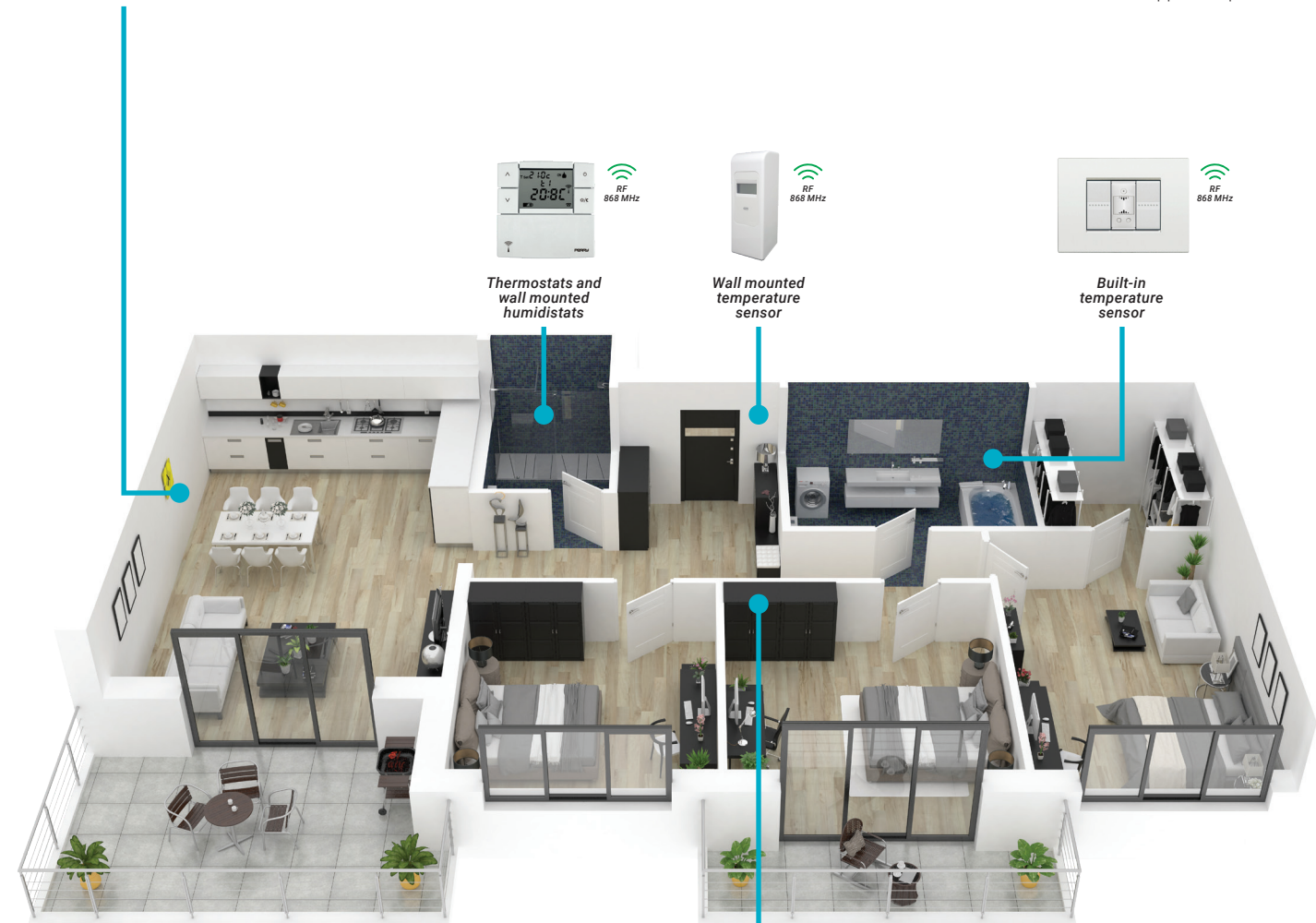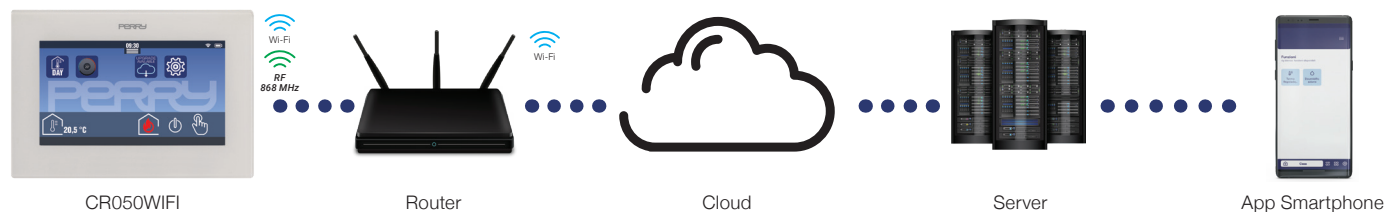# CR050WIFI

PROGRAMMABLE THERMOSTAT MULTIZONE WI-FI

- Multi-zone climate thermoregulation
  Class V and Class VIII
- Green System for greater energy efficiency of the systems:
  - reduction of energy consumption of the heating
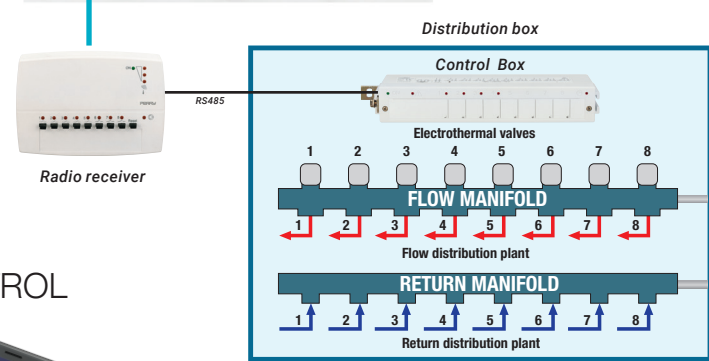 - reduction of CO2 emissions into the atmosphere

CR050WIFI can be programmed and controlled both locally and remotely via App with cloud access.
The 868 MHz band of the CR050WIFI allows you to regulate the temperature in every room of the home

Wi-Fi

RF 868 MHz

Wi-Fi

CR050WIFI   Router   Cloud   Server   App Smartphone

RF 868 MHz

RF 868 MHz

RF 868 MHz

Thermostats and wall mounted humidistats

Wall mounted temperature sensor

Built-in temperature sensor

LEGEND
- Wi-Fi
- RF 868MHz
- BUS RS485

Distribution box

Control Box

RS485

Radio receiver

Electrothermal valves

1 2 3 4 5 6 7 8

FLOW MANIFOLD

1 2 3 4 5 6 7 8

Flow distribution plant

RETURN MANIFOLD

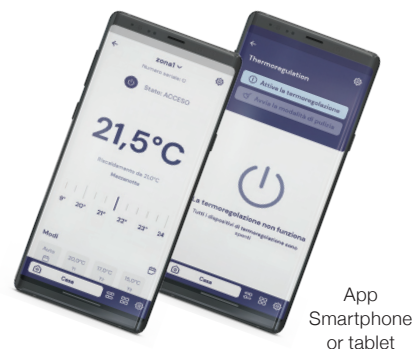1 2 3 4 5 6 7 8

Return distribution plant

ON SITE CONTROL

CR051WIFI
CR052WIFI

REMOTE CONTROL

21,5°C

App Smartphone or tablet

CR050WIFI is able to thermoregulate any type of installation.

