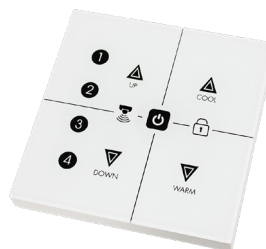


Product Description

A wall-mounted touch panel designed to operate with Hytronik range of Bluetooth products. 6 programmable scene are provided, as well as brightness and tunable white control. In addition, we have added "sensor take over" button and "clean mode" button for better use experience. The HBPO2 is programmable using **Koolmesh**® app.



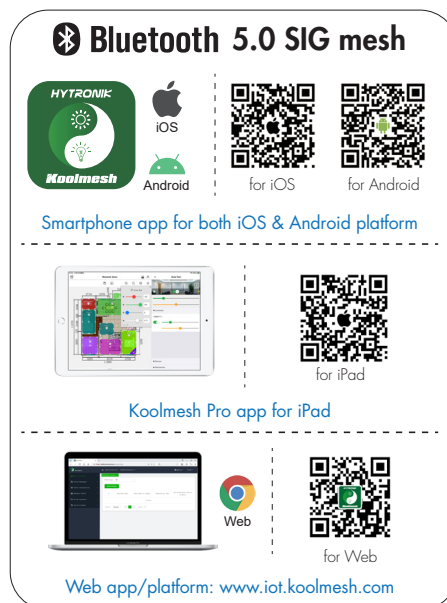
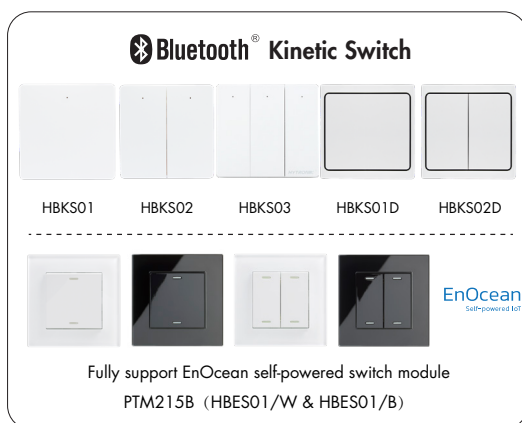
App Features

-  Floorplan feature to simplify project planning
-  Grouping luminaires via mesh network
-  Scenes
-  Compatible with EnOcean BLE switches
-  Schedule to run scenes based on time and date
-  Astro timer (sunrise and sunset)
-  Device firmware update over-the-air (OTA)
-  Offline commissioning
-  Different permission levels via authority management
-  Network sharing via QR code or keycode
-  Remote control via gateway support HBGW01
-  Interoperability with Hytronik Bluetooth product portfolio
-  Continuous development in progress...

* Certain scenes which require external photocell can be achieved by using together with Hytronik Bluetooth sensors, such as HBR29, HCD038/BT + sensor head etc.

Hardware Features

-  Mains powered
-  Designed for electrical box/junction box
-  Manual adjustment: on/off, dim and color tuning
-  Manual/Auto display screen brightness adjustment
-  Touch screen with vibration/beeper/LED indication
-  Clean mode/Screen lock time
-  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.)
-  5-year warranty



Technical Specifications

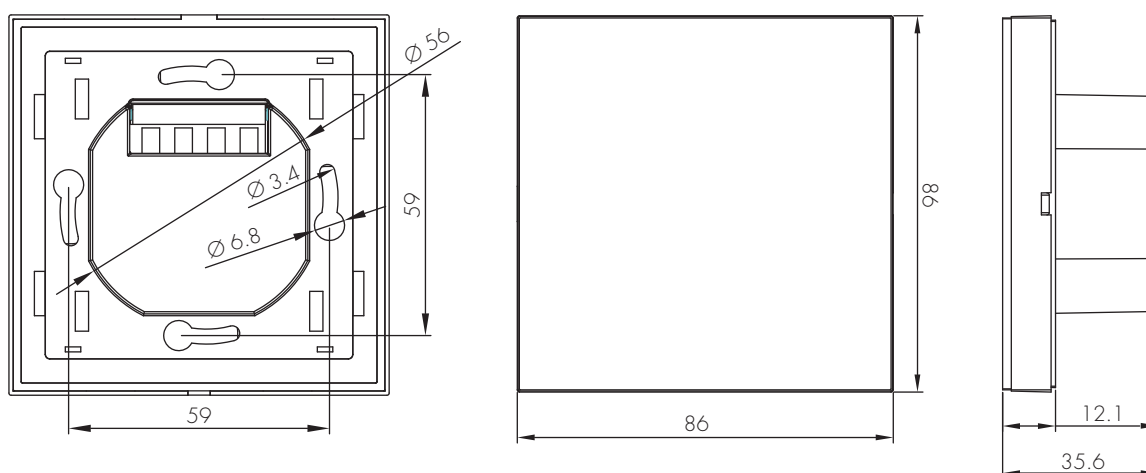
Bluetooth Transceiver	
Operation frequency	2.4 GHz - 2.483 GHz
Transmission power	4 dBm
Range (Typical indoor)	10~30m
Protocol	 Bluetooth® 5.0 SIG Mesh

