Aeon Labs Panic Button

(Z-Wave Aeon Labs Panic Button)

Change history

Revision	Date	Change Description
1	05/16/2013	Initial draft.

The Aeon Labs Panic Button is a fully functional Z-Wave remote control capable of adding, removing and controlling other Z-Wave devices. It can also become a secondary or inclusion controller to a SIS gateway in the Z-Wave network. Form-factor, industrial design and robust functionality are the major foci.

1. Library and Command Classes
1.1 SDK:5.02 P3
1.2 Library
l   Generic Device class: GENERIC_TYPE_ GENERIC _CONTROLER
l   Specific Device Class: SPECIFIC_TYPE_PORTABLE_REMOTE_ CONTROLER
1.3 Commands Class
l   COMMAND_CLASS_VERSION V1
l   COMMAND_CLASS_MANUFACTURER_SPECIFIC V2
l   COMMAND_CLASS_CONFIGURATION V1
l   COMMAND_CLASS_BATTERY V1
l   COMMAND_CLASS_WAKE_UP V2
l   COMMAND_CLASS_ASSOCIATION V1
l   COMMAND_CLASS_MARK V1
l   COMMAND_CLASS_SCENE_ACTIVATION V1
l   COMMAND_CLASS_SWITCH_MULTILEVEL V1

2. Technical Specifications
Operating Distance: Up to 50ft (15 meters) indoors and 165 ft (50 meters) outdoors.

3. Familiarize yourself with your Panic Button
3.1 Interface

4. Panic Button Supported Mode functions

4.1 Setup Mode Functions

Button	Description/Functions
Include	When pressed the Include/Remove button, the Aeon Labs Panic Button remote controller is able to include any other Z-Wave device (both controllers and slaves) within radio range. High power inclusion is implemented. This function only works when the Panic Button is a primary remote or inclusion remote to a SIS in the network. The Panic Button's green Led will blink slowly.
Remove	When long pressed the Include/Remove button , the Aeon Labs Panic Button remote controller is able to remove any other Z-Wave device (both controllers and slaves) within radio range. High power removal is implemented. This function only works when the Panic Button is a primary remote or inclusion remote to a SIS in the network.The Panic Button's red Led will blink slowly.
Learn	When pressed the Learn button, the Aeon Labs Panic Button is able to obtain Z-Wave network information from another controller adding it to a network. Upon a successful "learn", the Panic Button will become a secondary or inclusion controller to a SIS in the network. The Panic Button's green Led will blink slowly.

4.2 Group/Scene Mode Functions

Group mode is default mode of Panic Button, When pressed the button 1, the Group Mode will be used. If you want to change Scene Mode , the Scene Mode can be configured via Configuration Command Class (see below section).

Mode	Description
Group	If your Panic Button is in Group mode, you are able to control different Z-Wave devices with Button 1,If you don't know how to use, please refer to the manual.
Scene	If your Panic Button is in Scene mode , you can use the Button 1,the button is capable of controlling 2 different scene, called the primary and secondary scene.

	Both of these scenes can include up to 5 Z-Wave devices. If you don't know how to use, please refer to the manual.

Scene List:

Button	Trigger	Scene ID
1	Click	1
	Press and hold 2 seconds	2

5. Special rule of each command
5.1 Association Command Class

The Panic Button can also be setup to send scene activation set to any given node within its own network via the Association Command Class. There is only 1 group with a maximum of 5 associations within that group (group 1). When you set the association nodes, you must firstly set association to node 1(sis).

5.2 Wake up Command Class
After a successful "learn", the Panic Button will stay awake for a minimum of 30 seconds to receive any information directed to it (i.e. after the Panic Button has joined a Z-Wave network).

During the 30 seconds the Panic Button is awake, Alternatively , holding the "Learn" button for 3 seconds will trigger the Panic Button to broadcast a "Wake Up Notification" (Wake Up Command Class) and stay awake for 8 seconds.

5.3 Configuration Set Command Class

7	6	5	4	3	2	1	0
Command Class = COMMAND_CLASS_CONFIGURATION							
Command = CONFIGURATION_SET							
Parameter Number							
Default	Reserved				Size		
Configuration Value 1(MSB)							
Configuration Value 2							
....							
Configuration Value n(LSB)							

Parameter Number Definitions (8 bit):

Parameter Number	Description	Default Value	Size
250	Enable selective Group Mode or Scene Mode.(0==Group Mode,1==Scene Mode)	0	1
255	Reset configuration set up to default setting.	N/A	1

6.Resetting Panic Button function

If you want to reset your Panic Button, Press and hold the Learn and Inlcude button 15 seconds, If successful, the green and red LED on the front of your remote control will blink in an alternate pattern followed by the green Led illuminate for 2 seconds. If unsuccessful, the red Led will illuminate for 2 seconds. If this occurs, repeat the process again.