System complying the European Directive (RED)

THERMOREGULATION

WIRELESS THERMOREGULATION
OF EACH ROOM OR ZONE

CR050WIFI can manage up to a maximum of 8 zones and 16 actuators

With CR050WIFI or Smartphone you can regulate the temperature of each room or zones

SENSORS

ACTUATORS

HUMIDITY MANAGEMENT

DEHUMIDIFICATION

The dehumidification function requires the installation of at least one thermohygrometer RXTEUM01 to monitor the relative humidity. CR050WIFI controls the achievement of the dew point by activating the dehumidifiers through the RTX02 radio transceivers. If the action of the dehumidifiers is not sufficient, CR050WIFI stops the thermoregulation of the zone.
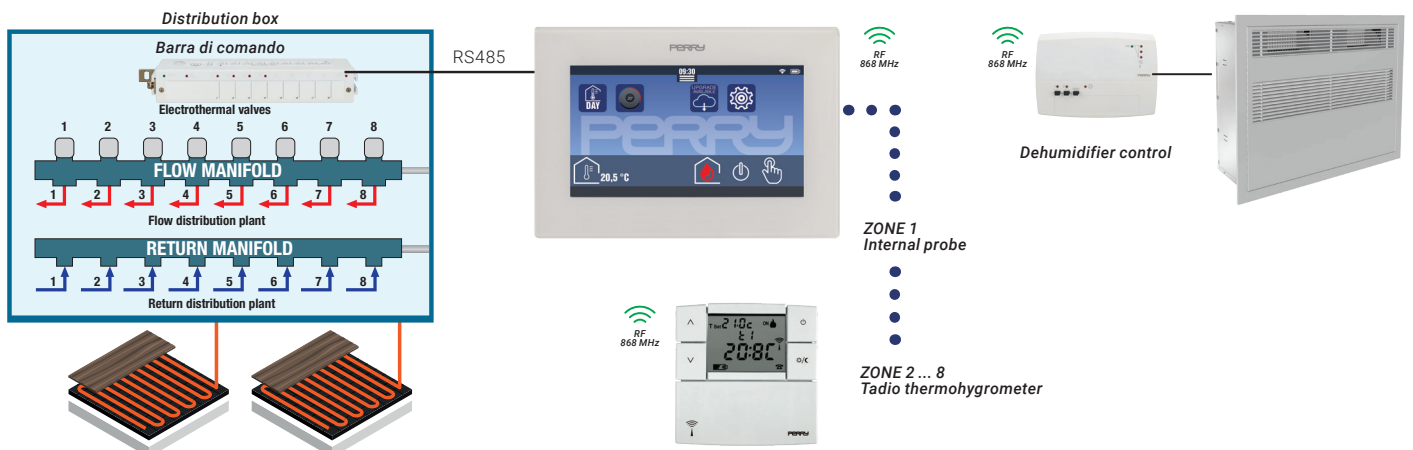

1TX RXTEUM01
RF zone thermostat with room relative humidity probe.
Equipped with a.c.ombined temperature and relative humidity probe, it monitors the two parameters giving the possibility of controlling both heating and dehumidifier action.
The Perry system, in addition to regulating the dehumidifier, allows the setting of a maximum level of humidity (safety) above which the flow of the refrigerant liquid is interrupted by acting on the collector.

RENOVATED OR NEW INSTALLATIONS WITH CLIMATE CONTROL WITH RADIANT PANELS

Distribution box

Barra di comando

RS485

Electrothermal valves

1 2 3 4 5 6 7 8

FLOW MANIFOLD

1 2 3 4 5 6 7 8

Flow distribution plant

RETURN MANIFOLD

1 2 3 4 5 6 7 8

Return distribution plant

RF
868 MHz

RF
868 MHz

Dehumidifier control

ZONE 1
Internal probe

RF
868 MHz

ZONE 2 ... 8
Tadio thermohygrometer

Overview of temperatures regulation

Overview of time profiles and temperature sets

Thermal season selection

By selecting, it changes the management from heating to air conditioning

summer   winter

Easy Mode

To simplify, it is also possible to activate a practical and simple function called "EASY MODE".

CR050WIFI will autonomously perform the necessary procedures to obtain the optimal thermal comfort desired in each zone
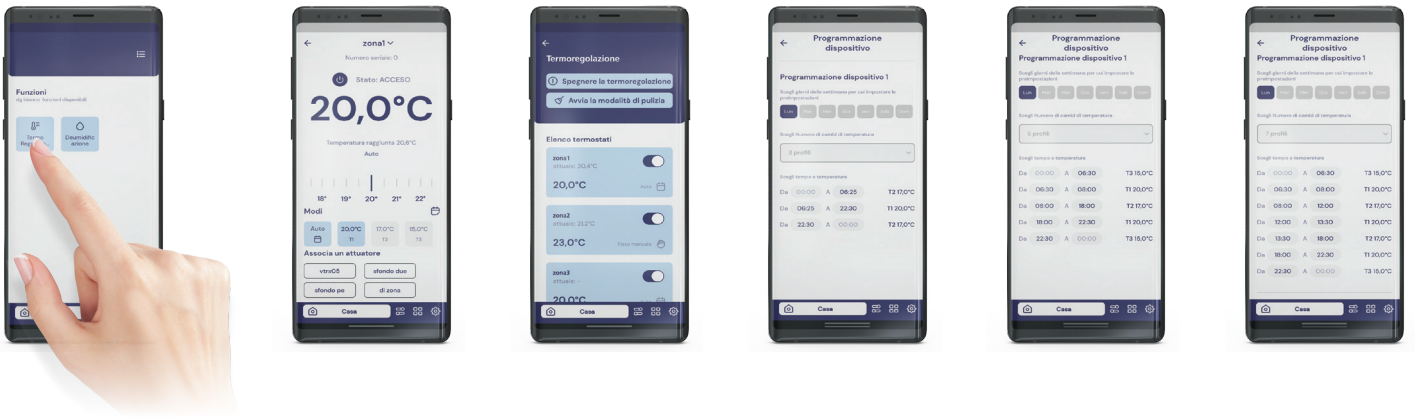
Quick functions

CR050WIFI is equipped with a drop-down menu which can be recalled by scrolling from top to bottom.

From this menu with rapid selection the user can access the most used functions to control the entire system:

• IN/OUT function
• Holiday function
• Cleaning function

In/Out   Holiday   Cleaning

"Special functions" allow scenarios when cleaning, when leaving or entering the house, or when scheduling vacation times. Everything can be controlled quickly from the CR050WIFI or smartphone.
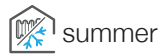
Easy Mode

Quick functions

By selecting,
it changes the
management
from heating to air
conditioning

summer

winter

Components of installation for multizone climate control

GENERAL FEATURES multizone programmable thermostats

- Power supply 230V AC 50Hz/5Vdc
- 4.3" TFT color scrolling touch screen display
- No. 8 programmable zones for hourly profiles on 4 temp. levels
- Zone programming: daily and weekly
- Communication systems:
  - Wi-Fi for internet connection;
  - Wireless RF 868 Mhz for communication with auxiliary equipment
- Calculation of the anti-condensation dew point
- Temperature setting range +4°C ÷ +39°C

- Connection range 30 ÷ 100 m in relation to the wall structure and obstacles inside the rooms
- Accuracy ±0.5 °C
- Gradient 1°K / 15 min
- Regulation type: modulating or ON/OFF
- IP30
- Operating temperature -5°C ÷ +55 °C
- Storage temperature -5°C ÷ +55°C
- Dimensions (L x W x H) 128.5 x 26 x 88.5 mm

1TX CR051WIFI Wall -mounted Wi-Fi programmable thermostat with relay output

- Wired relay output 5(3)A 250V a.c.
- Wi-Fi
- Frequency RF 868 MHz

- Input remote temperature probe 1PA STE02 usable as 2nd zone
- Wall installation

1TX CR052WIFI Wall -mounted Wi-Fi programmable thermostat with BUS 485 output

- BUS RS485 Output for connection by 1TX MOT1 to the boiler and /or the actuator with the control box
- Wi-Fi
- Frequency RF 868 MHz

- Input remote temperature probe 1PA STE02 usable as 2nd zone
- Wall installation

1TX MOT1 OpenTherm module

Compatible boiler brands*: ARISTON, BALTUR, BAXI, BERETTA, BONGIOVANNI, BUDERUS, ELCO, FERROLI.
List updated at the time of printing. For other brands, contact the Perry Electric Technical Assistance Service.
In any case, check in advance with the boiler manufacturer the compatibility with the communication system "OpenTherm V2.2" protocol.
*All brands mentioned are registered trademarks owned by their legitimate owners

- Power supply 230V a.c. 50Hz / 5Vdc 50Hz

- BUS RS485 connection with 1TX CR052WIFI

1PA BT050 Table base for multizone programmable thermostat

In the case of installations where 230V power supply to the 1TX CR051WIFI is not possible, it is possible to combine the table base with a plug-in power supply. In this way the product can be placed anywhere in the home.
To control the load, use the output relays of the 1TX RTX01DO / 1TX RTX02DO / 1TX RTX0801DO transceivers.

