



## HYTRONIK HTG01 5.0 Real Time Keeper and Repeater Module Owner's Manual

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# HYTRONIK®



**Bluetooth 5.0 Real-time Keeper & Repeater Module**  
HTG01/F & HTG02/F



HTG01/F



HTG02/F

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## Product Description







HTG01/F & HTG02/F are Bluetooth modules with a real-time chip built in that can keep real time running for up to 12 weeks during power loss, which is very convenient for Bluetooth system/network where there is constant need for power on/off.

When a product group mesh network is created, the entire network takes HTG01/F or HTG02/F as the authoritative time. External Bluetooth antenna can be connected for a longer Bluetooth broadcast distance.

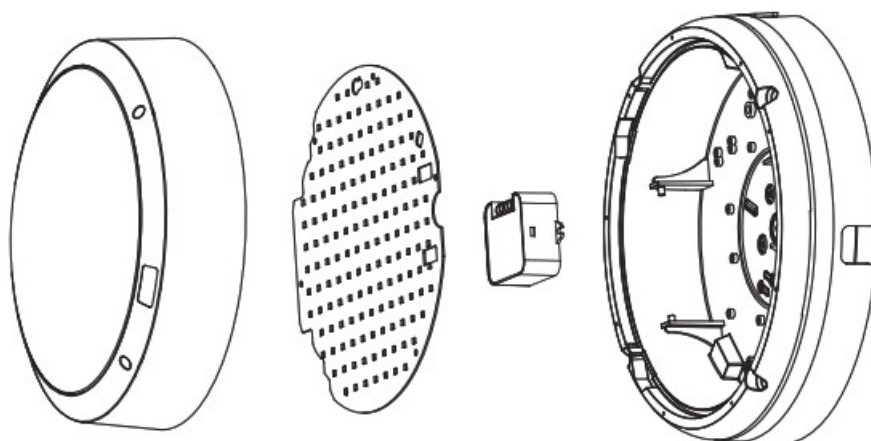
## App Features

	Compatible with EnOcean BLE switches
	Grouping luminaires via mesh network
	Device firmware update over-the-air (OTA)
	Continuous development in progress...

## Hardware Features

	Two optional reinforced antenna available
	Bluetooth range extender
	Ability to keep real-time for up to 12 weeks during power loss
	Compact design with two screw holes to be built inside luminaires
	Short-circuit protection
	5-year warranty

### Typical Switch Box Mounting



 **Bluetooth 5.0 SIG mesh**





for iOS

<https://apps.apple.com/cn/app/koolmesh/id1483721878>



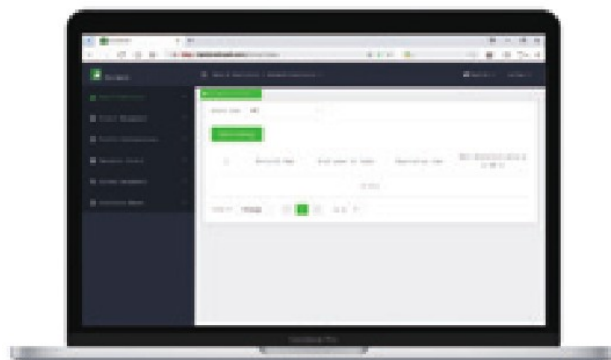
for Android

<https://play.google.com/store/apps/details?id=com.koolmesh.sig>

Smartphone app for both iOS & Android platform



<https://apps.apple.com/cn/app/koolmesh/id1570378349>



Web



Web app/platform: [www.iot.koolmesh.com](http://www.iot.koolmesh.com)

Optional accessory: Reinforced Bluetooth antenna



HTG01/F

- ※Standard version
- ※Keep up to 12 weeks time during power loss
- ※Repeater / Bluetooth range extender
- ※Up to 30m transmission distance
- ※2 screw holes for mounting



