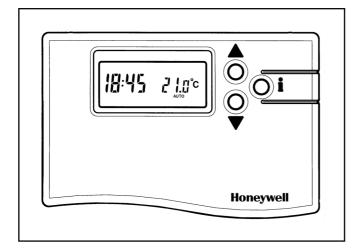
CM67

PRODUCT SPECIFICATION SHEET



The *CM67* Chronotherm is designed to provide automatic time and temperature control of heating or cooling systems in villas and apartments. It can be used as part of a system in conjunction with combi boilers, oil- burners and gas fired boilers, circulation pumps, thermal actuators, zone valves and electric heat systems (<8A).

The *CM67* is designed with the installer in mind and includes a moulded backplate with trunking guides and wiring breakouts to make installation quick and easy.

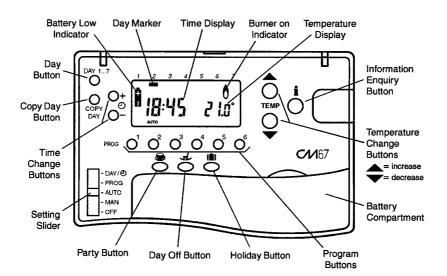
The *CM67* display, buttons and slider layout are based on the same simple programming philosophy used on the acclaimed CM51 product. The unit is ideal for consumers who want reliable precise temperature control from a simple to program easy to use product.

FEATURES

- Attractive slim styling makes it ideal for location in any home.
- 7-day program
- 6 daily independent time and temperature level changes let you set 6 time and temperatures pairs to suit your life style.
- Temporary programmed temperature override to temporarily override the programmed temperature till the next switch point.
- Party button to temporarily maintain (or adjust) the current temperature for 1-23 hours.
- Day Off button copies Sunday's program into tomorrow or today to allow a rest day program without having to re-program the CM67.
- III Holiday button provides energy savings by reducing the temperature for 1 to 99 days when people are on holiday, returning to normal operation (AUTO or MANUAL) on the day of return.
- EEPROM memory holds the user program indefinitely.
- Telephone Interface (optional) can be fitted to the *CM67* to allow switching between programmed mode (slider position) and fixed set-point of 21 °C.
- 24...230V 8A resistive, 3A inductive SPDT relay provides compatibility with most domestic central heating systems without stocking many different models.

- Surface or wallbox mounting options, trunking guides and wiring breakouts simplify installation.
- OFF position on the slider has an integral fixed frost protection setting at minimum of 5°C (installer adjustable) so that pipes in the house will never freeze in winter.
- Installer Set-Up Mode allows extra functions to be set at the discretion of the installer to match the consumers applications:
 - Optimisation
 - Pump Exercise
 - Upper / Lower Setpoint Limit Adjust
 - Temperature offset
 - Minimum ON time
 - Cycle rate
 - Heat / Cool Operation
 - Proportional Band Width
- CM67 has provision for add-on modules to allow the installer to sell additional features during or after the first CM67 installation, giving the installer an additional sale.
- Outside Temperature Sensor accessory (optional) can be fitted to the CM67 to display the external temperature.
- Remote Temperature Sensor (optional) can be fitted to the CM67 to control the temperature from another room.

CM67 CONTROLS/DISPLAY LAYOUT



SPECIFICATIONS

Batteries	:	2 x 1.5 V IEC LR6 (AA) Alkaline cells	Temperature	:	±0.5 K (nominal) @ 20°C, 50% load
Battery life	:	4 years typical (Duracell MN1500) for	control accuracy		3 K Δ/hour
•		applications with loads <3A	Room	:	From 0°C to 40°C
	: 3 years typical for electric heat applications (>3A, <8A) Temperature display range				
Battery	:	Program retained in EEPROM	Control form	:	P + I (Proportional + Integral)
replacement			Minimum ON	:	10% of cycle time (min one minute),
Switch type	:	SPDT (potential free)	time		adjustable to 2 to 5 min (see installer set up)
Electrical rating	C	230 V~, 5060 Hz, 0.5 A to 8 A resistive 0.5 A to 3 A inductive (0.6 pf) 24 V~, 5060 Hz, 0.5 A to 8 A resistive	Cycle rate	:	3, 6(default), 9, 12. Selectable through the installer set up mode.
		0.5 A to 3 A inductive (0.6 pf)	Wiring	:	Terminal block capable of accepting wires up to 2.5 mm ²
Time display	:	24 hour or 12 hour AM/PM format	Wire access		Mains wiring - rear, left or below
		T : 11 1 1 1 1 1 1 1 1 1		•	