1TX RXTEUM01 Wall-mounted thermostat with built-in hygrometer

Regulates the room temperature and through CR051WIFI or CR052WIFI activates the RTX01/02 actuators to control the dehumidifiers.

- Power supply 2x1.5V AA type batteries - Alkaline
- 2 "1/3 digital LCD display
- Bidirectional RF868 MHz wireless radio connection
- Connection range 30 ÷ 100 m
- Temperature adjustment range +4 ÷ +39 ° C
- Relative humidity % adjustment range from App

- Accuracy ± 0.1 ° C
- Gradient 1 ° K / 15 min.
- IP 30
- Autonomy about 3 years
- Dimensions (L x W x H) 84 x 23 x 84 mm

1TX STX01 RF ambient wall temperature probe

- Power supply 2x1.5V AAA - Alkaline batteries
- 5 digit TRH LCD display shows room temperature, low battery, offset, background noise
- Bidirectional RF868 MHz wireless radio connection
- Connection range 30 ÷ 100 m
- Measuring range -30 ÷ +70 ° C

- Accuracy ± 0.1 ° C
- Gradient 1 ° K / 15 min.
- IP30
- Autonomy about 3 years
- Wall installation
- Dimensions (L x W x H) 40 x 95 x 23 mm

1TX STX03A Built-in RF room temperature probe in 1 civil module, anthracite color
1TX STX03B Built-in RF room temperature probe in 1 civil module, white color

- Power supply 230V a.c.
- Bidirectional RF868 MHz wireless radio connection
- Connection range 30 ÷ 100 m
- Measuring range -30 ÷ +70 ° C
- Accuracy ± 0.1 ° C

- Gradient 1 ° K / 15 min.
- IP40
- Installation of 1 civil module in flush-mounted box
- Dimensions (L x W x H) 40 x 95 x 23 mm

For installation it is necessary to purchase finishing front panels compatible with the domestic series on the market.
See the Perry configurator: http://configuratore.perry.it

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1TX VTRX05 Electronic valve for radiators with 868.35Mhz radio transceiver

- Power supply 3V 2x1.5V AA batteries - Alkaline
- Built-in room temperature probe
- functioning with modulating intervention
- Autonomy about 12 months depends on the daily operations
- IP40

- Max pushing force in closing 8 Bar
- Compatible with thermostatic valves with PN (Nominal flow rate) 8 Bar and ∆P (differential) 1 Bar
- Connection range 30 ÷ 100 m
- Battery charger and / or anomalies indication
- Dimensions (L x Ø) 85.5 x 53 mm

1PAVTNN001 Caleffi valves adapters for VTRX05
1PRVTRX002 Replacement threaded ring for VTRX05
1PRVTRX003 Replacement battery compartment cover for VTRX05

1TX RTX01DO Radio transceiver 1 channel 230V a.c.
1TX RTX02DO Radio transceiver 2 channels 230V a.c.

- Power supply 230V a.c. 50 ÷ 60 Hz
- Bidirectional wireless radio RF868 MHz connection
- ON /OFF operation
- Connection range 30 ÷ 100 m
- IP30

- 1TX RTX01DO 1 changeover contact output 5(2)250V a.c. 1 ⌁
  1TX RTX02DO 2 changeover contacts output 5(2)250V a.c. ⌁ + 1 ⌁ pump
- Dimensions (L x W x H) 133 x 90 x 25 mm

1TX RTX0801DO 8-zones radio transceiver + 1 circulation pump output

- Power supply 18V a.c. (from the control box)
- BUS RS485 output for connections with control boxes
- Bidirectional wireless radio RF868 MHz connection
- Connection range 30 ÷ 100 m
- Insulation class III ▣

- IP30
- Wall mounting
- Dimensions (L x W x H) 133 x 90 x 25 mm

1TX BC0400 4 zones control box
1TX BC0800 8 zones control box

- Power supply 230V a.c. 50 ÷ 60 Hz
- Contacts output 8(2)A 250V a.c.
- BC0400 4 polarized NO/NC contacts
  4 ⌁ + 1 ⌁ pump
  BC0800 8 polarized NO/NC contacts
  8 ⌁ + 1 ⌁ pump

- IP 52 with rubber cable glands
- Insulation Class II ▣
- Box, wall, with brackets installation
- Dimensions (L x W x H) 273 x 69 x 76 mm

1PAPPBC01 Cable glands for control boxes
11SEAEDS Electro-thermal actuator for thermostatic valve 230V NC

ACCESSORIES

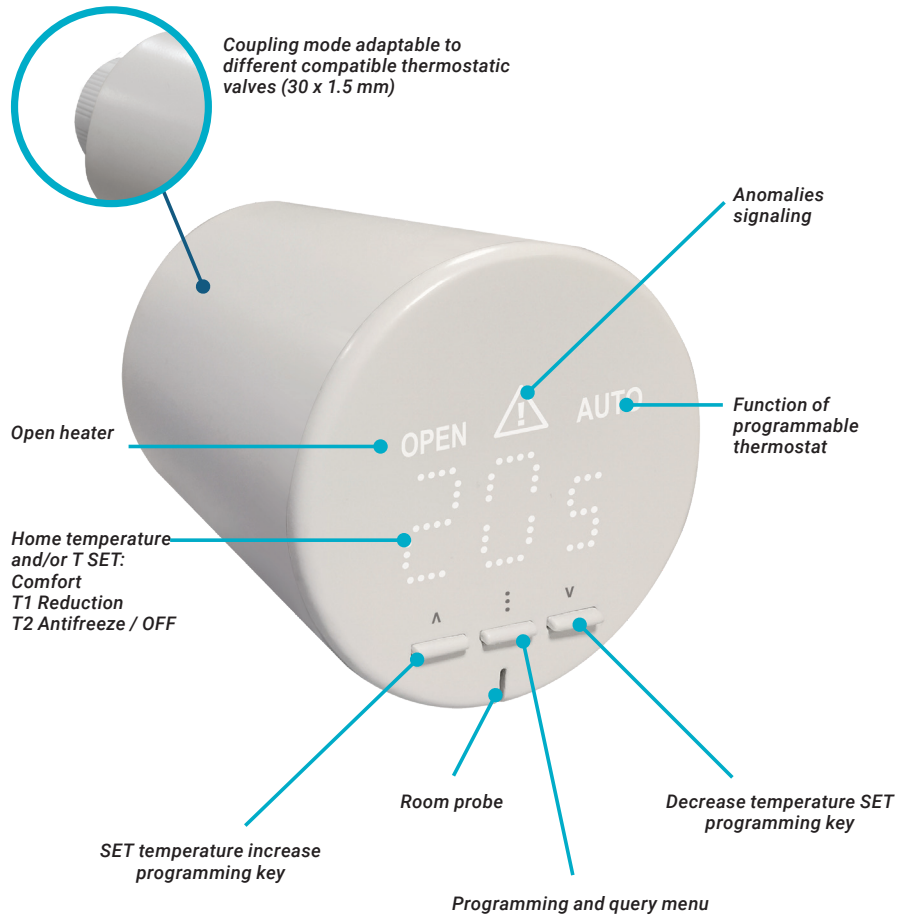|	
1PA STE02	Additional temperature detection probe with 4 m length cable for 1TX CR051WIFI and 1TX CR052WIFI
1PRBP01B	Replacement base with integrated power supply for 1TX CR051WIFI
1PRBP02B	Replacement base with integrated power supply for 1TX CR052WIFI
1PR PSA01	Replacement batteries type AA for RXTEUM01, VTRX05
1PR PMS01	Replacement batteries type AAA for STX01
1PR PSR01	Rechargeable AA batteries, blister of 4 pieces. for RXTEUM01, VTRX05
1PACB001	Power supply and battery charger for rechargeable batteries

VTRX05 INTELLIGENT ELECTRONIC VALVE FOR RADIATORS AND TOWEL WARMERS
The most advanced and efficient answer for the thermoregulation of all radiators.

