AKCP SP2+ sensorProbe2 Remote Monitoring Device Instruction Manual

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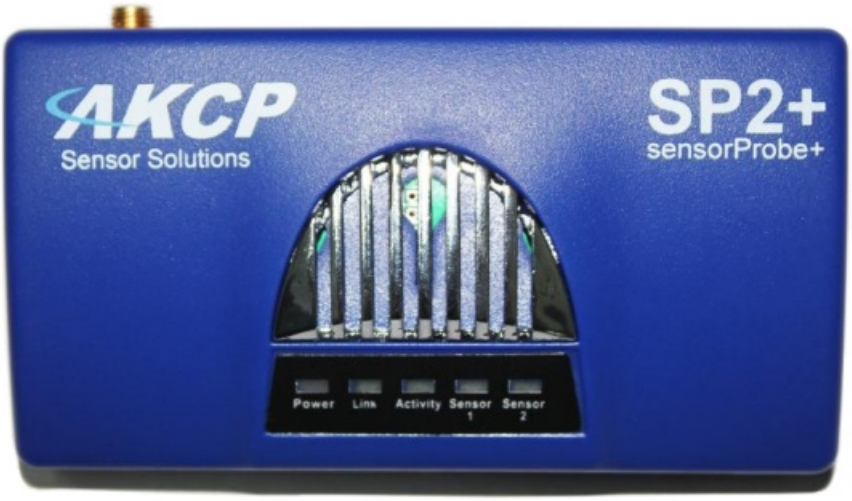
SP2+ Notifications Manual



Contents

Introduction

This manual covers all of the built in notifications on the SP2+ and how to configure them.

What is the SP2+ and Thermal Map?
The SP2+ is a high speed, accurate, intelligent monitoring device, featuring a completely embedded host and operating system. The SP2+ is a complete redesign of the world's best-selling environmental monitoring platform, 3 years in the making with all new hardware and software.
We've combined the low cost and simplicity of use of the SP2, along with many advanced features of our securityProbe platform.
The thermal map combines 4 sensors into one sensor port on the SP2+, specially designed to monitor the air entering and leaving a computer rack. The Thermal Rack Map is performed from the AKCess Pro Server using the Thermal Sensor connected to the SP2+. The Thermal Map Sensors monitor the temperature and humidity at different points of the rack.

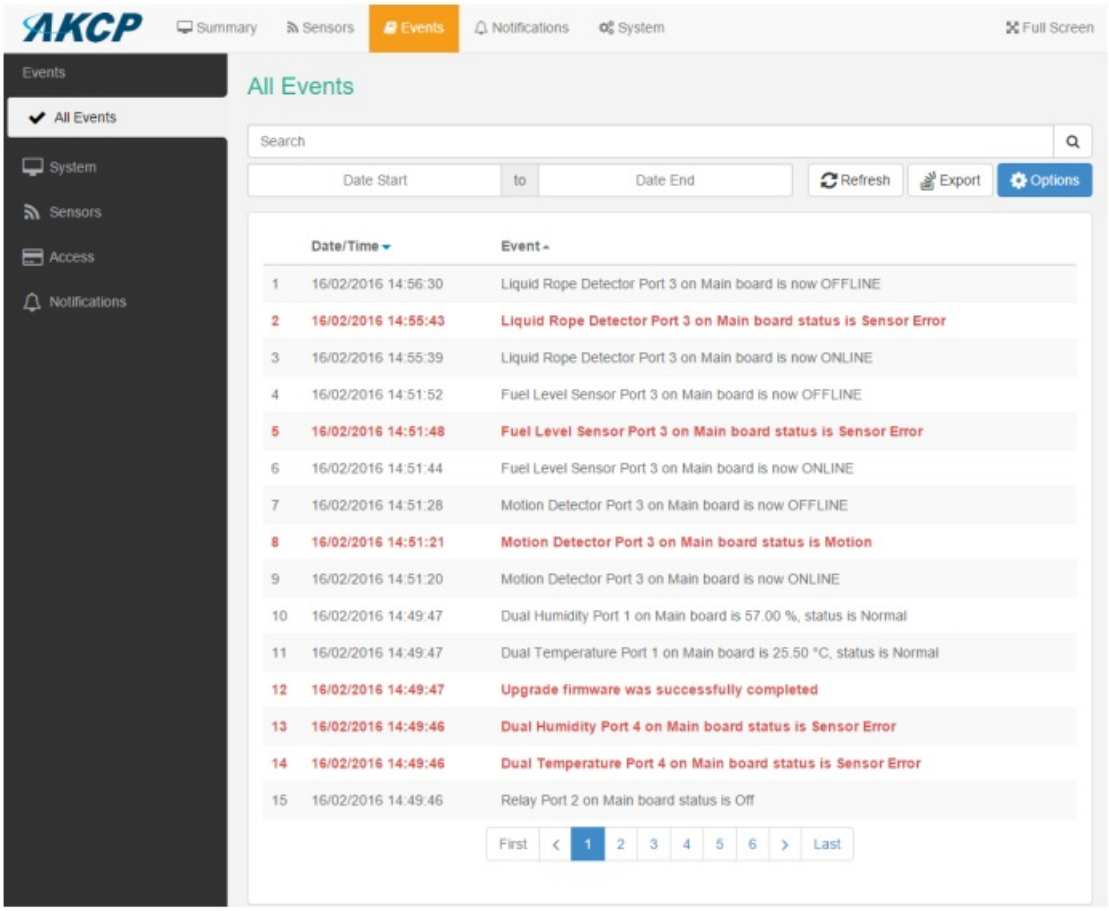
SP2 + Features:

- IP based, including SNMPv3, HTTPS, VPN
- Send encrypted SNMP Trap and Email Notifications
- Supports 4 Intelligent Sensors or up to 20 Dry Contacts
- Optional cellular modem with external antenna
- Notification Wizards
- Front and Rear Thermal Mapping for any server cabinet
- Low Cost Daisy Chained Temperature sensors
- Optional Expansion Module connectivity
- Virtual Sensors
- Patented Fire Suppression feature
- AKCP Swing Handle Lock support

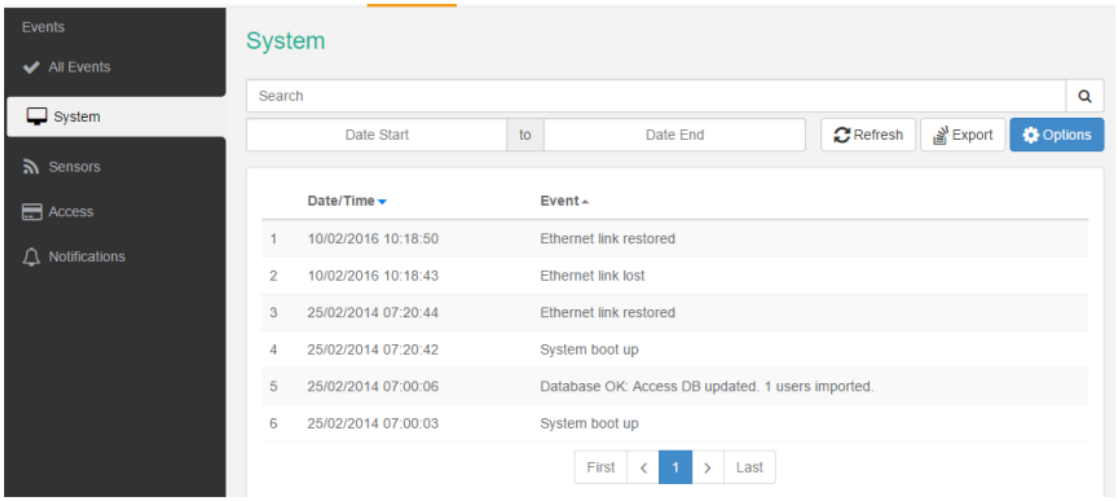
Important note: Some of the pictures shown in this manual might not represent the actual Web UI of the unit; this is because we are constantly working on improving the firmware. Please provide us with feedback if you have any issues configuring your unit.

