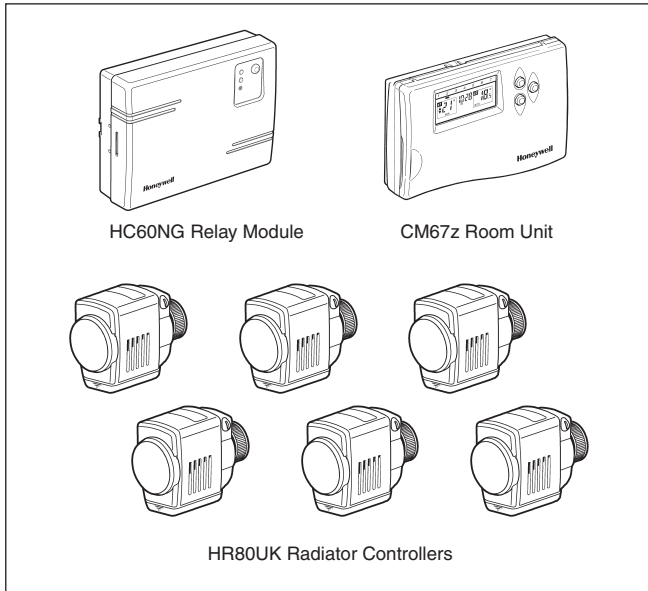


## YZ667A1060

### Wireless Domestic Heating Zoning System

#### INSTALLATION GUIDE



## 1 GENERAL

The CM Zone Wireless Domestic Heating Zoning System offers high levels of comfort and energy savings for the home. It provides the ability to control two individual zones at different comfort levels and at different times. A typical example being the living areas and the bedrooms being controlled separately.

The standard CM Zone Pack contains a Room Unit, a Relay Module and six Radiator Controllers all pre-bound with three Radiator Controllers bound to Zone 1 and three bound to Zone 2. The System can be expanded or modified and the methods used are described within this Guide.

To get the best from the installed system it is recommended to use Honeywell VT15, VT117 or VT200 TRV bodies and a Honeywell DU145 Automatic Bypass Valve.

For application support please contact your nearest Honeywell salesman, for technical assistance please contact the Honeywell Technical Help Desk, details are on the back page.

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## 2 TECHNICAL INFORMATION

### Type numbers

CM67z - Room Unit (x1)  
 HR80UK - Radiator Controller (x6)  
 HC60NG - Relay module (x1)

### Material

Housings made of plastics (ABS).

### Dimensions

CM67z - 155 x 105 x 30 mm. (l x h x d)  
 HR80UK - 50 x 80 x 105 mm. (l x h x d)  
 HC60NG - 131 x 97 x 36 mm. (l x h x d)

### Power

CM67z - 2 x 1.5 V IEC LR6 (AA) Alkaline cells  
 HR80UK - 2 x 1.5 V IEC LR6 (AA) Alkaline cells  
 HC60NG - 230V~ 50Hz powered

### Electrical wiring (only for HC60NG)

Mains power supply  
 Relay output rating: 24-230 V~, 10A resistive,  
 3A inductive 0.6 p.f.

### Programming Capability

2 individual heating programs  
 7 days with 6 temperature change times per day

### Approvals

DIN EN ISO 9001/14001, CE, EN60730-1 (2000),  
 EN60730-2-9 (2002), EN55014-1 (2000), EN55014-2 (1997),  
 ETSI EN300 220-3 (2000), ETSI EN301 489-3 (2000)

## Section 3: Factory Configuration

The Hydronic Zoning kit is factory pre-configured and has the following components:

- Zone 1 - Three HR80UK Radiator controllers labelled 1
- Zone 2 - Two HR80UK Radiator controllers labelled 2
- HC60NG - Relay box
- CM67z - Room Unit

To change this factory configuration or to add components please see **Section 8: Changing the Configuration**.

### Zoning Example

Zone 1: Living Room + Kitchen (downstairs)

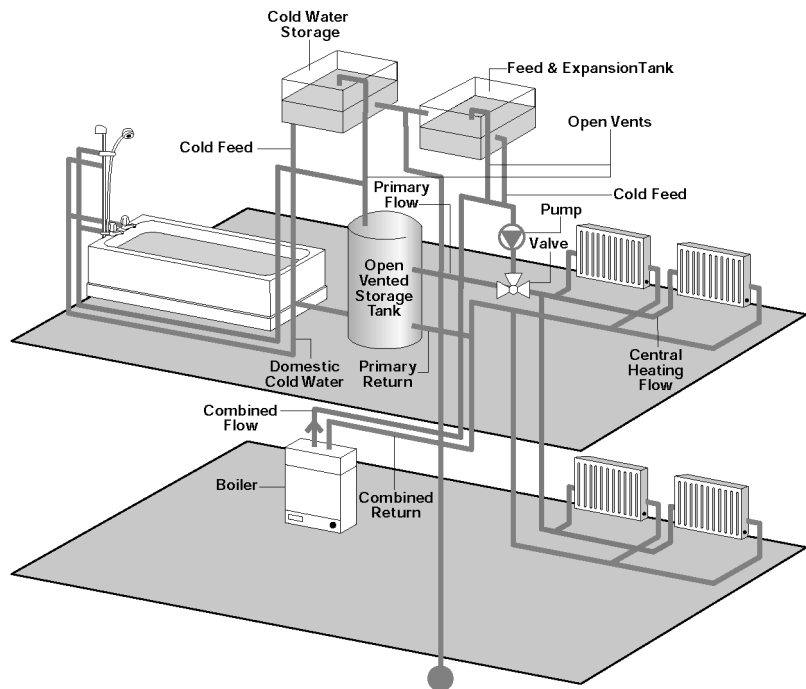
Zone 2: Bedrooms (upstairs)



### A typical traditional system with open vented hot water storage tank

#### Conventional Boilers

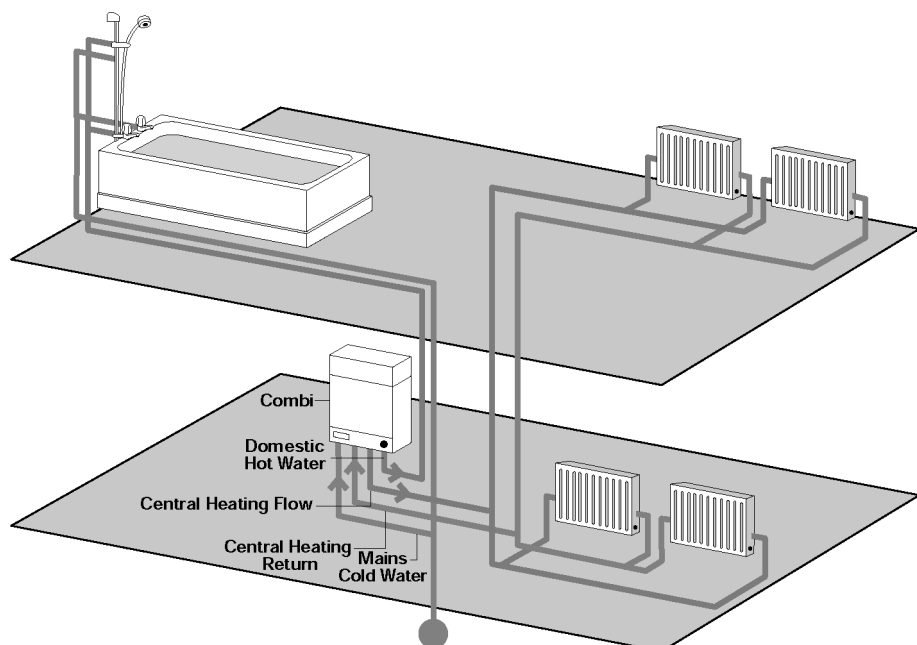
These are used in traditional central heating systems in the UK.



