OS·NET

ON-PBD-815 series

Line Voltage OS-NET Button

INSTALLATION INSTRUCTIONS

ON (Ramp UP)
OFF (Fade down)
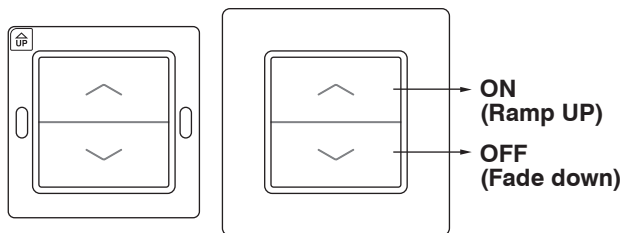
INDOOR USE ONLY
Utilisation a L'interieur Uniquement

APPLICABLE REMOTE (order separately)

Model	Description	Remarks
SRP-281	OS-NET Remote Programmer	Full functionality

SPECIFICATIONS

Power voltage	230 VAC, 50/60 Hz
Wireless protocol	Modified Zigbee Light Link (ZLL)
Radio frequency	2.4 GHz
Radio range	Typical *15 m @ indoor
Radio power output	5.72 dBm
Op. humidity	Max 95% non-condensation
Op. temperature	-10°C ~ 50°C (14°F ~ 122°F)
Dimensions	72H x 72W x 38D mm (w/mounting plate)

*Actual radio range may differ depending on environmental conditions.
Always do a site survey to understand existing Wi-Fi usage.

⚠ WARNING & CAUTION

- **Turn power OFF at circuit breaker before installing .**

⚠ AVERTISSEMENT & PRUDENCE

- **Coupez l'alimentation au disjoncteur avant d'installer.**

OVERVIEW

The ON-PBD-815 is an optional device of IR-TEC's OS-NET wireless mesh network solution exclusively designed to replace an existing wall switch/dimmer to broadcast manual on/off/dim control commands to the assigned group lighting, while also function as a network node.

This sleek, low profile OS-NET device can be mounted into a standard EURO wall box, operated by line voltage power, and provide wireless control to the grouped lighting as required. Each ON-PBD-815 can be assigned to control up to 4 lighting groups via a 2-way handheld remote programmer, SRP-281.

A screwless snap-on wall plate is supplied to create a modern, high-end appearance for all spaces. By grouping the ON-PBD-815 with OS-NET sensors, you can effortlessly achieve an energy-efficient, code-compliant smart lighting control through a state-of-the-art wireless sensor mesh network with manual controls capability for presentation or special event.

DIMENSIONS

Unit: mm
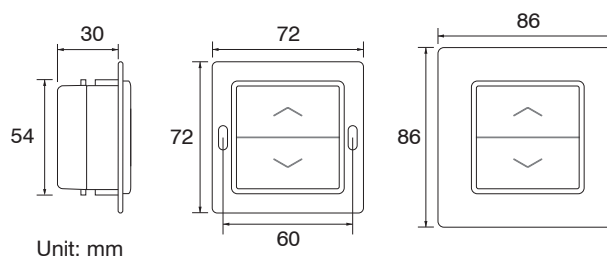
WARRANTY

IR-TEC International Ltd. warranties this product to be free of defects in materials or workmanship for a period of five years from date of shipment. There are no obligations or liabilities on the part of IR-TEC International Ltd. for consequential damages arising out or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, profit, or cost of removal, installation or reinstallation.

WIRING DIAGRAM

L
230VAC
N

N L
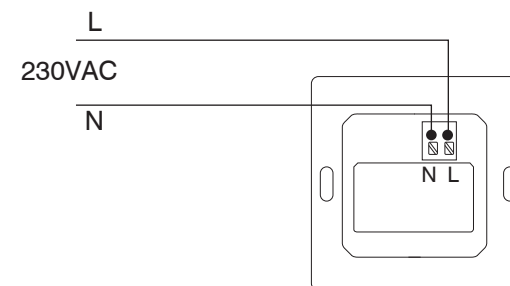
INSTALLATION

1. Lead the wires and strip the insulation with proper length for connecting.

2. Connect the wires with the device according to the wiring diagram shown above.

   NOTE: The ON-PBD-815 requires connecting neutral wire for operation. To replace the existing wall switch with no neutral wire, you may substitute the switched line wire for the neutral of lighting in accordance with electrical codes and regulations.

3. Carefully set the wires and mount the device into the wall box with screws provided.
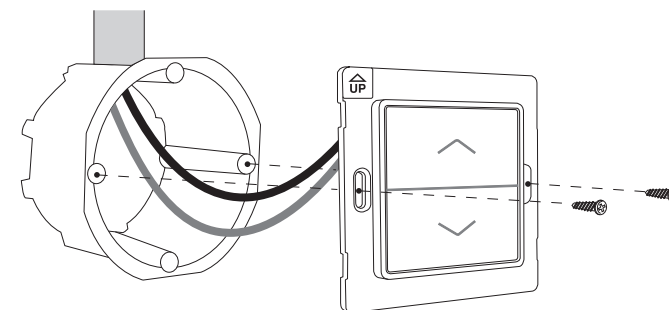
NOTE: Do NOT mount the device upside down.
NOTE: Ensure to place the device at least at 1.5m (5 ft.) away from any Wi-Fi router as they can mask or delay signals.

