




## Honeywell CM907 7 day Programmable User Guide

[Home](#) » [Honeywell](#) » Honeywell CM907 7 day Programmable User Guide 

# Honeywell

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longer manufactured



## 7 day Programmable Room Thermostat

### Description

The Honeywell CM907 is a programmable room thermostat designed to control your heating system efficiently, providing comfortable temperatures when you are at home and energy savings when you are away. The following instructions explain how to program and use the CM907 to provide the most home comfort at the least cost.

### Features

**Ergonomic User Interface** features an '**OK-button**' making the CM907 very easy to use so you always stay in control.

**Dynamic Text Display** provides informative 'on-screen' feedback and operational assistance to the user.

**Extra Large LCD (Liquid Crystal Display) Screen with Backlight** provides added user-friendliness and clearer viewing – even in the dark.

**The 7-day heating program** lets you set the CM907 independently for each day of the week to match your lifestyle, whilst maximizing energy savings.

**6 independent temperature levels per day** lets you set any 6 temperatures you require (from 5 to 35°C) so you can enjoy economical comfort every day **Holiday button** saves energy by letting you reduce the temperature for 1 to 99 days while you are away from home, resuming normal operation on your return.

**The party button** lets you temporarily maintain (or adjust) the current temperature for 1 – 23 hours. Useful when you have guests or leave the house for a short period.

**Day Off button** copies Sunday's program into any other day of the week, so that you can make the CM907 follow this program if you have a day or days off.

**Automatic Summer/Winter Time Change** will adjust the clock automatically for 'Daylight Saving Time.

**Built-in Memory** holds the user program indefinitely so that it is never lost – even if you remove the batteries.

Outside Temperature Sensor (optional accessory) can be fitted to the CM907 to display the temperature outside your home.

**Remote Temperature Sensor** (optional accessory) can be fitted to the CM907 to control the room temperature in another location, concealing the CM907.

**The optimum Start** option is an advanced feature that ensures that the optimum temperature conditions are achieved at the required times.

### Contents

[1 Controls Layout](#)

[2 GETTING STARTED WITH THE CM907](#)

[3 PROGRAMMING THE CM907](#)

[3.1 During Normal Operation](#)

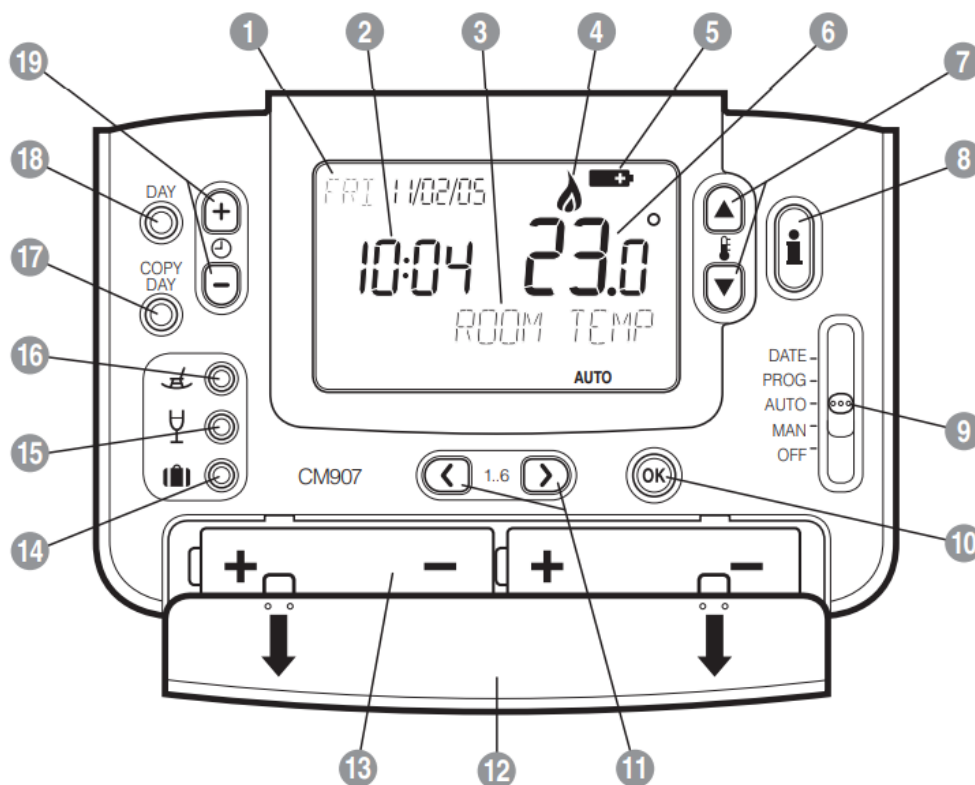
[3.2 Using the Special Functions](#)