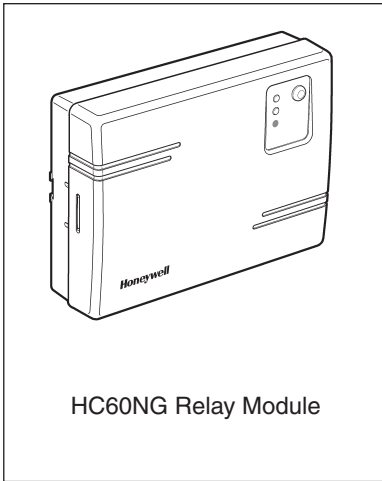
### A typical COMBI system

#### Combination Boilers

With a combination boiler, hot water and central heating requirements are provided from the one unit.



## Section 4: HC60NG Relay Module



The HC60NG Relay Module is an integral part of the CM Zone Control System. It is designed to control a Domestic Boiler, Valve, pump or Electric Heating appliances.

In the standard CM Zone Pack the HC60NG Relay Module is configured to control a Boiler based upon demand signals received from the HR80UK Radiator Controllers either directly or via a 'Y Plan' / 'S Plan' connection described below.

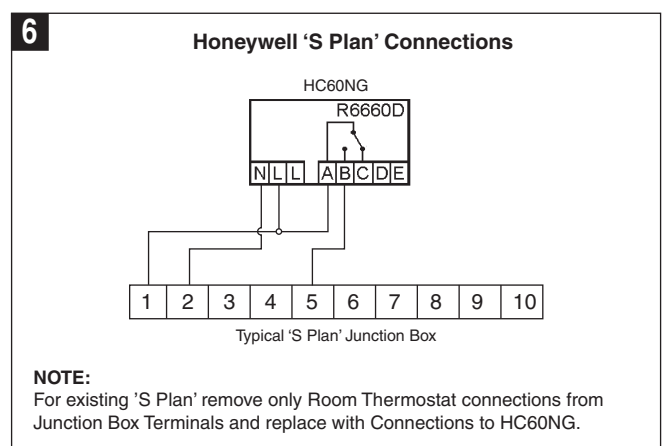
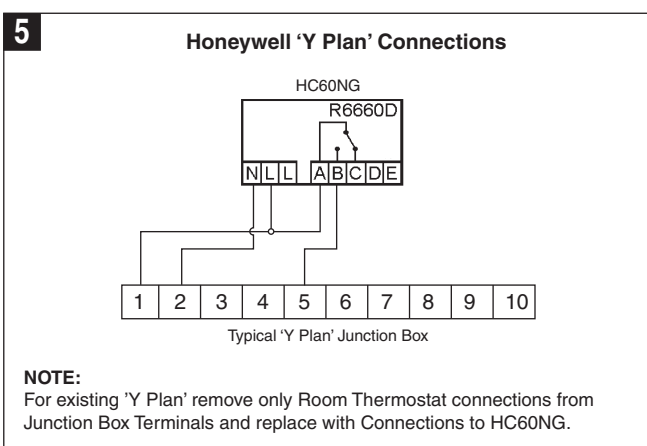
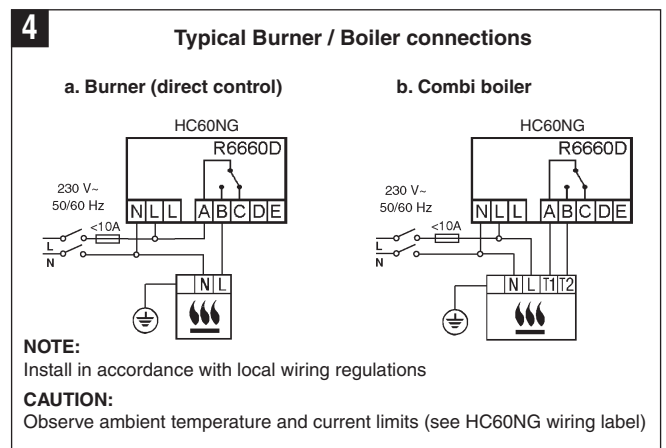
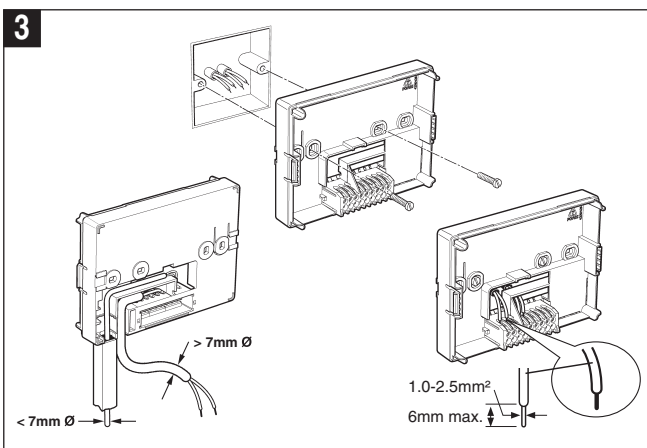
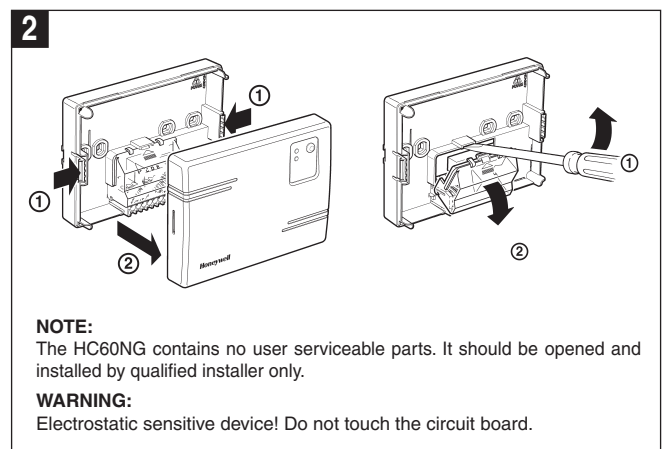
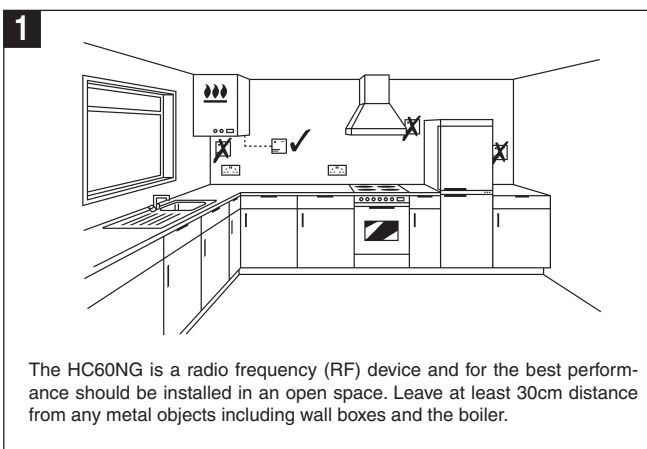
For control of other applications see **Section 8: Changing the Configuration**.



