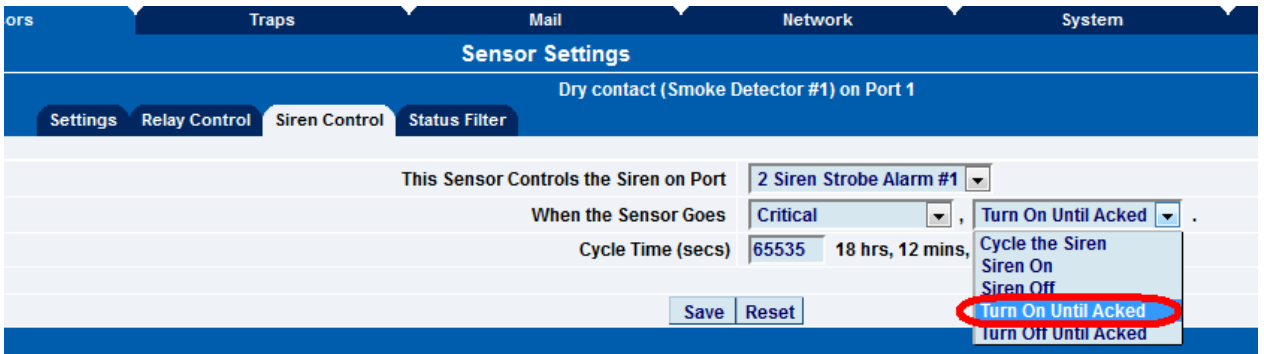
After connecting and setting up the Smoke Sensor on our sensorProbe unit we will click on the sensor link shown in the Sensor Settings page above.



We then click on the Siren Control tab for this sensor and then from the drop down menu we will select the port that our Siren / Strobe Sensor is connected to.



Next we will first choose the condition the sensor will be in when our Siren / Strobe will be triggered then choose what the Siren / Strobe will do, for example Turn On which in the example shown above we had re-named the On condition to Smoke Detected.



If we choose to Turn On Until Acked (or Acknowledged) as shown above.

Port	Type	Description	Reading	Status	Action
1	Dry contact	Smoke Detector #1	-	Smoke Detected	
2	Siren	Siren Strobe Alarm #1	-	Siren On	Ack

Sys Log (240 messages)

1	10/07/12 11:07:04	Dry contact sensor on RJ45#1 status is now Smoke Detected
2	10/07/12 11:05:29	Dry contact sensor on RJ45#1 status is now No Smoke
3	10/07/12 11:05:12	Siren on RJ45#2 is now Siren On
4	10/07/12 11:05:11	Dry contact sensor on RJ45#1 status is now Smoke Detected

Then when the Siren / Strobe is triggered, in this case by the Smoke Sensor we will see the “Ack” button in the Action column in the Summary page of the sensorProbe.

Sensor Settings
Dry contact (Smoke Detector #1) on Port 1

Settings Relay Control **Siren Control** Status Filter

This Sensor Controls the Siren on Port **2 Siren Strobe Alarm #1**

When the Sensor Goes **Critical** **Cycle the Siren**

Cycle Time (secs) **5** 5 secs **Cycle the Siren**

- Cycle the Siren
- Siren On
- Siren Off
- Turn On Until Acked
- Turn Off Until Acked

Save Reset

You are also able to Cycle the Siren / Strobe Sensor by selecting the “Cycle the Siren” from the drop down menu shown in the screen shot above. You can enter the Cycle Time is seconds that you want the sensor to cycle (turn on, then turn off).

securityProbe base units

Plug the Siren / Strobe Sensor to RJ45 port on your securityProbe base unit.

