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INSTALLER'S MANUAL
Installation instructions

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1.50m

INSTALLER'S MANUAL - Optional settings

Factory settings		Optional parameter adjustments
Parameter No.1	oFF PAs	**PASSWORD:** This option allows the appliance to be protected from any unauthorized changes to its internal settings. Value 01 to 99 activates it (ON).
No.2	30.0°Hi	**HIGH LIMIT:** Highest temperature setpoint lock. Adjustabled between 6° and 35°C by 0.5°C at a time. Will prevent the temperature being set above this value.
No.3	06.0°Lo	**LOW LIMIT:** Lowest temperature setpoint lock. Adjustable between 5° and 34°C by 0.5°C at a time. Will prevent the temperature being set below this value.
No.4	0.0°CAL	**DISPLAYED TEMPERATURE CALIBRATION:** This function enables you to change the displayed temperature. Adjustable between -5.0 and 5.0°C by 0.1°C at a time.
No.5	HEAt Mod / COOL Mod	**HEATING OR COOLING MODE:** Press the ︿ key to configure your appliance in heating mode, the ﹀ key to configure in cooling mode.
No.6	0.3°diF	**DIFFERENTIAL:** The differential (hysteresis) is the difference between the thermostat connection and disconnection temperatures. It can be set between 0.1° and 2°C by 0.1°C at a time.
No.7	06.0°Ant	**ANTI-ICE FUNCTION:** To avoid frost damage the anti-ice function will not allow the temperature in your home to go below the temperature setpoint, adjustable between 0.5°C and 18°C. The "0" value deactivates the function (OFF).
No.8	00 dLy	**DELAY:** This function is recommended for cooling mode. It enables you to set a delay time between disconnection and the next connection so that you can protect the compressor. The ⌛ symbol will appear during this time. Adjustable between 1 and 99 minutes. The "00" value deactivates the function.
No.9	on PuP	**PUMP ANTI-BLOCK FUNCTION:** This allows you to run the pump for one minute every 24 hours if necessary to prevent it blocking during prolonged periods of inactivity. Press the ︿ key to activate the function ("ON" appears) and press ﹀ to deactivate it ("OFF" appears).
No.10	00 AdP	**ADVANCE START-UP:** This function allows you to switch your boiler on and off in advance. E.g.: A program that comes on at 8 a.m. and goes off at 11 p.m. and has an advance value of 30 minutes will come on at 7:30 a.m. and go off at 10:30 p.m. Adjustable between 1 and 59 minutes. Deactivated by the "00" value.

Entering optional settings

❶ Make sure that the thermostat is in automatic mode before you enter optional settings.

20.3°C 22.0☀ 18.0

❷ oFF PAs — Press both keys at the same time until "oFF PAs" appears. Release the keys.

❸ 30.0°Hi — If you do not want to activate the Password function, with the display at "00 PAs" press OK. The next parameter, high limit, will appear. If you want to change this setpoint use the ﹀ ︿ keys and press OK. Follow the same procedure for all the other parameters.

Activating the PASSWORD

oFF PAs — With the display at "oFF PAs" select a number other than zero by pressing ﹀ ︿ (e.g. 25). Confirm by pressing OK.

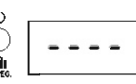25 PAs Example — Press OK to scroll parameters forward. When you want to reenter, with the display at "oFF PAs" enter 25 and press OK. If you do not want to change the number, press OK again.

Deactivating the PASSWORD

25 PAs Example — When you try to enter optional settings with the password activated, "oFF PAs" will appear. Use the ﹀ ︿ keys to enter the number (e.g. 25) and press OK. Then modify the number until

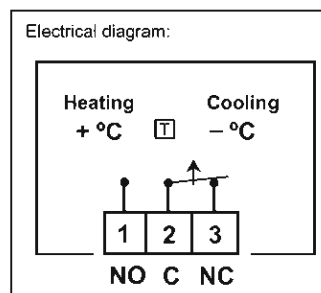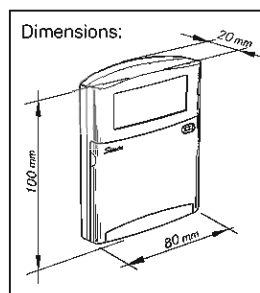oFF PAs — oFF PAs appears and press OK. The password is deactivated.

