

## 2. Overview

The room unit HCW 80 is used for intelligent room temperature control in combination with the relay module HC60NG. It can be used to control gas and oil boilers, a variety of valves and actuators or electrical heating systems. No wiring to the room unit HCW 80 is required.

Because of the simple HCW 80 analogue user interface with absolute set point temperature scale, the room set point temperature can be easily adjusted.

The room unit and the relay module provide reliable RF communication technology on 868 MHz frequency.

**i** The HCW 80 and HC60NG are already teached-in (bounded). They are provided as pre-configured kit for fast installation (plug and play).

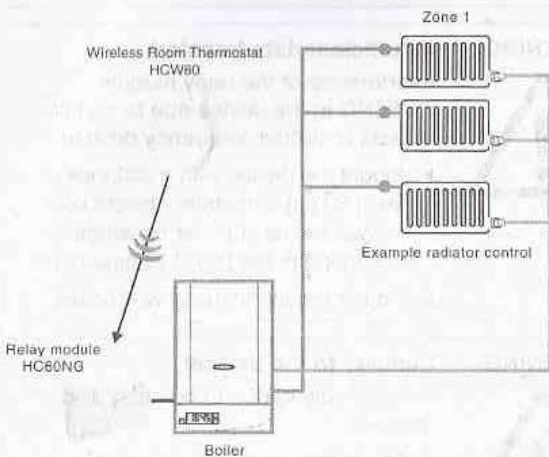


Fig. 1: Application of the wireless room thermostat

### 2.1. Pre configured kit Y6630D1007

- 1 HCW 80 (room unit)
- 1 HC60NG (R6660D1009, relay module)
- 2 AA batteries, 1.5 V, type LR6

**i** The kit Y6630D1007 is provided pre-bound. The room unit HCW 80 is already assigned to the relay module HC60NG. The teach-in is not required in this kit.

### 2.2. Singly provided devices

**i** Singly provided devices must be teached-in as described in section 5 "Teach-in (singly provided devices only)".  
Teach-in means the HCW 80 and HC60NG must be RF bound for communication.

## 3. Installation

### 3.1. Installation relay module HC60NG

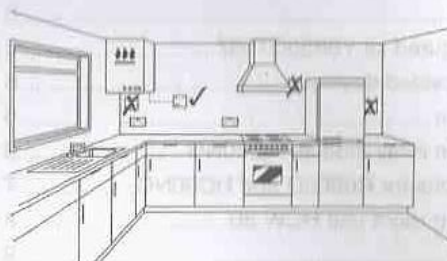


Fig. 2: Positioning the relay module HC60NG

- ▶ Follow the installation diagrams to install and connect the power supply to the relay module HC60NG.

