

Touch Panel HBPO1

**Applications**

A wall-mounted touch panel designed to operate with the Hytronik range of bluetooth wireless controls. It features support for human centric features to provide elegant control of pre-defined circadian rhythm profiles to suit office, education and healthcare applications. 4 programmable one-touch scene recall memories are provided, as well as brightness and white balance control. The HBPO1 is programmable using the free to download Hytronik APP on both iOS and Android platforms.

Time sustainability: The touch panel HBPO1 can keep the time running for up to 1 month during power failure.

- Office / Commercial Lighting
- Classrooms
- Hospital / Healthcare

**Features**

 Free smartphone (iOS and Android) App for set-up and commissioning:

-  Scene control
-  Configurable night light
-  Circadian rhythm control

 5 Year, 50,000hr Warranty



Bluetooth Touch Panel HBPO1



Free smartphone App for set-up and commissioning

**Technical Data**

Bluetooth Transceiver	
Operation frequency	2.4 GHz - 2.483 GHz
Transmission power	7 dBm
Range (Typical indoor)	15~30m
Protocol	 Bluetooth® 4 Wireless Mesh

Input Characteristics	
Operating voltage	220~240VAC 50/60Hz
Stand-by power	<1 W
With night light	0.35W

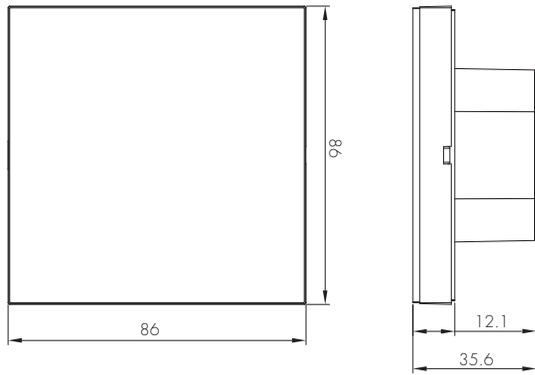
Environment	
Operation temperature	Ta: 0°C ~ +50°C
Relative humidity	20% ~ 90%
IP rating	IP20

Safety and EMC	
EMC standard (EMC)	EN55015, EN61000, EN61547
Safety standard (LVD)	EN60669, AS/NZS60669
Certification	Semko, CB, CE, EMC, RED, RCM

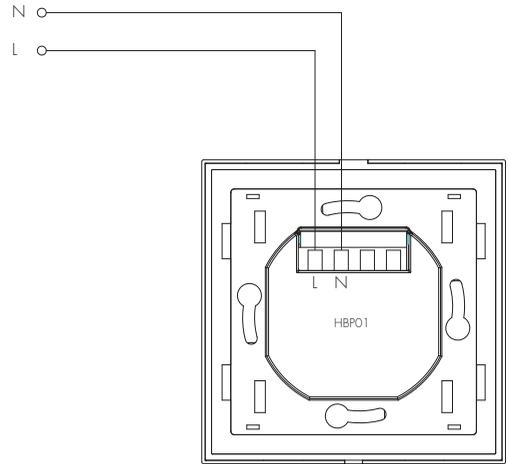
**Note:**

This datasheet is intended for information related to the HBPO1 panel only. For detailed information related to the Hytronik Human Centric system, please refer to the System data sheet and App user guide available from our website.

## Dimensions and Terminals



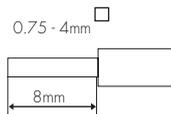
## Wiring Diagram



## Wire Preparation



Rising clamp terminal.

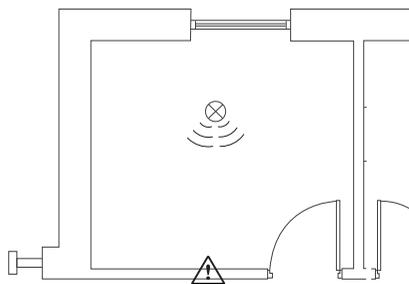


To make or release the wire from the terminal, use a screwdriver to push down the button.