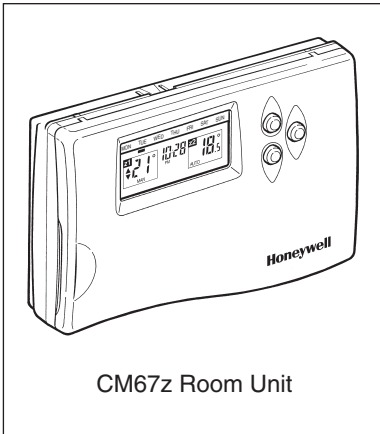
**When selecting the operating site of the HC60NG ensure that the distance to other wireless devices such as wireless headphones, cordless phones etc. is at least 1-2m.**



**Please note: Maximum wire size 2.5mm<sup>2</sup>. SPDT relay suitable for 24...230V~, 10A resistive, 3A inductive**



## Section 5: CM67z Room Unit



The CM67z Room Unit provides a central point from which to configure the system and set the time and temperature profiles for each Zone. At a given time, as defined within a Zone profile, the CM67z Room Unit transmits the required temperature setpoint to the respective HR80UK Radiator Controllers, local temperature control and override is then provided at each HR80UK Radiator Controller.

In the default setting, the CM67z Room Unit on-board sensor is disabled. This may be enabled for certain applications as described within **Section 8: Changing the configuration**

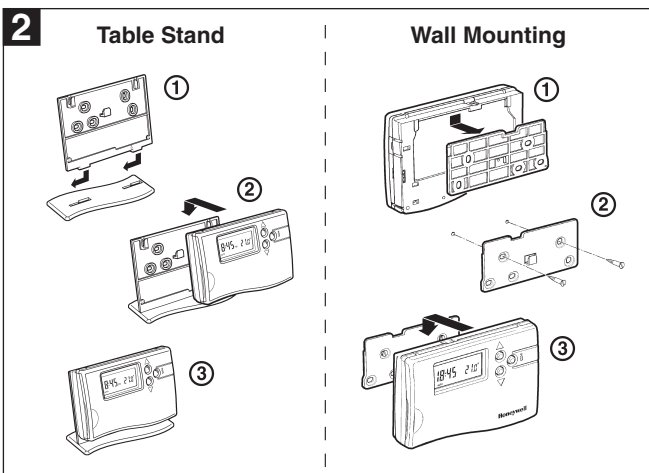
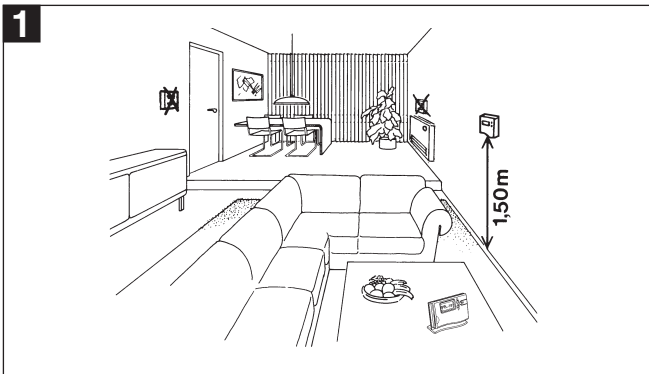
For normal operation refer to the CM Zone User Guide



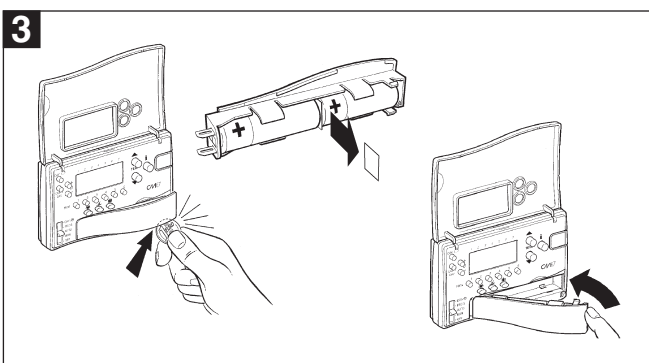
**When selecting the operating site of the CM67z ensure that the distance to other wireless devices such as wireless headphones, cordless phones etc. is at least 1-2m and at least 1m to other electrical devices. Do not mount the CM67z on metal surfaces or wall boxes.**

### Positioning

The CM67z is a RF device and for the best performance should be installed in an open space. Leave at least 30cm distance from any metal objects including wall boxes.

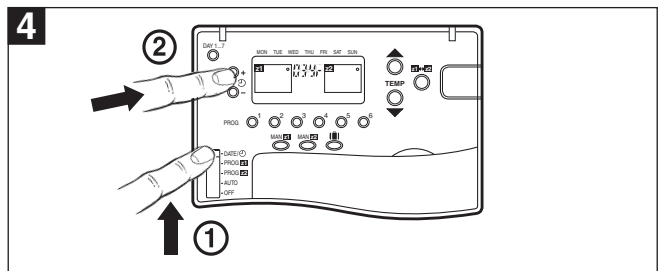


### Start up

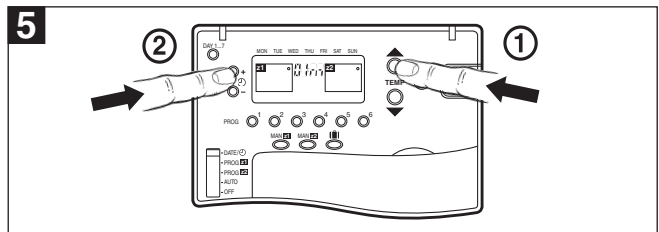


Remove the insulation tab from the CM67z battery compartment.

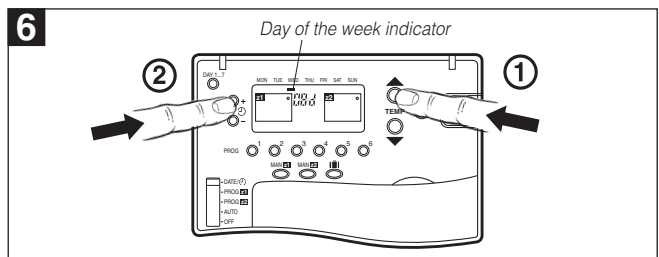
### Setting the clock



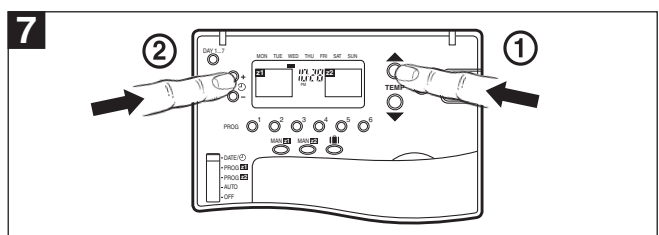
Move the CM67z slider to **DATE** position. When setting the date and time for the first time after batteries were inserted the zone controller display will flash as shown. Press the  $\ominus$  + or - buttons to set the current year (e.g. 03 = 2003).



Press the **TEMP** ▲ button to go to the month: Press the  $\ominus$  + or - to set the current month (e.g. 01 = January). Press the **TEMP** ▲ button to go to the day of the month:

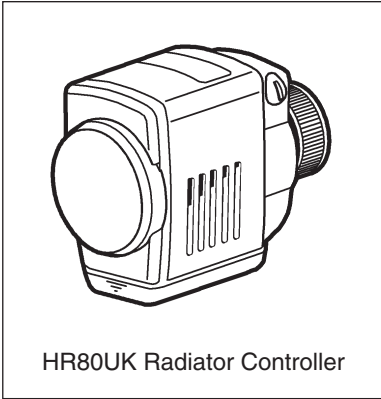


Press the  $\ominus$  + or - to set the current day of the month. Check if the day marker on the display indicates the correct day of the week.



