

COMPUTHERM Q20RF (RX)

Wireless (radio-frequency) receiver unit for
COMPUTHERM room thermostats



Operating Instructions

1. General description of the receiving unit

Room thermostat receiver **COMPUTHERM Q2ORF (RX)** is suitable to operate together with wireless room thermostats **COMPUTHERM Q3RF, Q32RF, Q5RF, Q7RF, Q72RF, Q72RF (TRV), Q8RF, Q2ORF** and **Q2ORF Wi-Fi**. The **COMPUTHERM Q2ORF (RX)** type switched-mode room thermostat receiver controlled by a wireless **COMPUTHERM** room thermostat is suitable to regulate the overwhelming majority of boilers and air conditioners. It can be easily connected to any gas boiler having a two-wire thermostat connection point and to any air conditioning apparatus or electrical apparatus, regardless of whether they have a 24 V or 230 V control circuit. The receiving unit controls the connected gas boiler or another electric device according to signals coming from the room thermostat switch.

If you want to make your gas convector controllable with a room thermostat using **COMPUTHERM KonvekPRO** and a **COMPUTHERM** wireless room thermostat and you wish to control several gas heaters with a single room thermostat, you can accomplish this task by means of a **COMPUTHERM Q2ORF (RX)** receiver unit. A single **COMPUTHERM** wireless room thermostat can be synchronized with several **COMPUTHERM Q2ORF (RX)** receiver units at the same time, and this make simultaneous control of several gas convectors feasible.

2. Important warnings and safety recommendations

- Before starting to use the device, please study the operating instructions carefully and strictly follow the instructions described therein.
- The device is designed for business or household (non-industrial) use and can be used to control any electrical device with a power output not exceeding 1.38 kW (load capacity: max. 30 V DC / 250 V AC; 6 A [2 A inductive load]).
- This device is designed for indoor use only. Do not use it in wet, chemically aggressive or dusty environments.
- This device is a receiver unit that communicates wirelessly. To avoid signal interference, keep it away from electrical equipment that may interfere with this communication.
- The manufacturer will assume no responsibility for any possible direct or indirect damages or income losses incurring during the use of the device.
- The device does not operate without power supply. In the event of a power supply failure (power outage), the device will continue to operate after the power supply has been restored.
- **Before starting the actual control of the device connected to the receiver unit, make sure that the controlled device operates perfectly and can be reliably operated when controlled by the receiver unit.**

3. Installation and connection of the receiver unit

3.1. Location of the receiver unit

The **COMPUTHERM Q2ORF (RX)** receiver unit should be mounted on the wall in a place protected against moisture, dust, chemicals and heat, in the vicinity of the boiler. When choosing the location of the receiving unit you should remember that bulky metal objects (e.g. a boiler, buffer tank, etc.) and metal building structures may have an adverse effect on propagation of radio waves. If it is possible, in order to ensure trouble-free RF connection, we recommend that you install the receiving unit at a height of 1.5 to 2 m and at a distance of 1 to 2 m from the boiler or other bulky metal constructions. We recommend that you check reliability of RF connection at the place selected before installing the receiving unit.

Attention! Do not install the receiver unit under the housing of the boiler or near hot pipes because it may damage the parts of the device or compromise wireless (radio-frequency) connection.

3.2. Connection of the receiver unit

Warning! The device must be installed and connected by a qualified professional. Before installing, make sure that neither the thermostat nor the device to be controlled is connected to the 230 V mains voltage. Modifying the receiver unit can cause electric shock or product failure.

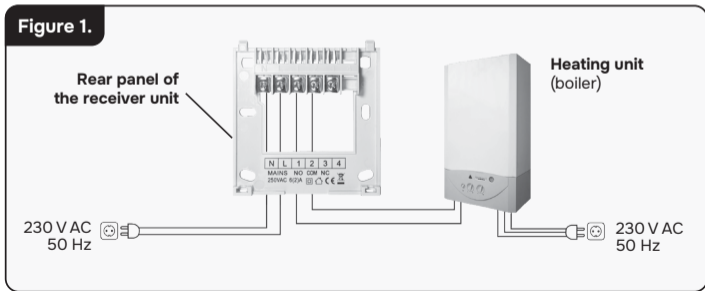
Unscrew the two screws at the bottom of the receiver unit without removing them. Following this, remove the front panel of the receiver unit then fix the back

panel to the wall in the vicinity of the boiler with the screws provided.

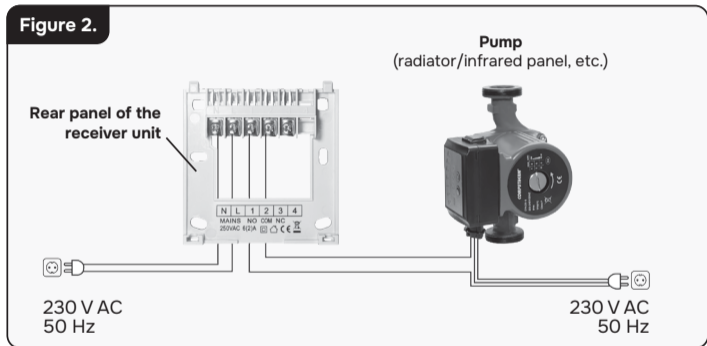
The marks of the connections are pressed into the plastic above the connection points: **N**, **L**, **1**, **2** and **3**.

