

# GENEBRE

THE CHRONOTHERMOSTAT

REF. 3913 04



## WALL INSTALLATION

After having fixed the base to the wall using (C type) plugs and screws, connect the chronothermostat to the wiring, as illustrated in fig.1, and fix it to the BASE using B type screws. Complete the installation procedure by covering the screws seats with the appropriate caps.

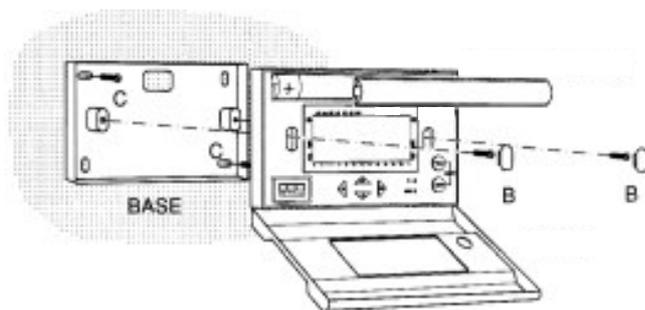


Fig.2b

## GENERAL DESCRIPTION

Chronothermostat allows you to program the temperature in your house for each hour of the day and each day of the week.

This chronothermostat is provided with a graphic display giving the programmed temperatures which can be easily changed by means of simple functional controls.

The chronothermostat avoid energy wasting, since it only activates the heating and conditioning plant when needed.

## POWER CONNECTION

Connection to burner, wall-mounted boiler, air conditioning system, spring-return zone valve:

Connection to zone valve:

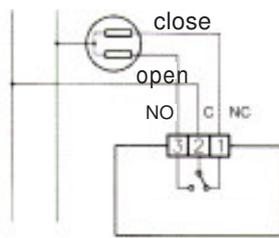
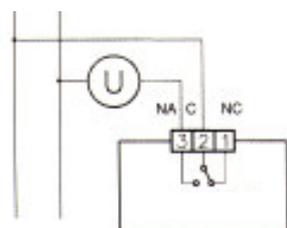


Fig.1

*In case of connection with strong inductive loads (pumps or motors), it is advisable to connect an RC filter parallel to the load.*

## INSTALLATION

The chronothermostat can be directly installed on a 3 module recess box (semi-recessed installation) or on the wall. In either cases, it is advisable to position it at a height of 1,5 metres from the wall, in a dry place, away from draughts and heat sources.

### SEMI-RECESSED INSTALLATION

After connecting the wiring as illustrated in fig.1, fit the chronothermostat without its base directly onto the 3-module recess box, using the A type screws supplied.

**WARNING: AVOID OVERTIGHTENING, AS THIS COULD CAUSE DEFORMATION OF THE FRONT PIECE.** Complete the installation by covering the screw seats with the appropriate caps.

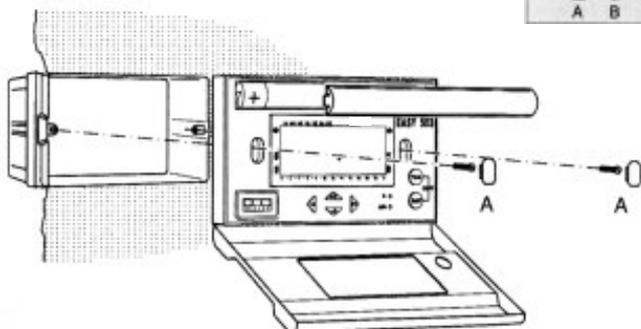
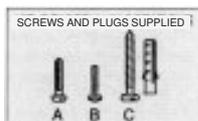


Fig.2a

## TECHNICAL DATA

Supply: 2 alkaline 1,5 Volt batteries.

Battery autonomy: over 2 years.

Automatic check of battery run-down with 2 intervention thresholds.

Battery change without loss of data.

Setting range: 5 ... 25°C in winter, 15 ... 35°C in summer.

Thermal differential:  $\pm 0,2^\circ\text{C}$ .

