Revision: 1.01
https://iot-portal.com Yes
https://iot-portal.com/app Yes
Mobile: Yes
Desktop: Yes

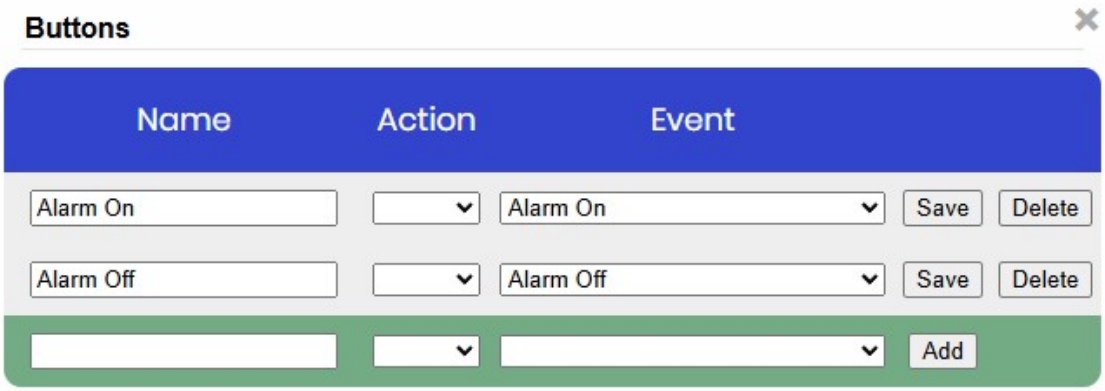
AP0301: Alarm System Basic Guide

The ZRx/HBx and variants can be used to create a fully featured hybrid alarm with both wired and wireless sensors. The output device can be any wired bell or wireless Zigbee sounder. There is no limit to the number of outputs which can be activated when the alarm is triggered which allows the user to operate lights and other mains powered equipment when the alarm is triggered.
A double/multiple knock system can be implemented on each sensor and specific sensors can be used to give a delayed trigger in order to be used as an entry zone.
The two onboard keypad readers can be used to arm and disarm the alarm system as can the Live Screen interface. Wireless keypads are also available and can be used to arm and disarm the alarm. Furthermore, a simple wired or wireless switch can be used to arm the alarm.

Arming/Disarming Buttons

It is recommended that the first step in implementing the alarm system is to create an Arm and Disarm button on the Live Screen. To do this click the '+' button on the Live Screen and select 'Buttons'

In the example, we have added an 'Alarm On' and 'Alarm Off' button. We can use these at the next stage to arm and disarm the alarm. There is no need to fill in any other box on this screen other than the name (keep Action and Event empty). After entering a name, such as 'Alarm On', click 'Add'.



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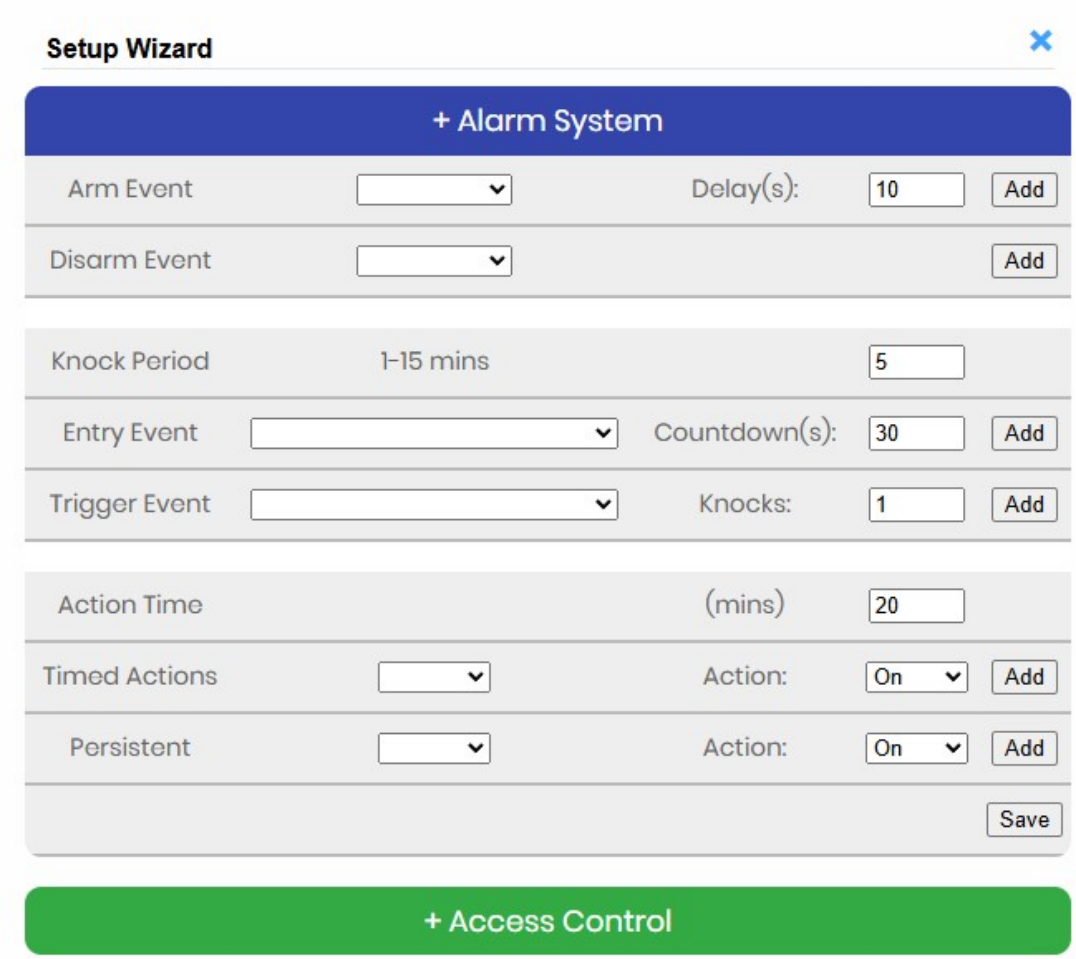
Alarm System Wizard