Events

The Events page contains all logged events that the unit stores. It's functioning like a categorized syslog, where you can search for a specific event, and also export the logged entries to a file.



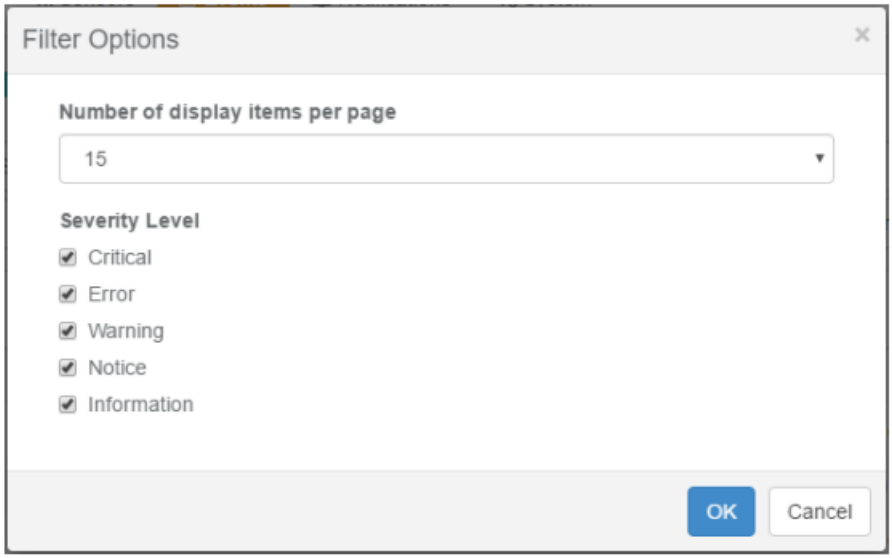
The default view is the All Events which contains all logs in one view. We'll explain all of the categories below.



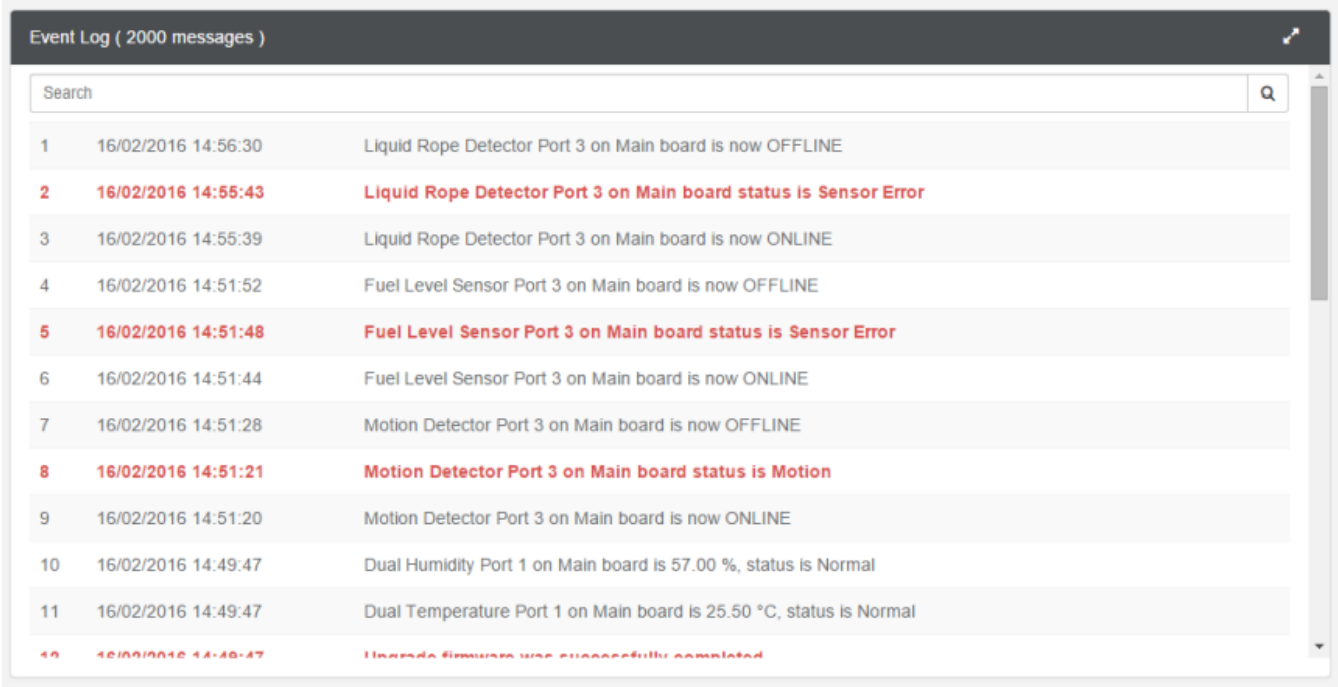
You can filter the events by type, by clicking on the tabs.
In this picture we've chosen to display only the System events.

Events by category:

All Events – contains all logs from the device, sorted by date and time; you can specify the start- and end dates to narrow the list, or choose a specific log category.
System – contains the logs for the device's system events, such as reboot, firmware update etc.
Sensors – contains logs for all sensor related events, such as status changes, online/offline etc. and the port number where the sensor is attached.
Access – contains logs for all user authentication-related events, such as access granted/denied.
Notifications – contains logs for the active notifications on the device, for example the result of an email notification, heartbeat message or an SNMP Trap.



In the Options, you can change the number of log entries displayed per page. The default is 15, it's possible to specify up to 100. Also you can filter by Severity Level.
If you click on the Export button, a confirmation popup window will appear, asking if you'd like to export the log entries.
If you answer yes, then the full event log will be downloaded as a text file.
The file name will contain the IP address of the unit, for example: **log_10.1.1.146.txt**



The unit's Summary page also shows the Event Log, which contains all entries from the "All Events" category. The last 30 entries are shown, but if you're scrolling down the list, more events (30 more) will be loaded automatically. You can view the full log if you keep scrolling down.

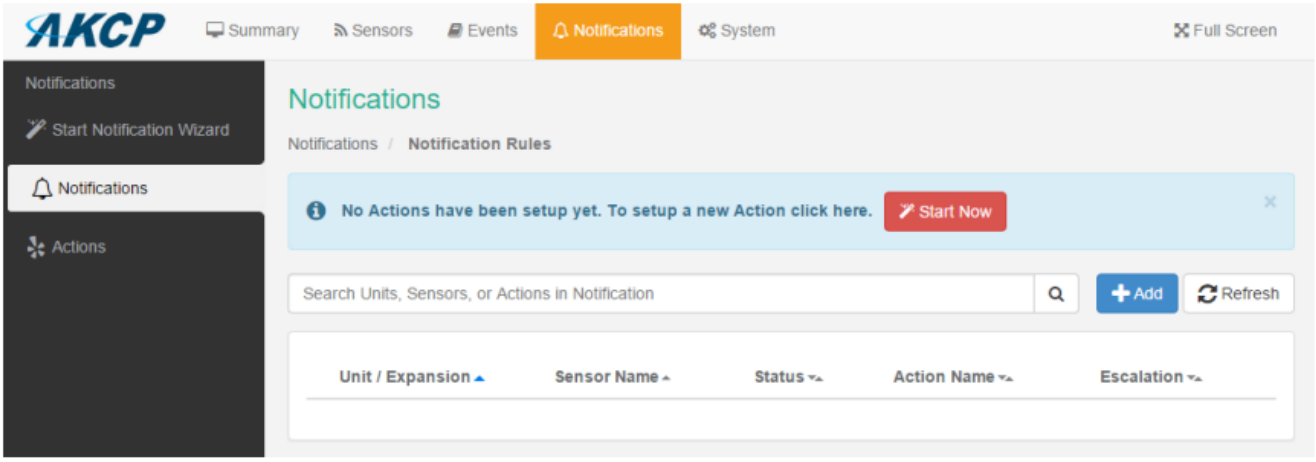
Notifications

If you setup a notification you can define the action to take when a sensor gives a reading beyond your previously set thresholds. This allows you to determine how you will be notified that a sensors reading has reached the specified thresholds (high warning, critical etc).