[4 FAQ's & TROUBLESHOOTING](#)

[5 Documents / Resources](#)

[6 Related Posts](#)

### Controls Layout



- |                               |                             |
|-------------------------------|-----------------------------|
| 1. Day / Date Display         | 11. Program Buttons         |
| 2. Time Display               | 12. Battery Compartment Lid |
| 3. Dynamic Text Display       | 13. Battery Compartment     |
| 4. Heating On Indicator       | 14. Holiday Function Button |
| 5. Battery Low Indicator      | 15. Party Function Button   |
| 6. Temperature Display        | 16. Day Off Function Button |
| 7. Temperature Change Buttons | 17. Copy Day Button         |
| 8. Temperature Enquiry Button | 18. Day Select Button       |
| 9. Slider Switch              | 19. Time Change Buttons     |
| 10. Green OK Button           |                             |

## WHAT IS A PROGRAMMABLE ROOM THERMOSTAT?

The time on the programmer must be correct. Some types have to be adjusted in spring and autumn at the changes between Greenwich Mean Time and British Summer Time.

You may be able to temporarily adjust the heating program, for example, 'Override', 'Advance' or 'Boost'. These are explained in the manufacturer's instructions.

Programmable room thermostats need a free flow of air to sense the temperature, so they must not be covered by curtains or blocked by furniture. Nearby electric fires, televisions, wall or table lamps may prevent the thermostat from working properly.

Manufactured for and on behalf of the Environment and Combustion Controls Division of Honeywell Technologies Sàrl, Ecublens, Route du Bois 37, Switzerland by its Authorised Representative Honeywell International Inc.

## GETTING STARTED WITH THE CM907

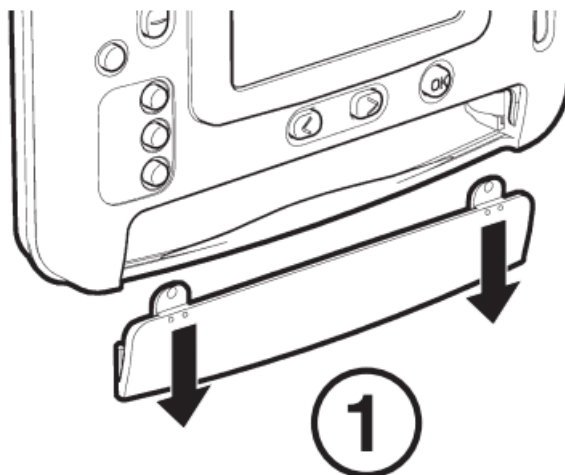
This section shows you how to setup and run the thermostat in 3 simple steps:

### STEP 1: Installing the Batteries

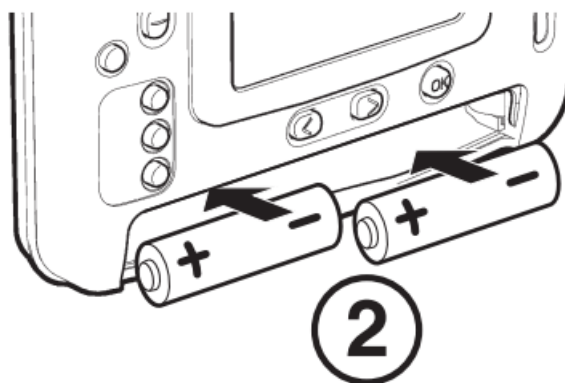
**Note:** Please follow the instructions in this section only if the thermostat screen is blank (no symbols or digits are displayed). If the screen displays some information move on to **STEP 2: Setting the Date and Time.**