The VTRX05 intelligent electronic valves, installed in radiator systems, can be associated to CR050WIFI for the realization of multimedia multizone systems and/or installed stand alone on radiators/towel warmers of the house.

The VTRX05, installed stand-alone, allow to turn on radiators with precise regulation of temperature set T1 (comfort temperature), T2 (reduction temperature) with the valve frontal buttons.

The VTRX05, installed stand-alone, can be programmed with a daily time profile, to regulate the hourly periods of comfort (T1) and reduction (T2), assuming the function of daily programmable thermostat, applied to each radiator.

Coupling mode adaptable to different compatible thermostatic valves (30 x 1.5 mm)

Anomalies signaling

Function of programmable thermostat

Open heater

Home temperature and/or T SET: Comfort T1 Reduction T2 Antifreeze / OFF

Room probe

Decrease temperature SET programming key

SET temperature increase programming key

Programming and query menu

T1 **T2** 06:00 08:00 18:00 23:00

TECHNICAL NOTE
VTRX05 is realized with hardware and firmware solutions that allow to reduce the natural difference between temperature measured by VTRX probe and real room temperature.
Through the valve menu it is possible to access the off-set function for adjustments between the value read by the VTRX temperature probe and the real room temperature.
The VTRX05 valve is realized with modulating operation of the thermostatic valve to minimize the energy consumption of each radiator.
The stand-alone installation of the intelligent electronic valve VTRX05 is easy to use for the reduction of energy consumption from heating of:
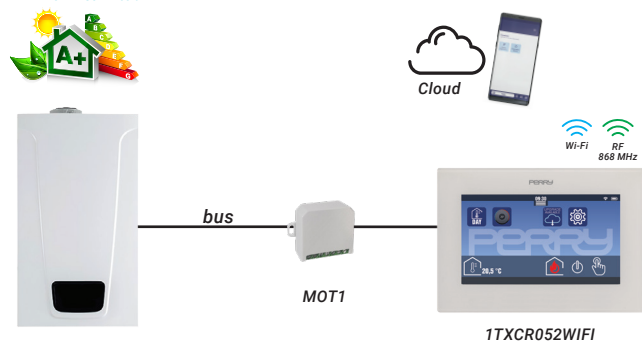• Radiators and towel warmers installed in apartments
• Radiators installed in public places: offices, stores, schools, etc.
• Radiators installed in hotel rooms, retirement homes, etc.

Advanced independent heating installation with radiators

✔ **Power supply 230V wall mounting**
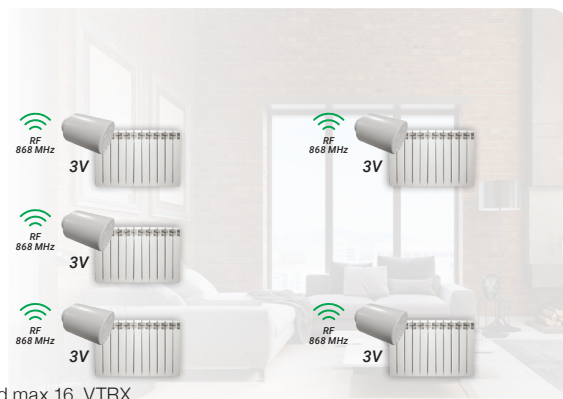✔ **Wire connection with boiler**

DETRAZIONE FISCALE 65%

A+

Cloud

Wi-Fi   RF 868 MHz

bus

MOT1

1TXCR052WIFI

Zone 1

Zone 2

Zone 3

RF 868 MHz   3V

RF 868 MHz   3V

RF 868 MHz   3V

RF 868 MHz   3V

RF 868 MHz   3V

RF 868 MHz   3V

Max 8 zones and max 16 VTRX

INSTALLATION COMPONENTS

Q.ty		CODE	Description
1		1TXCR052WIFI	Wall -mounted Wi-Fi programmable thermostat with BUS 485 output
1		1TXMOT1	OpenTherm module
16 max		1TXVTRX05	Electronic valve with radio transceiver with room probe and display

⚠ PLEASE NOTE
To obtain an ADVANCED INDEPENDENT HEATING installation, the rooms must be divided into at least three thermal zones (at least 3 temperature measurement points)

Advanced independent heating installation with distribution box

✔ **Power supply 230V wall mounting**
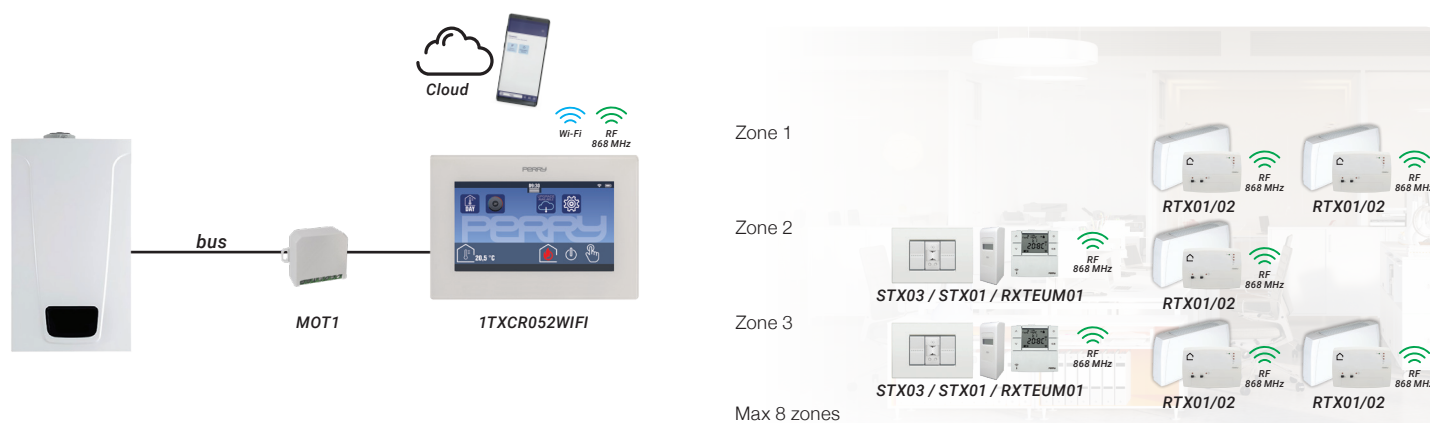✔ **Wire connection with boiler**

INSTALLATION COMPONENTS

Q.ty		CODE	Description
1		1TXCR052WIFI	Wall -mounted Wi-Fi programmable thermostat with BUS 485 output
7 max		1TXSTX03 A/B 1TXSTX01 1TXRXTEUM01	Built-in RF room temperature probe in 1 civil module RF ambient wall temperature probe Wall-mounted thermostat with built-in hygrometer
1		1TXMOT1	OpenTherm module
2 max		1TXRTX0801DO	8-zones radio transceiver + 1 circulation pump output
2 max		1TXBC0400 1TXBC0800	4 zones control box 4 + 1 relay 8 zones control box 8 + 1 relay