Press **TEMP** ▲ button to go to the time: Press the  $\ominus$  + or - until the correct time is displayed. Holding the button for a few seconds will change the time slowly then quickly.

## Section 6: HR80UK Radiator Controller



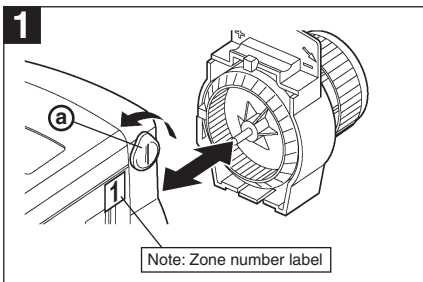
The HR80UK Radiator Controller provides local room temperature control based upon setpoint information received from the CM67z Room Unit and sends Load Demand signals based upon room conditions to the HC60NG Relay Module. Setpoints can be temporarily overridden using the adjustment dial.

The HR80UK can be fitted onto Honeywell VT15, VT117, VT200 and many other manufacturers TRV bodies with a M30x1.5mm thread and a 12.9 - 10.5 mm valve closing point, adaptors may be available for manufacturers with non standard connections. For more information contact Honeywell Technical Help Desk, details on the back page.

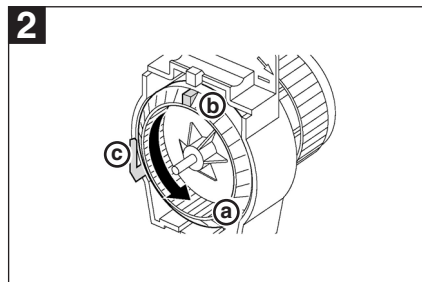


**When selecting the operating site of the HR80UK ensure that the distance to other wireless devices such as wireless headphones, cordless phones etc. is at least 1-2m.**

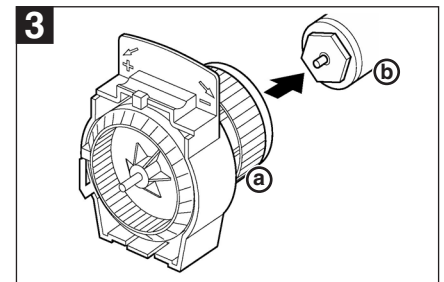
In the standard CM Zone Pack the HR80UK Radiator Controllers are pre-bound to each zone as indicated by the zone number label. To add additional HR80UK Radiator Controllers to a zone refer to **Section 8: Changing the Configuration**.



Turn the locking knob (a) and separate the operating module from the coupling module.



Turn the coupling module wheel (a) anti-clockwise (approx. 3 rotations) until the nose (b) reaches the end stop (c).



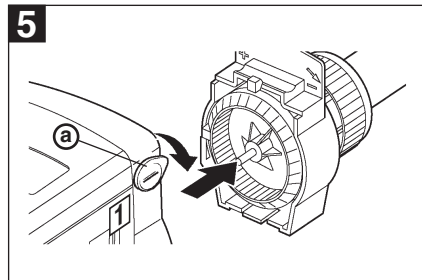
Fit the coupling module (a) to the TRV body (b) and tighten by hand.

For Adaptors see below.

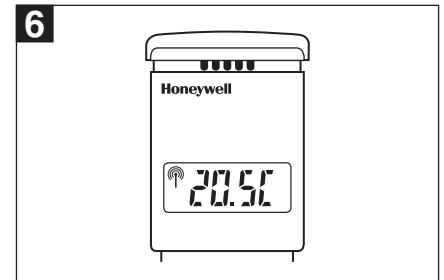


Install batteries into the operating module.

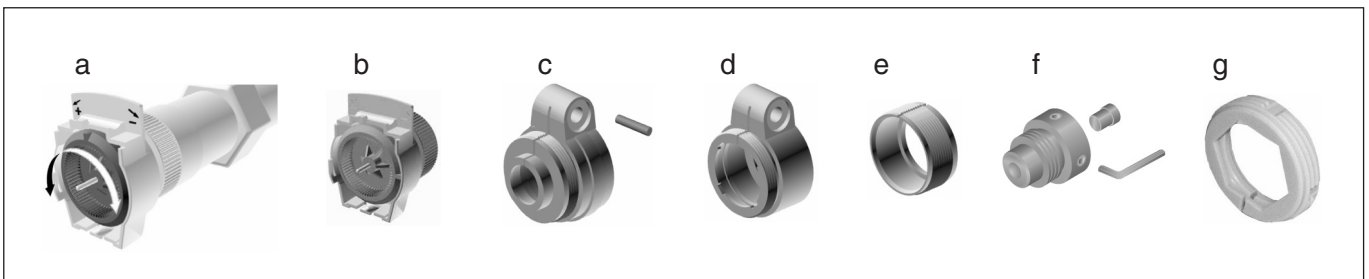
Note: Check correct polarity.



Fit the operating module onto the coupling module and turn the locking knob (a) down to lock in place.



When adaption is complete the room temperature set-point is displayed.



A selection of adaptors are available to suit many other TRV manufacturers. For more information please contact Honeywell Technical Help Desk, details on the back page.

## Section 7: System Testing



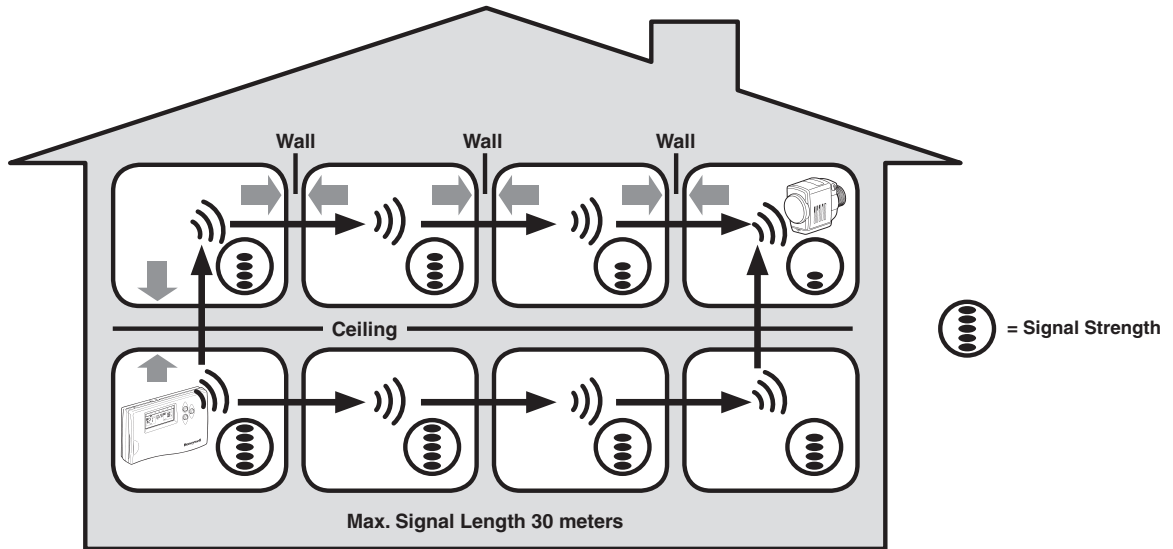
Caution!

