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PART NUMBER 42010942-003 R1 BCRO AND DATE DR001129 10/05 ARTWORK DESCRIPTION CM900 INSTALLATION GUIDE (UK - English) DRAWN MKTING DATE MF BM 10/05

SIZE AND FOLDING

	A3	A4	A5	A6	A7	OTHER
SIZE WHEN PRINTED	X					
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MATERIAL

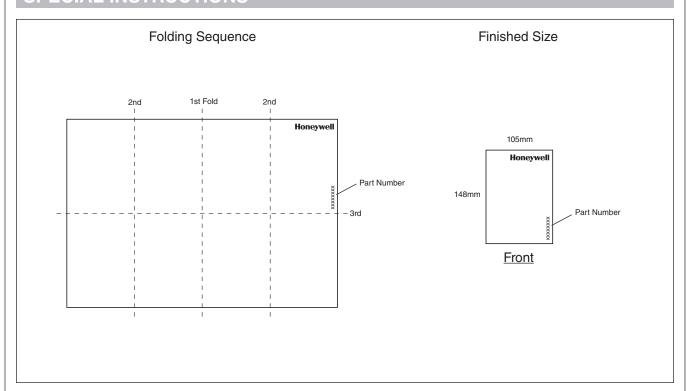
BOND	X	WEIGHT	70g	80g	100g	115g	150g	OTHER
SILK			X					

PRINTING

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SEE FOLLOWING PAGES FOR COLOUR DESIGNATION. ALL PRINTING MUST BE CLEAR, FREE OF SMUDGES AND MULTI COLOUR PRINT PROPERLY REGISTERED

SPECIAL INSTRUCTIONS



Installer Parameters Table:

Parameter	Parameter No.	Factory De	efault Setting	Optional Setting				
Category 1 Parameters – Programmable Thermostat Settings								
		Display	Description	Display	Description			
AM-PM / 24hr Display	1:CL	12	12 hr – AM/PM clock display format	24	24 hr clock display format			
Reset Time/ Temp Program	2:rP	1	Time / Temperature profile set to factory default.	0	Factory Time / Temperature profile has been modified			
			Changes to 0 when one of the time/temp profiles are changed.		To restore the factory profile set to 1			
Auto Summer/Winter Time Change	3:tC	1	Auto Summer/Winter Time Change Enabled	0	Auto Summer/Winter Time Change Disabled			
LCD Backlighting	5:bL	1	Backlighting Enabled	0	Backlighting Disabled			
Upper Temp Limit	6:uL	35	35°C Upper Temp. Limit	21 to 34	21°C to 34°C adjustment in 1°C steps			
Lower Temp Limit	7:LL	5	5°C Lower Temp. Limit	5 to 21	5°C to 21°C adjustment in 1°C steps			
Optimisation	8:OP	0	Optimisation Disabled	1	Optimisation Enabled			
Telephone Override	9:tS	0	Telephone Override Disabled	1	Telephone Override Enabled			
Second Sensor	10:SS	0	Second Sensor Disabled	1 or 2	Second Sensor Enabled: 1 = Outside Sensor 2 = Remote Room Sensor			
Temperature Offset	12:tO	0.0	No temperature offset	-3 to +3	-3°C to +3°C adjustment in 0.1°C steps			
Proportional Band Width	13:Pb	1.5	Proportional band of 1.5 degree	1.6 to 3.0	1.6°C to 3.0°C adjustment in 0.1°C steps			
Reset Parameters to Factory Defaults	19:FS	1	All settings at factory defaults	0	Settings are as modified above			
Delauits			Changes to 0 when one of the parameter is changed		To restore the factory parameters set to 1			
Category 2 Parameters – Sys	stem Settings (pre	ss PROGRAI	M → to access this category)					
		Display	Description	Display	Description			
Minimum boiler ON time	1:Ot	1	1 minute minimum ON time	2 to 5	Selection of 2, 3, 4 or 5 minutes minimum ON time			
Cycle Rate	2:Cr	6	6 cycles per hour (cph)	3, 9 or 12	Selection of 3, 9 or 12 cph			
Electric Heat	3:EH	0	Resistive Loads <3 A	1	Resistive loads 3 to 8 A			
Heat/Cool Change	4:HC	0	Disabled	1	Enabled			
Pump Exercise	5:PE	0	Pump exercise disabled	bled 1 Pump exercise enabled				

Notes

Remember to always press the green button to confirm that you want to store your new Installer Set-Up setting. To exit the **Installer Mode** move the slider switch to the **AUTO** or **MAN** positions.

