Parameters

Electrical Parameters:

Working voltage	DC5V (from wireless power interface)
Power consumption	64mA/DC5V
Wireless transmission power	+10dbm
Wireless sensitivity	-90dbm
Indoor communication distance	20m (barrier free)
RSSI Received Signal Strength Indication	>-80dbm
Factory frequency	Band, PSK (Suggestion: your setting should not be same as the factory setting

Frequency allocation:

(China) WPAN	780 to 786MHz
(Europe) SRD	864 to 870MHz
(North America) ISM	904 to 928 MHz
Default PSK	HDL-SecurityKey0

Environmental Conditions:

Working temperature	-20℃~45℃
Working relative humidity	<90%
Storage temperature	-40℃~+55℃
Storage relative humidity	<93%

Approved:

CE
RoHS

Product Information:

Dimensions	55.5mm×55.5mm×16.8mm
Weight	30.3g
Housing material	PC
Installation	Wireless power interface, wall box
Protection rating	IP20

Installation Steps

- Ensure that the power cable is connected correctly to the wireless power interface.
- Mount the wireless power interface into the wall box.
- Connect the iSmart panel to the wireless power interface

Important Notes

- The wireless gateway or IntelliCenter Controller must be used in conjunction with the wireless power interface
- The iSmart panel must be used in conjunction with the wireless power interface.

Overview

The HDL-MPE04-RF.18 iSmart panel features four simple to use push buttons, and a central rotary dial with intergrated OLED display.
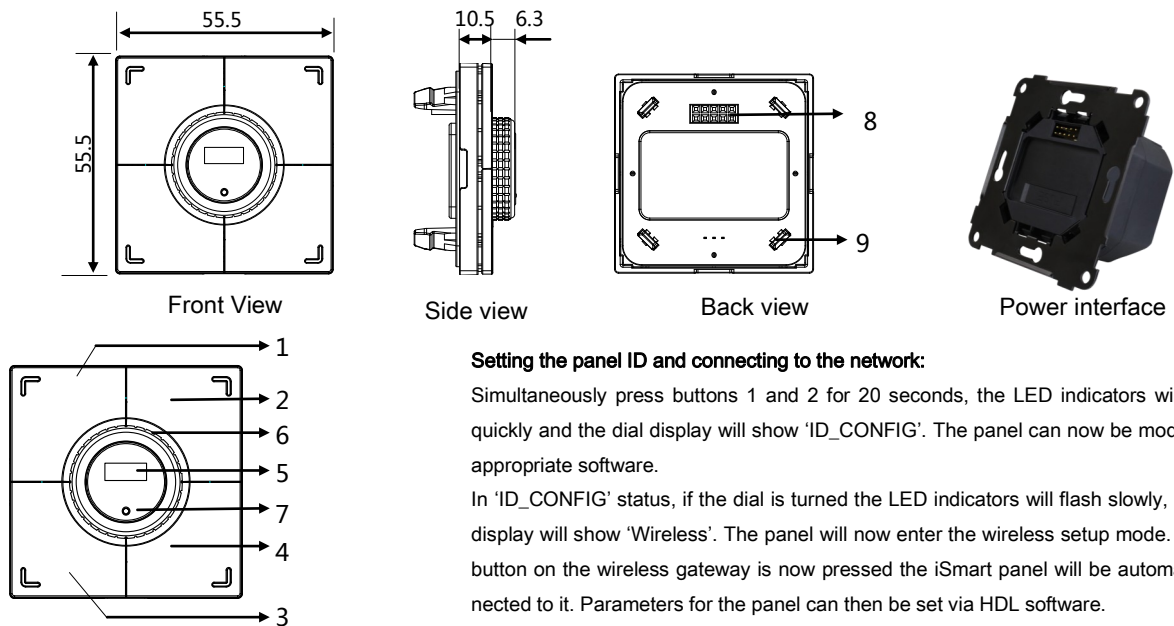
Functions

- Floor heating controller
- Five preset modes: Day, Night, Away, ECO, and Home
- Current temperature display (internal and external)
- Supports five simultaneous control channels
- Multi key control mode: Scene, Sequence, Timer switch, Universal switch, Single channel lighting control, Broadcast scene, Broadcast channel, Shading control , GPRS control, Panel control, Security module, Z-audio control, Universal control, Link page, DALI area dimmer, RGB control, IR control, Logic adjust, Logic scene.
- Supports dimming
- Adjustable LED indicator adjustment
- Supports online upgrades

Safety Precautions ⚠ WARNING

- The screw down torque should not exceed 0.1Nm.
- Mounting position: Indoor.
- Do not let the module come into contact with liquids.

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1/2

Dimensions and Wiring

Front View

Side view

Back view

Power interface

1,2,3,4 are panel buttons.

5.OLED display screen, capable of displaying current time and temperature.

6.Rotary dial: different modes have different dial functions.

7. Temperature sensor: used to detect the internal temperature

8. Buspro port: Connects the iSmart panel to the Buspro system

9. Module clip: Secures the iSmart panel to the user interface

Changing work modes:

The iSmart panel has two working modes: smart panel mode and floor heating mode.

If button three and four are simultaneously long pressed, the red LED indicator will flash, this shows that the working mode has been changed.

When iSmart panel is in floor heating mode, after 10s none operation, it will be change into smart panel mode.

When floor heating disable, it will be can't change into the floor heating mode.

Smart panel mode:

Button 1,2,3 and 4 are panel buttons which can be used to set control targets. Parameters for these control targets must be set via the HDL Buspro software.

Dial functions: Rotary dimming and rotary on/off switching.

Setting the panel ID and connecting to the network:

Simultaneously press buttons 1 and 2 for 20 seconds, the LED indicators will then flash quickly and the dial display will show 'ID_CONFIG'. The panel can now be modified via the appropriate software.

In 'ID_CONFIG' status, if the dial is turned the LED indicators will flash slowly, and the dial display will show 'Wireless'. The panel will now enter the wireless setup mode. If the 'Prog' button on the wireless gateway is now pressed the iSmart panel will be automatically connected to it. Parameters for the panel can then be set via HDL software.

Floor heating mode:

When in user standby status, the dial sets the temperature of the current working mode.

When a button is pressed, the functionality of the dial will change.

Button 1: ON, OFF

Button 2: Switch between displaying the interior temperature and the exterior temperature. For this function the dial is not used.

Button 3: Set the working mode, choose from Day, Night, Away, Time, and Home. To enter the standby status, press button 3 for three seconds to set the heating, cooling, and auto functions.

Button 4: Set the temperature of each working mode. For this function the dial is not used. Supports PWM value output via HDL software.

Note: If you wish to control floor heating, the floor heating status must be activated.

OLED display:

Standby: Standby mode will be entered after 10 seconds of panel inactivity. In standby mode the current time and temperature will be displayed.

Set the working mode: Choose from Day, Night, Away, Time, and Home modes.

Set the function: Heating, Cooling, or Auto

Switch: On or Off

Temperature: Display the current temperature.

When the brightness is adjusted the progress bar will be displayed

Upgrading:

Simultaneously press buttons 3, 4, and the power button. The manual upgrade mode will then be entered.

Installation

Step 1：Install the wall box (EU)

Step 2：Install the power interface

Step 3：Affix frame to the wall box

Step 4：Install the panel

Package contents

Panel *1 / Datasheet*1/

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2/2