RESET THE PASSWORD AND THE PIN

To disable the PAS and the PIN, remove one battery and wait 40 sec.
Hold the key ⏻/🔋 pressed, insert the battery and after 40 seconds appears "----" in the screen.

Release the key ⏻/🔋, remove battery again wait 40 seconds.
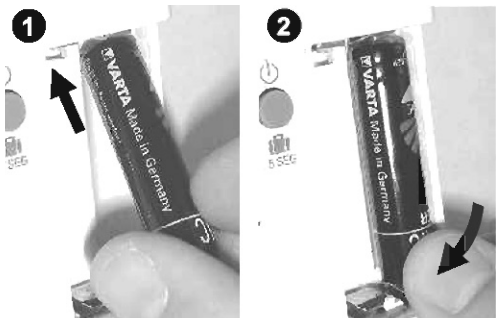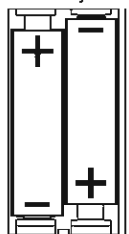After test, set current time and day. The users program remains.

Technical Data

Dimensions: 20 mm, 100 mm, 80 mm

Electrical diagram:

Heating + °C 🔲 **Cooling** - °C

| 1 | 2 | 3 |
NO C NC

Control scale:..5° to 35°C.
Ambient temp.:...................Tmin. 0°C, Tmax. 40°C.
Storage temp.:................................maximum 50°C.
Alkaline batteries (2):..........................LR03 (AAA).
Low battery indicator:................................"bAtt".
Battery life:..................................approx. 1.5 years.
Breaking power (contacts):............. 8 (3) A 250 Vac.
Connected wire section:...............................1,5mm².
Wiring type:.. H-05V-K.
Protection grade:..IP20.
Software type A:........................... (Action type 1.B).
Standard:..CE.
Weight:...100 grams.

GUARANTEE CONDITIONS

7-day programmable thermostat

This appliance has a two-years guarantee limited to replacement of defective parts.

We will not accept any responsibility for damage caused to the appliance by poor handling.

The guarantee does not include:

- Appliances with a damaged, effaced or altered series number.

- Appliances which have not been connected or used following the instructions that accompany it.

- Appliances which have been altered without the prior consent of the manufacturer.

- Appliances damaged by blows of liquid spills or gaseous emissions.

VERY IMPORTANT!

It is installer's responsibility to fit electrical protection suitable for the installation (STANDARDIZED).

This appliance should be mounted on a universal recessed box.

Device designed for use in non-polluted environments.

Independently mounted control device for surface mounting and connection to fixed wiring.

We reserve the right to make modifications without prior notice.

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1.- Start-up or battery change

The **CTA 10** will provide your home with comfort and economy. You can program your heating for all seven days of the week. Its features include:

A PIN to lock the keypad, a password (PAS) to protect the installer's settings. It saves user programs and settings indefinitely with its batteries completely dead and even without them. To get the best out of your thermostat, please read these instructions carefully.

Insert the LR03 (AAA) 1.5 V alkaline batteries (Very important: do not use rechargeable or block batteries) respecting the polarities marked on the apparatus as shown in figs. 1 and 2. The thermostat's display will flash for 20 seconds (internal check).

Enter the time by pressing the ∧ or ∨ keys and confirm your setting by pressing the OK key. Follow the same procedure to enter the minutes and the day of the week and **go on to point 3**.