System Commissioning

To enter the diagnostic mode move the slider switch to the **OFF** position then press and hold the **(a)** button for 5 sec. The unit will enter the user settings mode. Next press and hold the **(a)** and **(b)** buttons together. The unit will hold the relay on for 5 minutes and the following information can be viewed on the display by pressing the **(a)** or **(b)** buttons. : model ID, date code (WW/YY) and checksum.

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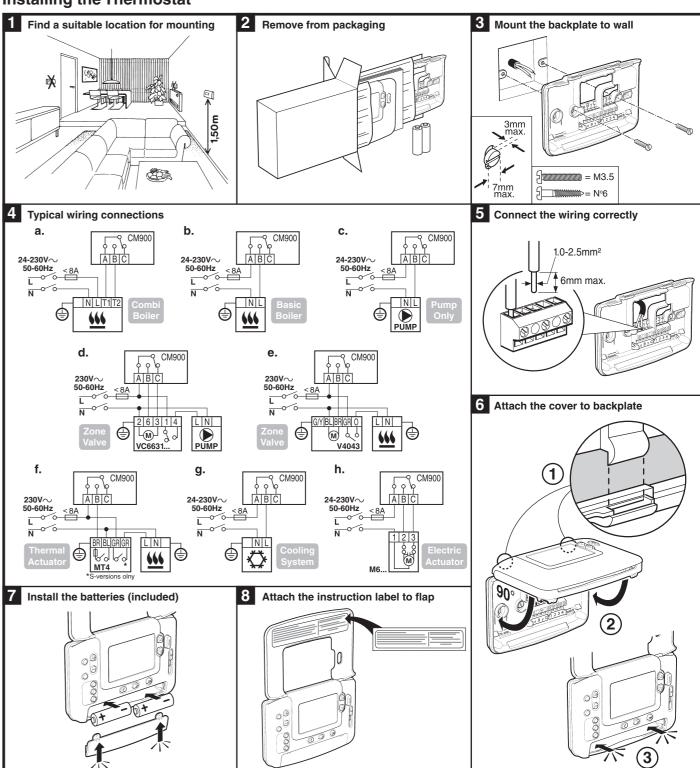
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CM900 Installation Guide

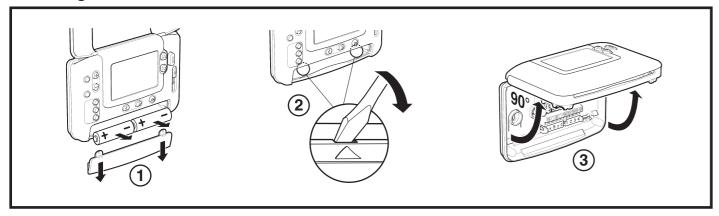
Programmable Room Thermostat

The Honeywell CM900 (CM907 or CM901) is a modern programmable room thermostat based on Honeywell's proven programming philosophy. To further improve the ease of use, this product includes a very large LCD display with backlighting and a Dynamic Text Display to assist customers during daily use.

Installing the Thermostat



Removing the Cover



Setting-up the Thermostat

Please follow the illustrations detailed on page 1 in sequence to install the thermostat correctly, then refer to the steps below: **NOTE:** For gas boiler applications, the factory system settings will not need to be changed (for other applications see section 'Using the Thermostat for Specific Applications' below).

