



ER2C



Connect an HVAC installation and control it locally or remotely via the free app



DUAL CHANNEL RECEIVER-GATEWAY

RF 869 MHz / Wi-Fi / Bluetooth®

To connect and control a heating system with a boiler or heat pump, locally or remotely

Overview

Main features

- 2-channel receiver for central heating and domestic hot water management or for controlling 2 heating zones
- Receiver function: receives commands from associated RF devices and controls the installation via 2 dedicated outputs
- Multi-protocol gateway function: ensures communication between RF 869 MHz products, local Bluetooth® control and remote control via Wi-Fi
- Bidirectional communication with the room thermostat and ecosystem products

Application

- Boiler / combi boiler : Central heating & Domestic hot water management
- Heat pump: Heating/cooling & Domestic hot water management

+ Product

- **Dual receiver and gateway function at the heart of the installation**
- 2 control channels to separate central heating or heating/cooling demand from domestic hot water, or to manage a second heating zone
- **OTA (Over The Air) microprocessor** enabling remote system updates via the Cloud
- Scalable solution allowing integration of room thermostats, connected thermostatic radiator valve controllers and other ecosystem products

Functional specifications

Use



Communication	The dual channel receiver-gateway performs 2 complementary functions Firstly, it operates as a receiver by collecting data and commands from associated RF product in order to control central heating, domestic hot water, or a second heating zone (optional) It also acts as a gateway by connecting these products to the mobile application, enabling both local operation and remote access. It therefore acts as the central link between the HVAC installation and the connected ecosystem.
Use cases	- Pairing of the thermostat with the receiver-gateway - Control of central heating (or heating/cooling) via channel 1 - Control of domestic hot water (or a second heating zone) via channel 2 - Addition of connected products to the ecosystem - Securise Cloud - Manual testing of relay outputs on the product and visual diagnostics via status LED indicators
Cloud connection	The gateway function enables the system to connect to the Cloud via the installation's Wi-Fi network. In the event of Wi-Fi loss, the system remains accessible locally via Bluetooth®, ensuring service continuity. Secure data backup on a dedicated personal account, with data hosted in France and compliant with GDPR regulations



Free **ECTRL** app available on app stores

Download on the App Store

GET IT ON Google Play

Connected kit available



Wireless thermostat + receiver-gateway included

Installation

Installation	Wall mounting (accessories supplied), wiring using the supplied universal wall mounting plate
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Protocol	Frequency	Use
BLE (Bluetooth® Low Energy)	2400-2483.5 MHz (Transmission < 20 dBm)	Gateway function for pairing with the mobile app and control without Internet connection
Wi-Fi	2400-2483.5 MHz (Transmission < 20 dBm)	Gateway function for connection to the Internet router, Cloud access and remote control of the installation OTA (Over The Air) update of the ecosystem
RF 869 MHz	869.725-869.975 MHz (Transmission < 10 dBm)	Receiver function for pairing and bidirectional communication with the thermostat and other compatible RF devices
Transmission	Radio transmission is performed at each status change, or periodically to ensure monitoring of associated devices. Supports up to 48 connected products simultaneously	

