



Repeater
(Z-Wave Repeater)

Change history

Revision	Date	Change Description
1	10/09/2012	Initial draft.

Aeon Labs Repeater
Engineering Specifications and Advanced Functions for Developers
(V1.00)

The Aeon Labs Repeater is one product that exists in the Z-wave network to assist other nodes to reach each other. Products that are Z-Wave certified can be used and communicate with other Z-Wave certified devices.

1. Library and Command Classes:

1.1 SDK:4.54

1.2 Library:

- Basic Device Class: BASIC_TYPE_ROUTING_SLAVE
- Generic Device class: GENERIC_TYPE_REPEATER_SLAVE
- Specific Device Class: SPECIFIC_TYPE_REPEATER_SLAVE

1.3 Commands:

- COMMAND_CLASS_BASIC_V1
- COMMAND_CLASS_CONFIGURATION_V1
- COMMAND_CLASS_MANUFACTURER_SPECIFIC_V2
- COMMAND_CLASS_ASSOCIATION_V1
- COMMAND_CLASS_POWERLEVEL_V1
- COMMAND_CLASS_VERSION_V1

2. Technical Specifications

Operating distance: Up to 100 ft/30 meters indoors and 300 ft/100 meters outdoors.

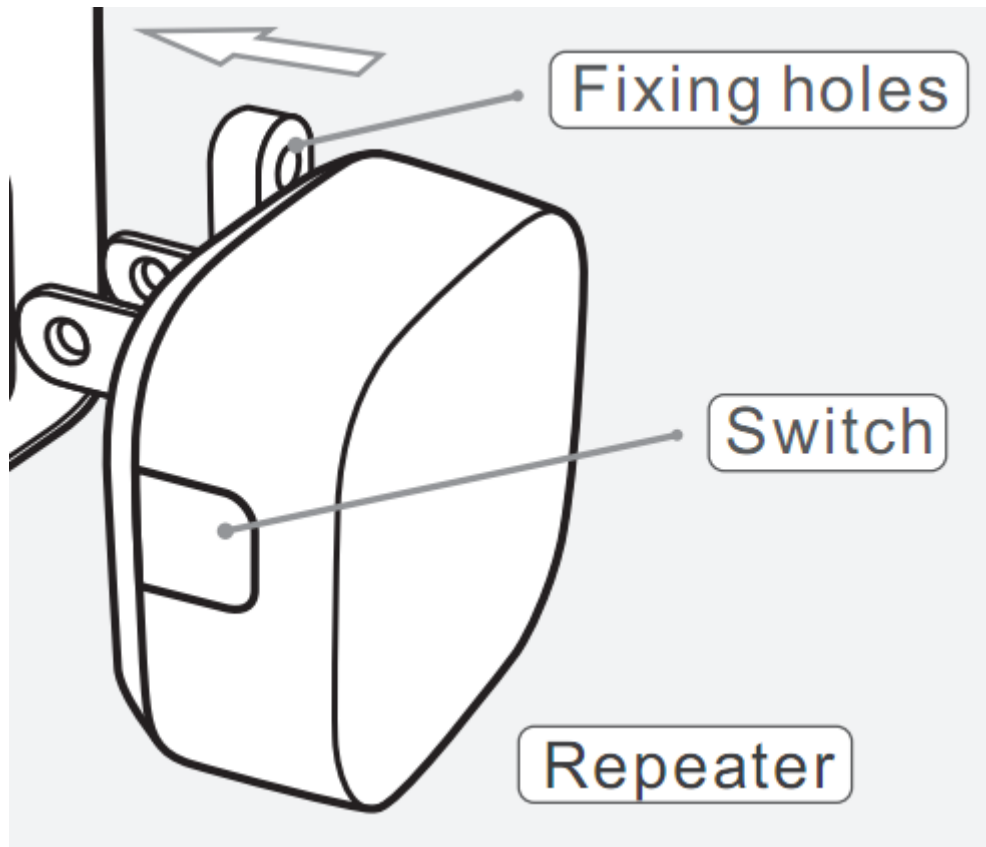
Operating temperature: -25°C to 70°C.

Relative humidity: 8-80%

Operating Voltages: 110V/60HZ

3. Familiarize yourself with your Repeater

3.1 Interface



4. All functions of each trigger are like the following

4.1 Functions of Z-wave Switch

Trigger	Description
Click	1. Let Repeater into Learn Mode which can pairing into z-wave network or remove from z-wave network.
Press and hold 20 seconds	Removed from Z-Wave network, all settings restore to factory default, include Association, Configuration settings.

5. Special rule of each command

5.1 Association command class

Repeater supports association grouping 1, can include max 5 nodes.

This command class has no function in this version, preserve for other usage.

5.2 Configuration 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
200	Partner ID (0= Aeon Labs's Standard Product, 1= AT&T 2= Jean 3= Telefonica 4-255 = Reserved for other Partner).	0	1
254	Device Tag. When Repeater removed from z-wave network, Device Tag will not change.	0	2
255	Reset configuration settings to default values, except parameter is 254	N/A	1