3.2.1. Connecting the device to be controlled to the receiver unit

The receiver unit controls the boiler or air conditioner through a potential-free alternating relay whose connection points are: **1** (NO), **2** (COM) and **3** (NC). Connect the two connection points of the heating or cooling equipment to be controlled to terminals **1** (NO) and **2** (COM), i.e. to the normally open terminals of the relay as shown in the figure:



If you would like to operate an old boiler or any other device that has no connection points for thermostats, then the **1 (NO)** and **2 (COM)** connection points of the thermostat should be connected to the mains cable of the device, similarly as a switch would be connected, as shown in the figure below:



Attention! Always consider the loadability of the receiver unit and follow the manufacturer's instructions of the heating or cooling equipment. The device must be installed and connected by a qualified professional!

The voltage appearing at terminals **1** and **2** depends only on the system being controlled, therefore the dimensions of the wire are determined by the type of the device to be controlled. The length of the wire is of no significance, the receiver unit may be installed either near the boiler or far away from it, but do not install it under the housing of the boiler.

3.2.2. Connecting the receiver unit to the electrical network

The receiver unit should be connected to the 230 V mains network. This provides power to the receiver unit; however, this voltage does not appear at the output connection points (1, 2, and 3). The neutral and phase conductors of the mains supply must be connected to terminals N and L (**Figure 1.**; the phase and neutral wires can be interchanged). It is not necessary to connect a ground wire because the product is double insulated.

3.3. Putting the receiver unit into operation

Turn on the power supply to the receiver unit. Press the “**M/A**” button of the receiver unit and keep it depressed (for approximately 10 seconds) until the green LED starts flashing. Following this, synchronize the thermostat with the receiver unit(s) according to the instructions for use of your room thermostat. The synchronization was successful if the green LED stops flashing and goes out, so that the receiver unit “learns” the safety code of the transmitter (thermostat). The safety code will not be lost even during a power outage, the device memorizes it automatically.

If the distance between the transmitter and receiver units is too large due to local circumstances and it makes the wireless (radio-frequency) connection unreliable, install the receiver unit nearer to the place of thermostat or use a **COMPUTHERM Q2RF** signal repeater to increase the communication distance.

If you wish to pair more than one thermostat with the receiver unit, repeat the previous steps for the additional thermostats. In this case, the receiver unit remains switched on until all connected thermostats send a switch-off signal. If the maximum limit of 12 paired devices has been reached, pressing and holding the “**ON/OFF**” button for 10 seconds will cause the red and green LEDs on the device to flash alternately three times. In this case, to pair a new thermostat, the receiver unit must be reset to its default state by pressing and holding the “**ON/OFF**” and “**MANUAL**” buttons simultaneously for 10 seconds. Both LEDs will then light up for 2 seconds, indicating that the receiver unit has been reset and that pairing of a new thermostat can be started.

Attention! If you wish a particular thermostat not to control the receiver unit, pair the thermostat with another **COMPUTHERM Q series** wireless device, perform the pairing procedure on the thermostat alone (without the receiver unit), or reset the receiver unit to its factory default state as described above.

4. Operation of the receiver unit, meaning of the LED indications

The receiver unit switches its potential-free output according to the switching signals of the connected wireless **COMPUTHERM Q series** room thermostat(s). A green and a red LED indicates the operating condition of the receiver unit as detailed below:

- Continuous light of the green LED indicates the manual mode. If it is not lit, the receiver unit is in automatic mode (controlled by the thermostat)..
- Flashing of the green LED indicates synchronized mode.
- Continuous light of the red LED indicates that the output is on.

5. Manual control of the receiver unit

Pressing the “**MANUAL**” button separates the thermostat from the receiver unit. In this case, the boiler or air conditioner connected to the receiver unit can only be turned on and off manually, without any temperature inspection. The continuously illuminated green LED indicates “**MANUAL**” mode. Pressing the “**M/A**” button turns on or off the boiler. (The red LED is illuminated when the boiler is turned on). By pressing the “**MANUAL**” button again, the device quits manual control and resumes automatic (thermostat-controlled) operation (the green LED turns off).

6. Transmission distance inspection

You can check proper functioning of wireless (radio-frequency) connection between the wireless (radio-frequency) thermostat and the receiver units by following instructions for use provided for the thermostat being used..

If the distance between the transmitter and receiver units is too large due to local circumstances and it makes the wireless (radio-frequency) connection unreliable, install the receiver unit nearer to the place of thermostat or use a **COMPUTHERM Q2RF** signal repeater to increase the communication distance.

7. Frequently asked questions

When you think that your appliance is operating incorrectly or you encounter any problem while the appliance is being used then we recommend that you read the Frequently Asked Questions (FAQ) available on our website, where we collected the problems and questions that most frequently occur while our appliances are being used, along with the solutions thereto:

<https://computerm.info/en/faq>



The vast majority of the problems encountered can be solved easily by using the hints available on our website, without seeking professional help. If you have not found a solution to your problem, please contact our qualified support team.

8. Product information data sheet

- Trademark: **COMPUTHERM**
- Model identifier: **Q2ORF Wi-Fi (RX)**

Technical data:

- **Power supply voltage:** 230 V AC, 50 Hz
- **Switchable voltage:** max. 30 V DC / 250 V AC
- **Switchable current:** 6 A (2 A inductive load)
- **Storage temperature:** 10 °C ... +50 °C
- **Operating humidity:** 5 % – 90 % (without condensation)
- **Protection against environmental impacts:** IP30
- **Standby mode:** max. 0.5 W
- **Dimensions:** 90 x 90 x 30 mm (W x H x D)
- **Weight:** 126 g

The **COMPUTHERM Q2ORF (RX)** type thermostat receiver complies with the requirements of directives RED 2014/53/EU and RoHS 2011/65/EU.



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Origin:

designed in the EU, manufactured in China

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