What function do the different types of notifications provide?
The notifications are used to notify you when a sensor reading has hit a certain preset "critical" threshold. There

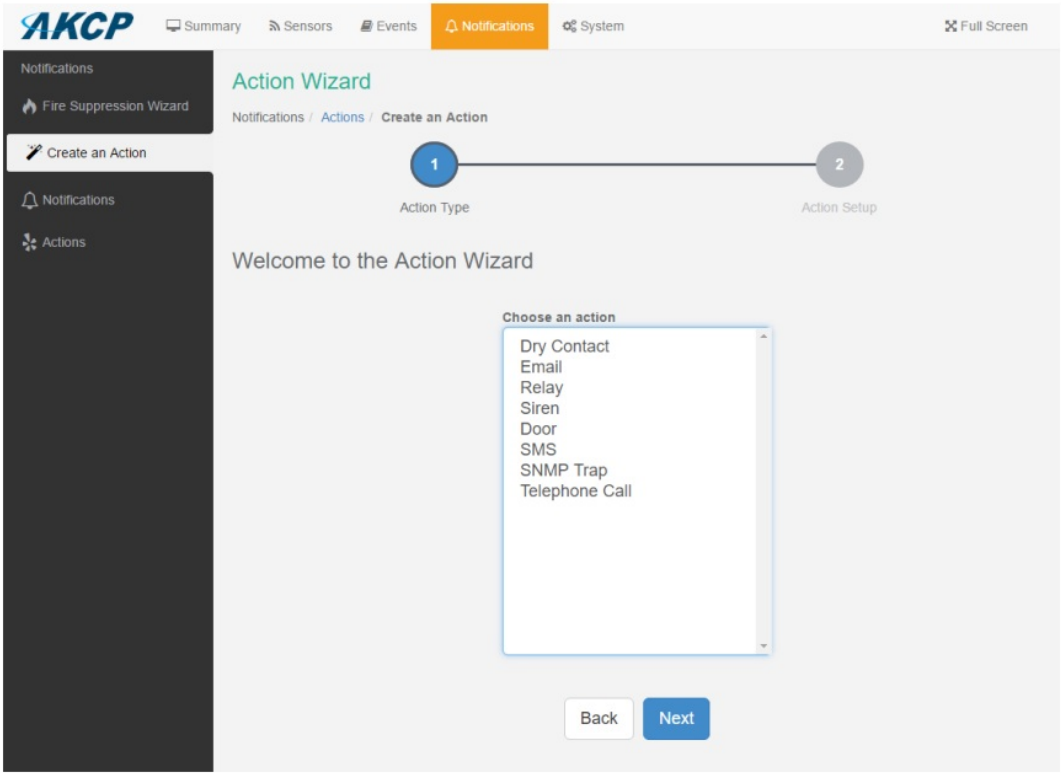
are many ways you can be notified. They are as follows :
SNMP Trap: This form of notification sends out a signal to your SNMP trap receiver server.
E-Mail: This sends a notification via e-mail.
SMS: This sends an SMS message to your mobile phone.
Relay: The relay is used as a switch, for example it could switch on an air con unit if the temperature reading of a temperature sensor reaches a certain threshold.
Telephone call: Will call you and play a customizable text to speech message.
Door: Controls the door with the Handle Lock sensor.

Notifications page



This is the Notifications page. If you have notifications set up, they will appear in the list and you can edit or remove them.
If you don't have any actions set up, you'll need to create them first before making notifications.
The notice to run the Action Wizard is displayed on the top for easy action setup.
Click on the Start Now button or the Start Notification Wizard tab to start the wizard.
In the next section we'll show you how to set up the actions.
After you have actions set up, you can link the actions to a sensor with the Add button.
All notifications are following the same setup steps with the Link Notification Wizard. We'll show you how to use this wizard with an example notification below in the manual with an SMS action, you'll then be able to configure other notifications similarly.

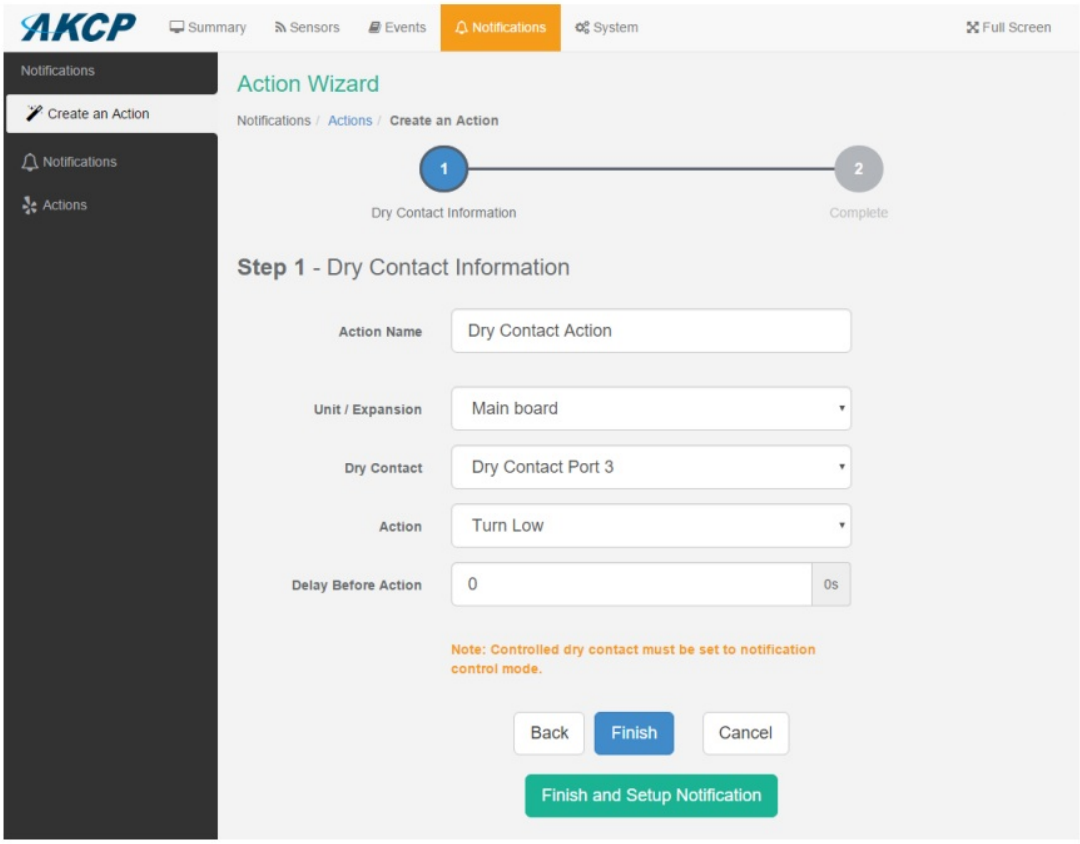
Create an Action with the Action Wizard



This is the Action Wizard's welcome page; the supported Web UI configurable actions are shown.
Select one to configure and click Next.
We'll show you each action's configuration in the following sections.
Note: APS (AKCess Pro Server) allows more types of actions to be set up.