Sensors

Sensor Settings

1	2	3	4	5	6	7	8
Auto Sense <input checked="" type="checkbox"/> Auto Sense	Auto Sense <input checked="" type="checkbox"/> Auto Sense	Auto Sense <input checked="" type="checkbox"/> Auto Sense	Auto Sense <input checked="" type="checkbox"/> Auto Sense	Auto Sense <input checked="" type="checkbox"/> Auto Sense	Auto Sense <input checked="" type="checkbox"/> Auto Sense	Auto Sense <input checked="" type="checkbox"/> Auto Sense	Auto Sense <input checked="" type="checkbox"/> Auto Sense
Online <input checked="" type="checkbox"/>	Online <input checked="" type="checkbox"/>	Online <input checked="" type="checkbox"/>	Online <input checked="" type="checkbox"/>	Online <input checked="" type="checkbox"/>	Online <input checked="" type="checkbox"/>	Online <input checked="" type="checkbox"/>	Online <input checked="" type="checkbox"/>
N/C	N/C	Siren	Dual Sensors	Airflow	Dry contact I/O	Smoke Detector	Dual Sensors

Normal Settings Advanced Settings

Sensor Name: Siren Port 3

Status: Off

Sensor Currently: Online

Description of Status When Siren & Strobe Light On: On

Description of Status When Siren & Strobe Light Off: Off

Save Reset

As shown in the screen shot above the Siren / Strobe Sensor will be auto sensed. If there is a problem with the sensor, you may see a “sensor error” or sensor offline”. Check the cable and try another port. Please contact support if you continue to have this problem.

In the Normal Settings screen above you can re-name your Siren / Strobe and you can also re-name the Descriptions when the sensor is On or Off.

After clicking on the Advanced Settings tab you can enable the graph, enter the sensor URL and Enable or Disable the Filter Status. (Please see the securityProbe 5ES/5ESV user manual for these settings).

In the “Siren & Strobe Light Control Mode” setting, you will choose which mode type your sensor will be in. Manual Control, which allows you to manually control the sensor from the Summery page. Notification Control, which allows a sensor to control it, or Time Control, which allows you to enable or disable the sensor by a date and time. These will all be covered in the following pages of this manual.

The “Siren & Strobe Light Control setting is how you want the sensor to act if it is set in the manual control mode. The Toggle field allows you enter a time in seconds for the sensor to toggle on or off and the Test button allows you to test the Siren / Strobe sensor.

The screenshot shows the 'Summary' page of the AKCP interface. The 'Sensor Information' table lists various sensors. The 'Siren' sensor (Siren Port 3) is highlighted with a red circle, and its status is 'On', also circled in red. The 'System Log' at the bottom shows two messages: 'Siren Port 3 status is Off' at 18:02:47 and 'Siren Port 3 status is On' at 18:02:43.