Time keeping

accuracy

Program

resolution

: Typically better than 10 minutes per year

7-day with 6 daily time and temperature level changes

Time setting

Time of day - 1 minute Program - 10 minute steps

Sensing element: 100K (@ 25 °C) NTC thermistor

Program: 5 to 30°C in 0.5 °C steps Temperature

: 5 °C or equal to lower limit setting range

(5 °C to 16 °C). Frost protection does not

work in cooling mode

Low voltage wiring - rear, left or below

130 x 87R(82L) x 29 mm (w x h x d) **Dimensions**

130 x 172 x 29 mm (w x h x d) (flap

Operating temperature range 0 to 40°C Environmental

Shipping and storage temperature range

-20 to 55°C

Humidity range 0 to 90% rh, non-

condensing

: Designed to meet European EN Approvals

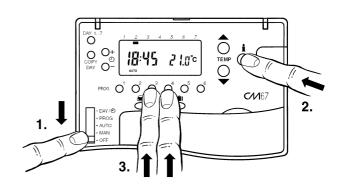
approvals EN60730-1(1995), EN55014-1

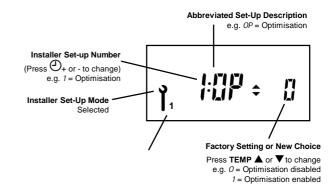
(1997), EN55014-2 (1996)

INSTALLER SET-UP

To enter the installer set-up mode:

- a) Set the program slider to OFF.
- b) Press and hold Info i button and press PROG 3,4 together.
- c) The unit will display the first parameter of the installer parameter group category 1 (from n.1 to n.5).
- d) Press TEMP ▲ or ▼to change factory setting. The display will flash indicating that a change has been made.
- e) Press **INFO i** button to confirm the change. The display will stop flashing.
- f) Press 🖰 + or to go to next parameter.
- g) Press **PROG 2** button to go to Installer parameter group category 2 (from parameter n.6 to parameter n.16).
- To exit installer mode move the slider in MAN or AUTO position.





In Installer set up we can:

- □ Set-up specific applications
- □ Enable special features
- ☐ Establish support for Optional Accessories

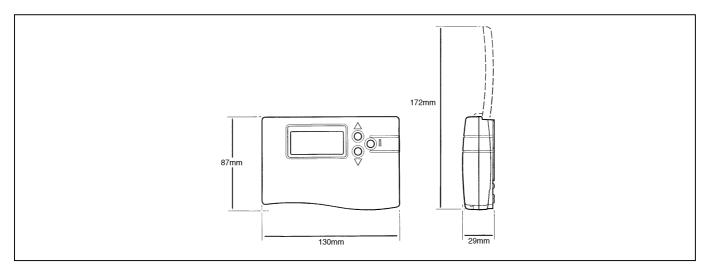
Specific Applications		Setting		What do you need to change ?			
		Cycle/ Hour	Minimum ON time (in minutes)	Note: a. To change Cycle/Hour, please go to parameter n. 9 in the installer set-up mode. b. To change Minimum ON Time, please go to parameter n. 2 in the installer set-up mode.			
Heating	Gas Boilers (<30KW)	6	1	No action required			
	Oil Boiler	3	4	 Set Minimum ON Time to 4 minutes. Set Cycle/Hour to 3. 			
	Thermal Actuator	12	1	Set Cycle/Hour to 12.			
	Zone valve	6	1	No action required.			
	Electric heating (for applications <8A)	12	1	 Configure the Chronotherm for electric heating (set parameter n.7 in the installer set up mode to 1). Set Cycle/Hour to 12. 			
Air conditioning				1. For cooling application only, set the Chronotherm to cooling (set parameter n.6 in the installer set-up mode to 0) 2. For heat/ cool application, set the Chronotherm accordingly to required mode of operation winter = heating summer = cooling by changing parameter n.6 in the installer set-up mode. Explain to the end-user how to implement the change-over.			
	Heat Pump/ Air conditioner	3	4	 Set Minimum ON Time to 4 minutes . Set Cycle/Hour to 3. 			