When selecting the operating site ensure that the distance to wireless devices such as wireless headphones, cordless phones etc. is approx. 1-2m.



It is recommended to complete the system testing before mounting the wall bracket on the wall.

Position the CM67z Room Unit as close as possible to the location where it will be used.



Typical example of Building Fabric Signal losses

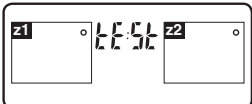
### CM67z Room Unit to HR80UK Radiator Controllers

1. Move the CM67z slider to **AUTO** position.
2. Set the **zone 1** setpoint to 5°C by pressing the **TEMP ▼** button. Press the **Z1↔Z2** button and set the **zone 2** setpoint to 30°C by pressing the **TEMP ▼** button.
3. Check all the HR80UK's in **zone 1** received 5°C setpoint and the ones in **zone 2** 30°C setpoint (allow 4 minutes for the HR80UK to receive the setpoint).  
Repeat the steps 2 and 3 selecting different temperature values.
4. To complete the system test move the CM67z slider to the **OFF** position then back to the **AUTO** position. Install the wall bracket for the CM67z (if required).

### HR80UK Radiator Controllers to HC60NG

1. Move the CM67z slider to **AUTO** position.
2. Set both **zone 1** and **zone 2** setpoints to 5°C by pressing the **TEMP ▼** button (Using the **Z1↔Z2** button to switch between zones).
3. Set all HR80UK dials to the **OFF** position. Set the dial of the first HR80UK to the **ON** position. The green LED on the HC60NG should come on.
4. Set the dial back to the **OFF** position and ensure that the green LED on the HC60NG boiler controller goes off.
5. Repeat the steps 3 and 4 with all the HR80UK's in the system.
6. To complete the system test reset all of the HR80UK radiator controllers back to normal operation by removing and re-inserting the batteries on each one. Install the wall bracket for the CM67z (if required).

### Test between CM67z & HR80UK

1. CM67z room unit can send a test signal to the HR80UK radiator controllers and the HC60NG boiler or zone valve controller.
2. Set the CM67z slider to the **OFF** position. Press the **TEMP ▲, ▼** and **PROG 2** buttons together to enter the test mode. The CM67z will display:
 

The first two digits in the HR80UK display indicate the number of received test messages, and the right-hand digit indicates the field strength (1 = sufficient field strength, 5 = very good field strength).

The red LED of the HC60NG indicates the field strength by means of flashing (1 = sufficient field strength, 5 = very good field strength).

### To deactivate Service mode:


Press the binding procedure button for 5 seconds or wait 5 minutes or remove and then re-insert the batteries.

The green LED on the HC60NG will flash once every 7 seconds.

## 7.1 Service mode

The wireless contact between the radiator controller, the central operating unit and a receiver unit is checked in Service mode. This mode is for installer use only.

### Test between HR80UK & HC60NG

1. Separate operating unit from coupling module (see Section 6)
2. Turn the adjustment dial until on  (open) appears in the display.
3. Turn adjustment dial two full rotations (720°) further until **tEst** is displayed. Service mode is active.

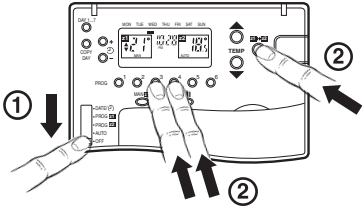
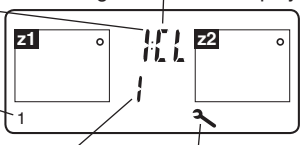
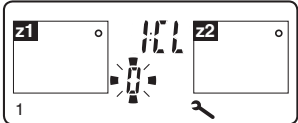
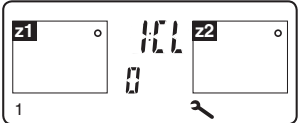
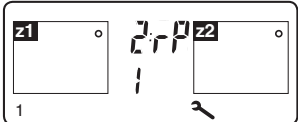
The radiator controller transmits a test message to any available HC60NG.

The field strength is indicate by the number of flashes of the red LED (1 = sufficient field strength, 5 = very good field strength).

4. Press the binding procedure button (page 8 - diagram 5).  
The radiator controller is ready to receive the test message from the central operating unit.

8.1 Parameters of the CM67z Room Unit

Installers Set Up Mode allows changing the controllers parameters to meet specific application requirements or customers needs. See fig 1 to 7 how to enter the Installer set-up.

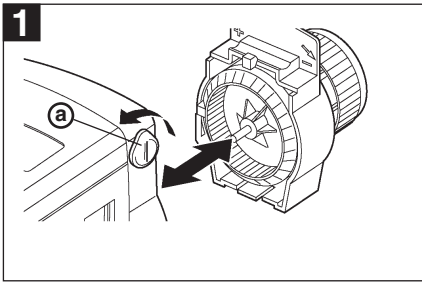
<p><b>1</b></p> <p>Move the CM67z slider into the <b>OFF</b> position.</p> <p>Press and hold the <b>z1↔z2</b> and <b>PROG 3</b> &amp; <b>4</b> buttons together.</p> 	<p><b>2</b></p> <p><b>Abbreviated Set-Up Description</b> e.g. CL = Clock Display</p> <p><b>Installer Set-Up Number</b> (Press <b>⊖</b> + or - to change) e.g. 1 = AM/PM</p> <p>Category 1 Installer Set-Ups</p> <p><b>Factory Setting or New Choice</b> (Press <b>TEMP ▲</b> or ▼ to change) e.g. 0 = 24hr e.g. 1 = 12hr AM/PM</p> <p>Installer Set-Up Mode Selected</p> 
<p><b>3</b></p> <p>Press <b>TEMP ▲</b> or ▼ to change factory setting.</p> <p>The display will flash indicating that a change has been made.</p> 	<p><b>4</b></p> <p>Press the <b>z1↔z2</b> button to confirm the change is ok.</p> <p>The display will stop flashing indicating that the new value has been stored.</p> 
<p><b>5</b></p> <p>Press <b>⊖</b> + or - to go to the next parameter and follow steps 3 &amp; 4 to make changes.</p> 	<p><b>6</b></p> <p>Adjust other settings using the Installer <b>Parameter List</b> below.</p> <p><b>7</b></p> <p>To exit the <b>Installers Set-Up Mode</b> move the CM67z slider to the <b>AUTO</b> position.</p>