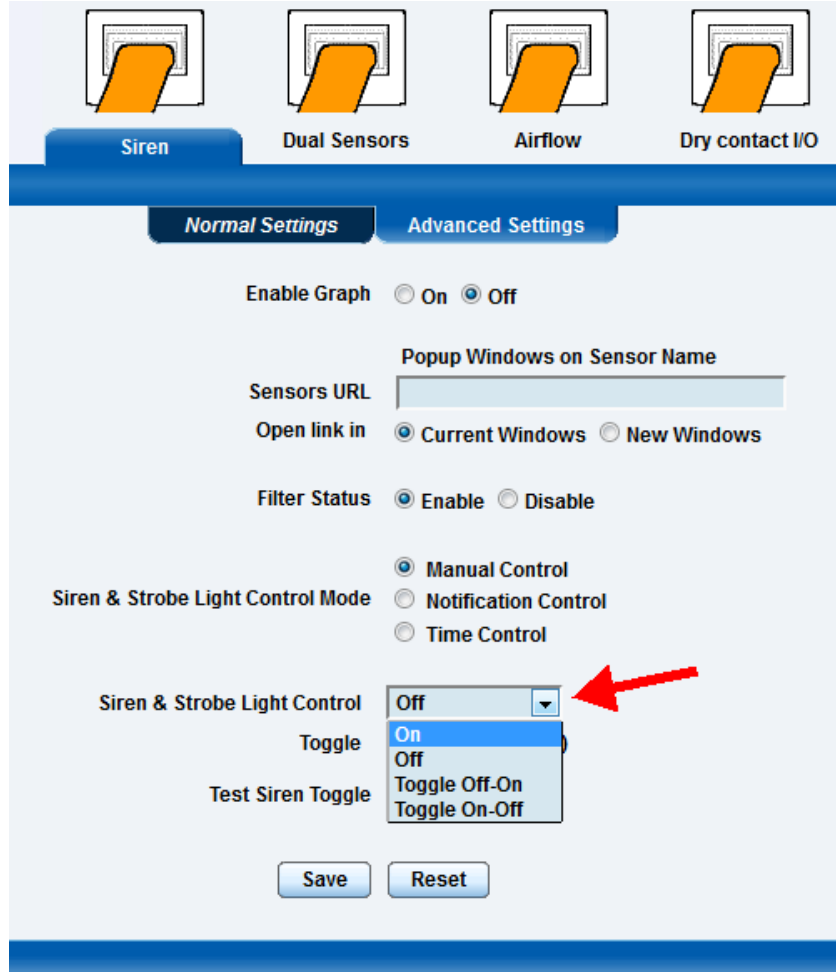
Host Name	Type	Sensor Name	Reading	Status
Main Module	Airflow	Airflow Port 5	-	Normal
	Dry contact I/O	Dry contact I/O Port 6	-	Sensor Error
	Dual Humidity	Dual Humidity Port 4	43 %	Normal
	Dual Humidity	Dual Humidity Port 8	44 %	Normal
	Dual Temperature	Dual Temperature Port 4	26.2 °C	Normal
	Dual Temperature	Dual Temperature Port 8	26.1 °C	Normal
	Siren	Siren Port 3	-	On
	Smoke Detector	Smoke Detector Port 7	-	Normal
	Time Tracking	Machine DOWNTIME	0 Hours	Machine ON
	Virtual Sensors	Monitor AKCess Pro Web Site	-	Web Site UP
	Virtual Sensors	Virtual Sensors Port 1	-	Critical
Module 0A000447	Module	Module 0A000447	-	Disconnected
Module 0B000005	Module	Module 0B000005	-	Disconnected

If the sensor is set to Manually Control, then you can turn on and off the sensor from the Summary page as shown above. By mousing over the Off status the On button will pop up and when this is clicked on the Siren / Strobe sensor will turn on.

The screenshot shows the 'Summary' page of the AKCP interface. The 'Sensor Information' table lists various sensors. The 'Siren' sensor (Siren Port 3) is highlighted with a red circle, and its status is 'Off', also circled in red. The 'System Log' at the bottom shows three messages: 'Siren Port 3 status is On' at 18:05:06, 'Admin attempted to set Siren Port 3 to On' at 18:05:06, and 'Siren Port 3 status is Off' at 18:02:47.

Host Name	Type	Sensor Name	Reading	Status
Main Module	Airflow	Airflow Port 5	-	Normal
	Dry contact I/O	Dry contact I/O Port 6	-	Sensor Error
	Dual Humidity	Dual Humidity Port 4	43 %	Normal
	Dual Humidity	Dual Humidity Port 8	44 %	Normal
	Dual Temperature	Dual Temperature Port 4	25.8 °C	Normal
	Dual Temperature	Dual Temperature Port 8	25.7 °C	Normal
	Siren	Siren Port 3	-	Off
	Smoke Detector	Smoke Detector Port 7	-	Normal
	Time Tracking	Machine DOWNTIME	0 Hours	Machine ON
	Virtual Sensors	Monitor AKCess Pro Web Site	-	Web Site UP
	Virtual Sensors	Virtual Sensors Port 1	-	Critical
Module 0A000447	Module	Module 0A000447	-	Disconnected
Module 0B000005	Module	Module 0B000005	-	Disconnected

Then when mousing over the On button in the Summary page the Off button will appear allowing you to manually turn the sensor Off again as shown in the screen shot above.



