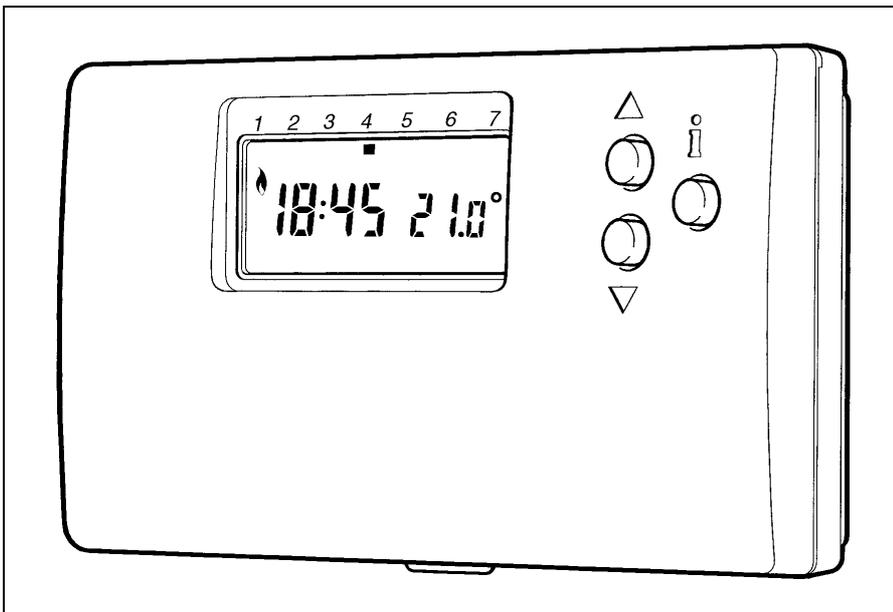


T6651E

CM27 *OEM* 7-DAY CHRONOTHERM

PRODUCT SPECIFICATION SHEET



The CM27 *OEM* 7 -Day Chronotherm can be customised for equipment manufacturers.

It is designed to provide automatic time and temperature control of heating and cooling systems in villas and apartments.

The controller is based on a new philosophy of human interface design, developed in conjunction with a leading university specialising in the field of ergonomic research.

The CM27 *OEM* 7 -Day is designed for European CEN approval.

FEATURES

- Attractive modern styling, making it ideal for location in any type of home
- 7-day program
- Up to 4 level changes per day
- 10 minute program resolution
- Program switch time disable
- 5 to 30°C setpoint range with 0.5°C increments
- 24 hour or 12 hour AM/PM format
- Proportional plus Integral (P+I) digital control form for accurate temperature performance
- Room temperature inquiry
- Temporary setpoint override
- Programmable frost protection, 5 to 10°C for unoccupied periods
- Battery powered by 2 AA size (LR6) alkaline cells
- 4 year battery life with low battery warning
- 24...230 V SPST potential free contacts for simple 2-wire installation
- 5 A resistive, 2 A inductive switch rating
- Heating or cooling control
- System selection links for optimum control performance
- Manual mode for use as a simple thermostat
- Easy-to-use programming controls
- Built-in default program
- Brief programming instructions located inside cover
- Surface or wallbox mounting options
- Wide range of customisation possibilities