Environment	
Operation temperature	Ta: -20°C ~ +50°C
Relative humidity	20% ~ 90%
IP rating	IP20

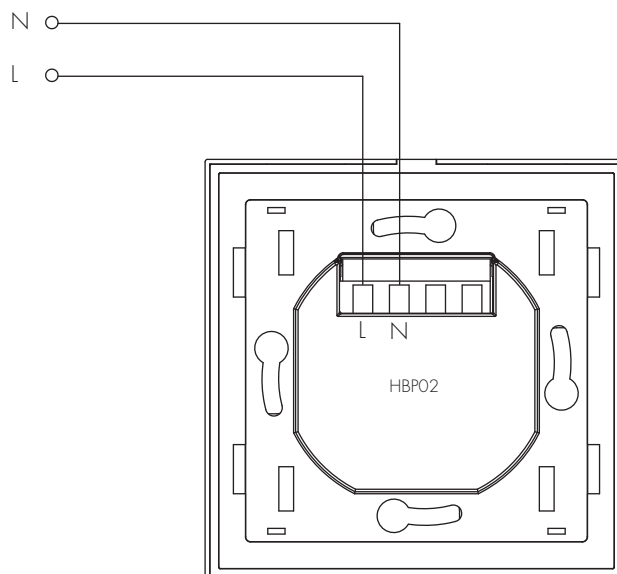
Input Characteristics	
Operating voltage	220~240VAC 50/60Hz
Stand-by power	<1.5W

Safety & EMC	
EMC standard (EMC)	EN55015, EN61000-3-2/-3-3, EN61547
Safety standard (LVD)	EN60669-1/-2-1 AS/NZS60669-1/-2-1
RED	EN300328, EN301489-1/-17
Certification	CE, RCM, UKCA

Mechanical Structure & Dimensions



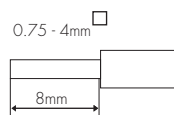
Wiring Diagram



Wire Preparation

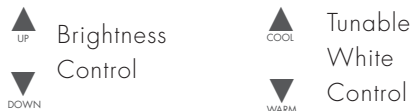


Rising clamp terminal.



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

Operation



① ② ③ ④ Scene Recall

Scenes are simply programmed using the App.

Create and name the scenes using the scenes menu, and then assign the scenes to buttons ① ② ③ ④ from the device settings menu.



Sensor take over

Press this button to quit manual override mode (Sensors will take over the control).



Clean Mode

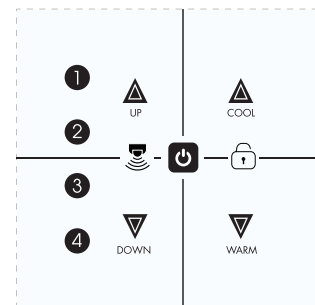
Long press this button for more than 5s to go to clean mode (during this clean mode, the touch panel screen will be locked and does not respond to any touch), it will quit automatically after 1 min.



The ON/OFF button has a configurable response via the App.

Permanent OFF (Occupancy sensor disabled).

Turning off via the ON/OFF button will suspend the entire system, including occupancy sensor. Pressing this button again will resume the last automatic profile selected, or pressing any other button on the control panel will wake up the system.



Touch Indications

Three methods for successful touch indications:

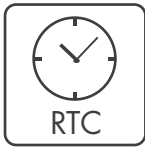
Vibration / Beeper / LED indicator

User can select any one, two or all of them to indicate successful touch on HBPO2 in the App.

Real-time Sustainability

The touch panel HBPO2 can keep the time running for up to 7-8 weeks against power failure.

Functions and Features



The Real-Time Clock (RTC) is a critical component in many of our BLE (Bluetooth Low Energy) products, particularly those designed to support circadian rhythm systems. The primary function of the RTC is to maintain accurate time and date information, even when the device is powered off or experiences a power failure. This is crucial for ensuring that the device can resume its correct operation and provide timely data or functionality once power is restored.

Additional Information / Documents

1. To learn more about detailed product features/functions, please kindly refer to
<https://hytronik.com/product/hbp02>
2. Regarding precautions for Bluetooth product installation and operation, please kindly refer to
<https://hytronik.com/service/downloads> (Bluetooth Products Precautions for Product Installation and Operation)
3. Data sheet is subject to change without notice. Please always refer to the most recent release on
<https://hytronik.com/products/system-level-components>
4. Regarding Hytronik standard guarantee policy, please kindly refer to
<https://hytronik.com/service/downloads> (Guarantee Conditions document)