You are able to select the Toggle Off-On or Toggle On-Off from the Siren & Strobe Light Control drop down list.

Siren Dual Sensors Airflow Dry contact I/O

Normal Settings **Advanced Settings**

Enable Graph On Off

Popup Windows on Sensor Name

Sensors URL

Open link in Current Windows New Windows

Filter Status Enable Disable

Siren & Strobe Light Control Mode Manual Control Notification Control Time Control

Siren & Strobe Light Control

Toggle Second(s)

Test Siren Toggle

If you have the sensor set to Toggle Off-On, the sensor will stay off for 5 seconds (or however long you have the Toggle field set to then turn On.

Siren Dual Sensors Airflow Dry contact I/O

Normal Settings **Advanced Settings**

Enable Graph On Off

Popup Windows on Sensor Name

Sensors URL

Open link in Current Windows New Windows

Filter Status Enable Disable

Siren & Strobe Light Control Mode Manual Control Notification Control Time Control

Siren & Strobe Light Control **Toggle On-Off** ▼

Toggle Second(s)

Test Siren Toggle **Test**

Save Reset

If you have the sensor set to Toggle On-Off, the sensor will stay On for 5 seconds (or however long you have the Toggle field set to then turn Off.

N/C Siren Dual Sensors Airflow Dry contact I/O Smoke Detec

Normal Settings **Advanced Settings**

Enable Graph On Off

Popup Windows on Sensor Name

Sensors URL

Open link in Current Windows New Windows

Filter Status Enable Disable

Siren & Strobe Light Control Mode Manual Control **Notification Control** Time Control

Notification Controlled Siren & Strobe Light
To set notification controlled Siren Strobe Light click [here](#)

Test Siren Toggle

In order to have another sensor that is connected to the securityProbe base units RJ-45 sensor ports or dry contact inputs trigger the Siren / Strobe sensor you must have the sensor set to Notification Control as shown in the screen shot above.

In the following segment we will go over how to create a Siren action and then link this action to an AKCess Pro Smoke Sensor that has already been connected and setup on the securityProbe.

Note: Please see the separate user manual for the AKCess Pro Smoke Sensor on how to setup this sensor on the unit.

Normal Settings **Advanced Settings**

Enable Graph On Off

Popup Windows on Sensor Name

Sensors URL

Open link in Current Windows New Windows

Filter Status Enable Disable

Siren & Strobe Light Control Mode Manual Control Notification Control **Time Control**

All	AM											PM												
	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11
Sunday																								
Monday																								
Tuesday																								
Wednesday																								
Thursday																								
Friday																								
Saturday																								

On Off

To Clear/Set, Click Hour, Day, AM, PM, All.
 To Clear/Set the Whole Hour, Click a Cell.
 To Select a Minute, Right Click a Cell; Mouse Over will display minute offset.

Test Siren Toggle

When selecting the Time Control option mode, you can enable or disable the sensor in regards to the day of the week and the time of the day as shown in the screen shot above.

Creating Siren Action

Summary Map Sensors **Notification** Access Control Settings Applications

Action

Notification Menu

- Begin Notification Wizard
- Action**
- Link Sensor To Action
- Options
- View Notification Log
- Notification Analyzer
- Help