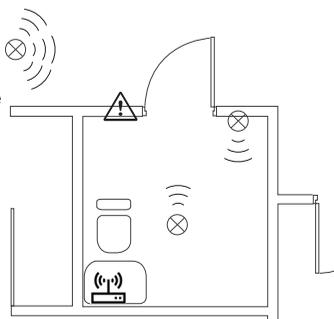
## Installation and Placement Notes

To maximise the bluetooth transmission range in every direction, the following considerations should be taken into account when situating the HBPO1 control panel:

### Device to Device Placement

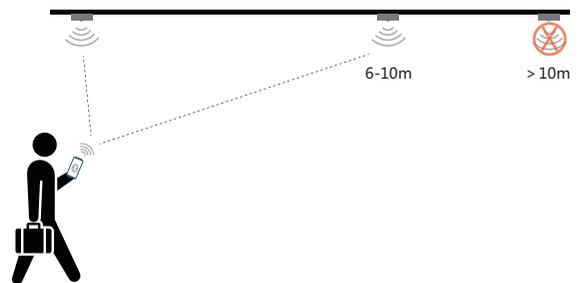


Concrete walls  
Metals, and other  
building materials  
will reduce the range



Strong signal sources such as WiFi routers and microwave ovens will affect the range

### Smart Phone to Device Range



#### Notes:

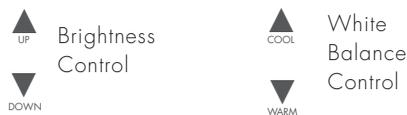
The range for which a smart phone can communicate with the lighting points will vary from model to model and is dependant on its **Bluetooth** capability.

Other environmental factors (as per opposite) will influence the ultimate achievable range of communication between smart phone and the HBPO1 and HBHC25 devices.

Device placement may offer up to 30m communication distance. However, we recommend for indoor applications that device placements should be no further apart than 15m.

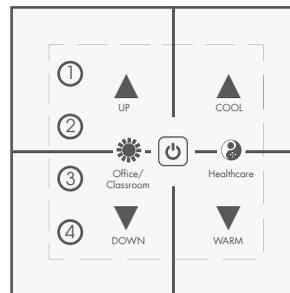
## Operation

### Manual Mode Buttons



#### Scene Memory Recall

- ① Scene memories are simply programmed using the APP.
- 
- Create and name the scenes using the scenes menu, then assign the scenes to memory buttons 1 - 4 from the device settings menu.
- ④



### Automatic Mode Buttons



Office/  
Classroom

The Office/Classroom profile may be resumed at anytime by pressing this button.

If manual adjustments are made from the Office/Classroom mode, the user settings will be cancelled and the lighting levels restored according to the Office/Classroom profile after the person has left the room (the HBHC25 occupancy sensor times out) and automatic mode is resumed.



Healthcare

The Healthcare profile may be resumed at anytime by pressing this button.

In Healthcare mode, any manual adjustments are retained until 00:00h (12am), upon which the user settings will be cancelled and the Healthcare profile will be automatically resumed.



On/Off

The On/off button has a configurable response via the APP.

1) Permanent off (Occupancy sensor disabled).

The 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 according to the button pressed.

2) Temporary off (Occupancy sensor remains active).

Office profile - The off button will turn off the lights and any manual mode settings are cancelled. Automatic mode is resumed according to the profile and the lights will turn on again automatically from the occupancy sensor, or according to function from a button selection on the HBPO1.

Healthcare profile - The off button will turn off the lights and any manual settings will be retained until 00:00h (12am). Pressing this button again before 00:00h will resume the previous lighting levels, as will the lights being turned on via the occupancy sensor. Pressing any other button to turn on the system will operate the lights according to function.