Special Features	Description	What to do if we wish this feature	
Optimisation (Variable Start Time) Adaptive Intelligence recovery TM	The Chronotherm will adjust the start time in the morning/ afternoon so the desired temperature is reached by the start of the program period e.g. Time 7:00, Temp 21 °C. The Chronotherm will monitor the accuracy of the start up and use this information to modify the calculation for the following day by changing the ramp rate (initial 3 K/hr) .The system will restrict the start time to a max of 3 hours. Optimisation will not work in cooling mode.	Set parameter. 1 in the installer set- up mode to 1.	
AM-PM/ 24hr Display	Change display format (default 24hr)	Set parameter n.3 in the installer set - up mode to 1.	
Pump exercise	When enabled the Pump Exercise will switch the relay on for 1 minute at 12:00 if the relay has not been switched on since 12:00 the previous day. While in Holiday mode the Pump Exercise feature, if enabled, will operate.	Set parameter n.8 in the installer set - up mode to 1.	
Upper Temperature Limit	The normal upper temperature limit of 30 °C can be reduced down to 21 °C to save energy. Useful for small commercial premises.	Set parameter n.11 in the installer set -up mode to the desired limit.	
Lower Temperature Limit	The normal lower temperature limit of 5 °C can be increased up to 16 °C to protect the inhabitants from cold. Useful if the inhabitants include the elderly, children or disabled.	Set parameter n.12 in the installer set -up mode to the desired limit.	
Temperature Offset	If the Chronotherm is located in a hot/cold location and cannot be moved because of wiring then the measured/displayed temperature can be adjusted by +/- 3 °C. Useful if the homeowner wants the reading to match another appliance temperature display.	Set parameter n.13 in the installer set -up mode to the desired offset value.	
Proportional Band Width	Can be adjusted up to 3 °C (default is 1.5 °C) to provide better temperature control (less overshoot). Useful for: a. Well insulated homes with over-sized heating systems b. Air systems with fast response	Set parameter n.15 in the installer set -up mode to the desired value.	

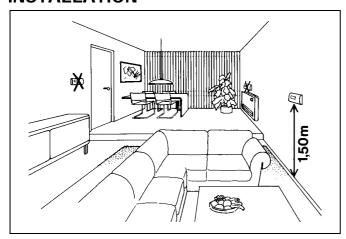
Optional Accessories	Description	What to do if we wish this feature
Outside Temperature Sensor	An Outside Temperature Sensor can be fitted to your <i>CM67</i> to allow the homeowner to display the outside temperate on the Chronotherm display by using the INFO i button. <i>CM67</i> will read the outside temperature every 10 minutes. Outside temperature display range is from -30 °C to +45 °C. The sensor can be connected up to 50 meters from the unit.	Fit the sensor (instructions included in the sensor package) Set parameter n. 10 in the installer set-up mode to 1
Remote Temperature Sensor	A Remote Temperature Sensor can be fitted to your <i>CM67</i> to allow the Chronotherm to control temperature from another room or space where it is inconvenient to locate the <i>CM67</i> . It will read the remote sensor every 1 minute. The sensor can be connected up to 50 meters from the unit. Useful for commercial premises where the public may tamper with the product.	 Fit the sensor (instructions included in the sensor package) Set parameter n. 10 in the installer set-up mode to 2
Automatic Time Setting (ATS) Module	The ATS module picks up a time signal daily from a European transmitter, so you never need to set or adjust the time.	Fit the ATS module Set parameter n. 4 in the installer set-up mode to 1