SPECIFICATIONS

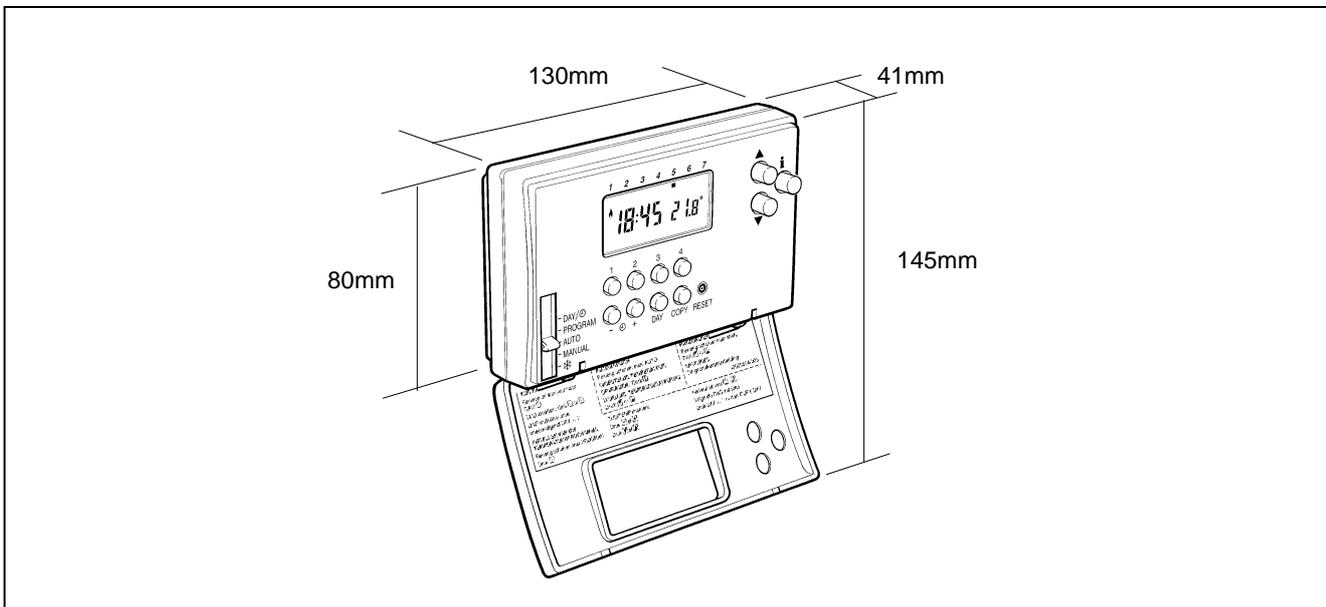
Batteries	: 2 x 1.5 V IEC LR6 (AA) Alkaline cells	Temperature setting range	: Program -5 to 30°C in 0.5 K steps Frost - 5 to 10° C in 0.5 K steps
Battery life	: 4 year minimum (Duracell MN1500)	Temperature control accuracy	: ±0.5 K (nominal) @ 20°C, 50% load 3 K Δ/hour
Battery replacement	: 1 minute memory retention	Control form	: P + I (Proportional + Integral)
Switch type	: SPST (potential free) SPDT also available	Minimum ON/OFF period	: 10% of cycle rate (1 minute minimum)
Electrical rating	: 230 V~, 50...60 Hz, 0.1 A to 5 A resistive; 0.1 A to 2 A inductive (0.6 pf) 24 V~, 50...60 Hz, 0.5 A to 5 A resistive 0.5 A to 2 A inductive (0.6 pf)	Cycle rate	: Selectable by application (see table below)
Time display	: 24 hour or 12 hour AM/PM format	Wiring	: Terminal block capable of accepting wires up to 2.5 mm ²
Time keeping accuracy	: Better than 10 minutes per year	Wire access	: Mains wiring - rear, right or below Low voltage wiring - rear, left or below
Program	: 7-day with 4 daily independent setpoints	Dimensions	: 130 x 80 x 41 mm (w x h x d) 130 x 145 x 41 mm (w x h x d) (flap open)
Time setting resolution	: Time of day - 1 minute Program - 10 minute steps	Environmental	: Operating temperature range 0 to 40°C Shipping and storage temperature range - 20 to 55°C Humidity range 0 to 90% rh, non-condensing
		Approvals	: Designed to meet European CEN approvals

APPLICATION CONTROL

Application	Cycle Rate	Link (LK1,LK2)
Boiler Heating	6	as supplied
Air Heating	6	cut LK1
Air Cooling*	3	cut LK1
Heatpump Heating	6	cut LK2
Heatpump Cooling*	3	cut LK2
Electric Heating	12	cut LK1 +LK2
Thermal Actuator	12	cut LK1+LK2

*Refer to the note on Cooling System Control on page 4

DIMENSIONS



ORDERING SPECIFICATION

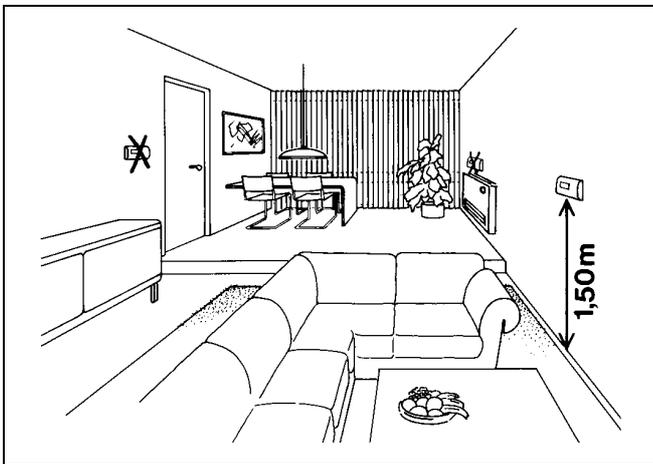
Model	Logo	Carlton	Literature
T6651E1003	None	Plain white	English

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

CUSTOMISATION POSSIBILITIES

- Customer's logo in single or multi-colours
- Customer's logo on literature
- Additional language flap labels
- Six level changes per day
- Screws for easy installation
- Holiday mode
- Carton:
 - single colour printing
 - multi colour
 - full colour
- Alternative relay ratings including SPDT version

