

## BeSMART 20112079

# BeSMART 20112079 Radio Receiver Instruction Manual

Model: 20112079

## INTRODUCTION

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The BeSMART 20112079 Radio Receiver is designed to transform your BeSMART thermostat (e.g., code 20111889) into a wireless control unit for your heating system. This receiver facilitates flexible placement of your thermostat, ensuring precise ambient temperature control without the need for extensive wiring. It offers a wide radio signal coverage of up to 40 meters in open field conditions and integrates seamlessly with other BeSMART system components, including the BeSMART WiFi thermostat and WiFi Box. This manual provides essential information for the proper installation, operation, and maintenance of your BeSMART 20112079 Radio Receiver.

## SETUP AND INSTALLATION

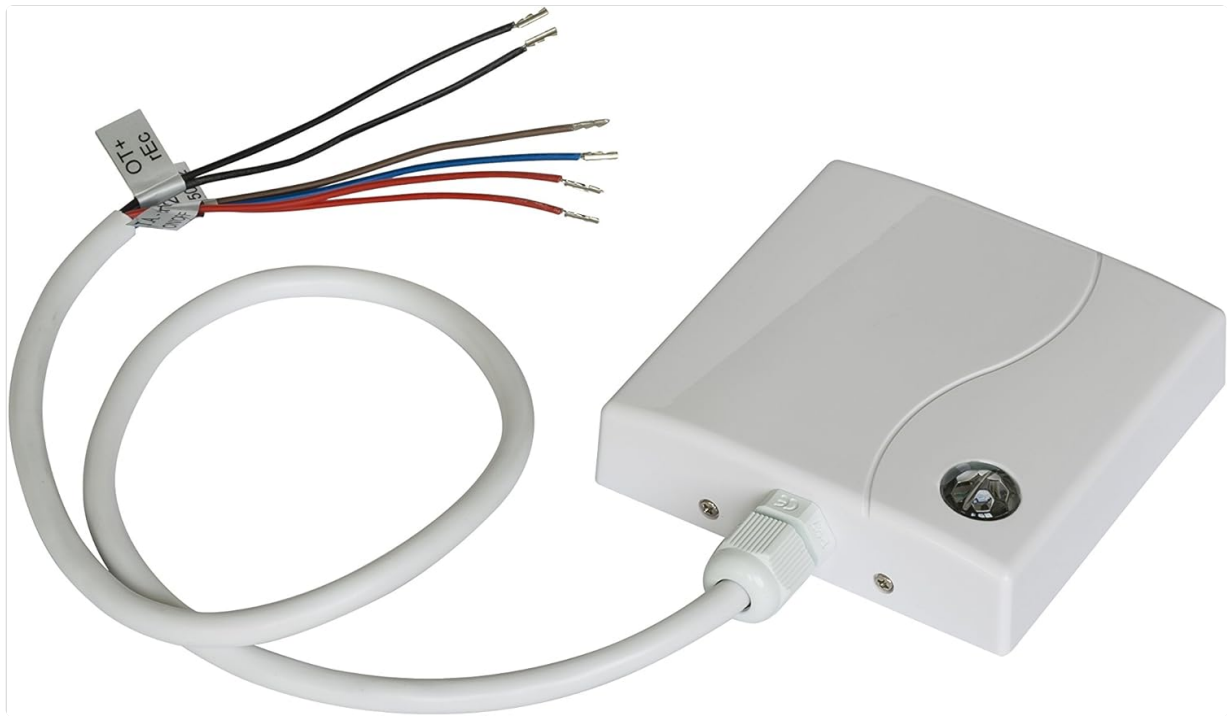
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The BeSMART 20112079 Radio Receiver requires a 230V AC power supply. It provides control outputs for both On/Off relay operation and OpenTherm compatible boilers. Ensure all connections are made by a qualified professional to prevent electrical hazards and ensure correct functionality.

### Wiring Connections

- **Power Supply:** Connect the brown and blue wires to a 230V AC power source.
- **On/Off Relay Control:** The red wires provide On/Off relay control, capable of handling a maximum of 0.25 A at 230 V.
- **OpenTherm (OTBus) Control:** The black wires are for OpenTherm communication with compatible boilers.