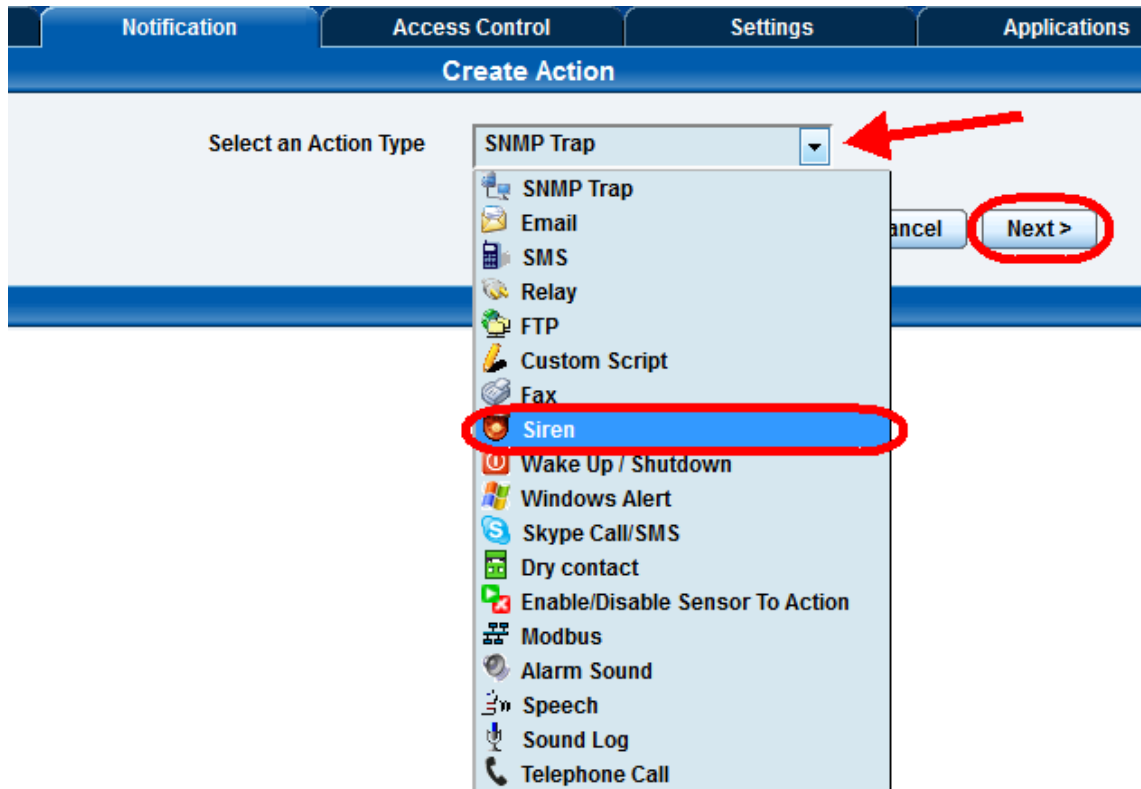
Action Type ▼ Action Name ▼ Action Information

Duplicate Edit Remove

This page displays all Actions currently created. From here you may create, duplicate, edit and remove Actions. Select your desired Action(s) before making a choice.

You may also select an Action and test its functionality using the Test Action button

To setup the Siren action you first need to navigate to the Notification page, then after clicking on the Action link in the left column, you will click on the “Create” button to launch the new Action Wizard in the securityProbe’s web interface as shown in the screen shot on the previous page.



Now we will select the Siren Action from the “Select an Action Type” drop down list and click on the Next button as shown in the screen shot above.

Notification Access Control Settings Applications

Current System Time: 15/07/12

Siren Action Wizard

Action Name

Controls the Siren on Module

Port

Action

Delay Before Turn On

Note: Controlled siren must be set to notification control mode.

In the next screen of the new Action Wizard we will choose where the Siren / Strobe is connected either the Main Module (base units 8 RJ-45 sensor ports) or one of the Expansion Units. Then we will choose the Port the sensor is connected to and then we will choose how the sensor will act, either turning on until acknowledged, until the sensor returns to normal or a defined time as shown in the screen shot above.

