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IMHOTEP BRI4PIMHA Wireless Multi-Protocol Gateway

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IMHOTEP

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Specifications

- **Product Name:** BRI4PIMHA Wireless Multi-Protocol Gateway
- **Supported Protocols:** LoRa, Wi-Fi, Bluetooth, ZigBee
- **Main Features:**
    - Customizable 2-in-1 mobile application
    - One-touch pairing
    - OTA (Over The Air) microprocessor for remote software updates
    - Elegant, modern design

Product Usage Instructions

Installation Options
The Gateway offers 3 installation options:

1. Placed on a flat surface (furniture, desk) using the anti-slip pads
2. Wall-mounted using screws and anchors or adhesive tape (accessories supplied)
3. Easy installation with the provided plug and USB cable

Communication
The Gateway uses Bluetooth for local control and management of connections, and Wi-Fi for remote control features.

Local Control
Connect the Gateway to the free mobile application via Bluetooth for local control without the internet. Configure installation parameters and settings.
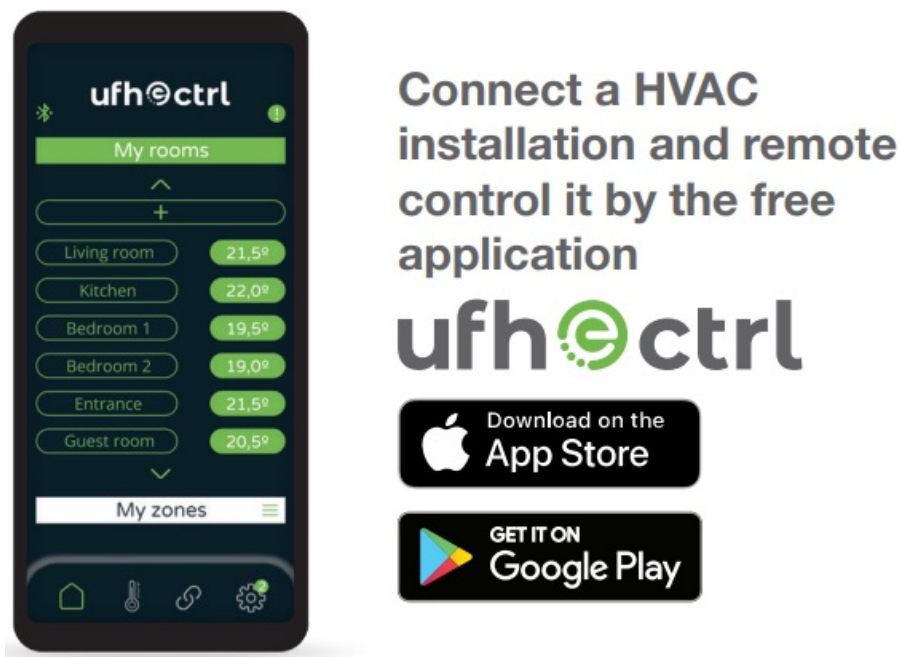
Remote Control
For remote control via the Internet using Wi-Fi, manage setpoint temperatures, operating modes, programming, diagnostics, and connect to third-party home automation boxes.

Wireless Transmission
The Gateway supports BLE, Wi-Fi, LoRa, and ZigBee transmission protocols at specified frequencies for

communication and control.

Connect a HVAC installation and remote control it by the free application

Overview

Main features

- **Multi-protocol gateway**: LoRa, Bluetooth, Wi-Fi and ZigBee
- **Via UFH Ectrl mobile application**: Remote control of several ecosystems of products such as controllers and thermostats.

Applications
Hydraulic underfloor heating/cooling

Benefits

- Customizable 2-in-1 mobile application with intuitive interface:
- **Installer mode**: quick and easy configuration and commissioning
- **User mode**: system information and management
- One-touch pairing
- 3 multifunctional indicator lights: informs you of the status of networks connections and warnings
- OTA (Over The Air) microprocessor for remote software updates via the Cloud
- Elegant, modern design

Functional specifications

Use

- **Communication**

The Gateway is managed by the app, using Bluetooth for pairing and management of the connections, and uses Wi-Fi for remote control features

- **It can manage :**
  - – LoRa products and connect products to the Cloud via Wi-Fi
  - – LoRa products by ZigBee box through ZigBee 3.0 protocol

- **Use cases**
  - **Local control (via Bluetooth, with or without Internet):**
    - Connection of the gateway with free mobile application and pair with associated products without internet;
    - Installation parameters and settings
  - **Remote control (via Internet)**
    - Wi-Fi: Management of setpoint temperatures, choice of operating modes, start/stop of programming, display of setpoint temperatures for each room, and access to diagnostics
    - Gateway connection to a third-party home automation box, enabling remote control of the installation via a dedicated application (ZigBee ecosystem)