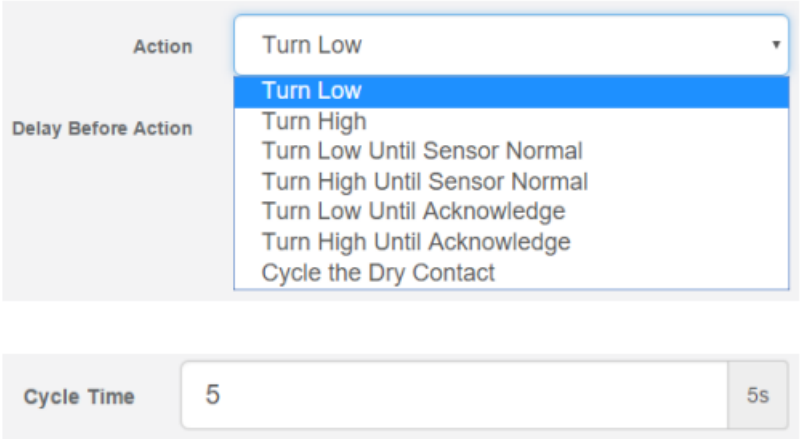
Dry Contact Action setup

You can use the Dry Contact Action to control a dry contact when a sensor reaches a certain threshold.

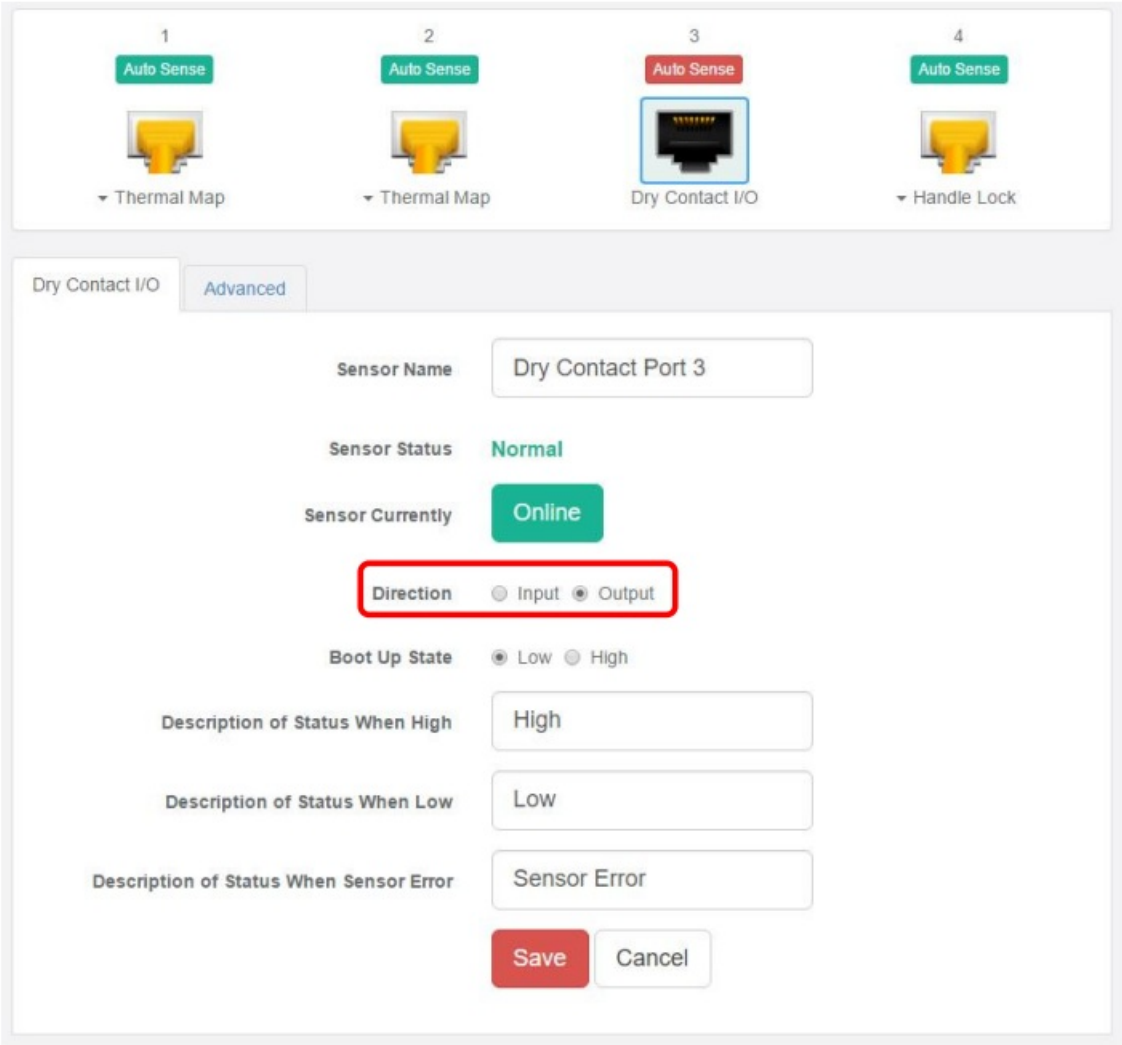


Note: The dry contact needs to be connected to the unit before it can be configured, and it needs to be in the Output direction (see below).
If you click on the Finish and Setup Notification button, this will launch the Link Notification Wizard where you can use the new action for making a notification.

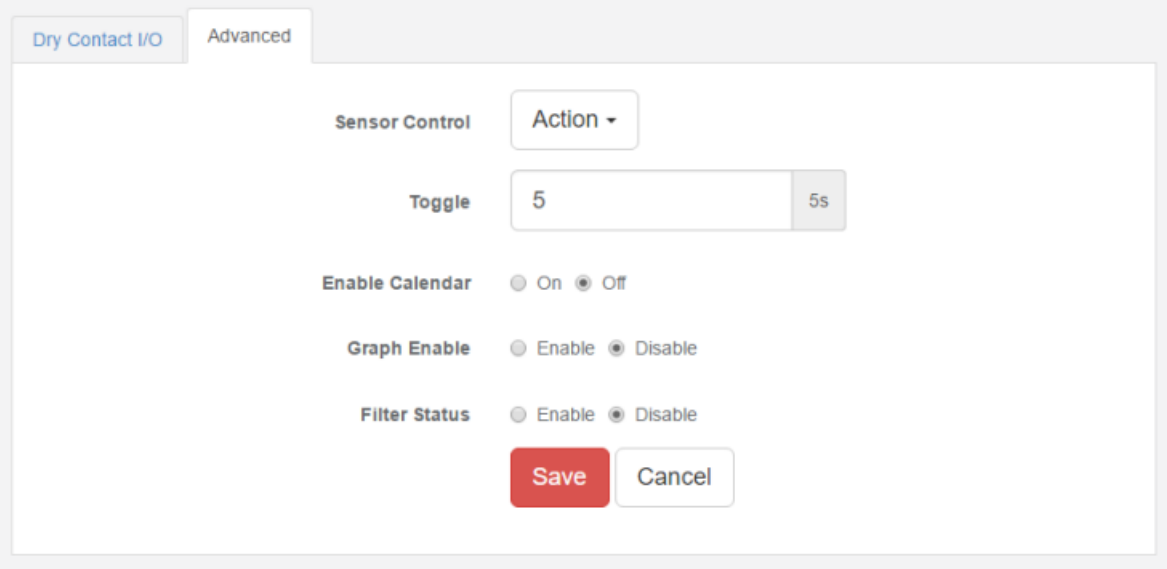
You'll have the following options for controlling the dry contact with the action:



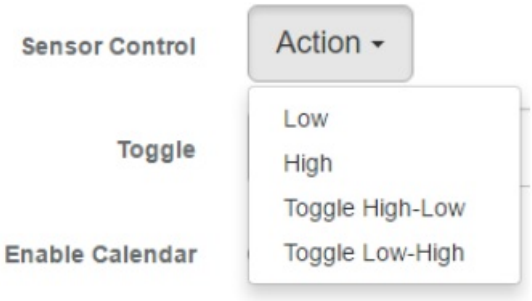
If you choose to cycle the dry contact, you can specify the cycle time.
You'll need to change the Dry Contact sensor to Output direction mode from the Sensors page as shown below:



Change the Direction from Input to Output and click Save.