**To install the Batteries:**

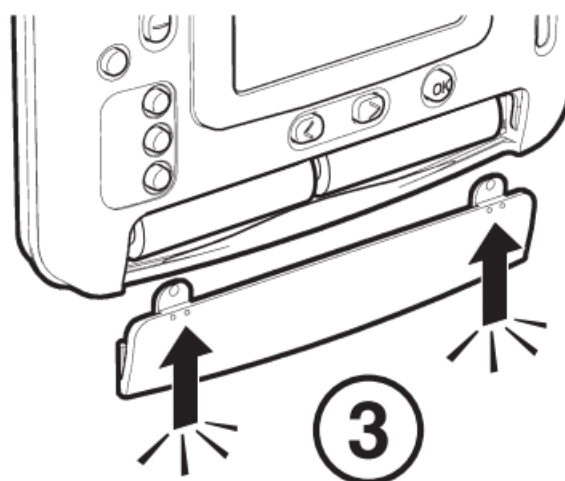
- a. Lift up the front cover of the thermostat to reveal the battery cover and product controls.
- b. Remove the battery cover by pressing down and sliding out.



- c. Insert the 2 x AA LR6 Alkaline Batteries supplied with the thermostat, ensuring the correct orientation (see '**Controls Layout**' on page 2).



- d. After a short pause the thermostat will display information on the screen and is now ready for use.
- e. Replace the battery cover by sliding it firmly back into the front of the thermostat.

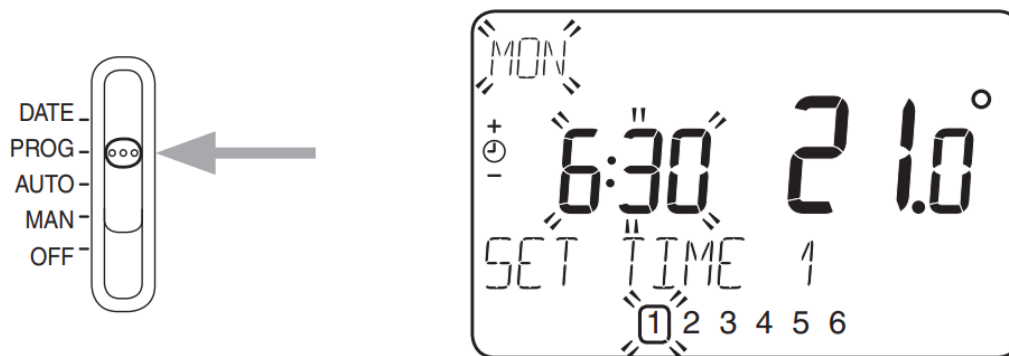


PLEASE RESPECT YOUR ENVIRONMENT!  
Take care to dispose of used batteries carefully.

**GETTING STARTED WITH THE CM907****STEP 2: Setting the Date and Time**

To set the Date and Time:

- a. Move the slider switch to the **DATE** position. 'SET THE DAY' will be displayed on the screen and the day digits will be flashing.



b. Use the or buttons to set the correct day. When either of these buttons is pressed 'DAY OK?' will be displayed. Once the correct day is reached, press the green button to confirm.

c. Now the month digits will start flashing and 'SET THE MONTH' will be displayed.

Change the month and then the year using the or buttons, pressing the green button to save any changes made. (If an invalid date has been entered you will be returned to the start of the date setting mode).

d. After setting a valid date, the time digits will begin flashing, and 'SET THE TIME' will be displayed.

e. Use the or buttons to set the correct time. Each press of the button will change the time by one minute and holding the button down will change the time slowly at first and get progressively quicker. Once the correct time is set, press the green button to confirm then 'CHANGES SAVED' will be displayed for a moment followed by 'DATE COMPLETE'.

**Note:** If the slider switch is moved at any time before 'DATE COMPLETE' is displayed the changes to the date and time will NOT be saved.

### STEP 3: Running the Built-in Heating Program

The thermostat is now ready for operation. Move the slider switch to the **AUTO** position and the built-in heating program will start running. The built-in heating program has been designed to provide normal comfort requirements, but if you want to customize the default settings (as shown on the next page) please see the next section '**PROGRAMMING THE CM907**'.