Advanced independent heating installation with fan coil/splitter

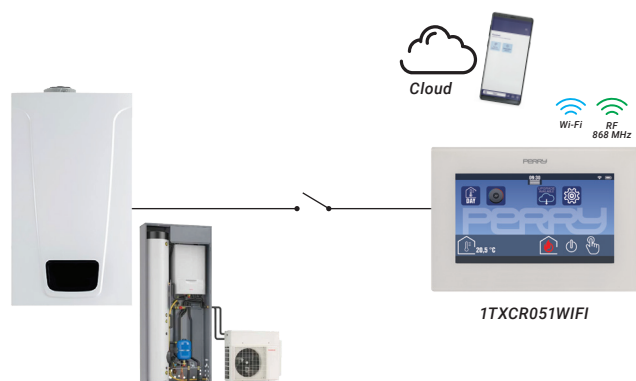✔ **Power supply 230V wall mounting**
✔ **Wire connection with boiler**

INSTALLATION COMPONENTS

Q.ty		CODE	Description
1		1TXCR052WIFI	Wall -mounted Wi-Fi programmable thermostat with BUS 485 output
7 max		1TXSTX03 A/B 1TXSTX01 1DORXTEUM01	Built-in RF room temperature probe in 1 civil module RF ambient wall temperature probe Wall-mounted thermostat with built-in hygrometer
1		1TXMOT1	OpenTherm module
16 max		1TXRTX01DO	Radio transceiver 1 channel 230V a.c.
8 max		1TXRTX02DO	Radio transceiver 2 channels 230V a.c. + aux OUTPUT

⚠ PLEASE NOTE
To obtain an ADVANCED INDEPENDENT HEATING installation, the rooms must be divided into at least three thermal zones (at least 3 temperature measurement points)

Independent heating installation with radiators

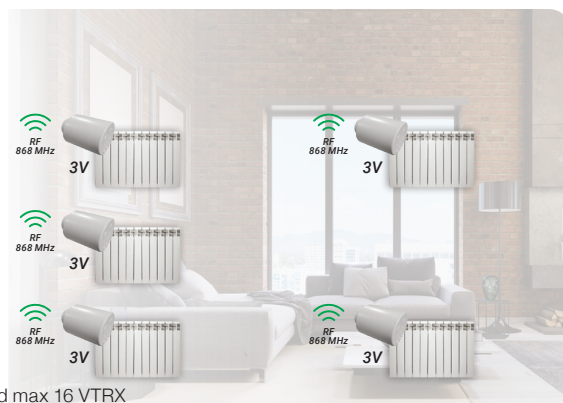✔ **Power supply 230V wall mounting**
✔ **Wire connection with boiler**

Cloud

Wi-Fi   RF 868 MHz

Zone 1

Zone 2

Zone 3

1TXCR051WIFI

RF 868 MHz   3V
RF 868 MHz   3V
RF 868 MHz   3V
RF 868 MHz   3V
RF 868 MHz   3V

Max 8 zones and max 16 VTRX

INSTALLATION COMPONENTS

Q.ty		CODE	Description
1		1TXCR051WIFI	Wall -mounted Wi-Fi programmable thermostat with relay output
16 max		1TXVTRX05	Electronic valve with radio transceiver with room probe and display

Independent heating installation with radiators

✔ **Power supply 230V wall mounting**
✘ **Wire connection with boiler**

Cloud

RF 868 MHz

Wi-Fi   RF 868 MHz

RTX01

1TXCR051WIFI

Zone 1

Zone 2

Zone 3

RF 868 MHz   3V
RF 868 MHz   3V
RF 868 MHz   3V
RF 868 MHz   3V
RF 868 MHz   3V
RF 868 MHz   3V

Max 8 zones and max 16 VTRX

INSTALLATION COMPONENTS

Q.ty		CODE	Description
1		1TXCR051WIFI	Wall -mounted Wi-Fi programmable thermostat with relay output
16 max		1TXVTRX05	Electronic valve with radio transceiver with room probe and display
1		1TXRTX01DO	Radio transceiver 1 channel 230V a.c.

Installation schemes

Independent heating installation with distribution box

✔ Power supply 230V wall mounting
✔ Wire connection with boiler
✘ Wire connection with distribution box
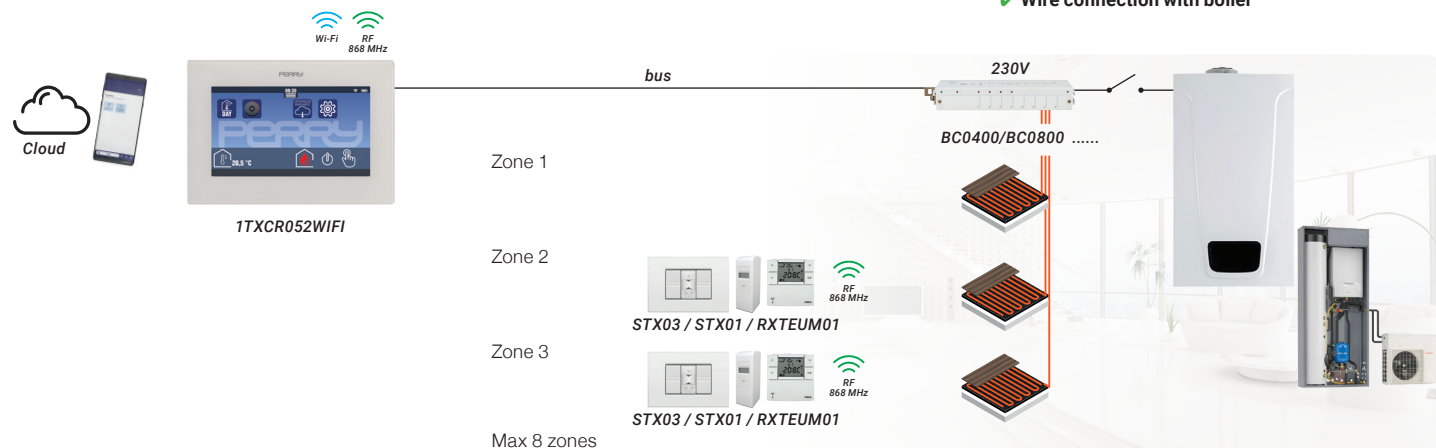

Cloud

Wi-Fi   RF 868 MHz

1TXCR051WIFI

RF 868 MHz   bus   230V

RTX08   *BC0400/BC0800 ......*

Zone 1

Zone 2

RF 868 MHz

STX03 / STX01 / RXTEUM01

Zone 3

RF 868 MHz

STX03 / STX01 / RXTEUM01

Max 8 zones

INSTALLATION COMPONENTS

Q.ty		CODE	Description
1		1TXCR051WIFI	Wall -mounted Wi-Fi programmable thermostat with relay output
7 max		1TXSTX03 A/B 1TXSTX01 1TXRXTEUM01	Built-in RF room temperature probe in 1 civil module RF ambient wall temperature probe Wall-mounted thermostat with built-in hygrometer
2 max		1TXRTX0801DO	8-zones radio transceiver + 1 circulation pump output
2 max		1TXBC0400 1TXBC0800	4 zones control box 8 zones control box