Notification Access Control Settings Applications

Siren Action Wizard

Action Name

Controls the Siren on Module

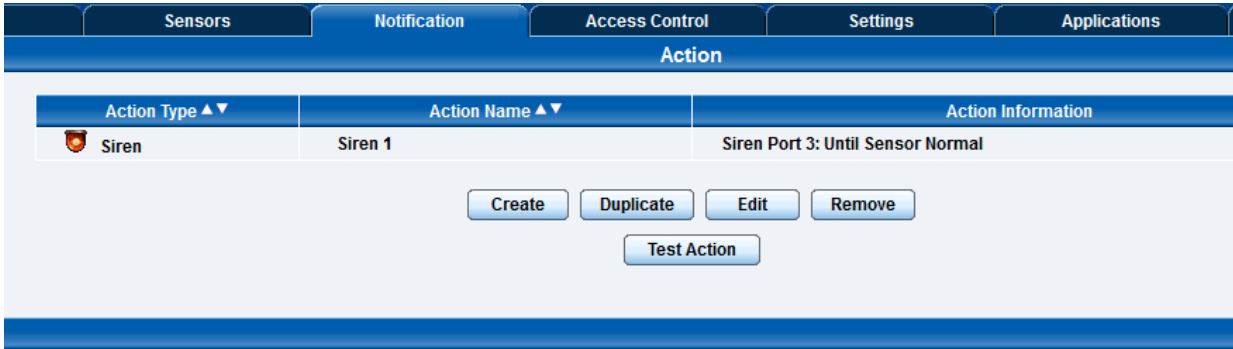
Port

Action

Delay Before Turn On Second(s)

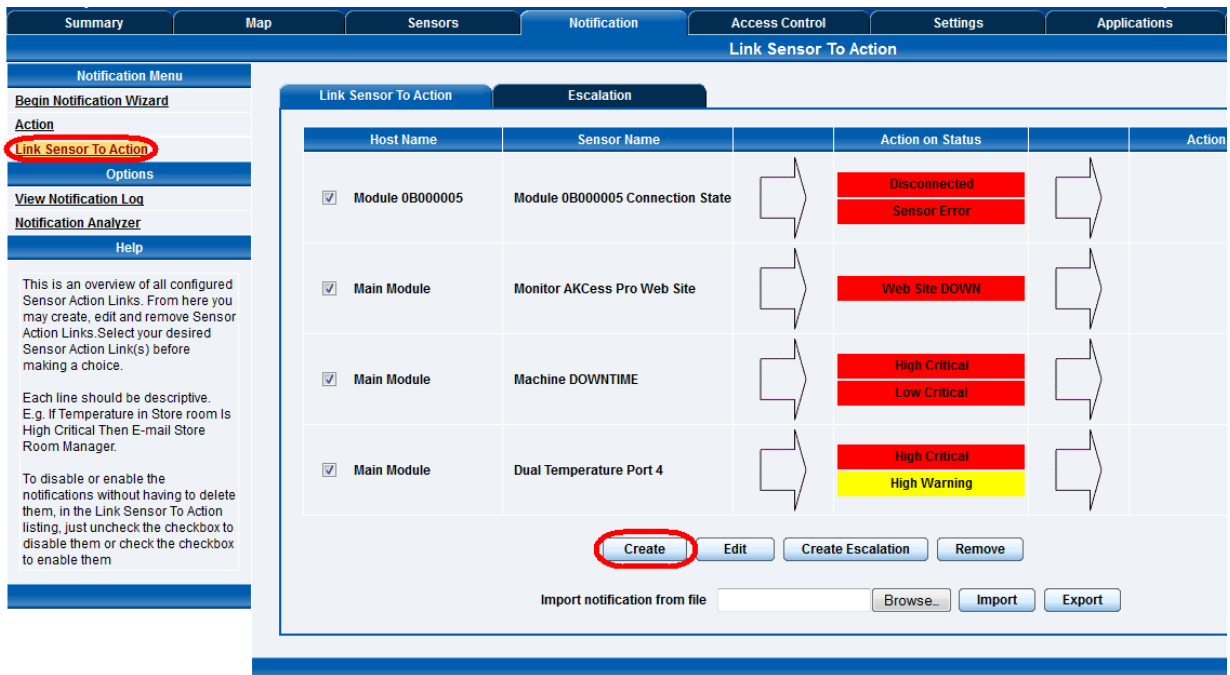
Note: Controlled siren must be set to notification control mode.