## PROGRAMMING THE CM907

### The Built-in Heating Program

The built-in heating program has 6 temperature level changes per day that can be set between 3.00 am and 2.50 am the following day – allowing you to maintain the evening temperature after midnight. Each temperature level can be set between 5°C and 35°C and adjusted in 0.5°C increments. The factory default program for heating is as follows:



#### Monday to Friday

0091	001-3	001-3	043	0013	001-3	OA niwadwai
00:83	0081-	00:171-	00:31-	0001-	00:9	awa
9	9	P	E	Z	I.	popad

Aepung 72 Aeparges

0091	043	0091	043	0081	0013	al nmedwai
08:33	0081-	00:14	00:31-	00:8	08:9	ami
9	9	P	E	Z	I.	popad

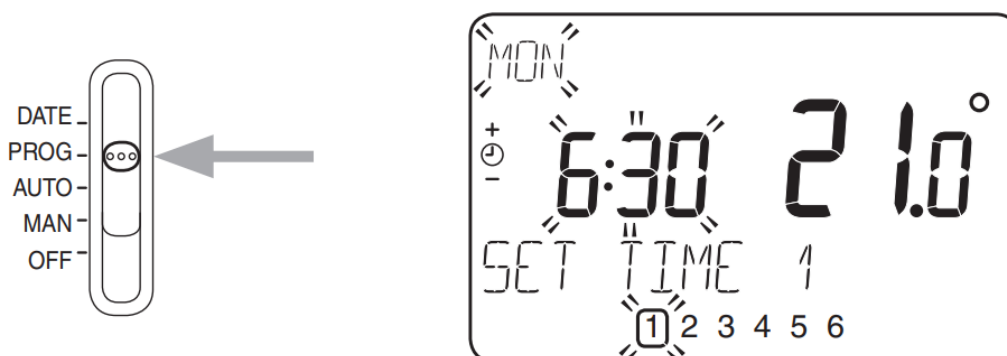
## Reviewing the Heating Program

To review or edit the heating program move the slider switch to the **PROG** position then use the  or  buttons to navigate between the 6 individual programming periods for Monday. Use the **DAY** button to step through each day of the week, so the complete 7 day heating program can be reviewed or edited.




## Modifying the Heating Program







### To change the heating program:

a. Set the slider switch to the **PROG** position, entering programming mode. 'SET TIME 1' will be displayed and the time settings for period 1 on Monday (MON) will be flashing. The active period is highlighted by a flashing square symbol around the numbers at the bottom of the screen and the selected day is flashing in the top left-hand corner of the screen.






## PROGRAMMING THE CM907


b. To adjust the period start time press the   or  buttons and 'TIME 1 OK?' will be displayed. Holding the button down will change the time quickly.

Note: If you are pressing the   or  buttons and the display flashes the next change period, it means the next change will be pushed forward if you continue to press   or  buttons).

c. Press the green button to confirm the setting. 'CHANGES SAVED' is displayed for 1.5 seconds then 'SET TEMP 1' will be shown.

Note: If the original time setting did not require adjustment press the green  button to move on to step 'd'.

d. The temperature setting for period 1 on Monday (MOM) will now be flashing. To adjust this press the   or  buttons and 'TEMP 1 OK?' will be displayed.

e. Press the  green button to confirm the setting. 'CHANGES SAVED' will be displayed for a moment followed by 'SET TIME 2'.

f. The next time and temperature period will now be active. Adjust this by repeating steps be above until all 6 periods are set for Monday or move the slider switch to the **AUTO** position to run the program asset, at any time.

g. After setting period 6 'CHANGES SAVED' will be displayed as before, followed by 'DAY COMPLETE'.


**You now have a choice of how to set the program for the next day:**

h. To **COPY** the Monday's program to another day:

Press the **COPY DAY** button to copy Monday's program into Tuesday. The display will go blank apart from ' **COPY**



**MON TO**', indicating the program for Monday will be copied to the selected target day, which is flashing in the top left corner of the display. To select a different target day press the **DAY** button to cycle through the days. Once the

required day is flashing accept it by pressing the green  button.

**Note:** Once the target day is confirmed it becomes the day that is copied if the **COPY DAY** button is pressed again.

**OR**

#### To program a different day:

Press the **DAY** button to select the next day, which is displayed in the top left corner of the display. The program for that day can then be adjusted by following steps **b – g** above. Programs for the remaining days can be set in the same way, using the **DAY** button to move to the next day.

i. To exit the programming mode move the slider switch to the desired operating mode – **AUTO, MAN or OFF**.