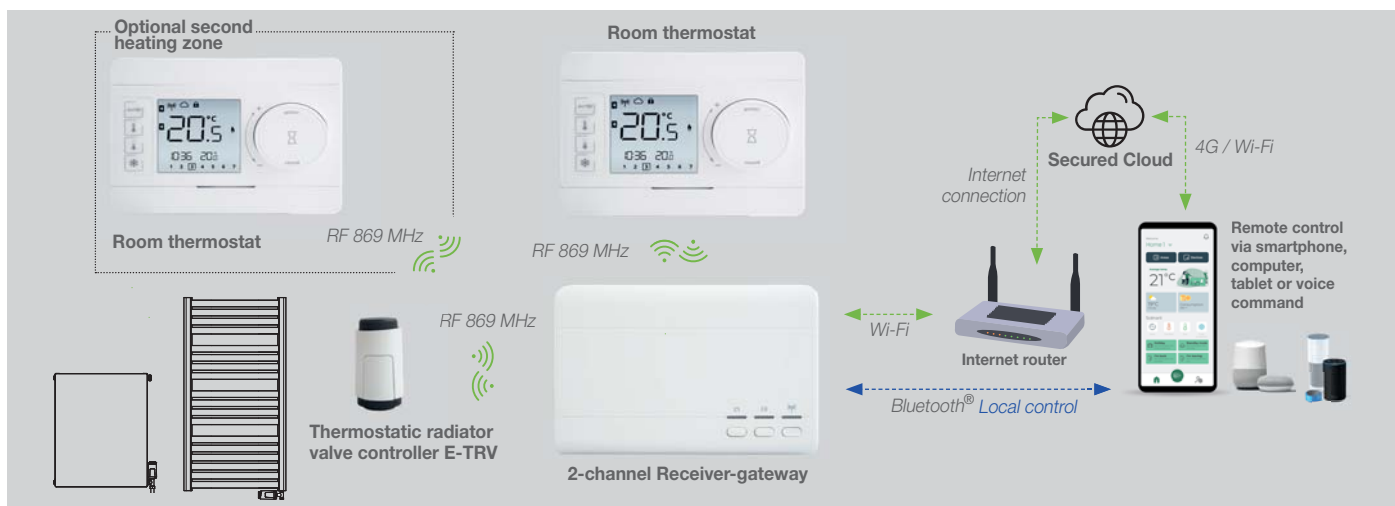
Manual settings

Button functions	RF pairing button: pairing of the thermostat and RF 869 MHz devices with the receiver-gateway	
	Connection button: pairing with the mobile application and network connection	
	Button C1: manual test and temporary override of channel 1 Button C2: manual test and temporary override of channel 2 Multi-functions LED indicators: status indication of outputs, RF communication and network connection	

Settings via the mobile app

Ectrl mobile app	- Pairing of the receiver-gateway with a smartphone - Addition of compatible devices (thermostats, connected thermostatic radiator valve controller, etc.) - Local control via Bluetooth® or remote control via Wi-Fi - Adjustment of setpoint temperatures, operating modes and programming - Monitoring of connected devices status - Wi-Fi network change - Unpairing of RF devices if required - Access to system configuration and diagnostic functions
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Overview of the ecosystem



Wireless programmable room thermostat



Paired with the 2-channel receiver gateway, the room thermostat enables simple control of the installation in Auto, Comfort, Eco or Frost Protection modes. Programmable over 7 days, it also integrates Boost functionality, open window detection, Holiday mode and dual optimisation (Opti Comfort / Opti Eco)

Thermostatic radiator valve controller



As an option, the connected thermostatic radiator valve controller enhances the system's gateway function by enabling room-by-room control of hydronic radiators and towel radiators. It transmits the measured temperature, setpoint and battery status to the receiver gateway in order to optimise local control

Technical specifications

Dimensional, weight and finish specifications

Height	89 mm
Width	145 mm
Depth	25 mm
Weight	179 g
Colour	white

Power supply

Operating voltage	230V ~50/60 Hz
Relay outputs	2x 3(1) A, configurable volt-free contacts (NO/NC)

Environment

Protection rating	IP20
Class	Class II
Operating temperature	0°C to +40°C
Max. humidity level	80% at +25°C (without condensation)
Storage temperature	-10°C to +60°C

Product codes

Code	Description
ER2CIMHA	Dual channel receiver-gateway, white

Compatible product(s) (sold separately)

Codes	Description
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Kit thermostat + récepteur-gateway

ERT7RF2CIMHA	Kit wireless connected programmable room thermostat with dual channel receiver-gateway
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Thermostat

ERT7RFIMHA	Wireless connected programmable room thermostat
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Thermostatic radiator valve controller

ETRVRFIMHA	Smart and connected thermostatic radiator valve controller
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Product customisation (design features) possible. Please contact us.