We can now add a delay time if we want the sensor to be delayed before being turned on then we will click on the Finish button to complete the new Siren Action Wizard as shown in the screen shot above.



Now we can see our new Siren Action has been created and is now in our Actions listing ready to be linked up to a sensor and notification on the unit.

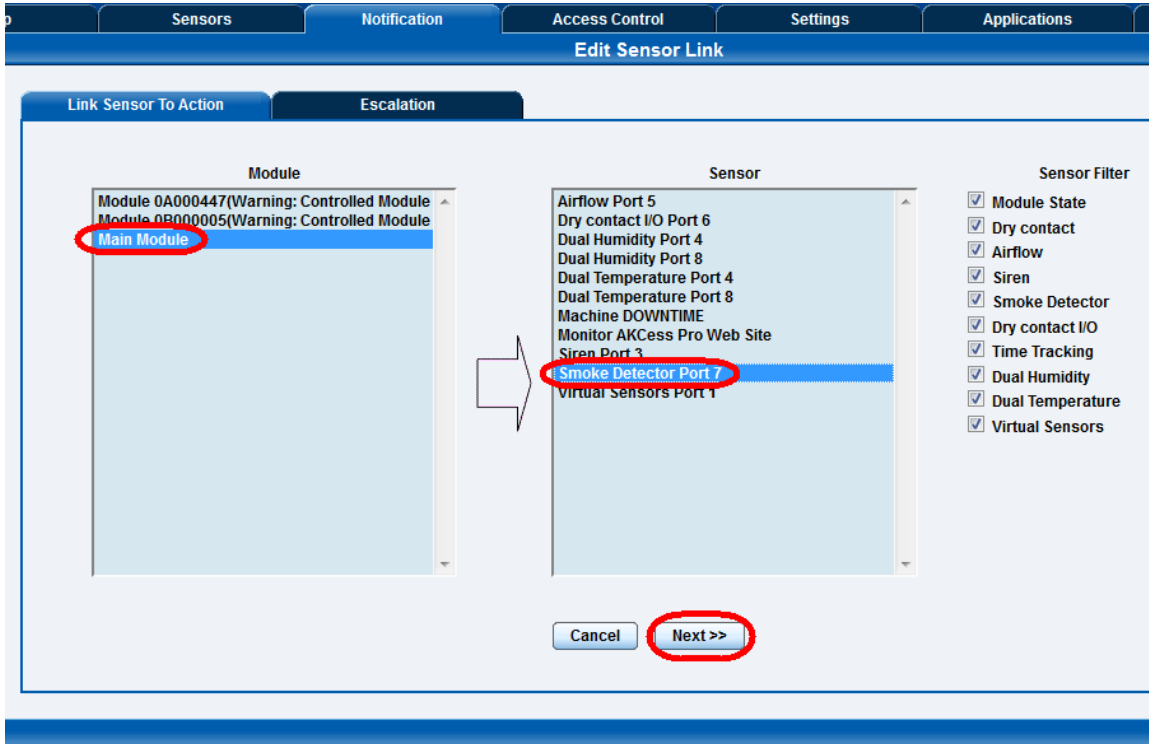
Link Sensor to Siren Action



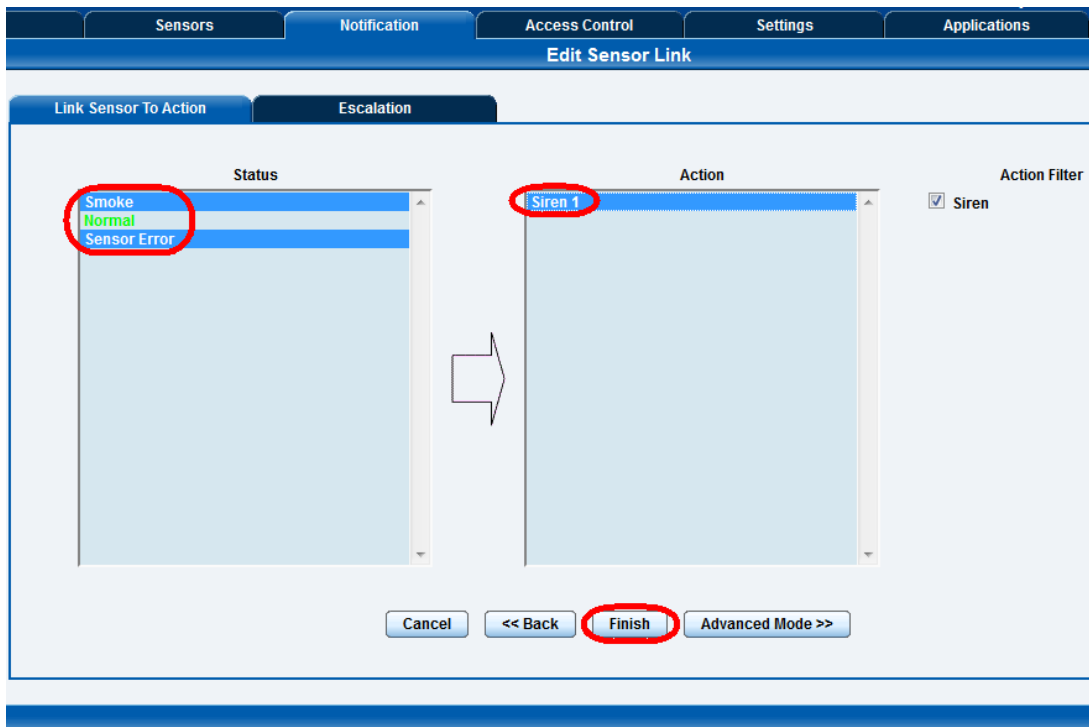
Now that we have created our Siren Action we would then need to link a sensor to this action and also a notification. In this example we will link our Siren / Strobe Action to an AKCess Pro Smoke Sensor that has already been connected and setup on one of the sensor ports of the securityProbe base unit.

We first click on the “Link Sensor To Action” link in the left column then click on the “Create” button that will launch the “Link Sensor To Action” Wizard as shown in the screen shot above.

Note: Please see the AKCess Pro Smoke Sensor user manual on how to setup this sensor on the securityProbe.



After the Link Sensor To Action Wizard is started in our first screen shown above we will first select the Module that our sensor is connected to, then select the sensor in the Sensor field. In this example again we are using the Smoke Sensor so we highlight this sensor and click the Next button as shown.



