### Bluetooth<sup>®</sup> 5.0 Real-time Keeper & Repeater Module

#### HTG01 & HTG02

#### **Product Description**

HTGO1 & HTGO2 are Bluetooth modules with a real-time chip built in that can keep real time running for up to 10 days 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 HTGO1 or HTGO2 as the authoritative time. External Bluetooth antenna can be connected for a longer Bluetooth broadcast distance.



HTG01

HTG02

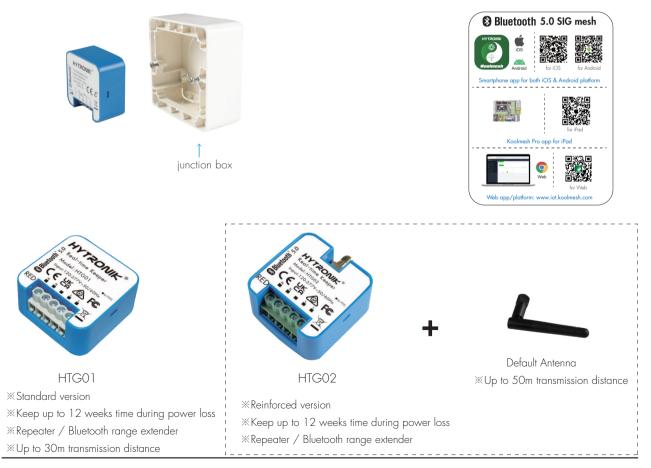
### App Features

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

### Hardware Features

- With reinforced antenna (for HTG02 only)
- **↔** Bluetooth range extender
- RTC retains timekeeping for about 10 days during power loss (For optimal performance, install the device facing down and at around 25°C. Prolonged exposure to direct outdoor sunlight may reduce RTC time to 2 days.)
- Short-circuit protection

#### 🦻 5-year warranty



Subject to change without notice.

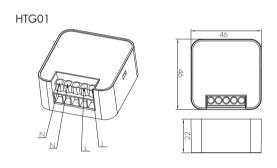
## Typical Switch Box Mounting

# Technical Specifications

Bluetooth Transceiver	
Operation frequency	2.4 GHz - 2.483 GHz
Transmission power	4 dBm
Range (Typical indoor)	10~30m
Protocol	Bluetooth® 5.0 SIG Mesh
Safety & EMC	
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/-17

Input & Output Characteristics	
120~277VAC 50/60Hz	
Ta: -20°C ~ +60°C	
-40°C ~ 70°C	
10 ~ 90%	
IP20	
Class II	

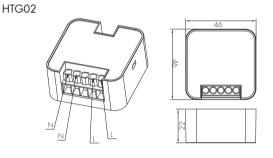
# Mechanical Structure & Dimensions



## Wire Preparation

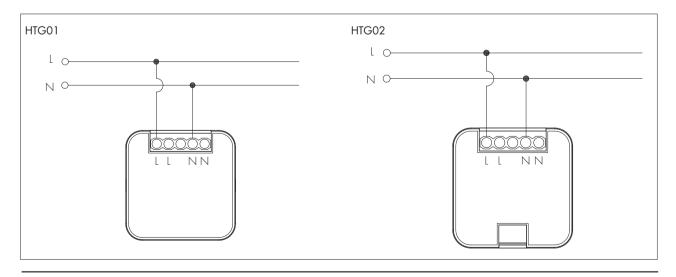






To make or release the wire from the terminal, use a screwdriver to push down the button.

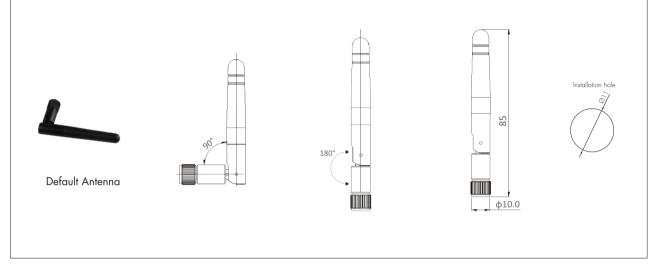
### Wiring Diagram



Subject to change without notice.

## Default Reinforced Bluetooth antenna(for HTG02)

For some special Applications, customers may need a larger Bluetooth transmission for both smartphone to device and device to device. The reinforced Bluetooth antenna, with it being added to the HTG02, the transmission distance(smartphone to device) enlarges to 20m, the distance of device to device is around 50m.



## Functions and Features



The ReakTime Clock (RTC) is a critical component in many of our BIE (Bluekooth low Energy) products, paricularly those designed losupport circodian hythm systems. The primary function of the RTC is to maintain accurate time and date information, even when thedevice is powered olf or experiences a power failure. This is crucial for ensuring that the device can reume its correct operation anaprovide timel dat or functionality once power is restored.

# Additional Information / Documents

- To learn more about detailed product features/functions, please kindly refer to https://hytronik.com/product/htg01
- 2. Regarding precautions for Bluetooth product installation and operation, please kindly refer to https://hytronik.com/service/downloads (Bluetooth Products Precautions for Product linstallation and Operation)
- Data sheet is subject to change without notice. Please always refer to the most recent release on https://hytronik.com/products/system-level-components
- Regarding Hytronik standard guarantee policy, please kindly refer to https://hytronik.com/service/downloads (Guarantee Conditions document)