**Note:** To run the adjusted program select the **AUTO** mode.

**Note:** If the unit is left in programming mode for more than 10 minutes without the slider being moved or any buttons pressed, 'MOVE THE SLIDER' will be displayed. Press a button to finish programming the thermostat or move the slider to select the desired operating mode.




#### Disabling / Enabling Time Periods

The thermostat has 6 periods each day that can be programmed, but you may not need all of these switch points for your heating requirements. Therefore, any period from 2 to 6 can be disabled or enabled as follows:

##### To disable time periods:

Go to the desired period ( **2 to 6** ) by moving the slider switch to the **PROG** position, then using the ,  and **DAY** buttons to navigate, ensuring the correct period is highlighted with the flashing square symbol. Press and hold the button for at least 2 seconds and the display will indicate the period has been removed from the program.

To enable time periods:

Navigate to the disabled period by moving the slider switch to the **PROG** position, then using the  or  and **DAY** buttons. Once selected 'DISABLED' will be displayed. Press and hold the  button for at least 2 seconds and 'ENABLED' will be displayed for a moment before returning to normal programming mode.

#### Choosing the Operating Mode




The thermostat can operate in three different modes: Automatic, Manual or Off. To set the operating mode move the slider switch to the desired position. The screen indicates which mode is currently active by displaying **AUTO, MAN or OFF**.

- **AUTO (automatic) mode**

Automatic mode sets the thermostat to follow the temperature program (default or personalised). Operating the thermostat in this mode is the best way to maintain a high level of temperature comfort whilst maximising your energy savings.

- **MAN (manual) mode**

Manual mode sets the thermostat to act as a simple thermostat with a fixed setpoint throughout the day. The

setpoint can be adjusted from 5°C to 35°C by using the   or  buttons. The thermostat will continue to maintain this temperature until another operating mode or temperature is selected.


- **OFF mode**


Off mode sets the thermostat to control to a minimum temperature setting of 5°C (default) that acts as a frost protection measure for your home. This value can be adjusted by calling your installer.

#### During Normal Operation

- **Temperature Enquiry**




In **AUTO** and **MAN** operating modes the thermostat will display the current room temperature, which is indicated by the text 'ROOM TEMP' displayed on the screen. To review the programmed 'target' temperature (the temperature which the thermostat is




trying to maintain) press the  button. This 'target' temperature value will be displayed flashing and the text 'TARGET TEMP' will be shown for 5 seconds before returning to the current room temperature value.

In **OFF** operating mode the thermostat again displays the current room temperature, as above, but when the  button is pressed the text 'FROST TEMP' is displayed indicating the set value to protect your home. To modify this value please contact your installer.

#### • Temperature Override

During normal operation (**AUTO** mode) the programmed temperature can be adjusted manually by pressing

the   or  buttons. The 'target' temperature will be displayed and flash for 5 seconds – during this time

the   or  buttons can be used to modify the set value.

**Note:** This temperature override is cancelled at the next programmed temperature change.



### Using the Special Functions




#### • HOLIDAY Function

The holiday function allows you to set a constant temperature (default = 10°C) for a specified number of days (from 1 – 99 days). This lets you save energy and related costs when you are away from home, but resumes normal operation on the day of your return.

#### To set the Holiday function:

a. Move the slider switch to the **AUTO** or **MAN** position.




b. Press the  button to display the holiday days counter and temperature setting, along with the holiday indicator .


c. The day after the current day will be selected and 'RETURN DATE OK?' will be displayed. Press the   or  time buttons to set the holiday time (1 – 99 days).

**Note:** (The day and date will update according to the number of days selected).


d. Press the green  button to confirm the setting.

e. 'CHANGES SAVED' will be displayed for a moment followed by 'TEMP OK?'.

Press the   or  buttons to set the holiday temperature (5°C – 35°C)

f. Press the green  button to confirm the setting. 'HOLIDAY MODE' will now be displayed on the screen until the return date is reached or the holiday mode is cancelled.

The thermostat will now control to the new temperature for the set number of days that your home is vacant. At midnight the holiday counter will be reduced by one until the selected number of days have passed. The thermostat will then return to normal operation as set by the slider switch position (**AUTO** or **MAN** position). To

cancel the HOLIDAY setting or to exit the function at any time press the  button a second time or move the slider switch to a different position.





