Installation and Instruction Manual

HYTRONIK ®

Remote Control Access

HBGW02

1. Technical Specifications

DC In	DC5V/2A
WiFi Frequency	2412-2484MHz
WiFi Output Power	19.5±1dBm
WiFi Range	Max.30m
Bluetooth Output Power	0dBm
Bluetooth Range	Max.10m
LED Indicator	Power On: Red WIFI: Green Bluetooth: Blue
Operation temperature	Ta: -20°C ~ +60°C
IP rating	IP20

2. Download the App

Free App for set-up and commissioning

Bluetooth ® **5.0 SIG mesh**

HYTRONIK Koolmesh

iOS
Android

for iOS
for Android

Smartphone app for both iOS & Android platform

for iPad

Koolmesh Pro app for iPad

Web
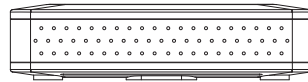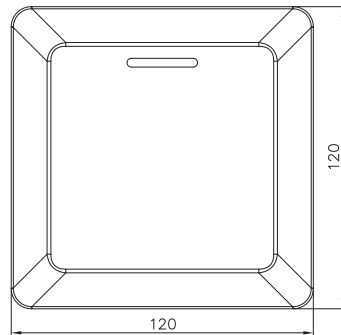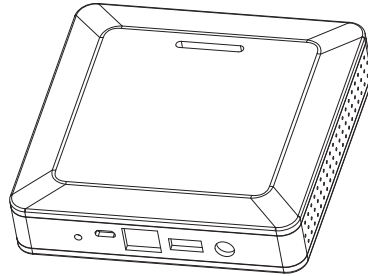
for Web

Web app/platform: www.iot.koolmesh.com

3. Installation

Dimensions

120

120

Reset   USB

30

Mechanical Structure

Internal Antenna   LED Indicator

Reset Switch

Ethernet Port   Power Input
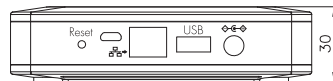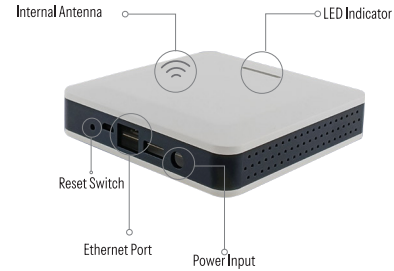
Charger   UK Charger

Receptacle Accessory

HAPOE is a POE Splitter that separates power and data in an Ethernet cable. It enables HBGW02 to obtain power and data via a single Ethernet cable, simplifying installations and eliminating the need for extra power sources.
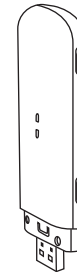

For more details, please refer to https://hytronik.com/product/hapoe

Note: HAPOE not included in the package.

4. Gateway 4G-to-WiFi Internet Access Solution

For projects where wired Ethernet is not available, we provide a USB adapter. By inserting a user-supplied portable WiFi dongle, the gateway can access the internet via WiFi.

Portable WiFi Hotspot
(for reference only)

Adapter
(for reference only)

This portable WiFi dongle is not included in the package and must be provided by the customer.

Included in the package.

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Physical Drawing
(for reference only)

The adapter must be plugged into the USB port to function properly.

Benefits of using the USB adapter:
- Simple plug-and-play setup for quick, hassle-free internet access
- Compact, slim, and lightweight design for easy deployment in tight spaces
- Enhances installation flexibility and improves airflow for better heat dissipation

*After inserting the device into the USB port, set up Wi-Fi via the Wi-Fi Companion web page. Then connect to Wi-Fi manually in the Koolmesh app under "Network Connection Status."

5. Operating Instructions

When powered on, the red power indicator LED lights up. After about 5 seconds, the blue LED for Bluetooth and the green LED for WiFi start blinking. The green LED stays solid once WiFi is connected, and the blue LED stays solid once Bluetooth is connected.
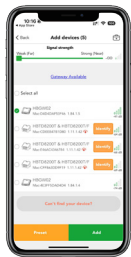
Setting Via **Koolmesh**® App

1. Open the app, go to the settings menu, and tap "Search Devices" to add a device, assign a room, and configure settings.

2. If the device is powered on but not found during the search, reset it by holding the reset switch for 5 seconds. The blue and green LEDs will blink alternately to indicate a successful reset. Then, try adding the device again.

3. Note: If the device is currently connected to another app or user, it will not appear in the search.

6. Additional Information / Documents

1. To learn more about detailed product features/functions, please kindly refer to https://hytronik.com/product/hbgw02

2. Data sheet is subject to change without notice. Please always refer to the most recent release on https://hytronik.com/products/system-level-components

3. Regarding Hytronik standard guarantee policy, please refer to https://hytronik.com/service/downloads （Guarantee Conditions document）

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