Parameter list

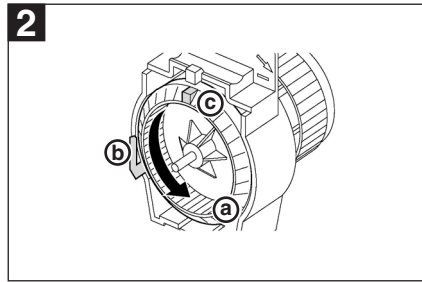
Parameter	Identifier	Range	Default	Category
AM-PM/24h select	1:CL	0 (24h) / 1(12h)	0 (12h)	1
Reset time/temp program	2:rP	0 (user prog) / 1 (factory prog)	0 (user prog)	1
<b>You must now press the PROG 2 key to enter the next section</b>				
Minimum ON time	3:Ot	1 (1) 5	1 min	2
CM67 Room Unit Internal Temperature Sensor Enable	6:tS	0 (disabled) 1 (enabled for display only) 2 (enabled for display and control)	0 (disabled)	2
Pump exercise feature enable	7:PE	0 (disabled) / 1 (enabled)	0 (disabled)	
Cycle Rate	8:Cr	{3,6,9} cph	6 cph	2
System Timing Master	9:Sn	0 (disabled) / 1 (enabled)	0 (disabled)	2
Upper Setpoint Limit	10:UL	21 (1) 30	30°C	2
Lower Setpoint Limit	11:LL	5 (1) 20	5°C	2
Temperature Offset	12:tO	-3.0 (0.5) 3.0	0 K	2
Proportional Band Width	14:Pb	1.5 (0.5) 3.0	1.5K	2
Optimisation enable	15:OP	0 (disabled) / 1 (enabled)	1 (enabled)	2
Loss of Communications Instruction	16:LC	0 (relay OFF) / 1 (relay ON 20%)	0 (relay OFF)	2
CM67z built-in temperature sensor use	17:SU	0 (HR80UK enabled) / 1 (HC60NG enabled) / 2 (both HR80UK and HC60NG enabled)	0 (HR80UK enabled)	2
HR80UK Window-Open Function	18:Ho	0 (disabled z1 & z2) / 1 (enabled z1only) / 2 (enabled z2 only) / 3 (enabled z1 & z2)	0 (disabled z1 & z2)	2
HR80UK Local Override Function	19:HL	0 (disabled z1 & z2) / 1 (enabled z1only) / 2 (enabled z2 only) / 3 (enabled z1 & z2)	3 (enabled z1 & z2)	2
Automatic Summer/Winter Time Changeover	20:tC	0 (disabled) / 1 (enabled)	1 (enabled)	2
Reset Installer Mode Parameters to Defaults	21:FS	0 (modified) / 1 (factory)	1 (factory)	2

## Section 8: Changing the Configuration (cont.)

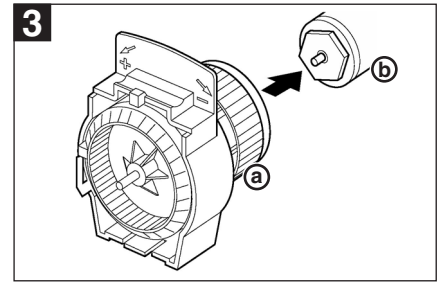
### 8.2 Adding further HR80UK Radiator Controllers



Turn the locking knob **a** and separate the operating unit and coupling module.



Turn the coupling module wheel **a** anticlockwise (approx. 3 rotations) until the nose **b** reaches the end stop **c**.



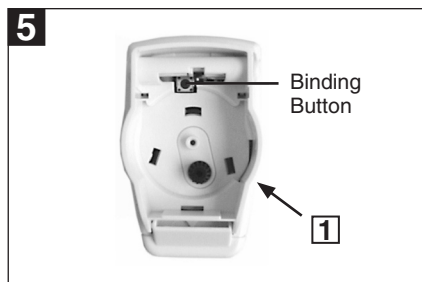
Fit the coupling module **a** to the TRV body **b** and tighten by hand.

For Adaptors see Section 6.

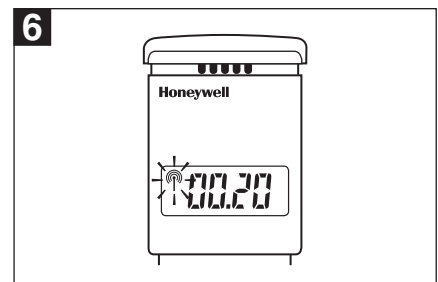



Install batteries into the operating unit.

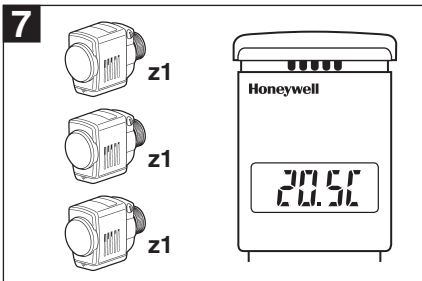
*Note: Check correct polarity.*



Attach the appropriate Zone Label and press the Binding Button.

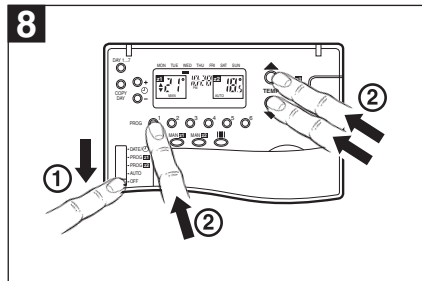


Software version is displayed and the RF symbol  flashes.



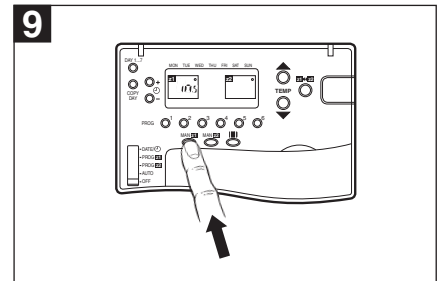
(Example Zone 1)

Repeat for all additional HR80's to bind to this zone.

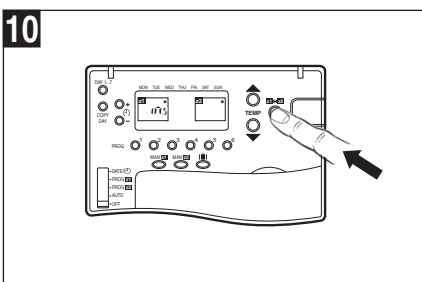


Enter CM67z Binding Mode

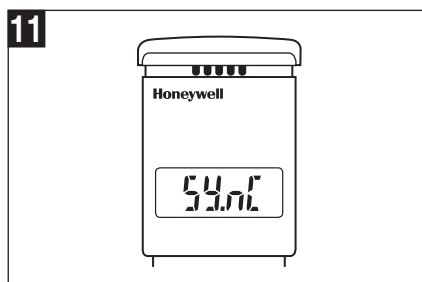
- ① Move slider to **OFF** position.
- ② Press and hold **TEMP** ▲, ▼ and **PROG 1** buttons together.



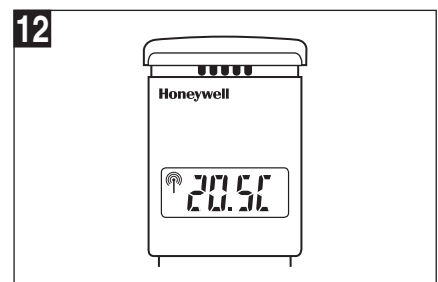
Press **MAN z1** button to select zone 1 or **MAN z2** to select zone 2.



Press **z1 ↔ z2** button to send the binding signal.



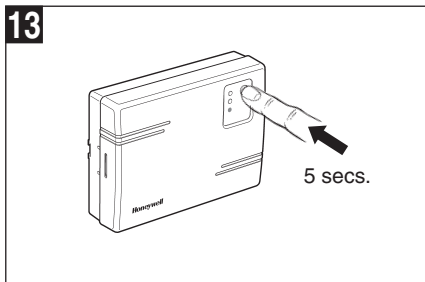
The HR80UK will display **54.7°C** (with no RF symbol) during binding.



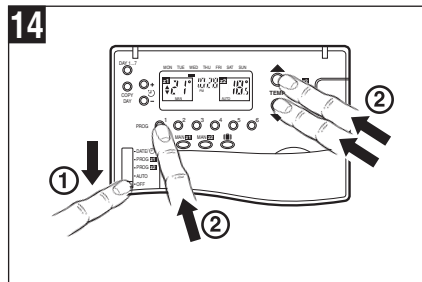
When complete the RF symbol will be displayed with the temperature setpoint (this can take up to 4 minutes).



