

Make sure to plug the **Q2RF** wireless repeater approximately half way between the **Q3RF**, **Q5RF**, **Q7RF** and **Q8RF** thermostat and its receiver unit.

Warning! The manufacturer does not assume responsibility for any direct or indirect damages and loss of income occurring while the appliance is being used.

4. TECHNICAL DATA

- **Power consumption:** 0,5 W
- **Power supply voltage:** 230 V AC, 50 Hz
- **Output voltage:** 230 V AC; 50 Hz
- **Maximum output current:** 16 A (3 A inductive load)
- **Operating frequency:** 868,35 MHz
- **Weight:** 150 g
- **Storage temperate:** -10 °C – +40 °C
- **Protection against environmental impacts:** IP30

The **COMPUTHERM Q2RF** signal repeater plug complies with the requirements of the standards RED 2014/53/EU and ROHS 2011/65/EU.



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COMPUTHERM Q2RF

wireless (radio-frequency) signal repeater (range expander) plug for enlarging the range of the **COMPUTHERM Q3RF**, **Q5RF**, **Q7RF**, **Q8RF** thermostats



Operating Instructions

1. GENERAL DESCRIPTION

The **COMPUTHERM Q2RF** plug was developed for the **COMPUTHERM Q3RF, Q5RF, Q7RF** and **Q8RF** thermostats to increase their wireless range. The original range of **Q3RF, Q5RF, Q7RF** and **Q8RF** thermostats is 50 m in open area, which can be significantly shortened by the structure of the building. To be able to use the **Q3RF, Q5RF, Q7RF** and **Q8RF** thermostats in larger buildings too, it is advised to use a wireless signal repeater. This can be achieved by using the **COMPUTHERM Q2RF** wireless repeater: it receives the signals of the wireless thermostats and retransmits the signal to the receiver unit, thus making the range larger. The **Q2RF** plug should be connected to the mains voltage (230 V, 50 Hz), meanwhile on the output of the **Q2RF** plug the 230 V, 50 Hz mains voltage also appears. The maximum load of the plug is be 16 A (3 A inductive).

2. PUTTING THE WIRELESS REPEATER INTO OPERATION

Warning! Modifying the socket can cause electric shock or product failure.

When choosing the location of the signal repeater 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.

Connect the **COMPUTHERM Q2RF** wireless repeater plug to the mains voltage, approximately half way between the **Q3RF, Q5RF, Q7RF** and **Q8RF** thermostat and its receiver unit. After a couple of seconds the LEDs on the front panel of the plug flash once, after which the plug is ready for operation. Without tuning the device together with the thermostat or its receiver unit, it receives the signals from all **Q3RF, Q5RF, Q7RF** and **Q8RF** thermostats in its range (the red LED flashes 3 times), after which it transmits the signal to the receiver unit (the green LED flashes 3 times) using the same security code. It causes absolutely no problems if there are more thermostats working in the range of the wireless repeater: as the security codes are kept for the repeated signals, an incorrect switch is not possible.

3. FAST CHECK OF THE OPERATION OF THE WIRELESS REPEATER

It is easy to check the range of the **Q3RF, Q5RF, Q7RF** and **Q8RF** thermostats in a given environment by increasing the distance between the thermostat and the receiver unit. It is also simple to check the range expanding ability of the **Q2RF** plug by connecting it to the mains voltage between the thermostat and the receiver unit when they are far away from each other.

Further, by pressing the „**TEST**“ button, the verification of the operation of the **Q2RF** plug is easy, fast and can be done within one room by following the steps below:

- a. Unplug the **Q2RF** device, in case it was plugged in before, and wait approximately 1 minute to make sure that the capacitors inside the device are discharged.
- b. Press and hold down the grey „**TEST**“ button on the front side of the device, and meanwhile connect it to the mains voltage. Do not release the „**TEST**“ button until the LEDs on the front side of the device first start flashing alternately, then after a couple of seconds they become continuously illuminated for approximately 2 seconds together. After the LEDs switch off (become unilluminated), the device is in „**TEST**“ mode, and it is ready for the verification of its operation.
- c. The „**TEST**“ mode of the wireless repeater inverts the signal sent from the thermostat to the receiver unit. When the thermostat sends a switch on command to the receiver unit and the sign of the heating/cooling equipment working appears on the display of the thermostat, the receiver unit turns on. A few seconds later the wireless repeater sends a switch off command to the receiver unit, so the receiver unit switches off. Similarly, a couple of seconds after the switch off signal of the thermostat, the wireless repeater sends a switch on signal to the receiver unit.

The inverted operation shows that the signal repeater plug is working properly. With the help of this „**TEST**“ mode, it is easy and fast to check the proper operation of the **Q2RF** wireless repeater even if it is close to the thermostat and the receiver unit.

- d. To finish using the „**TEST**“ mode, unplug the device from the mains voltage and wait approximately 1 minute to make sure that the capacitors are discharged. After this connect the device to the mains voltage again, and then it is ready to use.