We then will select the Status, then choose our new Siren from the Action listing which we had previously created and finally clicking on the “Finish” button as shown in the screen shot on the previous page.

Host Name	Sensor Name	Action on Status	Action Name
<input checked="" type="checkbox"/> Module 0B000005	Module 0B000005 Connection State	Disconnected Sensor Error	
<input checked="" type="checkbox"/> Main Module	Monitor AKCess Pro Web Site	Web Site DOWN	
<input checked="" type="checkbox"/> Main Module	Machine DOWNTIME	High Critical Low Critical	
<input checked="" type="checkbox"/> Main Module	Dual Temperature Port 4	High Critical High Warning	
<input checked="" type="checkbox"/> Main Module	Smoke Detector Port 7	Smoke Sensor Error	Siren 1

Buttons: Create, Edit, Create Escalation, Remove

Import notification from file Browse... Import Export

Now we can see in our list of the sensors linked to actions we have our Smoke Sensor linked to our Siren Action so when the Smoke Detector is activated this will trigger the Siren / Strobe Sensor.

Note: You can also add other Action Notifications to this for example an email, SMS or voice call alert. Please see each separate manual for each of the notifications Actions.

This concludes the Siren / Strobe User manual.

Please contact support@akcp.com if you have any further technical questions or problems setting up your modem or your alerts.

Thanks for Choosing AKCess Pro!