IR CONTROLLER
USER MANUAL

IR Controller

Introduction

IR Controller is a Z-Wave/IR Repeater to control all IR based Devices, It can operate on two AA Batteries or 5V DC. Since this product is based on Z-Wave Technology it can also be operated remotely within the home or from outside. IR Repeater can be used out of the box and needs no configuration. However, it supports different configuration parameters that extend its functionality.

Technical Specification

Power Input	5V-1A Max.(DC Adapter) or 2 x AA Batteries
Maximum Load per Channel @240VAC	NA
CumulativeLoad – 4 Channels Muxed @240VAC	NA
Operating Temperature	-10° to +55°C
Temperature Sensing	5° to +40°C (+/-2°)

Relative Humidity	8% - 80%RH
Dimensions	71mm x 71mm x 27mm
Radio Frequency	865.2MHz (IN)
Surge Protection	NA
Typical Line of Sight Range	10~15m Indoor /30m Outdoor
Plastic Housing	Cover - PC, Case ABS
Supported Load Type	IR Based devices like AC, AV, Setup Box, Projectors & Fan

Installation Steps

Inclusion from the Network :
The term "INCLUSION", "ADDING", "PAIRING" implies the same meaning. Inclusion is a process by which a new Device (or a Device which previously got out of Z-Wave Network by force reset or Exclusion process) can join a new or existing Z-Wave Network. Basically, two steps are involved in Inclusion process:
1. Set Gateway/Controller into the inclusion mode (See Gateway User Manual).
2. Set Device into the Learn Mode.
- Learn mode can be invoked by one-time short press of Prog Node_Info Key (black colour button behind the Device).
- User Indication: Blinking of green LED shows successful Inclusion.

Exclusion from the Network :
The term "EXCLUSION", "REMOVING", "UNPAIRING" implies the same meaning. Exclusion is a process by which an already included Device can be made to leave its existing Z-Wave Network. Upon Exclusion all user configuration parameters are set to their default values. Exclusion of Device can be done in two steps:
1. Set Gateway/Controller into the Exclusion Mode (See Gateway User Manual).
2. Set Device into the Learn Mode.
- **User indication:** Blinking of red LED shows successful Exclusion.
- **Learn Mode** can be invoked by one-time press of NODE_INFO key.

LED Indications

The Device with the help of on-board LEDs reflects the following states:
RED LED blinking (1 s approx.): Device is not a part of any Network, started Learning Mode and ready to be included into any Z-Wave Network.

GREEN LED blinking (1 s approx.): Device is already a part of Z-Wave Network, started Learning Mode and ready to be excluded from Z-Wave Network.

GREEN LED Flash one time (1s approx.): Device is currently communication with Gateway/Controller.

RED LED glow continuously: Device is in IR code Learning Mode.

RED & GREEN LED fast blinking: Firmware upgrade via OTA is in progress.

Force Resetting the Device

Device reset can be invoked by press and hold NODE_INFO/Pairing Button for more than 10 seconds. User indication: Flashing of RED and GREEN LED shows a successful reset. Once the Device resets, it will no longer be a part of the Z-Wave Network and all the user configuration parameters are set to their default values.

Note: Please use this procedure only when the Network Primary Controller is missing or otherwise inoperable.

Product Configuration Settings

Configuration Parameters
The product is factory set to default values so that it can operate normally without the need for any additional parameter setting. Below is the description of parameters supported by this product to further enhance its functionality.

- **Parameter 01:** Temperature sensor polling time.
- **Size:** 1 Byte
- **Range:** 1 to 60 (in minutes)
- **Default:** 1 (in minutes)
- **Description:** This parameter decides the polling time of temperature sensor value.

- **Parameter 02:** Power Mode.
- **Size:** 1 Byte
- **Range:** 0 - 1(0 - Battery, 1 - Adapter)
- **Default:** 0 (Battery)
- **Description:** This parameter decides the power supply for the Device.