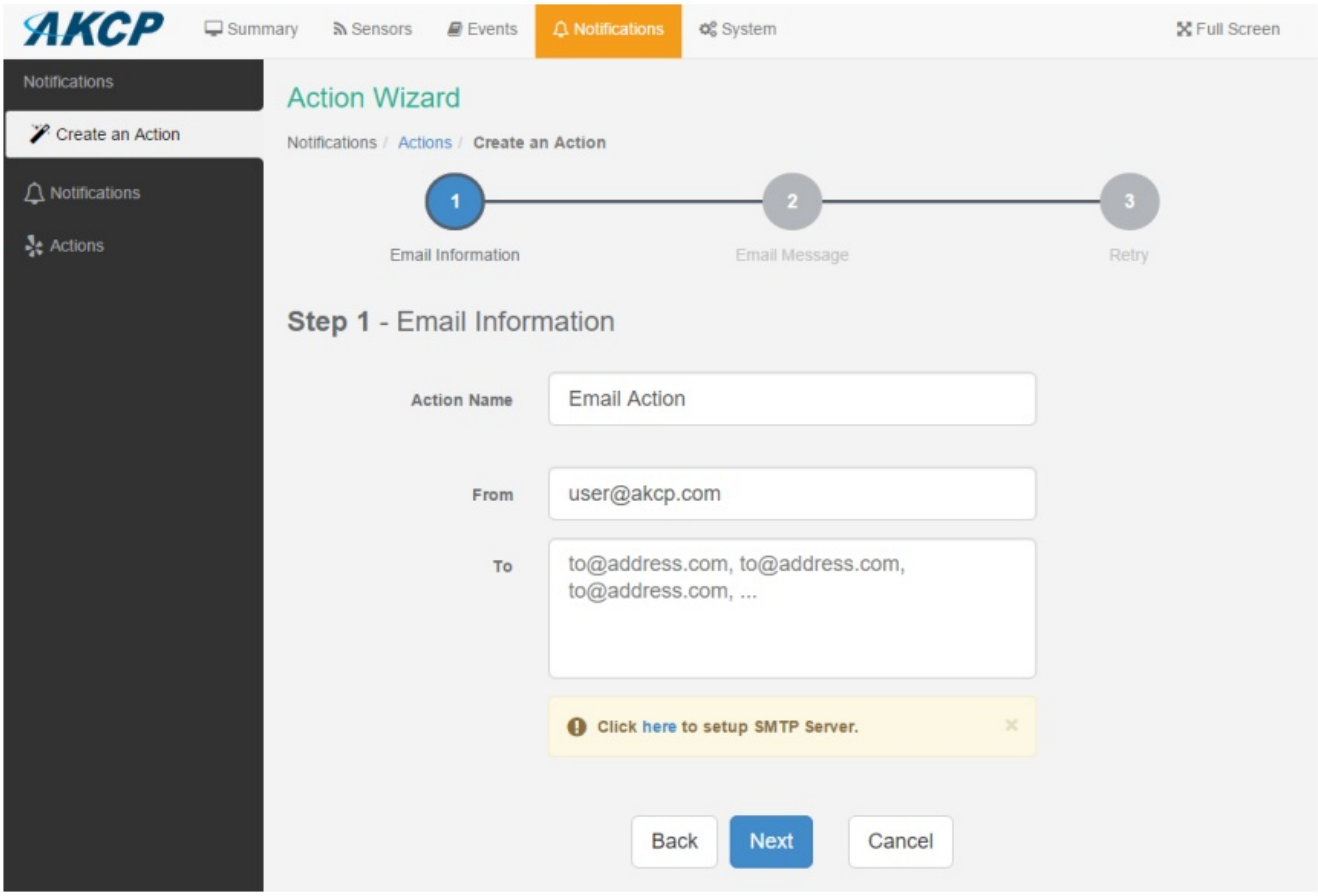


You can choose to manually control the sensor from the Advanced tab using the Sensor Control button:

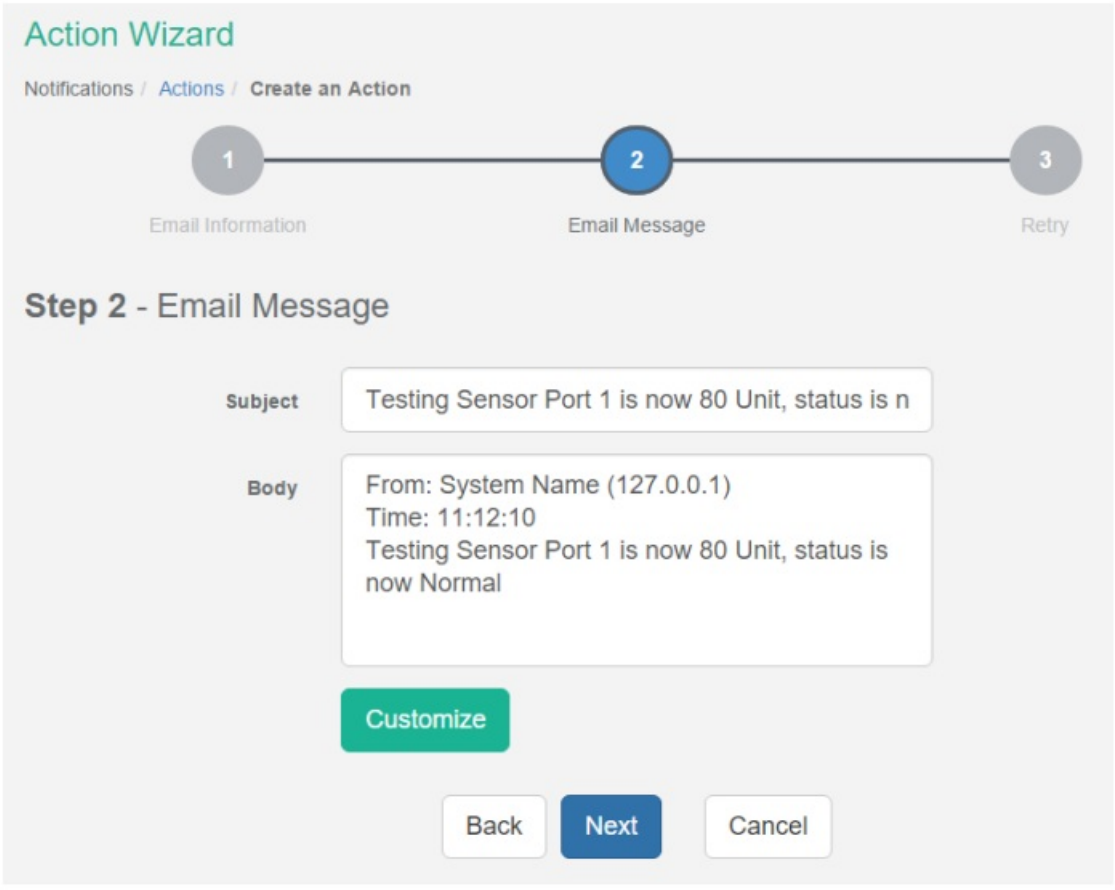


Email Action setup

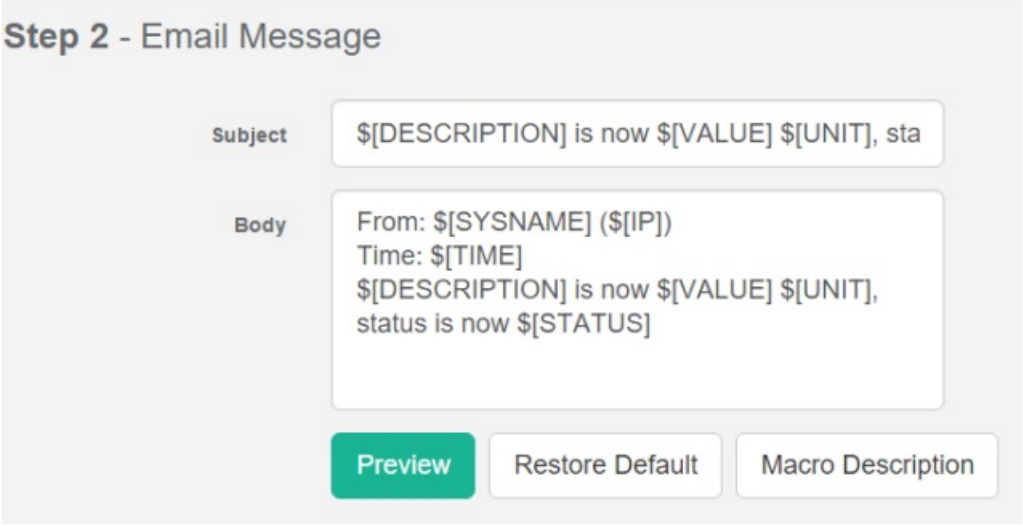
You can use the Email Action to send a notification by email when a sensor reaches a certain threshold.



