

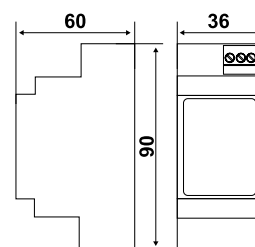
CH175

1 relay wireless actuator Intellicomfort+ system

CH175 device is an actuator that, when connected to the wireless network of the Intellicomfort+ system, can activate the various units of the system: boiler, zone solenoid valve, cooling, dehumidification, etc.. CH175 also works as a wireless repeater,



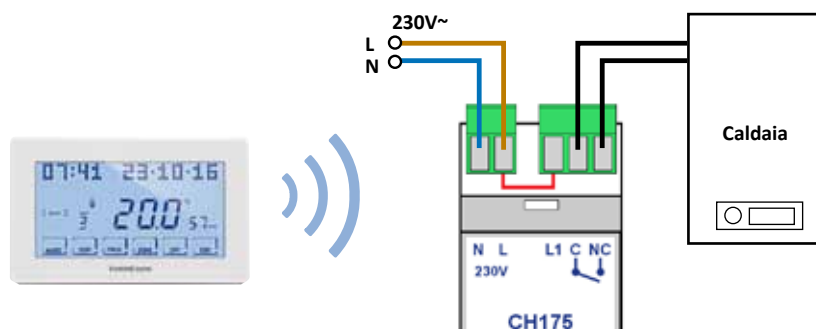
Dimensions (mm)



	Mounting	Power supply	Contact rating	Transceiver frequency
CH175	DIN rail	230VAC - 50HZ	16(4)A – 250Vca	Wireless 868MHz

ELECTRICAL CHARACTERISTICS

- Power supply: 230Vac $\pm 10\%$ - 50Hz;
- Power consumption: 20VA max (load excluded)
- Transceiver frequency: 868MHz
- Contacts rating: 16(4)A – 250Vca;
- Maximum radio frequency power transmitted < 10mW.
- Maximum cables size: 2,5 mm².



HOMOLOGATION AND STANDARDS

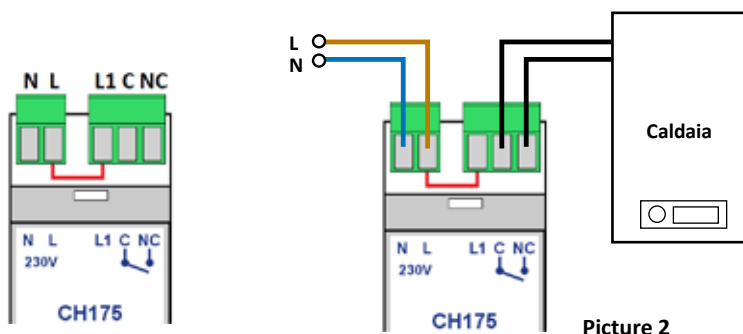
- Complies with EN 60730-1 standards;
- Responding to Directive R&TTE EN300 220-3, EN 301 489-03;
- Responding to Directive 2014/53 / EU (RED).



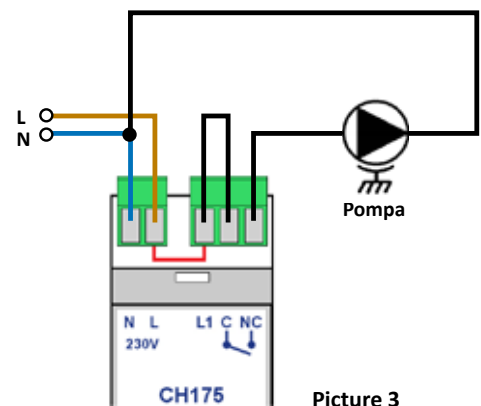
INSTALLATION

- Mounting on DIN bar 2 modules (1 module = 17.5mm).
- Installation inside electrical cabinets.

EXAMPLE CONNECTION



Picture 2



Picture 3

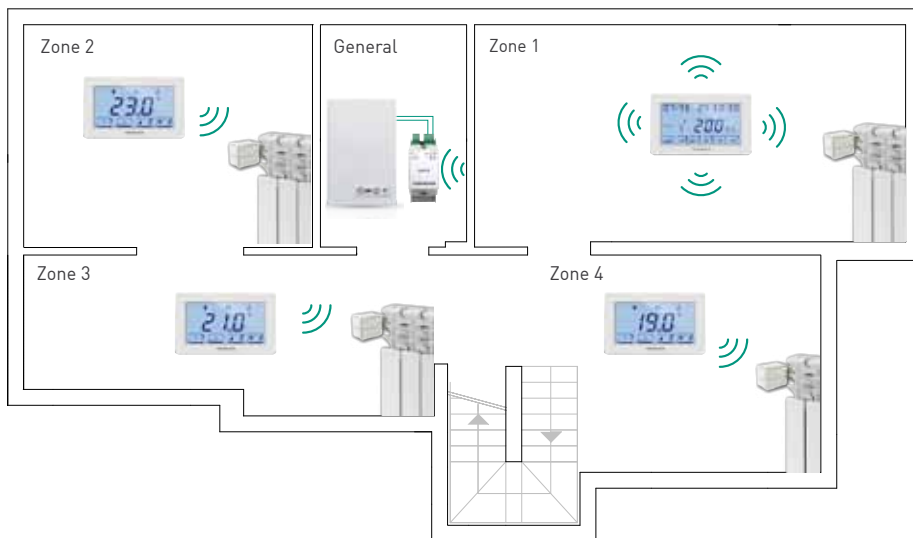
- Internal connection: the “L1” pole of the output terminal block is connected on the PCB board with the “L” pole of the power terminal block.
- To control units with “free voltage contact”, adopt the connection example of picture 2;
- To control units with “powered contact”, adopt the connection example of picture 3.