Parameter	Installer Set- Up Number / Abbreviation (Press + or - key to change)	Factory Setting		Optional Setting	Installer Set- Up Category (Press keys PROG 1 or 2 to select) 1 2	
		Display	Description	Display/Setting	Description	
Optimisation	1:0P	0	Optimisation disabled	1	Optimisation enabled	1
Minimum ON Time	2:0t	1	1 minute minimum ON time	2 to 5	2 - 2 minutes 3 - 3 minutes 4 - 4 minutes 5 - 5 minutes	1
AM-PM / 24hr Display	3:Cl	0	24 hr clock display	1	12 hr AM / PM clock display	1
Accessory Module Type	4:At	0	No accessory module plugged in	1, 2	1 - Auto Time Setting Module 2 - Weatherstation Module	1
RESET Time / Temperature Program	5:rP	1	Time / Temperature profile set to factory default Changes to 0 when one of the time/temp profiles are changed	0	Time / Temperature are as programmed To restore the factory profile set to 1	1
You must now press the F	PROG 2 key to ento	er the next se	ction			
Heat / Cool Operation	6:HC	1	Heating Operation	0	Cooling Operation	2
Electric Heat	7:Eh	0	Applications < 3A	1	Applications 3 - 8A	2
Pump Exercise	8:PE	0	Pump Exercise Disabled	1	Pump Exercise Enabled	2
Cycle Rate	9:Cr	6	6 cycles per hour (cph) for gas boilers, zone valves and fan- coil	3, 9, 12	3 - 3 cph 9 - 9cph 12 - 12 cph	2
Second Temperature Sensor	10:SS	0	No sensor fitted	1, 2	1 - Outside Temperature Sensor fitted 2 - Remote Temp. Sensor fitted	2
Upper Temperature Limit	11:UL	30	30°C Upper Temp. Limit	21 to 29	21°C to 29°C adjustment in 1°C steps	2
Lower Temperature Limit	12:LL	5	5°C Lower Temp. Limit	6 to 16	6°C to 16°C adjustment in 1°C steps	2
Temperature Offset	13:tO	0	No offset	-3 to +3	-3°C to +3°C adjustment in 0.1°C steps	2
Pressure Offset (needed for Weatherstation accessory only)	14:PO	0	No offset	-99 to +3	-99 mbar to +99 mbar adjustment in 1 mbar steps	2
Proportional Band Width	15:Pb	1.5	1.5°C Proportional Band	1.6 to 3.0	1.6°C to 3.0°C adjustment in 0.1°C steps	2
Return all Set-Up Features to Factory Settings	16:FS	1	All settings held are the factory defaults. Changes to 0 when one of the parameter values are changed	0	Settings are as modified above To restore the factory profile set to 1	2

DIMENSIONS



INSTALLATION

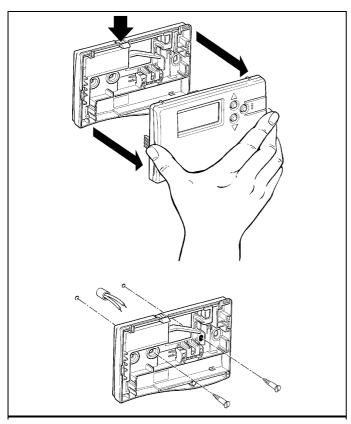


LOCATION

The *CM67* Chronotherm is the temperature control element in the heating/cooling system and MUST be located in a position with good air circulation at average room temperature on an inside wall 1.5 metres above the floor level. Do not position the *CM67* Chronotherm near sources of heat (radiators, hot air vents, TV or lights), near doors or windows, or in direct sunlight.

MOUNTING

The *CM67* Chronotherm can be mounted directly on the wall surface or on an electrical wallbox.



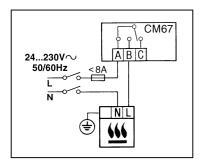
WIRING

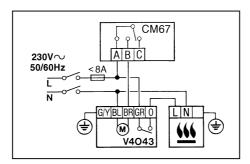
The *CM67* Chronotherm is designed for fixed wiring only and must be installed in accordance with latest I.E.E. regulations. Ensure the wiring connection to the supply is via a fuse rated at no more than 8 amps and a Class "A" switch (having contact separation of at least 3 mm in all poles).

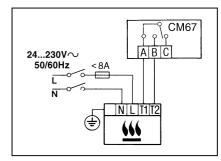
IMPORTANT

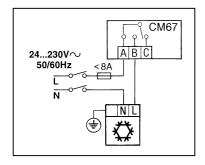
- 1. The installer must be a trained service engineer
- 2. Disconnect the power supply before beginning installation

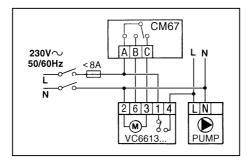
WIRING

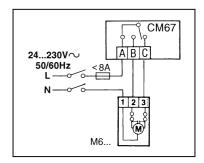


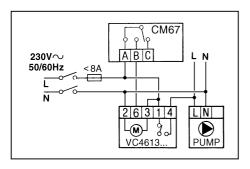


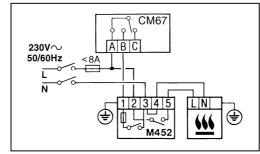












ORDERING SPECIFICATION

Description	Model	Logo	Literature	Spec Sheet
7-day programmable thermostat	T6667B1002	Honeywell	English	ENOR8498
Remote sensor	T7043G1004	Honeywell	Multi- Language	ENOR8496
Outside temp sensor	F42009537- 001		Multi- Language	ENOR8495
Automatic Time Setting Module Europe	Q6667B1007		Multi- Language	ENOR8501

NOTE: The model shown opposite can be ordered as samples to establish the exact customisation requirements

Honeywell

http://europe.hbc.honeywell.com

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