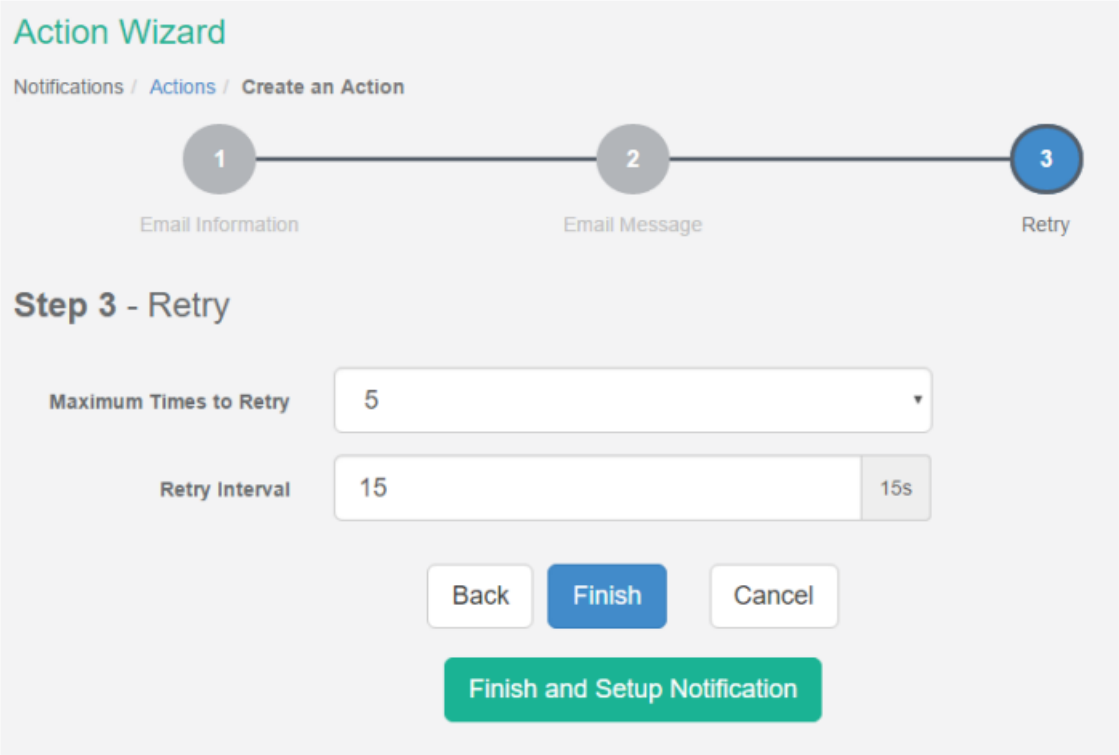
Note: The SMTP server settings needed to be configured on the unit, before this action works.
All email actions will use this SMTP server for sending emails.
You can find more information in the Introduction manual about how to set up the SMTP server on the System page although it's very straight-forward.
Either click on the link on the notice, or go to the System/SMTP page for the configuration.



After clicking “Next” you will get a page where you can input the e-mail name and message. Press the “Customize” button and the fields will re-write in a format that will allow for an automated e-mail that will display the sensor information.

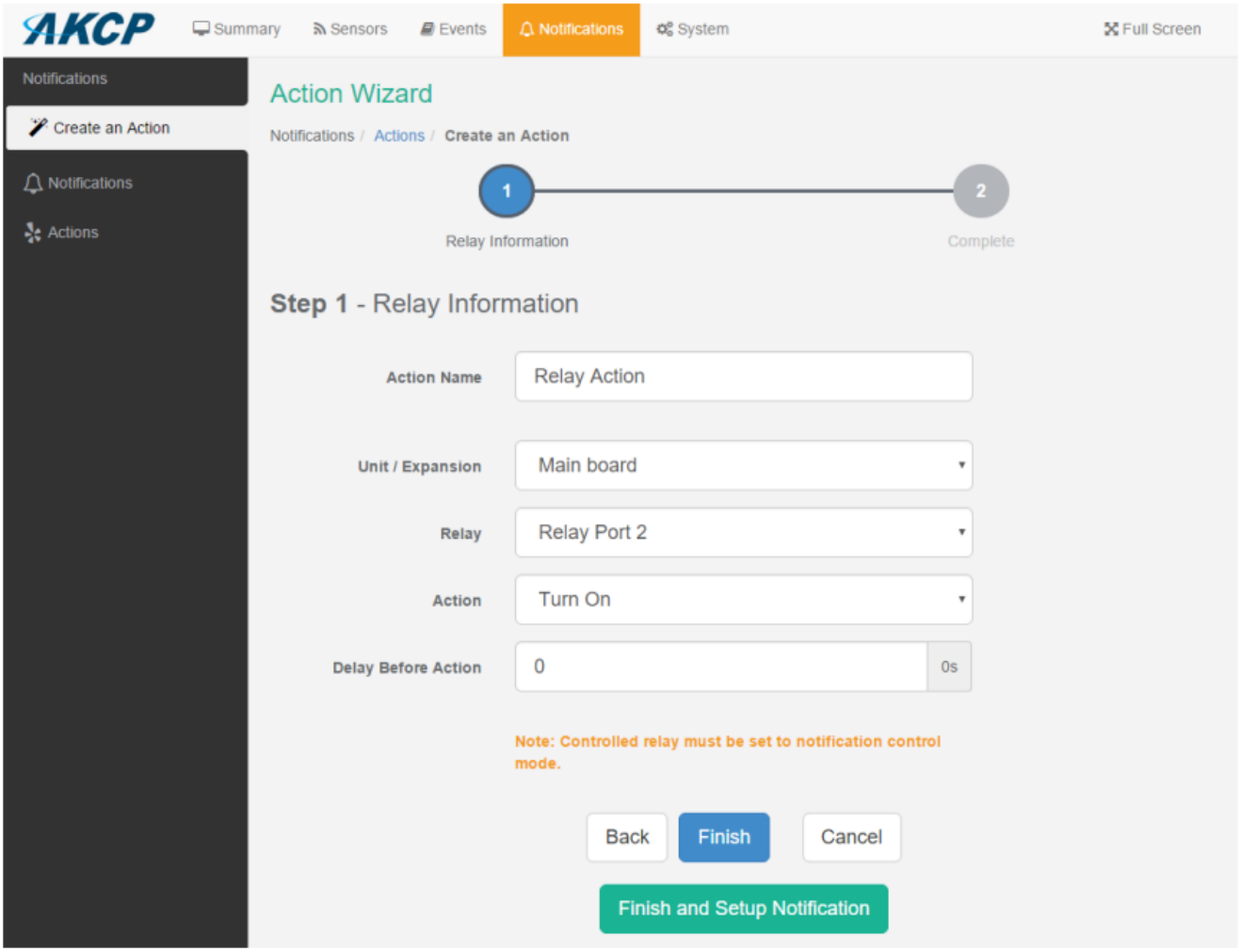


For all possible macro values (dynamic text values starting with $) you can see a detailed list at the end of this manual.