To set-up the thermostat:

- 1. Remove the battery cover and insert the batteries supplied with the unit (2 x AA LR6 Alkaline Batteries).
- 2. Move the slider switch to the **DATE** position.
- 3. Use the 🕘 🗭 or 🦲 buttons to set the correct day / month / year, pressing the green 👀 button to confirm.
- 4. Use the ① ① or Duttons to set the correct time, pressing the green (ix) button to confirm.
- 5. Move the slider switch to the required operating mode (AUTO, MAN or OFF) to begin operating at the default factory settings, or move to PROG and modify the built-in heating program accordingly (see User Guide).

You can now use the 'User Guide' supplied with the thermostat to demonstrate how it works to the home owner.

Using the Thermostat for Specific Applications

The CM900 thermostat is a versatile controller that can be used to control many different applications. For most typical applications, like 'wall-hung gas fired combination boiler control' or 'zone valve control', no adjustments from the factory settings are required.

For other applications, like controlling an oil burner, the best system performance can be achieved by modifying selected parameters of the thermostat in installer's mode. The table below lists the most common settings used for a specific application:

Specific Application:		Setting:		What to change:		
		Cycle/Hour	Minimum ON Time	Note: All parameters listed below belong to category 2 - System Parameters (see Installer Parameters Table)		
HEATING	Gas Boiler (<30kW)	6	1	No changes required		
	Oil Boiler	3	4	Set 1:Ot parameter to 4 Set 2:Cr parameter to 3		
	Thermal Actuator	12	1	Set 2:Cr parameter to 12		
	Zone Valve	6	1	No changes required		
	Electric Heating (resistive load <8A)	12	1	Set 2:Cr parameter to 12 Set 3:EH parameter to 1		
AIR-CONDITIONING				To enable switching between cooling and heating modes adjust parameter 4:HC in category 2 (0 = disabled, 1 = enabled). Now you can switch between these modes by pressing the (a) and (b) buttons together for 5 seconds in any of the product operating modes (AUTO, MAN or OFF). Explain to the end user how to switch between these modes using the (a) and (b) buttons and ensure the cooling program is modified as required.		
	Heat Pump / Air- Conditioner	3	4	Set 1:Ot parameter to 4 Set 2:Cr parameter to 3		
	Fan Coil	6	1	No changes required		

Using the Special Features of the Thermostat

Special Feature:	Description:	To Enable/Disable This Feature:
Optimisation (Variable Start Time)	The thermostat will adjust the start time in the morning/afternoon so the desired temperature is reached by the start of the program period. The system will restrict the start time to a max of 2 hours.	To enable: Set parameter 8:OP (category 1) to 1.
Heating or Cooling Operation	This product can be used for heating or cooling applications. If you select cooling mode the control algorithm and factory default program will be modified. You can independently modify the heating and cooling profile.	To enable: Set parameter 4:HC (category 2) to 1.
Summer/Winter Auto time change	This feature moves time automatically on the last Sunday of March and the last Sunday of October. The feature is factory enabled.	To enable: Set parameter 3:tC (category 1) to 1.
Temperature Offset	If the thermostat is located in a particularly hot/cold location and cannot be moved because of wiring restrictions then the measured/displayed temperature can be adjusted by +/- 3°C. This is useful if the homeowner wants the reading to match another appliance temperature display.	Set parameter 12:tO (category 1) to the required offset value.
Upper/Lower Temperature Limit	The normal upper temperature limit of 35°C can be reduced to 21°C to save the homeowner energy. The normal lower limit of 5°C can be increased up to 21°C to protect inhabitants from cold.	Set parameter 6:uL (category 1) to the desired upper limit.
		Set parameter 7:LL (category 1) to the desired lower limit.

Optional Accessories

Accessory:	Description:	To Enable/Disable This Feature:
Outside Temperature Sensor	An Outside Temperature Sensor can be fitted to the thermostat, allowing the homeowner to display the outside temperature on the display by pressing the l button.	Fit the sensor (instructions are included in the sensor package). Set 10:SS parameter (category 1) to 1.
Remote Temperature Sensor	A Remote Temperature Sensor can be fitted to the thermostat, allowing it to control the temperature from another room e.g. in commercial premises where the public may adjust keys.	Fit the sensor (instructions included in the sensor package) Set 10:SS parameter (category 1) to 2.

Entering the Installer Mode