## • PARTY Function




The party function allows you to extend your heating program by a specified number of hours at a particular temperature before resuming with the normal temperature program. This is especially useful when you want to maintain or increase the temperature during a special occasion such as a party or when entertaining guests.

This function can also be used to reduce the temperature when you leave the house for a short period (shopping, visiting friends, etc) thus saving energy and saving you money.

### To set the Party function:




a. Move the slider switch to the **AUTO** or **MAN** position.


b. Press the  button to display the party hours counter and temperature setting, along with the party indicator .

c. The text 'PARTY DURATION' will now be displayed on the screen. Use the   or  buttons to set the number of hours (1 – 23 hours).


d. Press the green  button  to confirm the setting.

e. 'CHANGES SAVED' will be displayed for a moment followed by 'TEMP OK?'

Use the   or  buttons to set the desired temperature (5°C – 35°C).

f. Press the green  button to confirm the setting. 'PARTY MODE' will now be displayed on the screen until the timer reaches zero or the party mode is cancelled.

The unit will now control to the new temperature for the set number of hours then return to normal operation as set by the slider switch position (**AUTO** or **MAN** position). To cancel the **PARTY** setting or to exit the function at any

time press the  button a second time or move the slider switch to a different position.



## • DAY OFF FUNCTION




The day off function allows you to temporarily run Sunday's heating program for as many days as you desire.

This is useful when you have a day off during your normal week or will, unintentionally, be at home on a workday due to illness, etc.


### To set the Day Off function:

a. Move the slider switch to the **AUTO** position.

b. Press the  button to display the days off counter, 'DAYS OFF' will be displayed and the day off indicator  will appear.

c. Press the   or  buttons to set the number of days (1 – 99 days) you would like the alternative heating program to run for.

**Note:** (The day and date will update according to the number of days selected).

d. Press the  green button to confirm the setting.

e. On confirmation 'CHANGES SAVED' will be displayed on the screen for a moment and then will return to the normal display, with the days off indicator displayed.

The thermostat will now control to the alternative heating program for the set number of days before resuming with the normal heating program. To cancel the **DAY OFF** mode or to exit the function at any time press the



button a second time or move the slider switch to a different position.

## Adjusting the Time

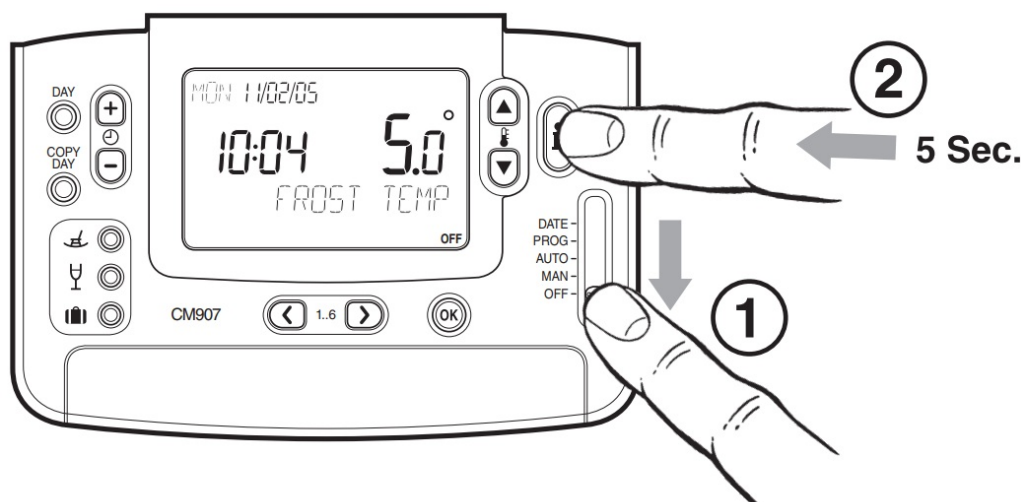
To adjust only the time during normal operation use the or buttons to adjust the time and press the green button again to confirm any changes.