HTG02/F



Antenna option 1

- ※Up to 50m transmission distance



Antenna option 2

- ※Up to 50m transmission distance

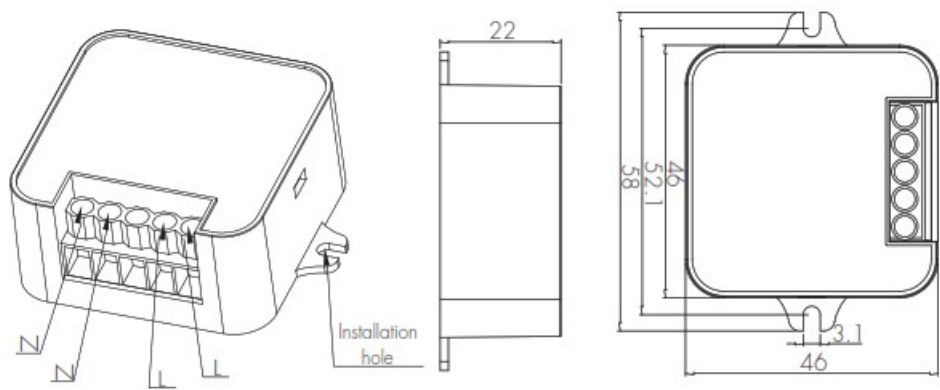
- ※Reinforced version
- ※Keep up to 12 weeks time during power loss
- ※Repeater / Bluetooth range extender
- ※2 screw holes for mounting

## Technical Specifications

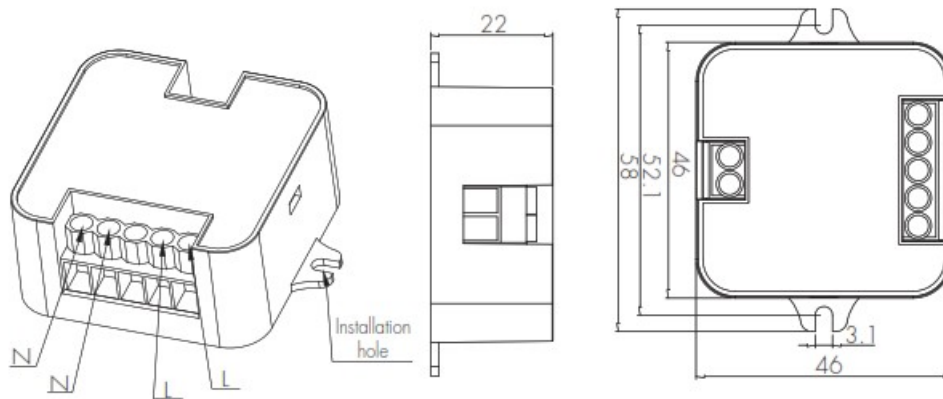
<b>Bluetooth Transceiver</b>	
Operation frequency	2.4 GHz – 2.483 GHz
Transmission power	4 dBm
Range (Typical indoor)	10~30m
Protocol	5.0 SIG Mesh
<b>Safety &amp; EMC</b>	
EMC standard (EMC)	EN 55015, EN61547, EN 61000-3-2/3-3
Safety standard (LVD)	EN61347-1,EN 61347-2-11
RED	EN 300328, EN 301489-1/-1 7
<b>Input &amp; Output Characteristics</b>	
Operating voltage	120~277VAC 50/60Hz
<b>Environment</b>	
Operation temperature	Ta: -20°C ~ +60°C
Storage temperature	-40°C ~ 70°C
Relative humidity	10 ~ 90%
IP rating	IP20
Insulation	Class II