Independent heating installation with distribution box

✔ Power supply 230V wall mounting
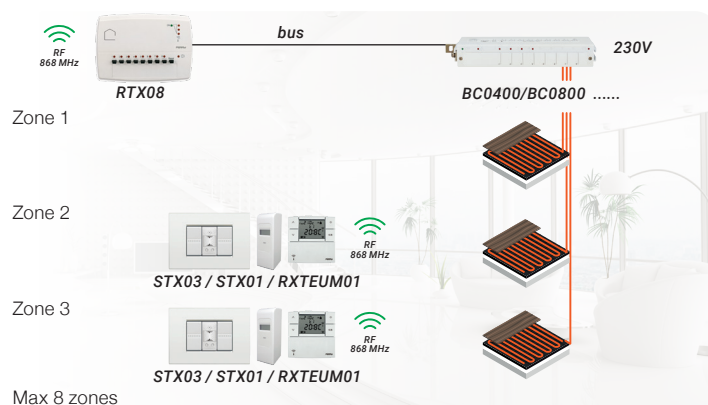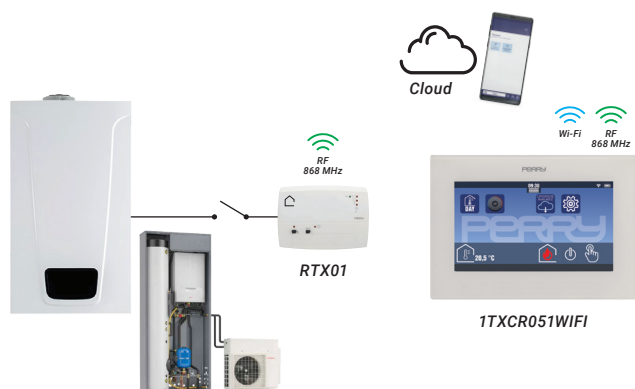✔ BUS connection with distribution box
✔ Wire connection with boiler

Wi-Fi   RF 868 MHz

Cloud

1TXCR052WIFI

bus   230V

BC0400/BC0800 ......

Zone 1

Zone 2

RF 868 MHz

STX03 / STX01 / RXTEUM01

Zone 3

RF 868 MHz

STX03 / STX01 / RXTEUM01

Max 8 zones

INSTALLATION COMPONENTS

Q.ty		CODE	Description
1		1TXCR052WIFI	Wall -mounted Wi-Fi programmable thermostat with BUS 485 output
7 max		1TXSTX03 A/B 1TXSTX01 1TXRXTEUM01	Built-in RF room temperature probe in 1 civil module RF ambient wall temperature probe Wall-mounted thermostat with built-in hygrometer
3* max		1TXBC0400 1TXBC0800	4 zones control box 8 zones control box * 1 connected via BUS + 2 via VRTX08

Independent heating installation with distribution box

✔ **Power supply 230V wall mounting**
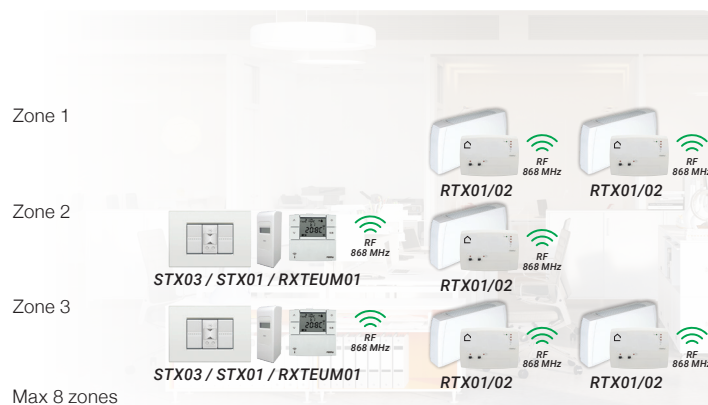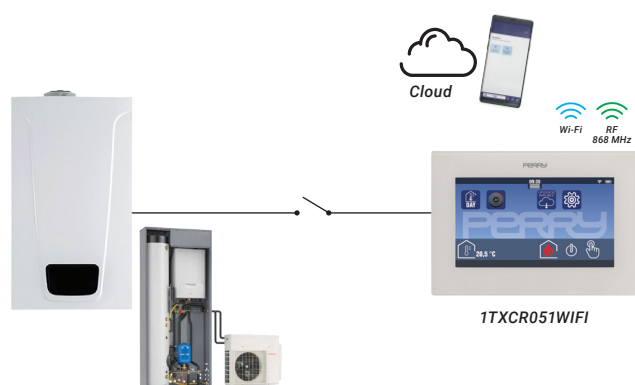✘ **Wire connection with boiler**
✘ **Wire connection with distribution box**

Cloud

Wi-Fi   RF 868 MHz

RF 868 MHz

RTX01

1TXCR051WIFI

RF 868 MHz   bus   230V

RTX08   BC0400/BC0800 ......

Zone 1

Zone 2

STX03 / STX01 / RXTEUM01   RF 868 MHz

Zone 3

STX03 / STX01 / RXTEUM01   RF 868 MHz

Max 8 zones

INSTALLATION COMPONENTS

Q.ty		CODE	Description
1		1TXCR051WIFI	Wall-mounted Wi-Fi programmable thermostat with relay output
7 max		1TXSTX03 A/B 1TXSTX01 1TXRXTEUM01	Built-in RF room temperature probe in 1 civil module RF ambient wall temperature probe Wall-mounted thermostat with built-in hygrometer
2 max		1TXRTX0801DO	8-zones radio transceiver + 1 circulation pump output
1		1TXRTX01DO	Radio transceiver 1 channel 230V a.c.
2 max		1TXBC0400 1TXBC0800	4 zones control box 8 zones control box

Independent heating installation with fan coil/splitter

✔ **Power supply 230V wall mounting**
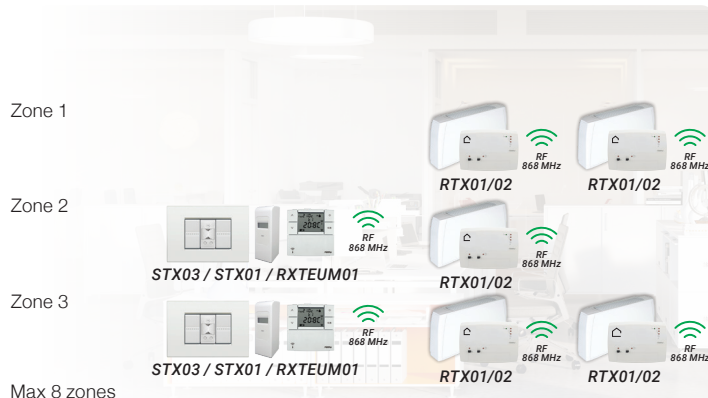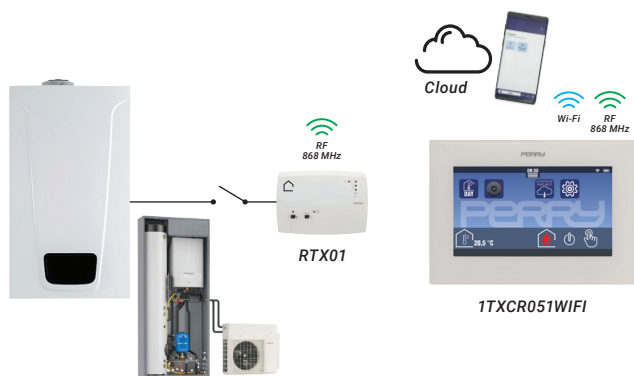✔ **Wire connection with boiler**

Cloud

Wi-Fi   RF 868 MHz

1TXCR051WIFI

Zone 1

RTX01/02   RF 868 MHz   RTX01/02   RF 868 MHz

Zone 2

STX03 / STX01 / RXTEUM01   RF 868 MHz   RTX01/02   RF 868 MHz

Zone 3

STX03 / STX01 / RXTEUM01   RF 868 MHz   RTX01/02   RF 868 MHz   RTX01/02   RF 868 MHz

Max 8 zones

INSTALLATION COMPONENTS

Q.ty		CODE	Description
1		1TXCR051WIFI	Wall-mounted Wi-Fi programmable thermostat with relay output
7 max		1TXSTX03 A/B 1TXSTX01 1TXRXTEUM01	Built-in RF room temperature probe in 1 civil module RF ambient wall temperature probe Wall-mounted thermostat with built-in hygrometer
16 max		1TXRTX01DO	Radio transceiver 1 channel 230V a.c.
8 max		1TXRTX02DO	Radio transceiver 2 channels 230V a.c. + aux OUTPUT