OPERATION

- The CH175 is an implementation module that, connected to the wireless network system Intellicomfort +, allows the remote control of the various devices (heating boiler / cooling, dehumidifier or solenoid zone valves).
- It can be connected to the CH180RF to manage different devices on the overall system or connected to the CH120RF to command zone devices.
- The CH175 module also provides to the wireless repeater functionality, extending the radio range of the Intellicomfort+ wireless network.

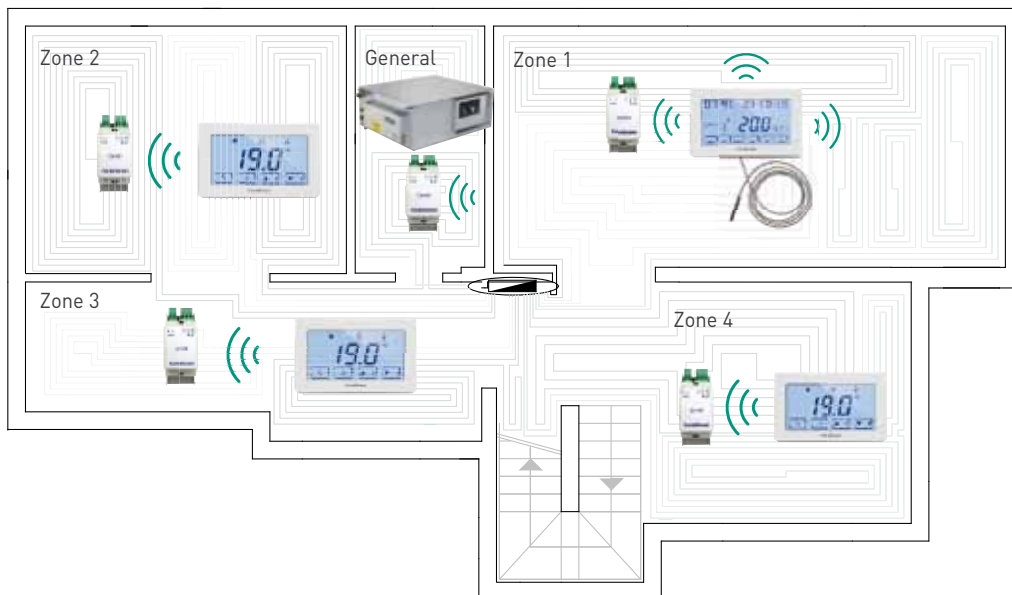
SYSTEM EXAMPLE

OPERATION AS A COMPONENT OF THE MULTIZONA INTELLICOMFORT + SYSTEM (autonomous system with boiler and radiators located in non-optimal areas)



- CH180RF "MASTER" controls CH120RF zone thermostats which regulate the temperature in the zone and communicate with the O60RF actuators in the same zone.
- O60rf receives the set point and regulates the temperature according to the data detected by the zone thermostat
- CH175 actuator activates the boiler and also acts as a repeater for the wireless network of the Intellicomfort+ system, extending the range of the system.

HOT/COLD WATER RADIATOR SYSTEM



- Weekly programmable thermostat CH180RF "MASTER" manages the heating and cooling of a floor system through actuators CH175 which controls the zone solenoid valves.
- A general dehumidifier or one for each zone, control in cooling mode the condensate formation.

SYSTEM CONFIGURATION

- Once powered, to be able to work, the CH175 actuator must be included in the wireless system network of the Intellicomfort+; this operation requires the use of the configurator (code 1590880) which, through the display supplied with it, provides the operating instructions. When required, the remote control must be approached with the actuator and recognized by contact.
- For more details refer to the Intellicomfort + system installation manual



CHARACTERISTICS

- Actuator 1 relay for control:
 - General and/or area heating
 - General and/or area cooling
 - General and/or area dehumidification
 - Contact voltage
- Wireless repeater;
- Operating temperature: $0 \div 50^{\circ}\text{C}$;
- Storage temperature: $-20 \div +70^{\circ}\text{C}$;
- Shape type: gray ABS plastic;;
- Protection degree: IP20;
- Dimensions: 36x58x90 mm. - DIN-rail (2 modules)
- Weight: 100g.