**Mechanical Structure & Dimensions**

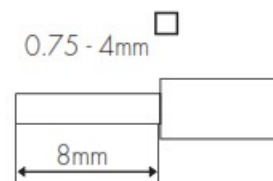
HTG01/F



HTG02/F

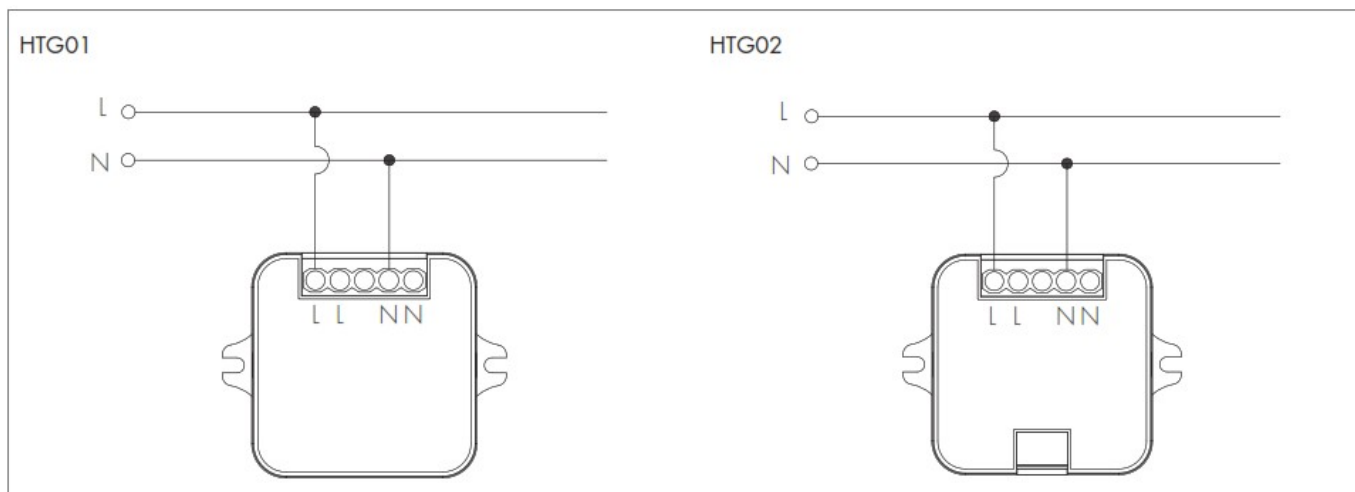


## Wire Preparation



To make or release the wire from the terminal, use a screwdriver to push down the button.

## Wiring Diagram

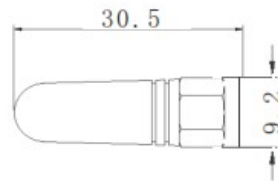


## Optional accessory: Reinforced Bluetooth antenna

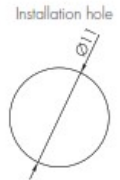
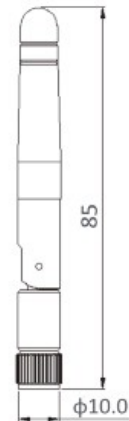
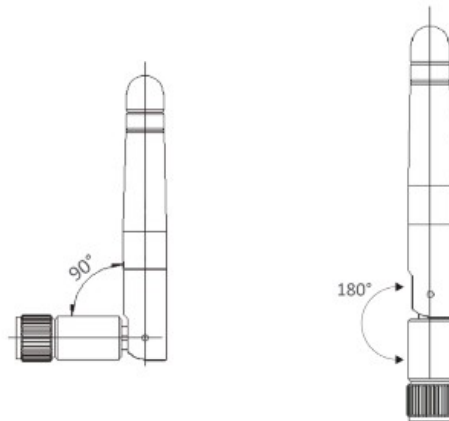
For some special Applications, customers may need a larger Bluetooth transmission for both smartphone to device and device to device. Thanks to the reinforced Bluetooth antenna (optional 1 or optional 2 to choose from), with it being added to the HTG01/F or HTG02/F, the transmission distance (smartphone to device) enlarges to 20m, the distance of device to device is around 50m.



Option 1



Option 2



## Additional Information / Documents

1. To learn more about detailed product features/functions, please refer to [www.hytronik.com/download->knowledge](http://www.hytronik.com/download->knowledge) ->Introduction of App Scenes and Product Functions
2. Regarding precautions for Bluetooth product installation and operation, please kindly refer to [www.hytronik.com/download](http://www.hytronik.com/download) ->knowledge ->Bluetooth Products – Precautions for Product Installation and Operation
3. Regarding Hytronik standard guarantee policy, please refer to [www.hytronik.com/download](http://www.hytronik.com/download) ->knowledge ->Hytronik Standard Guarantee Policy

Subject to change without notice.  
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## Documents / Resources

	<p><a href="#">HYTRONIK HTG01 5.0 Real Time Keeper and Repeater Module</a> [pdf] Owner's Manual HTG01-F, HTG02-F, HTG01 5.0 Real Time Keeper and Repeater Module, 5.0 Real Time Keeper and Repeater Module, Real Time Keeper and Repeater Module, Keeper and Repeater Module, Repeater Module</p>
	<p><a href="#">HYTRONIK HTG01 5.0 Real Time Keeper and Repeater Module</a> [pdf] Instruction Manual HTG01, HTG02, HTG01 5.0 Real Time Keeper and Repeater Module, 5.0 Real Time Keeper and Repeater Module, Real Time Keeper and Repeater Module, Keeper and Repeater Module, Repeater Module</p>

## References



- [!\[\]\(71ac35c616fd8bfda805d579390e24d8\_img.jpg\) Catalogue\\_Hytronik](#)
- [!\[\]\(b10a8b91056068472be58f587e00cb47\_img.jpg\) iot.koolmesh.com](#)

Manuals+.