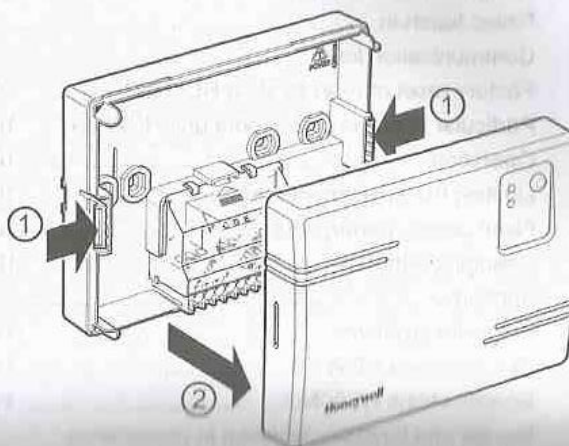


Fig. 3: Opening the housing cover

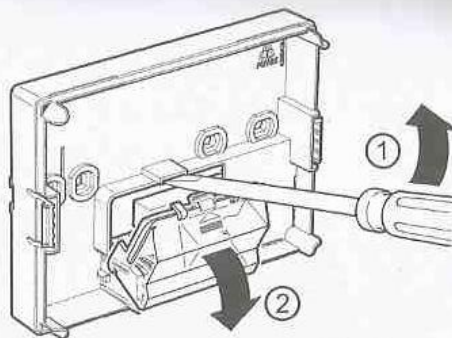


Fig. 4: Removing the terminal covers

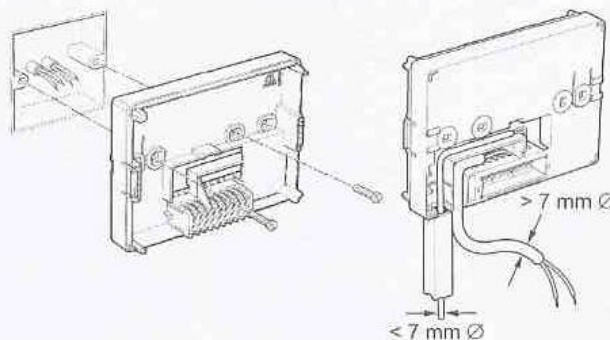


Fig. 5: Connecting the relay module to the power supply

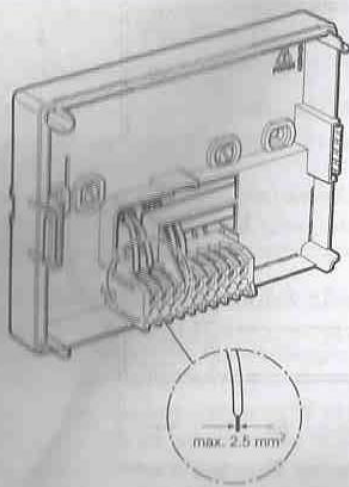


Fig. 6: Wiring the terminal

### 3.1.1. Connections for HC60NG (R6660D1009)



**CAUTION Incorrect wiring!**

- Install in accordance with local wiring regulations.
- Observe ambient temperature and current limits (see HC60NG wiring label).



The green LED on the receiver indicates demand from the thermostat NOT that the heating will be on, this depends on the programmer settings.



**CAUTION Incorrect wiring!**

Honeywell accepts no liability for any loss or damage arising from any errors or omissions that may be inadvertently contained within this sketch. This is a proposal sketch only, not a certified wiring diagram.

- This diagram must be read in conjunction with any boiler or cylinder manufacturers instructions.

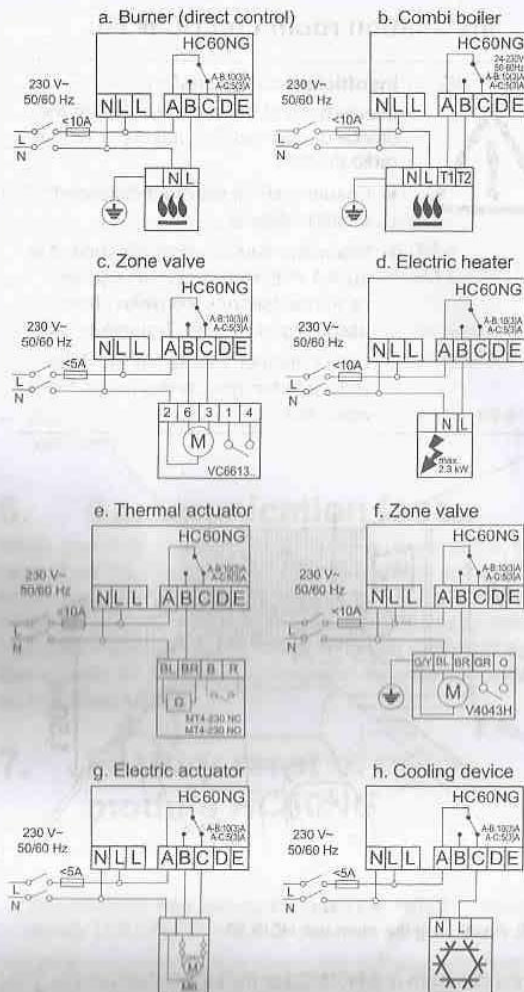


Fig. 8: Wiring diagram for HC60NG

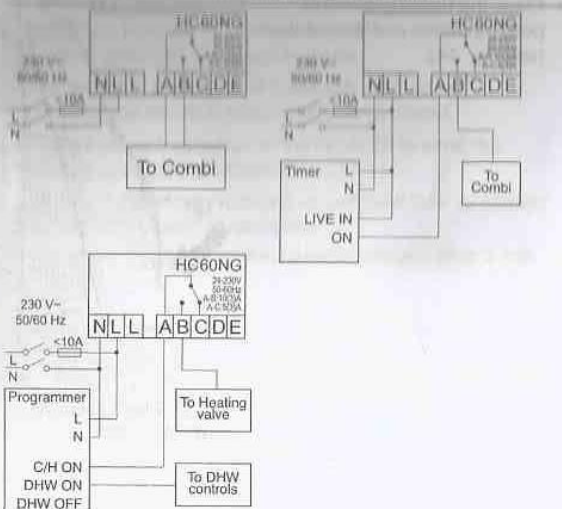


Fig. 7: Wiring diagram for HC60NG

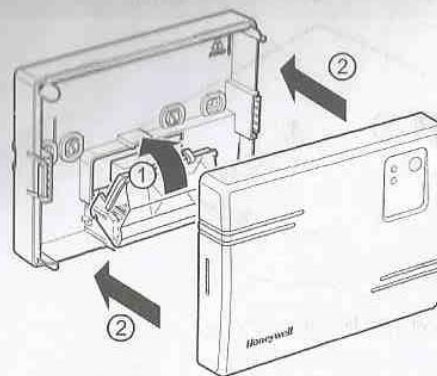


Fig. 9: Closing the terminal and housing cover



### 3.2. Installation room unit HCW 80

**WARNING**



**Insufficient data transfer!**

Interference of the radio receiver in the device due to metallic objects or further radio devices.