INSTALLATION



LOCATION

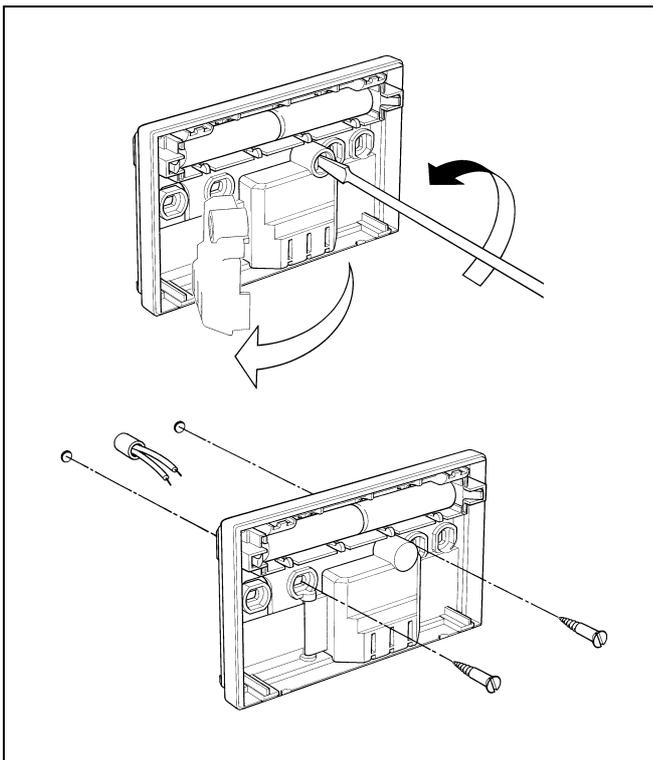
The CM27 *OEM* Chronotherm is the temperature control element in the heating/cooling system and **MUST** be located in a position with good air circulation at average room temperature on an inside wall 1.5 meters above the floor level. Do not position the CM27 *OEM* Chronotherm near sources of heat (radiators, hot air vents, TV or lights), near doors or windows, or in direct sunlight.

MOUNTING

The CM27 *OEM* Chronotherm can be mounted directly on the wall surface or on an electrical wallbox.

WIRING

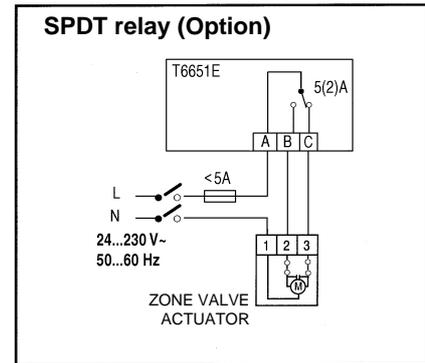
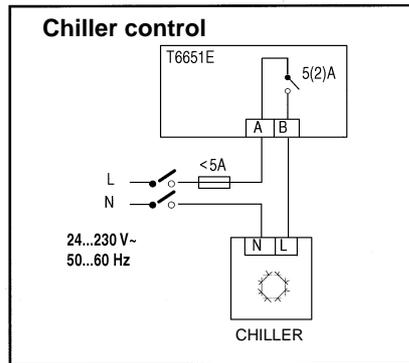
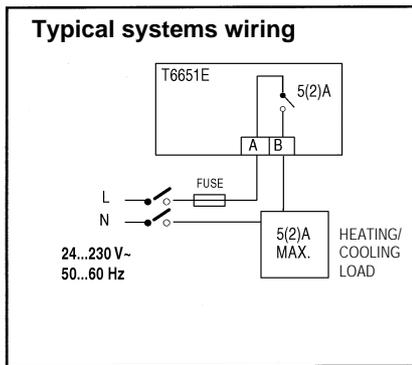
The CM27 *OEM* Chronotherm is designed for fixed wiring only and must be installed in accordance with latest I.E.E. regulations. Ensure the wiring connection to the supply is via a fuse rated at no more than 5 amps and a Class "A" switch (having contact separation of at least 3 mm in all poles).



IMPORTANT

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

WIRING



Cooling System Control

To convert CM27 OEM 7-Day Chronotherm to cooling control press and hold down the TEMP ▼ and ▲ buttons for 5 seconds.

The flame symbol will change to a fan symbol on completion of this change.

NOTE: Application links must be set to Heatpump or Air-conditioning control.

Honeywell

Honeywell Control Systems Limited
 Newhouse Industrial Estate
 Motherwell ML1 5SB
 United Kingdom

<http://europe.hbc.honeywell.com>