- **Parameter 03:** AC & AV Key Learning
- **Size:** 1 Byte
- **Range:** 0-1(0 - AV, 1 - AC).
- **Default:** 0 (AV)
- **Description:** This parameter decides which remotes is being learnt : 0 for AV and 1 for AC.

Adding Remotes

After the Inclusion of the device to add the remotes for controlling follow the below steps :

1. Go to Devices.
2. Click on the Edit Button for the IR Controller.
3. Click on the Add Button.
4. Select the remote
5. Click Add.
6. Remote gets added to the App.

Note:

1. **Maximum limit for the remotes is 4 that is you can control 4 remotes using one IR Controller.**
2. **Voice enabled Bluetooth and RF remotes cannot be controlled through IR Controller.**

Key Synchronization (Learning)

After adding the remote for key synchronization follow the below steps: Need to Configure the Parameter before doing the Key Synchronization, Input Parameter number 3 and give value 1 for AC Remote Learning and parameter number 3 and value 0 for AV Key Learning.

- **Click on Key Synchronization**

- **Click on the button for which Key Synchronization needs to be done.**
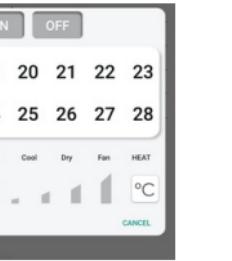
- **Now press the same button from the Actual Physical Remote**

please press the "Off" button until the gateway sounds a "du" tone.

10 cm

original remote

Repeat the same process for all the buttons.

Installation Details

Table Mount

Wall Mount

Ceiling Mount

⚠ WARNING

CHEMICAL BURN HAZARD
Keep batteries out of reach of children. If swallowed seek immediate medical attention. Failure to follow these instructions may result in death or serious injury.
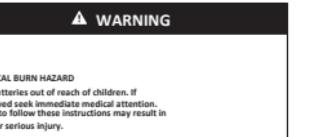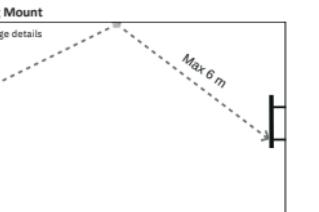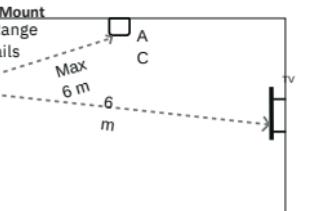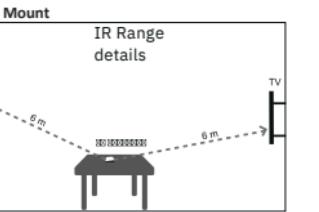
## Installation

A. Battery installation

1. Remove the top cover by sliding
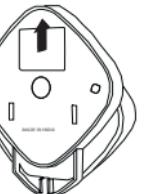
**2. Place the battery to the battery compartment**
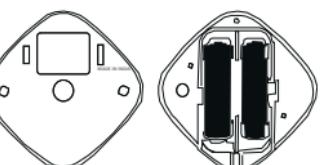

3. Close the top cover by sliding .
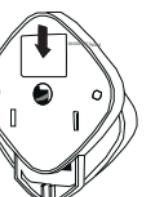
B. Adapter installation

1. Remove the top cover by sliding
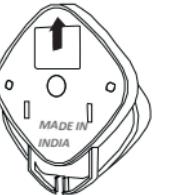
2. Connect the adapter to the module
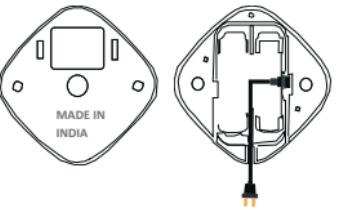
3. Close the top cover by sliding .
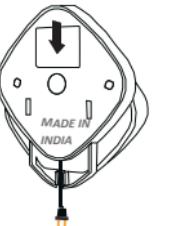
Dispose of the Device separately from household waste at an official collection point. Professional recycling protects people and the environment against potential negative effects.

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