Any temperature within the setting range can be programmed for each hour of the day and each day of the week.

Contact capacity: 230Vac 5A resistance load.

Installation: wall-mounting or semi-recess directly on 503 box.

Colours available: white or anthracite gray.

Dimensions: 119 x 82 x 32,5 mm if wall-mounted, 119 x 82 x 20 mm if is semi-recessed on 503 box.

Weight: 180g batteries included.

## SUPPLY

The chronothermostat is supplied by two ordinary alkaline 1,5Volt batteries which can guarantee at least 2 year operation. To insert the batteries, lower the shutter, lift the cover (fig.2b) by pressing on its two shortest sides and position the batteries according to the polarity indicated on the inside of the compartment.

The chronothermostat is provided with two battery run-down thresholds. When the first threshold is overcome, the symbol **BAT** (fig.3) will appear while the appliance will carry on working as usual. When the second threshold is reached, the chronothermostat completely stops its thermoregulation functions while the display will only show the time, the day and the battery run-down symbol (**BAT**) flashing. During the battery changing operation, data will be kept stored for 10 minutes with the power off.

## STARTING

As soon as it is supplied with current, the chronothermostat carries out a test cycle by lighting all the segments on the display and activating the load for a few seconds.

In the case where the starting procedures may impair the correct load operation, power the chronothermostat before connecting it to the wiring.

## OPERATION AND PROGRAMMING

The main feature of this appliance is the graphic display which shows a diagram comprising 24 columns representing the hours of the day; each column height indicates the temperature programmed for that particular hour. The segment at the top on the left (A in fig.3) moves along the writing directly above to indicate the day concerned by the program. The programmed temperature is displayed at the top on the right (B in fig.3) during programming; while the time and ambient temperature are displayed alternatively by pressing the key °Ch (E in fig.3) during normal operation.

Once the chronothermostat has been correctly installed and powered, switch the selectors (R, S, T in fig.3) to **ON** (activated), **AUT** (automatic operation) and the right season (**WIN** for winter and **SUM** for summer).

As soon as it is supplied with current, the chronothermostat shows a standard program, while the clock starts from the hour 00.00 on Monday (**MON**).

To modify the standard program, use the **DAY** key (*F* in fig.3) to move along to the right day and change the daily display using the four centre keys forming a cross; two of these (*L*, *M* in fig.3) move the cursor horizontally along the hour axis, whereas the other two (*N*, *O* in fig.3) vary the set temperature (shown on the numerical display).

**The weekly temperature program can be modified at any time by means of the four keys forming a cross +h, -h, +°C, -°C and the DAY key.**

The increment and the minimal decrement of the temperature is set up through the keys +°C and -°C. It is of **0.2°C**. Keeping pressed the key +°C or -°C the increment or the decrement becomes of **1°C** after at least five increments or decrements.

After programming the first day, the following ones can be programmed in two different ways:

- Press the **DAY** key (*F* in fig.3) to move on to the following day and display the stored program (if there is none, the standard display will be shown) which can be modified as previously described.

- Copy the day just programmed into the following one using the **COPY** function (*E* and *F* keys in fig.3 pressed at the same time).

After programming the whole week, you only need to set the hour and the day by pressing the two **h** and **day** hideaway keys (*G* and *H* in fig.3), which can be done with the help of a pointed instrument. The minimal increment of the hour is of a minute to every pressure of the key **h**. Keeping pressed the key **h** the increment becomes of **10 minutes** after at least ten increments of a minute.