The receiver is designed for easy and quick pairing with BeSMART thermostats (code 20111889), BeSMART WiFi thermostats (code 20111887), and the BeSMART WiFi Box (code 20111885).



**Image 1:** BeSMART 20112079 Radio Receiver showing the power and control wiring connections. The brown and blue wires are for 230V AC power, red wires for On/Off relay, and black wires for OpenTherm communication.

## Pairing Process

Refer to the specific instructions provided with your BeSMART thermostat or WiFi Box for detailed pairing procedures. Generally, this involves activating a pairing mode on both the receiver and the thermostat/WiFi Box to establish a wireless connection.

## OPERATION

Once installed and paired, the BeSMART 20112079 Radio Receiver acts as a radio frequency actuator, enabling wireless control of your heating system components. It receives commands from your BeSMART thermostat or WiFi Box and transmits them to your boiler or zone valves.

### Wireless Thermostat Functionality

The receiver allows you to place your BeSMART thermostat in the most suitable location within your home, optimizing temperature sensing and control. This eliminates the need for fixed wiring between the thermostat and the boiler, offering greater flexibility in thermostat placement.

### Integration with BeSMART System and WiFi Box

When integrated with the BeSMART system and a WiFi Box, the receiver extends the control capabilities. It allows for the control of boilers or zone valves located in areas that may not be directly reached by the home modem's WiFi signal, effectively expanding the range and reliability of your smart heating system.



**Image 2:** A diagram illustrating the integration of the BeSMART Radio Receiver within a larger BeSMART smart home heating system, showing its role in connecting thermostats and boilers.

## MAINTENANCE

The BeSMART 20112079 Radio Receiver is designed for reliable, long-term operation with minimal maintenance. To ensure optimal performance:

- Keep the device clean and free from dust. Use a soft, dry cloth for cleaning.
- Do not expose the receiver to excessive moisture or extreme temperatures.
- Avoid obstructing the device, as this may interfere with radio signal transmission.

No user-serviceable parts are inside. Do not attempt to open or repair the device yourself.

## TROUBLESHOOTING

If you encounter issues with your BeSMART 20112079 Radio Receiver, consider the following:

- **No Power:** Ensure the receiver is correctly connected to a 230V AC power supply and that the power source is active.
- **No Communication with Thermostat/WiFi Box:**
  - Verify that the receiver and the thermostat/WiFi Box are properly paired. If necessary, repeat the pairing process.
  - Check the distance between the receiver and the transmitting device. While the range is up to 40 meters in open field, obstacles like thick walls can reduce effective range.
  - Ensure there are no strong sources of radio interference nearby.
- **Heating System Not Responding:**
  - Confirm that the control wires (red for On/Off, black for OpenTherm) are correctly connected to your boiler or zone valve.
  - Check the status of your thermostat to ensure it is calling for heat.
  - Consult your boiler's manual for specific wiring and control requirements.

If problems persist, contact BeSMART customer support for assistance.

## PRODUCT SPECIFICATIONS

Feature	Specification
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<b>Manufacturer</b>	BeSMART
<b>Model Number</b>	20112079
<b>Dimensions (L x W x H)</b>	10 x 10 x 2.5 cm
<b>Weight</b>	600 grams
<b>Color</b>	White
<b>Shape</b>	Square
<b>Power Type</b>	AC/DC
<b>Voltage</b>	220 Volts
<b>Power Consumption</b>	1.2 Watts
<b>Radio Signal Coverage</b>	40 linear meters in open field
<b>Control Outputs</b>	On/Off Relay (max. 0.25 A @ 230 V), OpenTherm (OTBus)

## WARRANTY INFORMATION

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BeSMART products are manufactured to high-quality standards. For specific warranty terms and conditions applicable to your BeSMART 20112079 Radio Receiver, please refer to the warranty card included with your product or visit the official BeSMART website. Keep your proof of purchase for warranty claims. Information regarding the availability of spare parts is not provided at this time.

## SUPPORT AND CONTACT

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For further assistance, technical support, or to access additional documentation and installation diagrams, please visit the official BeSMART-Home website:

[www.besmart-home.com](http://www.besmart-home.com)

You may also find contact information for customer service in your region on the website.