Once again, click on the '+' button to bring up the Functions button. There are 4 functions available:

Alarm System	this configures the system to be used as an alarm panel
Access Control	this configures the inputs and outputs for physical access control applications
Heating	this allows the installer to set up a centrally controlled heating system
Energy	this allows the user to set up an energy consumption totaliser for all sensors

Click the 'Alarm System' button to set up the alarm system. The portal will interrogate the device to find any existing alarm system settings.



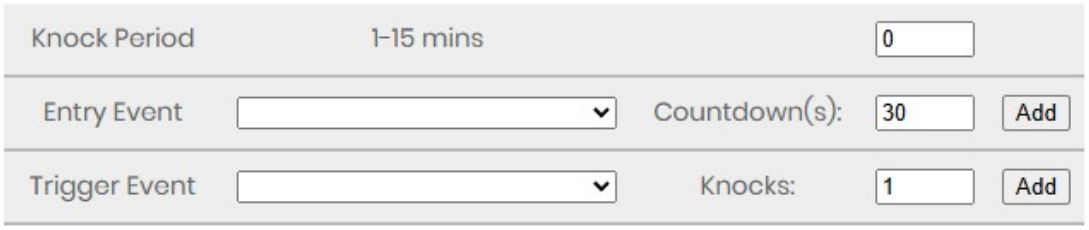
Arm/Disarm Events

Inputs, buttons, keypads and sensors are available in the 'Arm Event' dropdown box. A delay can also be specified which allows the user to leave the setting zone after initiating arming of the alarm. With the input/device selected and the delay specified, click 'Add' to add the arming method.

Multiple arming methods can be specified.

By specifying the same input/button/device to arm and disarm the alarm, the method will toggle the alarm armed/disarmed when operated.

Trigger Events and Devices



Any wireless sensor and physical input can be used to trigger the alarm. This includes Live Screen buttons and wireless buttons which can be used as panic alarms.

Where it is likely zone/sensor will trigger sporadically without due cause, a double/multiple knock system can be set up to ignore the first x activations and only trigger once a certain number of activations have occurred. The time period whilst further activations are considered is the 'Knock Period'. The 'Knocks' value on each sensor is the minimum number of activations in the Knock Period which is required to activate the alarm. Typically only 1 knock is required for most sensors/inputs.

The Entry Event is used on inputs/devices that will certainly be activated as the user goes to deactivate the alarm. For example, this might be a front door entry sensor. This allows the user 'Countdown' seconds to disarm the alarm system before the alarm is triggered.

Alarm Activation Outputs

This section allows the installer to set up the actions that occur when the alarm is triggered. Typically a wired bell is connected to the output relays with the sounder on one relay and the strobe on the other. However, a wireless sounder can also be added to the system and the relays can be reserved for other functions (for example access control).
Any wireless device, such as a mains power socket, can also be added to the system. This can be used to deter further entry into the property by switching lights on or off.

'Timed Actions' will revert to the initial state after the 'Action Time' period specified in minutes.
'Persistent' actions will stay as triggered until the alarm is reset (for example, bell box strobe lights).

When toggle is selected, the device will alternate between on and off states after each activation.