**A** segment showing the actual day or, during programming, the programmed day

**B** numerical display showing the actual time or the ambient temperature, alternatively displayed by pressing the **E** key. During programming it shows the temperature setting

**C** flashing segment showing the outside temperature or, during programming, the programmed temperature

**D** battery compartment

**E** push-button allowing alternate display of actual time and ambient temperature

**F** push-button for changing the days during programming

When pressed simultaneously, the **E** and **F** buttons copy the displayed day program into the next day

**G** hideaway key for current time setting

**H** hideaway key for current day setting

**I** temperature range for summer (**SUM**) mode operation

**L** key for increasing the hours during programming

**M** key for decreasing the hours during programming

**N** key for decreasing the temperature during programming

**O** key for increasing the temperature during programming

**P** daily hour scale

**Q** temperature range for winter (**WIN**) mode operation

**R** selector switched ON/OFF

**S** selector for heating system control (**WIN**) / air conditioning system control (**SUM**)

**T** selector for automatic program operation (**AUT**) / manual temperature setting operation (**MAN**)

From this moment on the chronothermostat starts working regularly and indicates each load input (heating or air conditioning) by lighting the flame symbol on the display (fig.3).

### MANUAL AND ANTI-FREEZE OPERATION

When the *T* selector in the fig.3 is moved to the **MAN** position, the chronothermostat starts operating manually by switching the display off (but keeping the information stored) and lighting the hand symbol (fig.3). From now on, the chronothermostat will function like an ordinary ambient thermostat where the setting is carried out by selecting the temperature using the +°C and -°C keys (*N*, *O* in fig.3). The set temperature, which can be read on the display, will be kept until the manual operation is switched off and the selector is moved back to the **AUT** position (automatic operation mode).

The manual operation can be used as an ANTI-FREEZE FUNCTION by setting the programmed temperature to 5°C so as to avoid damage to the hydraulic system from freezing.

### OFF FUNCTION

When the *R* selector in fig.3 is positioned to **OFF**, the chronothermostat will only keep the clock function on, and deactivate all other functions.

When the clock needs to be set, bring the selector back to the **ON** position and carry out the required setting by means of the **h** hideaway (key *G* in fig.3).

### RESET FUNCTION

Should the program entered need to be cancelled (for example after a programming trial), simultaneously press the 4 keys forming a cross (+h, -h, +°C, -°C) until the writing **Init** appears on the display; once these keys are released, the chronothermostat will carry out the starting procedure previously described.

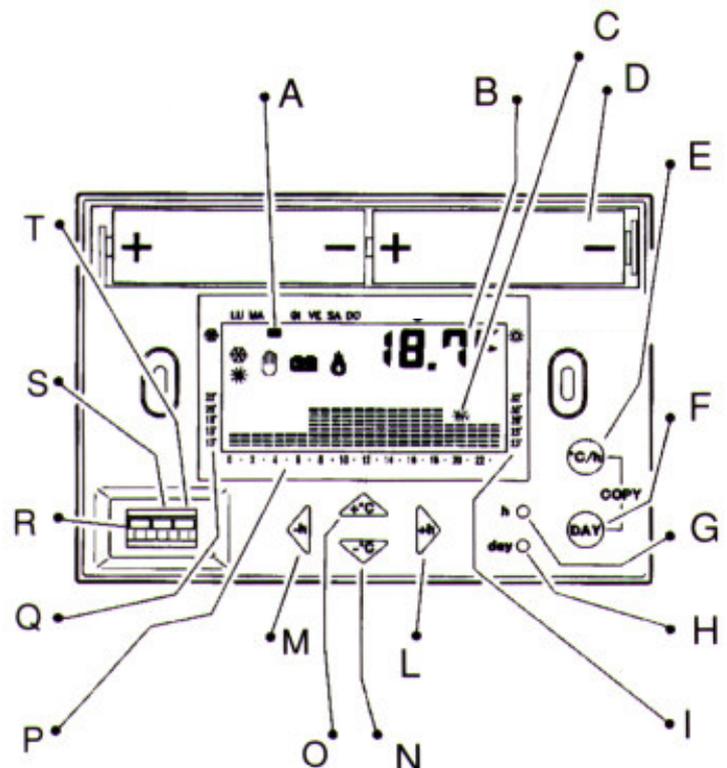


Fig.3

 WINTER operating mode indicator

 SUMMER operating mode indicator

 MANUAL operating mode indicator

 Run-down battery indicator

 Relay contact closure indicator

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