### 8.2a Binding HR80UK Radiator Controllers to the HC60NG Boiler Module

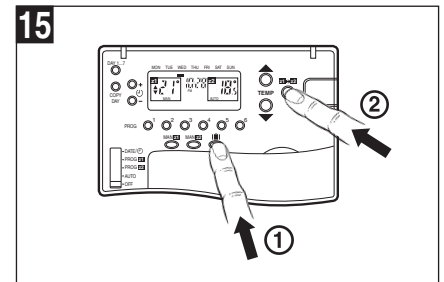


To put the HC60NG in the listening mode press the button on the HC60NG for 5 seconds (Red LED flashes 0.5 sec on/off).



Bind HR80UK Radiator Controllers to the Boiler Module :-

- ① Move slider to **OFF** Position.
- ② Press and hold **Temp ▲, ▼** and **Prog 1** buttons together.



- ① Press the **Holiday Button** (H) to select Boiler Teach-in Mode.
- ② Press **Z1↔Z2** to send Binding Signal. With a successful teach-in the red LED will remain off (no longer flash).

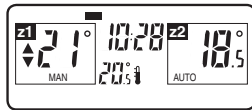
### 8.3 Built-in sensor configuration

The CM67z Room Unit features a built-in temperature sensor used for specific applications. Sensor operation is defined by parameter 6:tS in Installer mode:

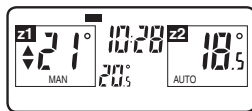
6:tS = 0 (Factory default. The built-in sensor is idle - not used for control nor measurement).

6:tS = 1 (The built-in sensor is used only for measuring the room temperature)

The symbol displayed next to the room temperature value indicates that the sensor is used for measurement only and the temperature in the room is controlled by the HR80UK Radiator Controller. Due to different locations of the CM67z Room Unit and HR80UK Radiator Controller there may be a difference between the setpoint displayed by the CM67z Room Unit and the measured temperature value.



6:tS = 2 (The built-in sensor is used to measure and control the room temperature in **zone 1** or when a zone valve is used in zone 1) The CM67z Room Unit must be located in **zone 1**.



To complete the configuration you must set the 17:SU parameter to decide which system components will use the temperature value from the CM67z Room Unit:

17:SU = 0 - HR80UK's only (factory default)

17:SU = 1 - HC60NG (zone valve controller) only, HR80UK's will use their own built-in sensor.

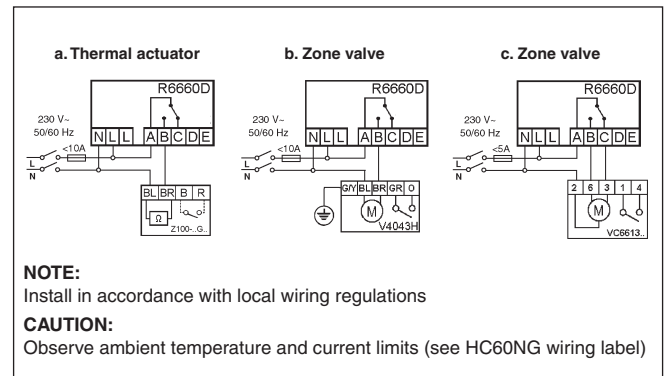
17:SU = 2 - both HR80UK's and HC60NG.

### 8.4 Adding a HC60NG Zone valve controller

The HC60NG relay module can also be configured for controlling a zone valve. This is restricted to **zone 1** only.

Before the binding procedure is started the following CM67z Room Unit parameters need to be set in order to control the **zone 1** temperatures via the HC60NG as zone valve controller:

Enter the installer mode of the CM67z Room Unit and set the installer parameters: 6:tS = 1, 9:Sn = 1, 17:SU = 1 or 2 (see Built-in sensor configuration).

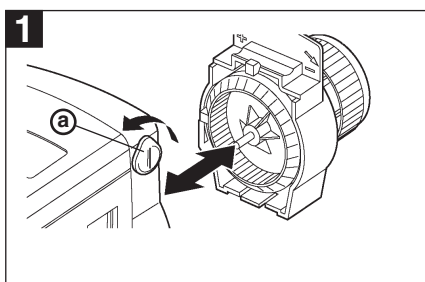


#### Activating HC60NG Relay Module binding procedure

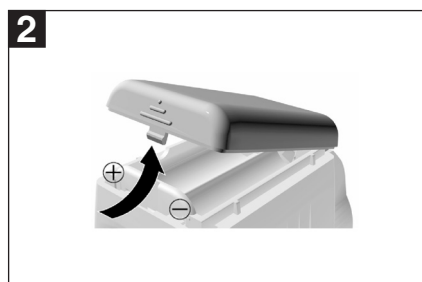
Press and hold the push button of the HC60NG Relay Module for 5 sec to enter the binding mode. The red LED will flash at 0.5 sec on/0.5 sec off.

Activate the binding procedure at the CM67z Room Unit as described in section 8.2 for zone 1. When binding information is received correctly the red LED of the zone valve controller will be switched off.

### 8.5 Resetting a Bound HR80UK



Turn the locking knob (a) and separate the operating unit and coupling module.



Lift battery cover and remove one of the batteries.







Press and hold the Binding Button while reinserting the battery.

Now follow steps 5 to 12 on page 8.


## Section 9: Trouble Shooting

### 9.1 Trouble Shooting Guide

Symptom (Fault Message)	Possible Cause	Remedy
<b>During Binding</b>		
After binding procedure the  symbol on HR80UK display is off.	Incorrect or incomplete binding procedure. Bad position of the CM67z during binding.	Repeat the binding procedure following the installation instructions. Repeat the binding procedure keeping approx. 1 m distance between CM67z and HR80UK.
After binding procedure the red LED of the HC60NG is on and the green one is flashing once every 3 sec.	Incorrect or incomplete binding procedure. Bad position of the CM67z during binding.	Repeat the binding procedure following the installation instructions. Repeat the binding procedure keeping approx. 1 m distance between CM67z and HC60NG.
After binding procedure the red LED of the HC60NG is on and green LED is flashing twice every 3 sec.	An attempt was made to bind more than 4 CM67z units to the HC60NG.	Press and hold the HC60NG push button for 15 sec to reset the memory. Repeat all the binding operations for this HC60NG making sure that no more than 4 CM67z units are bound.
After binding procedure the red LED of the HC60NG is on and green LED is flashing 3 times every 3 sec.	An attempt was made to cross bind the HC60NG with system timing message when no other binding was present.	Reset the HC60NG binding data by pressing the push button for 15 sec. Repeat the complete start up procedure as described in <b>Section 8.2: Changing the Configuration</b> .
After binding procedure the red LED of the HC60NG is on and green LED is flashing 4 times every 3 sec.	An attempt was made to bind two system timing messages to one HC60NG.	Make sure that only one CM67z is configured as system timing master. Reset the HC60NG binding data by pressing the push button for 15 sec. Repeat the complete start up procedure as described in <b>Section 8.2: Changing the Configuration</b> .
<b>During Testing</b>		
HR80UK does not receive the correct setpoint from the CM67z.	Bad position of the CM67z. No binding data in the HR80UK. HR80UK bound to the wrong zone.	Reposition the CM67z and repeat the test. Repeat the binding procedure. Repeat the binding procedure, making sure that the HR80UK is bound to the proper zone.
The boiler does not switch on when the HR80UK setpoint is set to ON.	Missing binding data in the HC60NG.	Repeat the binding procedure (CM67z with the HC60NG boiler controller or HC60NG zone valve controller).
HC60NG's green LED is not flashing every 5 sec during the system test	Bad position of the CM67z.	Reposition the CM67z and repeat the test.
<b>During Normal Operation</b>		
The red LED of the HC60NG is on.	The HC60NG receives no messages: RF signal is blocked (e.g due to bad position of the CM67z) or CM67z and HR80UK batteries are exhausted.	Return the CM67z room unit to the position where communications is reliable or replace discharged batteries.
The red LED of the HC60NG is flashing 2.5 sec on/2.5 sec off.	The HC60NG has not received signals from one (or more) transmitters in the system but still receives signals from other transmitters: RF signal is blocked (e.g due to bad position of the CM67z) or CM67z and HR80UK batteries are exhausted.	Return the CM67z room unit to the position where communications is reliable or replace discharged batteries.
The CM67z shows a different actual temperature than the HR80UK setpoint	Location of HR80UK and CM67z	Link the actual temperature measured by the CM67z with the HR80UK (only Zone 1 can be configured).
Blank display on CM67z or HR80UK.	No batteries. Wrong battery orientation. Improper battery compartment insertion (CM67z only). Exhausted batteries.	Check that the batteries are in the battery compartment and that the paper tab (CM67z only) has been pulled out. Check that the batteries have been installed in the correct orientation. Remove battery compartment and re-insert. Replace the batteries.
CM67z display shows a flashing battery symbol (  .	Batteries need replacing.	Replace the batteries.
CM67z displays a spanner symbol (  .	Fault in the CM67z room unit.	Remove and re-insert the battery compartment. If the spanner symbol (  ) does not clear itself in a few minutes call the Honeywell Technical Help-Desk, details on the back page.