## Changing the User Parameters

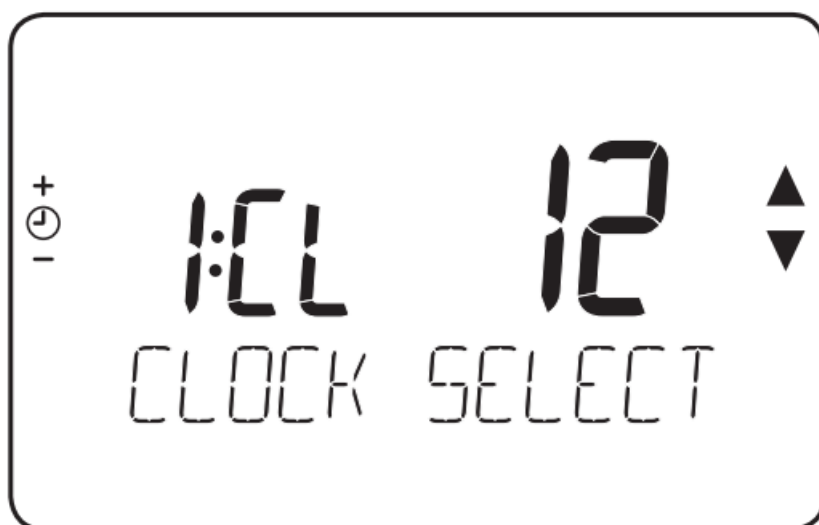
The user mode allows you to modify some basic settings of the thermostat to meet your personal preferences. You can change the time display format (24hr or AM/PM), reset the heating program to the built-in settings and disable or enable the summer/ winter time change feature.

**To change any of these user's parameters:**

- Move the slider switch to the **OFF** position, then press and hold the button for approximately 5 seconds.




- Once entered the following information will be shown on the screen:





- Now choose which one of the following parameters you would like to change:





### i) Change the time format

'CLOCK SELECT' should be displayed on the screen – press the or buttons to select the preferred







time format (12=AM/PM format, 24=24hr format) and the display will flash, indicating a change has been made. To confirm this change press the green  button.

## ii) Reset the built-in program to the factory default

Press the   time button once. The display will show 'RESET PROGRAM'.

Press the   or  buttons to select the preferred setting (0=user program, 1=factory program) and the display will flash, indicating a change has been made. To confirm this change press the green  button.

## iii) Enable or disable summer/winter time change

Press the   time button twice. The display will show 'AUTO CHANGE'. Press the   or  buttons to select the preferred setting (0=disabled/Off, 1=enabled/ On) and the display will flash, indicating a change has been made. To confirm this change press the green  button.

d. To exit the user mode move the slider switch to the **AUTO, MAN or OFF** position.




## FAQ's & TROUBLESHOOTING

### How do I change the batteries on the CM907 when they run out?

The thermostat constantly monitors the battery power level, which typically last for about 2 years before needing replaced. When the power is running low a flashing symbol will be displayed on the screen. To change the batteries follow the steps in the above section (**'STEP 1: Installing the Batteries' on page 3**), replacing the used batteries with new ones in step c.

**Note:** While changing the batteries your program settings will be stored but you may need to adjust the time and date settings to be correct.




### How do I set one temperature for the whole day?

To operate as a simple thermostat with one temperature for a period of time, move the slider switch to the **MAN** position. Adjust the manual temperature by pressing the   or  buttons. This can be set anywhere from 5°C to 35°C in 0.5°C steps. The thermostat will continue to maintain this temperature until another operating mode is selected or the temperature is adjusted.

### What is Optimum Start?

Optimum Start is a program which ensures that the optimum temperature conditions are achieved at the required times. This is an Energy Efficiency feature that adjusts the start time of your heating system depending upon how cold it is. For example, on cold days your heating system will be started earlier to ensure that your home is warm when you get up (at the target temperature) and on warmer days the heating system will be started later to save energy. So, if the Optimum Start Feature is used, then the time / temperature settings which are entered into the thermostat should be set to when you want to be warm by and not when you want the heating system to start.

### Can I use my CM907 to control my air-conditioning system?

Yes, if your system has been set up correctly you can use your thermostat to control the cooling. To switch the thermostat between heating and cooling modes press the   or  buttons together for 5 seconds in any of the product operating modes (AUTO, MAN or OFF). The text 'COOLING' will be displayed for a moment on the screen to indicate the cooling operation is now active. The factory default program for cooling is specified in the table below, but this can be modified in the same way as the default heating program:

## Monday to Friday

00173	00173	00i7-3	00173	00173	Oct?	alniwadwai
00:83	0081-	00:171-	00:31-	0001-	00:8	mu.
9	2	P	E	Z	L	poped

## Aepuns Ig AepinleS

00173	00173	0093	00173	0083	00173	alniwadwai
08:33	0081-	00:171-	00:31-	00:8	08:9	ami
9	5	P	E	Z	L	popad

### If something happens to my heating system how can I check that the thermostat is working?

Refer to the Troubleshooting Guide on page 17. If you still need assistance after this call your installer. The thermostat should only be opened or removed by a qualified professional to prevent possible injury from electric shock and/or damage to the product.