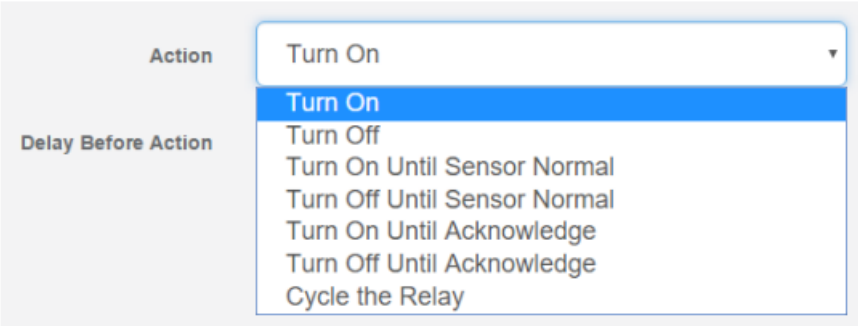


These parameters set the maximum number of times to send the email notification and the time interval between each notification.
If you click on the Finish and Setup Notification button, this will launch the Link Notification Wizard where you can use the new action for making a notification.

Relay Action setup
You can use the Relay Action to control a relay when a sensor reaches a certain threshold.

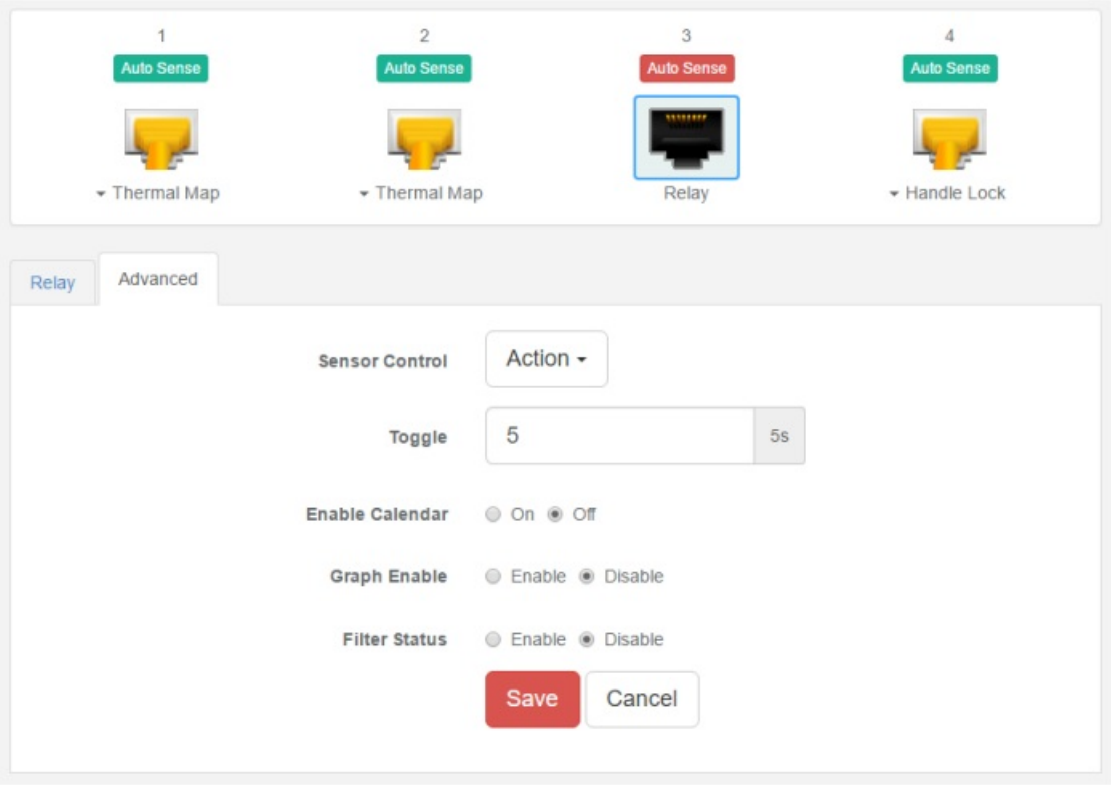


Note: The relay needs to be connected to the unit before it can be configured.
If you click on the Finish and Setup Notification button, this will launch the Link Notification Wizard where you can use the new action for making a notification.
You'll have the following options for controlling the relay with the action:



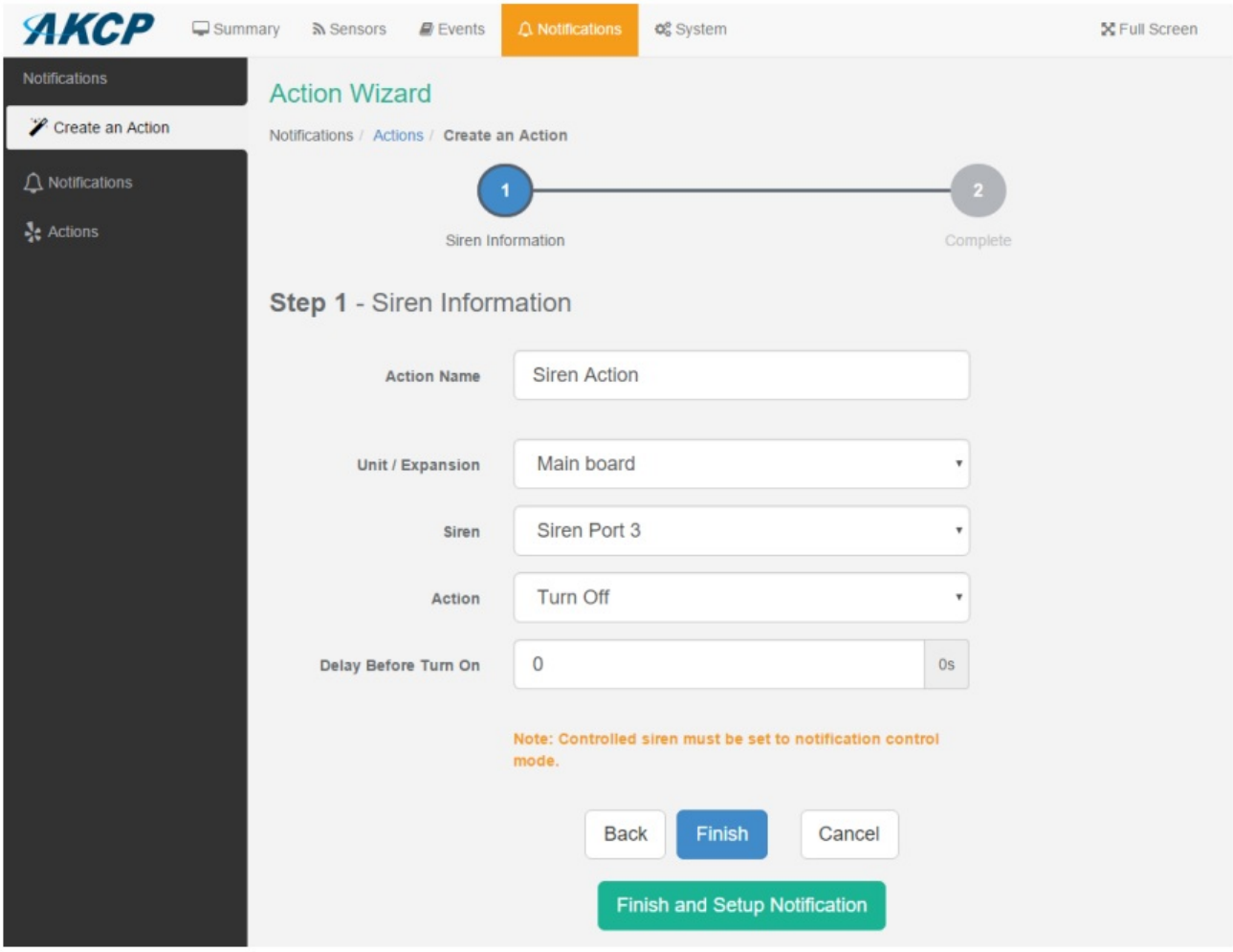
If you click on the Finish and Setup Notification button, this will launch the Link Notification Wizard where you can use the new action for making a notification.