## Section 9: Trouble Shooting (cont.)

### 9.1 Trouble Shooting Guide (cont.)

Symptom (Fault Message)	Possible Cause	Remedy
<b>During Normal Operation</b>		
CM67z display works but heating does not switch on: <ul style="list-style-type: none"> <li>The HC60NG LEDs are OFF</li> <li>The HC60NG green LED is ON</li> </ul>	No power to HC60NG.  Bad electrical connection to the boiler or faulty boiler.	Check the power to the HC60NG is on.  Check the boiler and HC60NG power supply as well as electrical connection between the boiler and HC60NG.
HC60NG red LED is constantly ON or flashing.	RF communication lost due to bad location of the CM67z room unit.  RF communication fault.	Hook the room unit back on the wall bracket or return the room unit on the table stand to the position where communication was reliable.  Call the Honeywell Technical Help-Desk, details on the back page. NOTE: <i>The boiler can be controlled manually when RF communication is lost. Press the HC60NG push button to switch the boiler on or off. When the green LED is on - the boiler is on.</i>
The HR80UK display is blank or shows <b>bAtt.</b>	HR80UK batteries exhausted.	Replace the HR80UK batteries following the guidelines in the HR80UK user instruction.
The  symbol on the HR80UK is not displayed.	RF communication lost due to bad location of the CM67z room unit.  RF communication fault.	Hook the room unit back on the wall bracket or return the room unit on the table stand to the position where communication was reliable.  Call the Honeywell Technical Help-Desk, details on the back page.

### 9.2 Manual adaption

Manual adaption can be used to solve various problems:

- if automatic adaption does not work.
- if the entire valve lift is to be utilized.
- if the radiator hardly gets warm at all.
- if the radiator does not become cold.
- if the  symbol is displayed (no adaption possible).
- if the  symbol is displayed (valve lift too short or motor cannot be moved).

### 9.3 Def (default setting) and Full operating modes

In order to change between the two operating modes, press the 'binding button' until the respective operating mode is shown on the display.




#### Def (default setting) operating mode

The HR 80 operates with the optimum valve lift that is required for room temperature control.

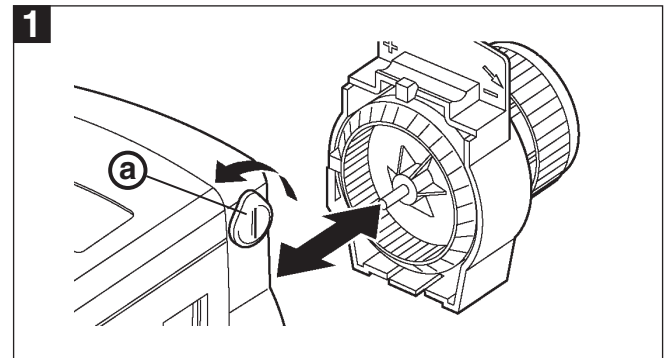
#### Full operating mode

If the complete valve lift is to be used or if the valve does not close completely, you have to set the HR 80 to the full operating mode.

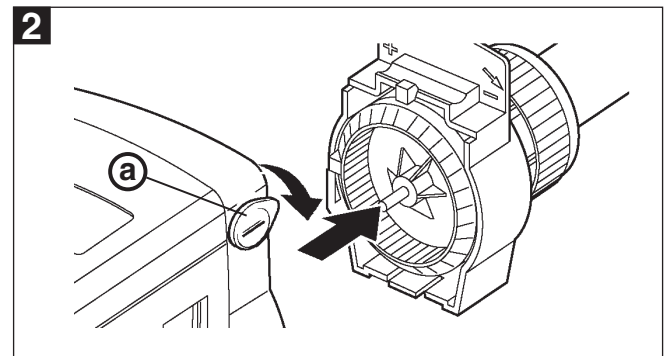
 The battery lifetime is reduced in the full operating mode.

### 9.4 Resetting the HR 80 to the factory settings

- Separate operating unit from the coupling module (Fig. **1**).
- Remove the batteries.
- Insert the batteries again while keeping the binding procedure button pressed.
- Attach the operating unit to the coupling module (Fig. **2**).



Turn the locking knob **a** and separate the operating unit and coupling module.



Attach the operating unit to the coupling module and turn the locking knob **a**



**Environmental Note:**

This product has been designed with your environment in mind!

Please respect this by disposing of all packaging and used parts in an environmentally friendly manner.

Do not dispose of batteries with household waste. They must be returned in accordance with the local statutory requirements.

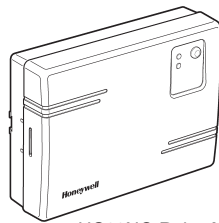
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UK patent application number 98062207.8

UK registered design numbers 2073334, 2073340 and 2073343.

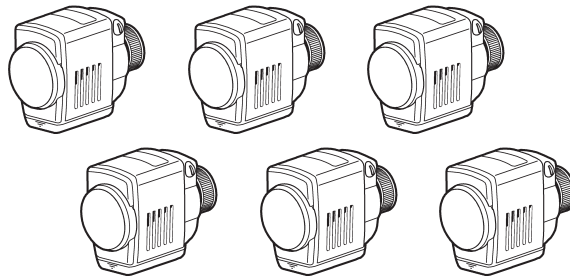
Hereby, Honeywell, declares that this CM67z is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC, 73/23EC and 89/336EC.



HC60NG Relay Module



CM67z Room Unit



HR80UK Radiator Controllers

**Useful References:**

<http://www.honeywelluk.com> - Honeywell UK website

<http://www.cm-zone.com/uk> - CM Zone website

Technical Help-Desk: 08457 678999

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**Honeywell**

Honeywell Control Systems Ltd.  
Honeywell House  
Arlington Business Park  
Bracknell  
Berkshire  
RG12 1EB

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