### What other accessories can I buy that work with the CM907?





#### 1. Outside Temperature Sensor Accessory

The Outside Temperature Sensor accessory can be fitted to your thermostat to display the outside temperature. By pressing the button twice, the thermostat displays the external temperature.

#### 2. Remote Temperature Sensor Accessory

The Remote Temperature Sensor accessory can be fitted to your thermostat to control the temperature of another room where it is inconvenient to locate the thermostat e.g. commercial premises where the public may tamper with the buttons.

**Note:** For more information on the above accessories please contact your installer.

Symptom	Possible Cause	Remedy
CM907 has a blank LCD screen	Batteries not installed	Check to see if there are batteries in the battery compartment and the paper tab has been removed
	Incorrect battery orientation	Check that the batteries have been installed in the correct orientation
	Exhausted batteries	Replace with new batteries
CM907 shows a flashing  symbol on the LCD screen	Batteries are exhausted and need replacing	Replace with new batteries
The CM907's LCD screen works but the heating does not switch on	No power to heating system	Check that there is power to the heating system.
	Program does not call for heat	Move the slider switch to <b>MAN</b> and press i ID or t o increase the temperature a few degrees above the current room temperature. The heating should come on after a few seconds.
	CM907 not connected to boiler properly	Call installer to check electrical connection between the CM907 and the boiler.
Heating switches ON or OFF too slowly or quickly	CM907 not set correctly for your system	Call Installer
Temperature swings between too hot and too cold.	CM907 not set correctly for your system	Call Installer
CM907 shows a flashing  symbol on the LCD screen	Fault in CM907	Remove and re-insert the batteries in the CM907.   If the  symbol does not clear itself in a few minutes call the installer

## WHAT IS A PROGRAMMABLE ROOM THERMOSTAT?

### ...an explanation for householders

A programmable room thermostat is both a programmer and a room thermostat. A programmer allows you to set 'On' and 'Off' time periods to suit your own lifestyle.

A room thermostat works by sensing the air temperature, switching on the heating when the air temperature falls below the thermostat setting, and switching it off once this set temperature has been reached.

So, a programmable room thermostat lets you choose what times you want the heating to be on, and what temperature it should reach while it is on. It will allow you to select different temperatures in your home at different times of the day (and days of the week) to meet your particular needs.

Turning a programmable room thermostat to a higher setting will not make the room heat up any faster. How quickly the room heats up depends on the design of the heating system, for example, the size of boiler and radiators.

Neither does the setting affect how quickly the room cools down. Turning a programmable room thermostat to a lower setting will result in the room being controlled at a lower temperature, and saves energy.

The way to set and use your programmable room thermostat is to find the lowest temperature settings that you are comfortable with at the different times you have chosen, and then leave it alone to do its job. The best way to do this is to set low temperatures first, say 18°C, and then turn them up by one degree each day until you are comfortable with the temperatures. You won't have to adjust the thermostat further. Any adjustments above these settings will waste energy and cost you more money.

If your heating system is a boiler with radiators, there will usually be only one programmable room thermostat to


control the whole house. But you can have different temperatures in individual rooms by installing thermostatic radiator valves (TRVs) on individual radiators. If you don't have TRVs, you should choose a temperature that is reasonable for the whole house. If you do have TRVs, you can choose a slightly higher setting to make sure that even the coldest room is comfortable, then prevent any overheating in other rooms by adjusting the TRVs.



Honeywell Control Systems Ltd.  
Arlington Business Park,  
Bracknell  
Berkshire  
RG12 1EB  
Technical Help Desk: 08457 678999  
[www.honeywelluk.com](http://www.honeywelluk.com)

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## Documents / Resources

	<a href="#">Honeywell CM907 7 day Programmable</a> [pdf] User Guide CM907, 7 day Programmable
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