

H2A

TEQ-SB9100A-S-EN

RF + Bluetooth Relay Control

Bluetooth Mesh

CE

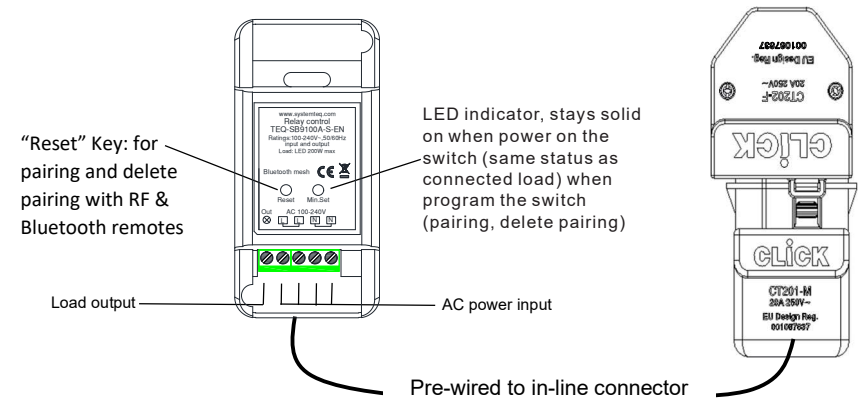
FC

RoHS

COMPLIANT

Important: Read All Instructions Prior to Installation

Function introduction



Product Data

Input Voltage	Output Voltage	Output Current
100-240VAC	100-240VAC	Resistive load: max. 4.8A Capacitive/Inductive load: max. 1.4A

Compatible Load Types			
Load Symbol	Load Type	Maximum Load	Remarks
	LED lamps	300W @ 230V 150W @ 110V	Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power factor result when connected to dimmer.
	LED drivers	300W @ 230V 150W @ 110V	Maximum permitted number of drivers is 300W divided by driver nameplate power rating.
	Incandescent lighting, HV Halogen lamps	1000W @ 220V 500W @ 110V	
	Low voltage halogen lighting with electronic transformers	300W @ 230V 150W @ 110V	

Safety & Warnings

- DO NOT install with power supplied to device
- DO NOT expose the device to moisture

Main Features:

- RF + Bluetooth in wall switch
- 100-240VAC Wide Input and Output Voltage
- Soft start function,
- Supports resistive loads, capacitive loads or inductive loads
- 1 channel output, max. load up to 4.8A
- Enables to control ON/OFF of connected light source
- Controlled through both smart App and remote controls, no gateway required
- Easy & quick pairing to the smart App by simply pushing the reset button, supports voice control through Alexa
- Mesh network, much longer control distance, transmits received signal to neighbour devices
- Up to 30m transmission distance between every two neighbour devices
- Encrypted two-way communication, quick status feedback, safe & reliable data transmission
- Compatible with universal RF + Bluetooth remotes, each LED controller can pair to max. 8 remotes
- Cloud control is available for remote access, works with Amazon Alexa and Google Home
- Radio Frequency: 2.4GHz

The switch operates under the following loads:

- Conventional incandescent and HV halogen light sources
- ELV halogen lamps (with electronic transformers)
- MLV halogen lamps (with ferromagnetic transformers)
- Compact fluorescent CFL tube lamps with electronic ballast
- Fluorescent tube lamps with electronic ballast
- Supported light sources (power factor > 0.5) with minimal power of 3W using the Bypass (depending on the type of load)

Operation

Pair/delete the pairing with RF + Bluetooth remote

1. Do wiring according to connection diagram.
2. Pair LED controller with RF + Bluetooth remote: please refer to the instruction of the remote that you would like to pair with.
3. Delete the pairing:
(1) Wire up the LED controller correctly, power on.
(2) Press and hold down the “ **Reset**” button on the controller for over 3 seconds (or reset power of the device 8 times continuously if the button is not accessible to factory reset the device) until the connected light flashes, which means well deleted.

Note: factory resetting will restore all configured parameters of the device on the APP to factory default setting.

Pair with smart APP

1. Do wiring according to connection diagram.
2. Download H2AAPP from IOS APP Store or Android Google Play to your smart phone or tablet by searching "H2A". (As shown in **Figure 1**)
3. Enable Bluetooth on your smart phone or tablet. (As shown in **Figure 2**)



Figure 1

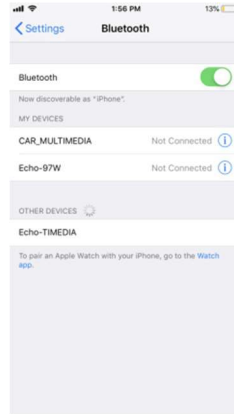


Figure 2

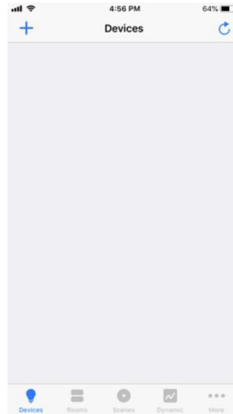


Figure 3

4. Run H2A APP, tap add button "+" on the APP to add device, then choose "Discover devices" to discover device, then **short press the "Reset" button on the dimmer twice** (or **reset power of the dimmer twice continuously**) to set the device into pairing to APP mode. (As shown in **Figure 3 & Figure 4 & Figure 5**)

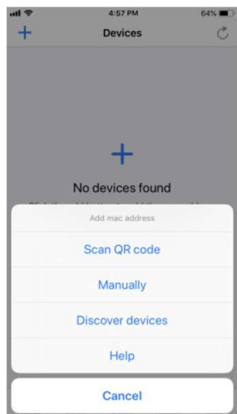


Figure 4

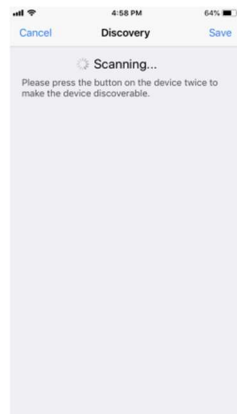


Figure 5

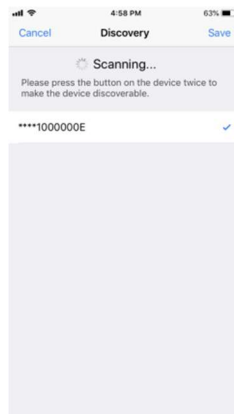


Figure 6




Note: multiple dimmers can be discovered by the APP at the same time.

5. Once the device/device are discovered, tick the device/devices and tap "Save" button, the device/device will be added successfully. (as shown in **Figure 6**)

NOTE: Switch connected to the S1 terminal activates the basic functionality of the dimmer (turning the light on/off

Wiring Diagram

Compatible load types and recommended values of power for supported loads:

Supported load types		100-240V~	
	Resistive loads Conventional incandescent and halogen light sources	20-1000W @ 230V 20-500W @ 110V	
	Capacitive loads Fluorescent tube lamp (compact / with electronic ballast), electronic transformer, LED	Using Bypass: 3-300W @ 230V 3-150W @ 110V	No Bypass Used: 20-300W @ 230V 20-150W @ 110V
	Inductive loads Ferromagnetic transformers	20-300W @ 230V 20-150W @ 110V	

Notes for the diagrams:

L - terminal for live lead

N - terminal for neutral lead

Out - output terminal of the switch (controlling connected light source)

Product Dimension