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CONFIGURATION

After complete the installation, each OS-NET Button should be grouped and linked with the OS-NET network to enable group control. An ungrouped OS-NET Button is functionless.

NOTE: For the first time configuration, please learn the basic operation of SRP-281 from the OS-NET Programming Guide.

CREATE A NEW OS-NET NETWORK
NOTE: You may skip this section and start grouping the device if the target network has been created.

To create a new OS-NET network, you can use EZ-GROUP to group two OS-NET devices with the same group within 1 minute. More details are available from the OS-NET Programming Guide.

INITIAL GROUPING
Every installed OS-NET Button should be assigned with its controlled group(s) to enable group control. For an ungrouped OS-NET Button, please follow the instructions below for initial grouping.
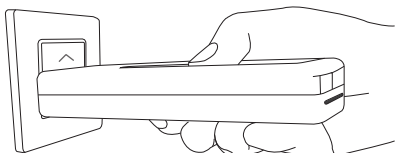
1. Enter Configuration Mode
Press and hold the **UPPER** and **LOWER** parts of the button for more than 15 seconds to enter the configuration mode. The LED indicator of OS-NET Button will blink twice per second in BLUE (ungrouped).

Press and hold for more than 15 seconds.
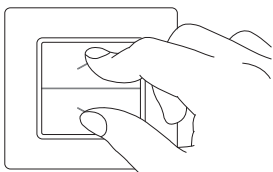
2. Assign to the group(s)
Conduct EZ-GROUP process and assign to the group(s) via the OS-NET Remote Programmer (SRP-281) as below shown. Refer to the EZ-GROUP instructions of Programming Guide for more details.

Hold the remote close to the OS-NET Button as shown to conduct grouping.

NOTE: The button will automatically exit configuration mode after grouping successfully. If grouping fails, the button will remain in the configuration mode for another 90 seconds. If no configuration has been conducted within 90 seconds, the OS-NET Button will automatically exit configuration mode.

To exit configuration mode manually, press and hold the **UPPER** and **LOWER** parts of button for more than 15 seconds.

CHANGE GROUP
To change the group assignment of an OS-NET Button, follow the instructions below;

1. Enter Configuration Mode
Press and hold the **UPPER** and **LOWER** parts of the button for more than 15 seconds to enter the configuration mode. The LED indicator of OS-NET Button will blink twice per second in GREEN (grouped).

2. Change to the new group(s)
Input the new group number(s) on the EZ-GROUP setting page. Assign the OS-NET Button to the new group(s) in the same way as INITIAL GROUPING.

DEVICE ACKNOWLEDGEMENT
The OS-NET Button will acknowledge setting success or failure with different indications by device LED.

Device led	Acknowledgement	Remarks
Slow blinking (once per 2 seconds) in BLUE.	The button is unlinked.	IR communication disabled.
Blinks twice per second in BLUE.	The button is in configuration mode but not grouped.	IR communication enabled. Device will exit configuration mode after 90 seconds if no configuration is performed.
Blinks irregularly in BLUE or GREEN.	Receiving commands from the remote.	GREEN means the device is network linked. BLUE means the device is unlinked.
Fast blinking in GREEN and BLUE intermittently.	Scanning for an open network and linking.	Fast blinking only appears during network linking.
Lit for 2 seconds in GREEN.	Grouping completed.	Exit configuration mode automatically.
Blinks twice per second in GREEN.	The button is linked and in configuration mode.	Device will exit configuration mode after 90 seconds if no configuration is performed.

OPERATION
A short press at upper/lower part of the button will transmit a command to turn on/off the lighting of groups assigned. Press and hold at upper/lower part of the button will increase/decrease the output level of grouped lighting respectively.

1. Turn On the light
A SHORT press (≤0.5 second) at the UPPER part of button will transmit a command to turn on the grouped lighting. Light will stay on as long as the grouped sensor(s) detects the occupancy, and the grouped sensor will resume control after the area is vacated.

2. Turn Off the light
A SHORT press (≤0.5 second) at the LOWER part of button will transmit a command to turn off the grouped lighting. The grouped sensor will resume control after the delay time elapsed.

3. Ramp up the light
A LONG press (≧0.5 second) at the UPPER part of button will enter into dimming adjustment mode to increase the output level of grouped lighting. Intermittent press on the button during dimming control mode will adjust the output level step by step. The device will exit from dimming adjustment mode 2 seconds after the last button operation.

4. Fade down the light
A LONG press (≧0.5 second) at the LOWER part of button will enter into dimming adjustment mode to decrease the output level of grouped lighting. Intermittent press on the button during dimming control mode will adjust the output level step by step. The device will exit from dimming adjustment mode 2 seconds after the last button operation.

NOTE: After changing the dim level, allow the LED bar to turn off before trying to switch on/off.

When the OS-NET Button is in configuration mode, all operation through the button will be void.

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