

# WiFi&Bluetooth Controller

## GM-02



## Product Description

The Gemstone Lights HUB controller provides the ultimate in quality, flexibility, and upgradability. The Controller functions using both WiFi & Bluetooth connectivity. Get started by simply downloading the Gemstone Lights Hub app, found on the Google play store for Android or the App store for iOS.

## Product Parameters

Work voltage:12V-24VDC

Maximum current:max. 9A;

Maximum power:216W

Control type:SPI Signal Output

Work environment:Indoor

Work temperature:-30°C~40°C

Storage and Shipment temperature:-40°C~80°C

## Function descriptions

The controller is able to realize dimming, switching on and off, remote control, scene control and group control. Specific functions subject to actual functions of APP. The controller has an on-off button. Short press the button can realize mode switch, while long press the button above 3s will restore the controller to factory default settings.

The Controller must work with the specific app, for detail user instructions, please download the app Gemstone Lights HUB from app store.

## Safety and Considerations

1. The product is designed for field installing on an end product or on the wall in accordance with the National Electrical Code (NEC) (ANSI/NFPA 70), Canadian Electric Code, Part 1 (CEC), and local codes by a qualified technician.
2. When the controller is installed, AC should be disconnected from all products. No power should be attached when wiring or installing the lights. After the lights and wires are connected to the controller, the controller can then be connected to the unpowered driver (power supply). Complete the install by powering the driver to AC power.
3. The product is not waterproof and is designed for use in a dry environment only.
4. Follow the manufacturer's requirements for power.
5. If wires or cables are damaged, power off the device and have the unit repaired or replaced.
6. Failing to comply may void the warranty on the system.

**Note:** This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance 20cm between the radiator & your body.