Independent heating installation with fan coil/splitter

✔ **Power supply 230V wall mounting**
✘ **Wire connection with boiler**

Cloud

Wi-Fi | RF 868 MHz

RF 868 MHz

RTX01

1TXCR051WIFI

Zone 1

RF 868 MHz | RF 868 MHz
RTX01/02 | *RTX01/02*

Zone 2

STX03 / STX01 / RXTEUM01
RF 868 MHz
RF 868 MHz
RTX01/02

Zone 3

STX03 / STX01 / RXTEUM01
RF 868 MHz
RF 868 MHz | RF 868 MHz
RTX01/02 | *RTX01/02*

Max 8 zones

INSTALLATION COMPONENTS

Q.ty		CODE	Description
1		1TXCR051WIFI	Wall -mounted Wi-Fi programmable thermostat with relay output
7 max		1TXSTX03 A/B 1TXSTX01 1TXRXTEUM01	Built-in RF room temperature probe in 1 civil module RF ambient wall temperature probe Wall-mounted thermostat with built-in hygrometer
16 max		1TXRTX01DO	Radio transceiver 1 channel 230V a.c.
8 max		1TXRTX02DO	Radio transceiver 2 channels 230V a.c. + aux OUTPUT
1		1TXRTX01DO	Radio transceiver 1 channel 230V a.c.

The use of RTX transceivers allows the connection of MAX 16 RTX01 and MAX 8 RTX02, to each of which an unlimited number of fan-coils can be connected in parallel. RTX01 and RTX02 can be installed in the same climate zone.

### Example of internal FAN COIL installation

RF 868 MHz
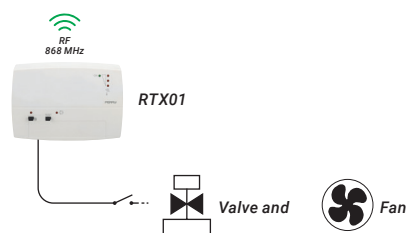
RTX01

Valve and **Fan**

RTX01DO
1 output relay for valve and fan control simultaneously

RTX02

Ventola

Valvola
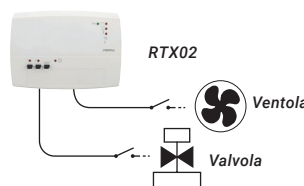
RTX02DO
2 output relays:
1 for valve control
1 for fan control
With intervention delay that can be set between control of the valve and the fan.

Other uses for RTX

Example of installation with BOOST

RF 868 MHz
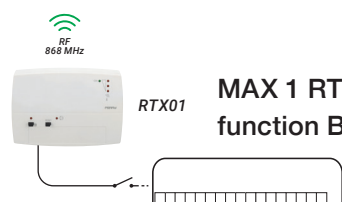
RTX01

MAX 1 RTX01 function BOOST

In case of heating or cooling systems with slow dynamics, the CR050WIFI can control 1 RTX01 connected to the additional units: inverter, heat pump, pellet stove...

Example of installation with PUMP
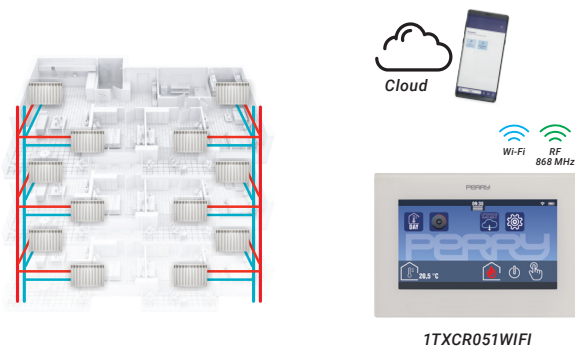
RF 868 MHz

RTX01

MAX 1 RTX01 function pump

When no zone requires heat, CR050WIFI controls the RTX01 configured for pump control, instantly interrupting (or with an activation delay) the operation of the circulation pump.

Centralized riser column system with radiators

Cloud

Wi-Fi RF 868 MHz

1TXCR051WIFI

Zone 1

RF 868 MHz **3V** RF 868 MHz **3V**

Zone 2

RF 868 MHz **3V**

Zone 3

RF 868 MHz **3V** RF 868 MHz **3V**

Max 8 zones and max 16 VTRX

INSTALLATION COMPONENTS

Q.ty		CODE	Description
1		1TXCR051WIFI	Wall -mounted Wi-Fi programmable thermostat with relay output
16 max		1TXVTRX05	Electronic valve with radio transceiver with room probe and display

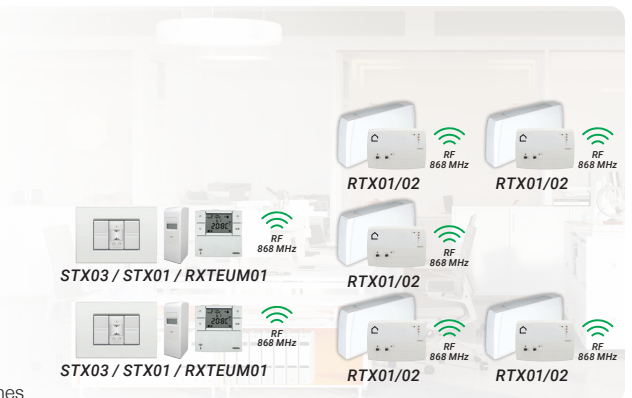# Centralized riser column system with fan coil/splitter

Cloud

Wi-Fi RF 868 MHz

1TXCR051WIFI

Zone 1

RTX01/02 RF 868 MHz **RTX01/02** RF 868 MHz

Zone 2

STX03 / STX01 / RXTEUM01 RF 868 MHz **RTX01/02** RF 868 MHz

Zone 3

STX03 / STX01 / RXTEUM01 RF 868 MHz **RTX01/02** RF 868 MHz **RTX01/02** RF 868 MHz

Max 8 zones

INSTALLATION COMPONENTS

Q.ty		CODE	Description
1		1TXCR051WIFI	Wall -mounted Wi-Fi programmable thermostat with relay output
7 max		1TXSTX03 A/B 1TXSTX01 1TXRXTEUM01	Built-in RF room temperature probe in 1 civil module RF ambient wall temperature probe Wall-mounted thermostat with built-in hygrometer
16 max		1TXRTX01DO	Radio transceiver 1 channel 230V a.c.
8 max		1TXRTX02DO	Radio transceiver 2 channels 230V a.c. + aux OUTPUT

Installation schemes

Centralized ring system with radiators

✔ **Power supply 230V wall mounting**
✔ **Wire connection with zone valve apartment valve**

Cloud

Wi-Fi RF 868 MHz

1TXCR051WIFI

Apartment valve

Zone 1

Zone 2

Zone 3
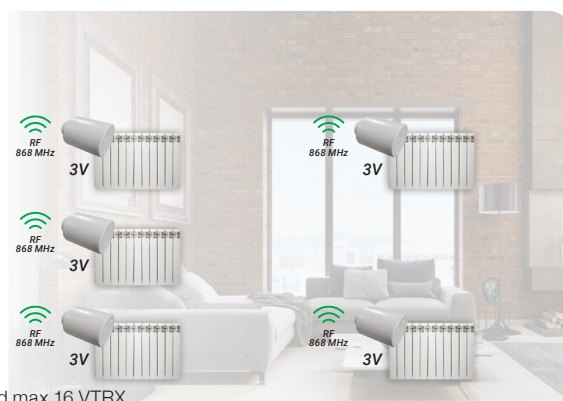
RF 868 MHz 3V RF 868 MHz 3V

RF 868 MHz 3V

RF 868 MHz 3V RF 868 MHz 3V

Max 8 zones and max 16 VTRX

INSTALLATION COMPONENTS

Q.ty		CODE	Description
1		1TXCR051WIFI	Wall -mounted Wi-Fi programmable thermostat with relay output
16 max		1TXVTRX05	Electronic valve with radio transceiver with room probe and display