- ▶ Ensure there is sufficient distance to metallic objects.
- ▶ Mount the device with a distance of at least 1 m to radio devices such as radio headphones, cordless phones according to the DECT standard, etc.
- ▶ Select another installation site if the radio interference cannot be corrected.

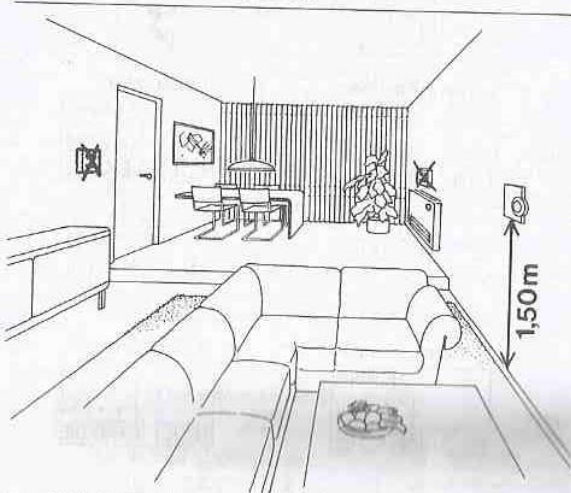


Fig. 10: Positioning the room unit HCW 80

- ▶ Place the room unit HCW 80 at the installation site.
- ▶ Remove the housing cover of the room unit HCW 80 (see Fig. 11: Removing the housing cover).

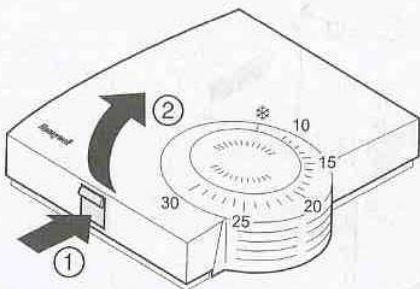


Fig. 11: Removing the housing cover

- ▶ Mark the drill holes according to the drilling template (see Fig. 12).

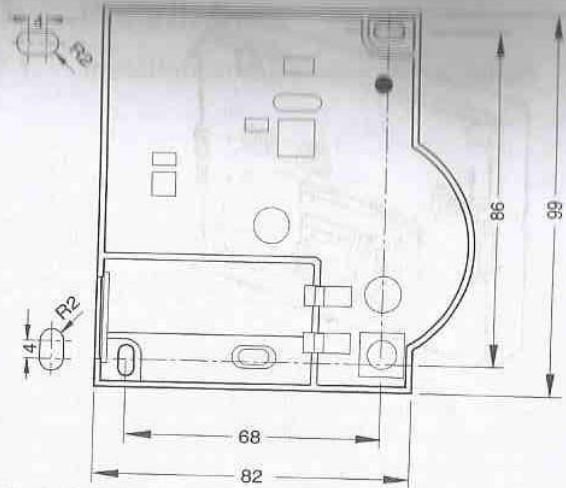


Fig. 12: Drilling scheme (measurements in mm)

- ▶ Drill the holes.
- ▶ Screw on the room unit.
- ▶ Insert the supplied AA batteries with the correct battery polarity (see Fig. 13: Battery polarity and send button).

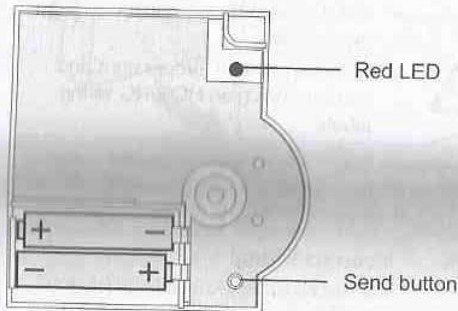


Fig. 13: Battery polarity and send button

**i** The batteries have to be replaced when the red LED at the room unit HCW 80 flashes (see section 9 "Changing batteries").

- ▶ Place the housing cover in position above and snap it down (see Fig. 14).

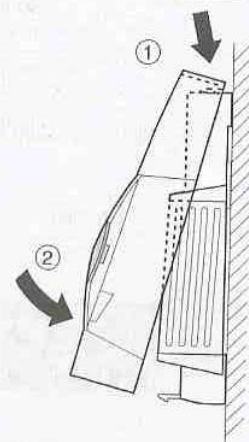


Fig. 14: Placing housing cover in position