- **Connexion au**
  Cloud Secure backup of data on a dedicated personal account
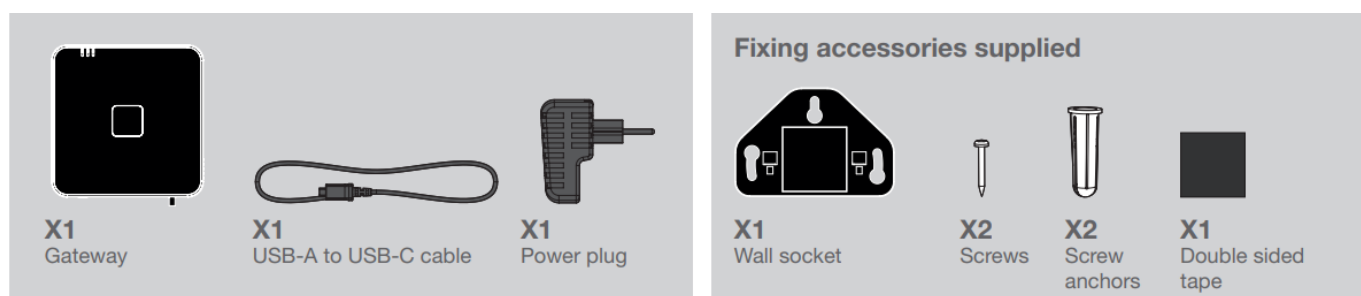
Installation

- **3 installation options**
  Placed on a flat surface (furniture, desk) thanks to its 4 anti-slip pads
  - Wall-mounted (accessories supplied):
    - Using screws and screws anchors
    - Or fixed with the adhesive tape

Pack content

Note: Spare parts are available and can be purchased separately, contact us for more information.

Easy to install: connection with the plug and USB cable supplied

Wireless transmission

Protocol	Frequency	Use
BLE **(Bluetooth Low Energy)**	2400-2483.5 MHz (Transmission < 6 dBm)	Pairing the gateway with the mobile application: enables the gateway to be controlled locally (without an Internet connection), guaranteeing autonomous management of the installation even in case of a power cut Association of products with the application, enabling their configuration and locally control
Wi-Fi	2400-2483.5 MHz (Transmission < 20 dBm)	Connection of the gateway to an Internet box for remote control of your installation Connection to the Cloud, for secure backup of your data on a dedicated personal account OTA (Over The Air) ecosystem updates
LoRa	869.787-869.913 MHz (Transmission < 14 dBm)	Association and bidirectional communication between LoRa radio products and the gateway
ZigBee	2400-2483.5 MHz (Transmission < 10 dBm)	Connection of the gateway to a home automation box, enabling remote control of the installation via an application specific to the ZigBee ecosystem
Transmission	When change of state, every 5 minutes otherwise	

Manual settings

Two push buttons	Central button to connect LoRa products, link the mobile application to the Gateway and connect to a ZigBee box	
	Side button for power on/off, and reset	

App settings

- **App UFH Ectrl**
    - Unpairing LoRa products
    - Change the Wi-Fi network
    - Unpair the ZigBee box

Technical specifications

Dimensional, weight and finish specifications

- Height 100 mm
- Width 100 mm
- Depth 18 mm
- Weight 100,8 g
- Color Black

Electrical specifications

- Operating voltage 230V AC ± 10%, 50 Hz + 5V DC USB-C cable
- Consumption in standby < 2W

The product is supplied with a USB cable and a power plug

Environment

- Protection rating IP20
- Class Class II
- Operating temperature 0°C to +40°C
- Max. humidity level 90% at +25°C (without condensation)
- Storage temperature -20°C to +70°C

Ecosystem

Environment with an underfloor heating/cooling system

Directives

- RED 2014/53/UE
- RoHS 2011/65/UE
- Ecodesign ERP 2009/125/CE + Regulations 801/2013/EU

Standards

- RED 2014/53/UE
- Safety EN 62368-1 ; EN 62311
- EMC ETSI EN 301489-1 ; ETSI EN 301489-3 ; ETSI EN 301489-17
- RF ETSI EN 300328 ; ETSI EN 300220-2
- RoHS EN IEC 63000
- Ecodesign EN 50564

Product codes

Code Description
BRI4PIMHA Multi-protocol LoRa/Wi-Fi/Bluetooth/ZigBee gateway, black

Compatible product(s) (sold separately)
Codes Description

UFH

- UFHRF230EIMHBA Wireless control unit for hydraulic underfloor heating/cooling systems, 12 channels, 230V electrothermal actuators
- UFHRF24EIMHBA Wireless control unit for hydraulic underfloor heating/cooling systems, 12 channels, 24V electrothermal actuators

Wireless room thermostats

- RSLRFIMHA Radio room thermostat, white version
- RSLRFIMHBA Radio room thermostat, black version

Product customization (design features) is possible. Please contact us.

- Montplaisir – 258 rue du Champ de Courses – 38780 Pont-Evêque – France –
- **Tél**. : +33 (0)4 74 58 39 56
- **contact@imhotepcreation.com**
- **www.imhotepcreation.com**

FAQ

- **Q: What are the main features of the BRI4PIMHA Wireless Multi-Protocol Gateway?**
  A: The main features include multi-protocol support, customizable mobile application, one-touch pairing, OTA updates, and an elegant design.
- **Q: How can I install the Gateway?**
  A: You can either place it on a flat surface using anti-slip pads, wall-mount it using screws or adhesive tape, or use the provided plug and USB cable for easy installation.
- **Q: How do I control the Gateway?**
  A: You can control the Gateway locally via Bluetooth without the internet or remotely over Wi-Fi using the mobile application for various HVAC settings and diagnostics.

Documents / Resources

IMHOTEP BRI4PIMHA Wireless Multi Protocol Gateway [pdf] Instruction Manual
BRI4PIMHA Wireless Multi Protocol Gateway, BRI4PIMHA, Wireless Multi Protocol Gateway, Multi Protocol Gateway, Protocol Gateway, Gateway

References

- 🔥 **Imhotep Creation : Fabricant de produits OEM-ODM mécatroniques, de systèmes et d'interfaces homme-machine de régulation**
- **User Manual**