If you choose to cycle the relay, you can specify the cycle time.
On the Sensors page you can specify additional settings for the relay as shown below:

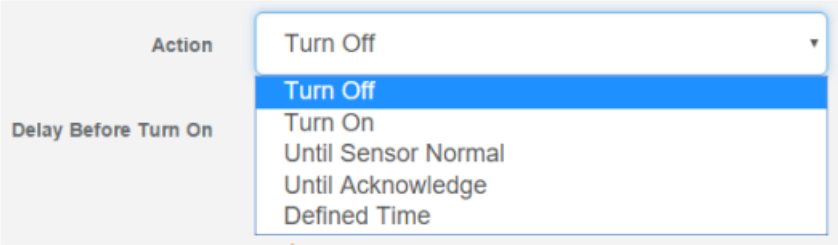


Siren Action setup

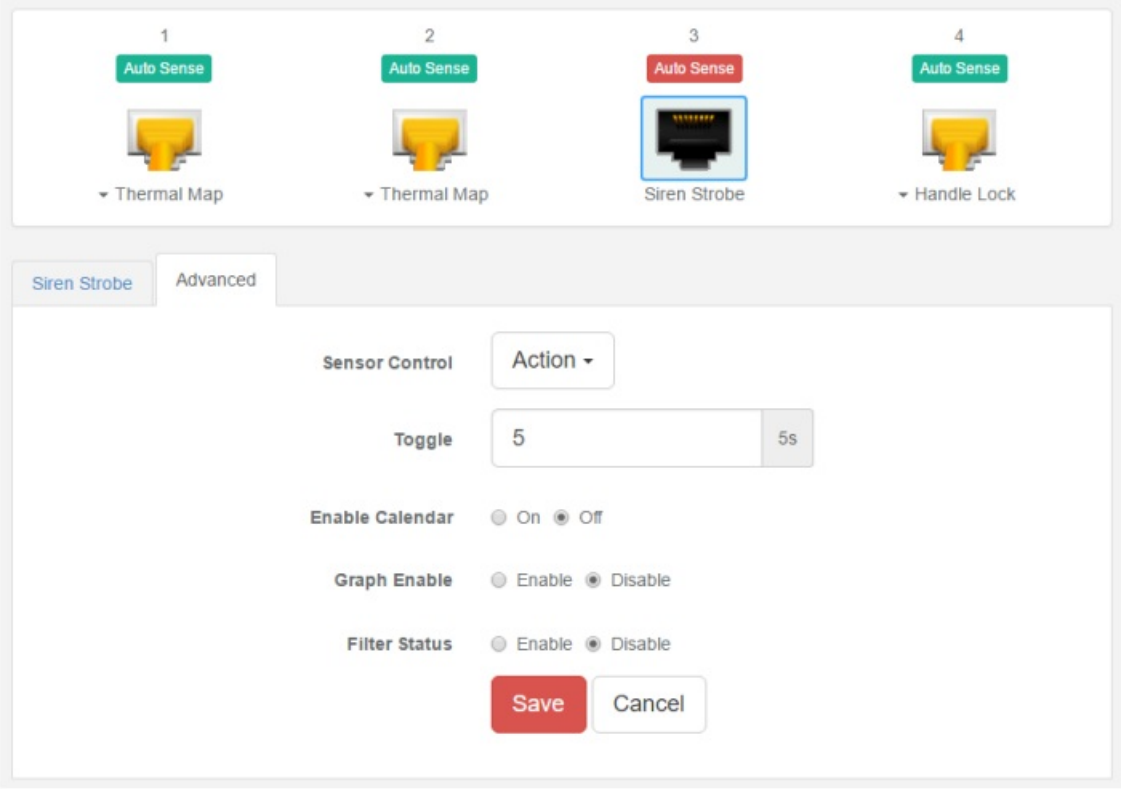
You can use the Siren Action to turn on the siren and strobe light when a sensor reaches a certain threshold.



Note: The siren needs to be connected to the unit before it can be configured.
You'll have the following options for controlling the siren with the action:



If you choose Defined Time, you can specify the time in seconds for how long the siren should be turned on.
On the Sensors page you can specify additional settings for the siren as shown below:



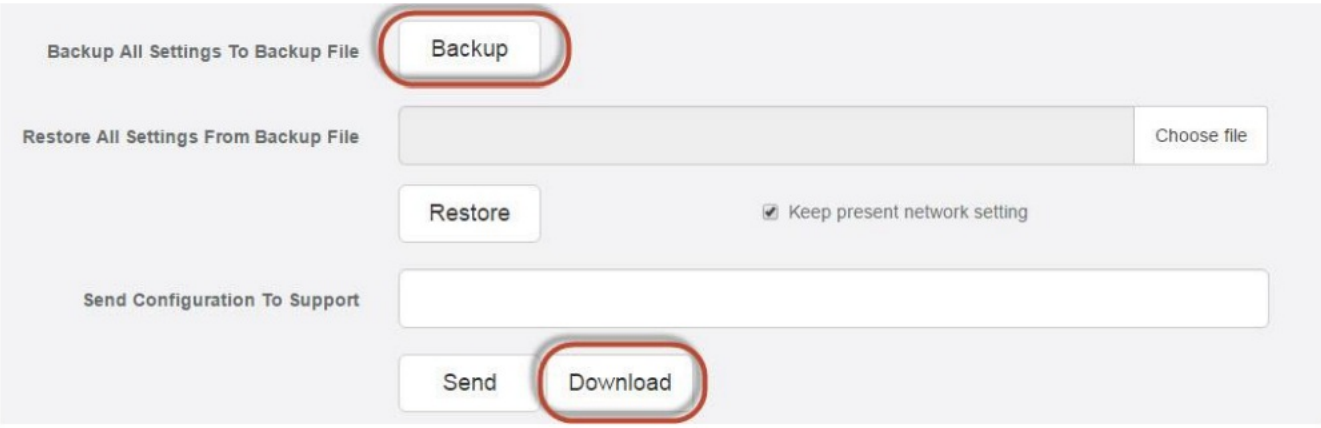
You can choose to manually control the sensor from the Advanced tab using the Sensor Control button.

Troubleshooting

I am having problems with the unit but not sure what to do next?
Please email **support@akcp.com** and include the following detailed information in your email;
Note: The more details you can provide the easier and faster we can provide you with a resolution, so please be as detailed as possible.

1. The details of the problem, condition of the LEDs etc.
2. What you did to determine the unit has this problem?
3. Was there anything done to the unit prior to having the problem?
4. Did the unit always have this problem, if not when did this start?
5. Do you have more than one unit having the same problem?
6. What did you do to try and fix the problem?
7. What version of firmware is running on the unit? Did you try and upgrade it?

8. Include the settings and backup configuration files to support (both files, see below).
9. If you can put the unit online this would be the fastest way for us to solve the problem.
10. What is the MAC ID of the unit?



Please contact support@akcp.com if you have any further technical questions or problems.
Thanks for Choosing AKCP!

Documents / Resources

	AKCP SP2+ sensorProbe2 Remote Monitoring Device [pdf] Instruction Manual SP2 sensorProbe2 Remote Monitoring Device, SP2, sensorProbe2 Remote Monitoring Device, Remote Monitoring Device, Monitoring Device

References

- AKCP - AKCP Remote Sensor Monitoring | Data Center Monitoring