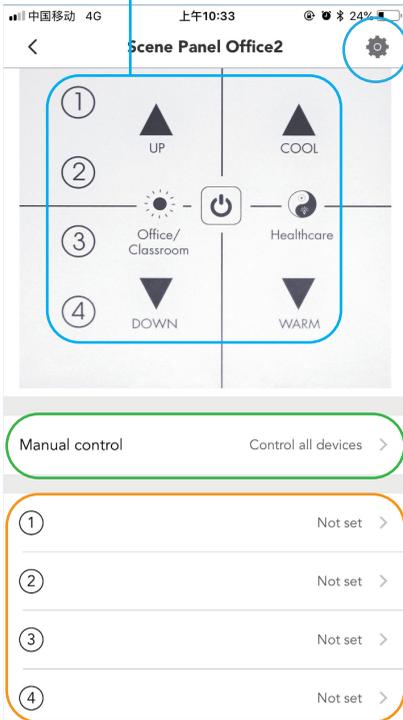
### Night Light

The HBPO1 features a night light for convenience. Its operation is fully configurable in the app.

App information



As you make settings, the image of the panel will become active for testing the button responses.



Scene assignment. Press button 1-4 from the image or the list to open the scenes menu.

Device Settings - see below.



Control a room

Control a device

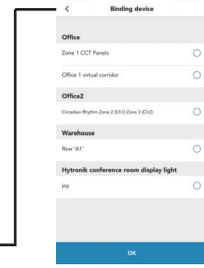
Control all devices

Control assignment. Press anywhere in the green highlighted area of the image or 'manual control' from the list to enter this set-up screen.



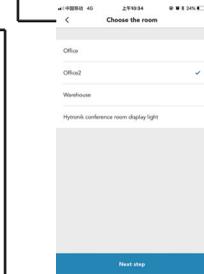
Choose the scene to be selected by the button 1-4.

A new scene may be created by using the '+' button



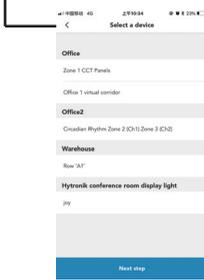
Control custom group

Choose this option when you wish the panel to control selected devices in 2 or more rooms.



Control a room

Choose this option when you wish the panel to control all the devices in a single room

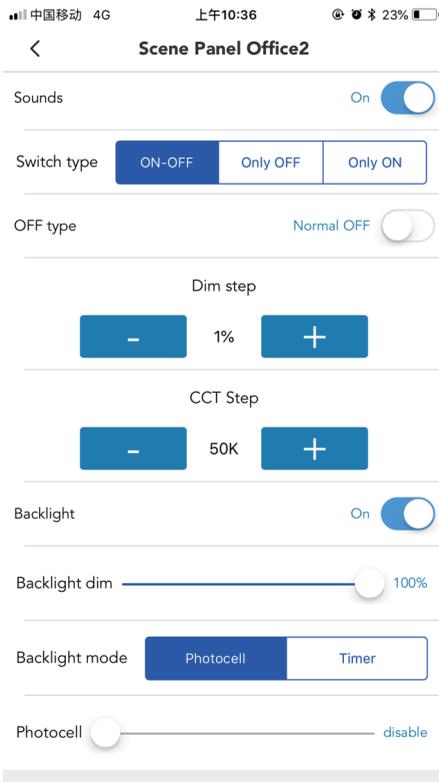


Control a device

Choose this option when you wish the panel to control a single device.

Where a device has multiple output channels, select the channel to be controlled.

The panel controls all the devices in the network.



Turns on/off the keypad sounder

Define the function of the standby button:

ON-OFF - Toggle lights on/off

Only OFF - Standby button will switch lights off. Turned on again by timer or sensor.

Only On - Standby button will switch the lights on. Turned off by timer or sensor.

OFF type:

Normal OFF - Switch lights off, they may be turned on again by timer or sensor.

Always OFF - Switch lights off, sensors and timers will be ignored. Pressing the standby button again will return the system to sensor and timer control.

Dim step:

Choose the lighting % change each time the UP/DOWN buttons are pressed.

CCT step:

Choose in Kelvin the Colour change step each time the COOL/WARM buttons are pressed

Turns on or off the keypad backlight

Control the keypad backlight brightness

The keypad backlight can be programmed to automatically switch on using the built-in photo-cell or by using a time clock

Turns on 18:00

Turns off 06:00

In photocell mode, set the natural light level at which the keypad backlight turns on/off. Select disable for always on.

In timer mode, set the times at which the keypad back light turns on/off