Centralized ring system with radiators

✔ **Power supply 230V wall mounting**
✘ **Wire connection with zone valve apartment valve**

Cloud

Wi-Fi RF 868 MHz

1TXCR051WIFI

RF 868 MHz

Apartment valve

RTX01

Zone 1

Zone 2

Zone 3

RF 868 MHz 3V RF 868 MHz 3V

RF 868 MHz 3V

RF 868 MHz 3V RF 868 MHz 3V

Max 8 zones and max 16 VTRX

INSTALLATION COMPONENTS

Q.ty		CODE	Description
1		1TXCR051WIFI	Wall -mounted Wi-Fi programmable thermostat with relay output
16 max		1TXVTRX05	Electronic valve with radio transceiver with room probe and display
1		1TXRTX01DO	Radio transceiver 1 channel 230V a.c.

Centralized ring system with distribution box

Cloud

Wi-Fi   RF 868 MHz

1TXCR051WIFI

Apartment valve

RF 868 MHz   RTX08   bus   230V   BC0400/BC0800 ......

Zone 1

Zone 2

STX03 / STX01 / RXTEUM01   RF 868 MHz

Zone 3

STX03 / STX01 / RXTEUM01   RF 868 MHz

Max 8 zones

INSTALLATION COMPONENTS

Q.ty		CODE	Description
1		1TXCR051WIFI	Wall -mounted Wi-Fi programmable thermostat with relay output
7 max		1TXSTX03 A/B 1TXSTX01 1TXRXTEUM01	Built-in RF room temperature probe in 1 civil module RF ambient wall temperature probe Wall-mounted thermostat with built-in hygrometer
2 max		1TXRTX0801DO	8-zones radio transceiver + 1 circulation pump output
2 max		1TXBC0400 1TXBC0800	4 zones control box 8 zones control box

Centralized ring system with distribution box

Cloud

Wi-Fi   RF 868 MHz

1TXCR051WIFI

Apartment valve   RF 868 MHz   RTX01

RF 868 MHz   RTX08   bus   230V   BC0400/BC0800 ......

Zone 1

Zone 2

STX03 / STX01 / RXTEUM01   RF 868 MHz

Zone 3

STX03 / STX01 / RXTEUM01   RF 868 MHz

Max 8 zones

INSTALLATION COMPONENTS

Q.ty		CODE	Description
1		1TXCR051WIFI	Wall -mounted Wi-Fi programmable thermostat with relay output
7 max		1TXSTX03 A/B 1TXSTX01 1TXRXTEUM01	Built-in RF room temperature probe in 1 civil module RF ambient wall temperature probe Wall-mounted thermostat with built-in hygrometer
2 max		1TXRTX0801DO	8-zones radio transceiver + 1 circulation pump output
1		1TXRTX01DO	Radio transceiver 1 channel 230V a.c.
2 max		1TXBC0400 1TXBC0800	4 zones control box 8 zones control box

Installation schemes

Centralized ring system with distribution box

✔ **Power supply 230V wall mounting**
✘ **Wire connection with zone valve**
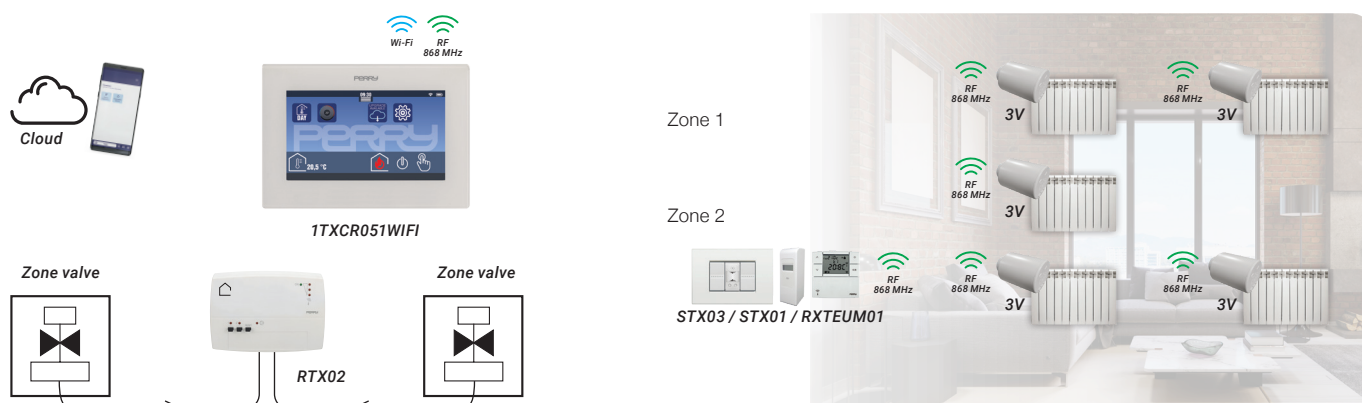✘ **Wire connection with distribution box**
✔ **Wire connection between distribution box and zone valve**

Cloud

Wi-Fi   RF 868 MHz

1TXCR051WIFI

RF 868 MHz

RTX08   bus   **BC0400/BC0800** 230V

Zone 1

Apartment valve

Zone 2

RF 868 MHz

STX03 / STX01 / RXTEUM01

Zone 3

RF 868 MHz

STX03 / STX01 / RXTEUM01

Max 8 zones

INSTALLATION COMPONENTS

Q.ty		CODE	Description
1		1TXCR051WIFI	Wall -mounted Wi-Fi programmable thermostat with relay output
7 max		1TXSTX03 A/B 1TXSTX01 1TXRXTEUM01	Built-in RF room temperature probe in 1 civil module RF ambient wall temperature probe Wall-mounted thermostat with built-in hygrometer
2 max		1TXRTX0801DO	8-zones radio transceiver + 1 circulation pump output
2 max		1TXBC0400 1TXBC0800	4 zones control box 8 zones control box

Centralized system with 2 zone valves: day zone – night zone

Wi-Fi   RF 868 MHz

Cloud

1TXCR051WIFI

Zone valve   Zone valve

RTX02

Zone 1

RF 868 MHz   3V   RF 868 MHz   3V

RF 868 MHz   3V

Zone 2

STX03 / STX01 / RXTEUM01

RF 868 MHz   3V   RF 868 MHz   RF 868 MHz   3V

INSTALLATION COMPONENTS

Q.ty		CODE	Description
1		1TXCR051WIFI	Wall -mounted Wi-Fi programmable thermostat with relay output
16 max		1TXVTRX05	Electronic valve with radio transceiver with room probe and display
1		1TXRTX02DO	Radio transceiver 2 channels 230V a c + aux OUTPUT

CR050WIFI
Programmable thermostat Wi-Fi

CRM4.0
### Multimedia Robotic Control Unit

- Multi-zone thermoregulation
- Management of humidity in the rooms
- Advanced thermoregulation

- Multi-zone thermoregulation
- Management of humidity in the rooms
- Building Automation according to EN ISO 52120
- Display of heating consumption
- Display of electricity consumption
- Home automation for the automation of shutters, curtains,...

Discover more about CR050WIFI
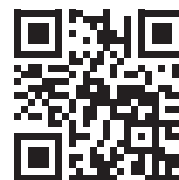
Discover more about CRM4.0

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