2.- Changing time and date / Hours counter
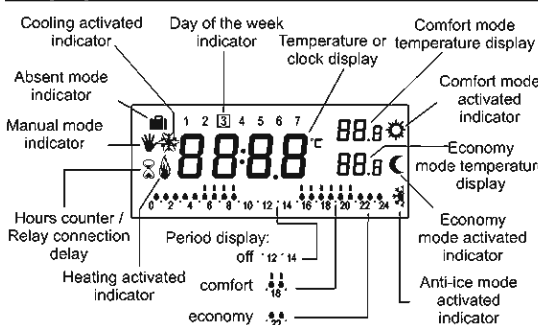
CHANGING TIME, DATA.

If you want to change the time or the day of the week press the SET⊕/COPY key, enter the time by pressing ∧ ∨ and confirm your setting with the OK key. Follow the same procedure to enter the minutes and the day of the week. After changing or confirming the day of the week the operating hours counter will appear on the display: press OK to exit.
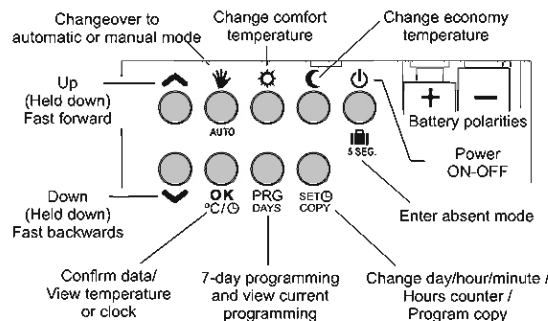
OPERATING HOURS COUNTER

Your thermostat has an automatic system operating hours counter. This counter will tell you total operating hours at any time thus providing you with an energy consumption and maintenance calculation for your heating or cooling system.

Press the SET⊕/COPY key; the time will appear and flash. If it is correct, press OK. Follow the same procedure for the minutes and the day of the week. You will then see 0000 Cnt Hor on the display showing total hours. If you want to set it to zero press ∧ and ∨ keys at the same time until 0000 Cnt Hor appears on the display. Press OK to exit.

Display

Cooling activated indicator
Day of the week indicator
Temperature or clock display
Temperature or temperature display
Comfort mode temperature display
Absent mode indicator
Comfort mode activated indicator
Manual mode indicator
Economy mode temperature display
Hours counter / Relay connection delay
Period display: off 1₄ 12 14
comfort 1₈
economy 22
Economy mode activated indicator
Heating activated indicator
Anti-ice mode activated indicator

Keypad

Changeover to automatic or manual mode
Change comfort temperature
Change economy temperature
Up (Held down) Fast forward
AUTO
Battery polarities
Power ON-OFF
Down (Held down) Fast backwards
OK °C/⊕
PRG DAYS
SET⊕ COPY
Enter absent mode
Confirm data/ View temperature or clock
7-day programming and view current programming
Change day/hour/minute / Hours counter / Program copy
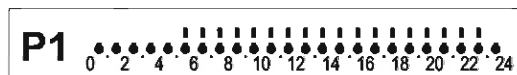
3.- Pre-set values, Automatic Mode

The Comfort and Economy temperatures in the **CTA 10** programmable thermostat are factory pre-set to **Comfort Temperature** 22°C and **Economy** 18°C.

The pre-set 7-day program is **Economy** from **midnight** to **6 a.m.** and from **11 p.m.** to **midnight, Comfort** from **6 a.m.** to **11 p.m.**

If these temperature and schedule settings **for the heating mode** are right for you, then your thermostat is ready to control and regulate the temperature in your home.

4.- Changing the Economy and Comfort temperature setpoints

Press ☼ to change the comfort temperature. The current setpoint will flash on the display followed by the comfort symbol. Change the temperature using the ∧ and ∨ keys. Confirm your setpoint by pressing OK.

Press ☾ to change the economy temperature. The current setpoint will flash on the display followed by the economy symbol. Change the temperature using the ∧ and ∨ keys. Confirm your setpoint by pressing OK.
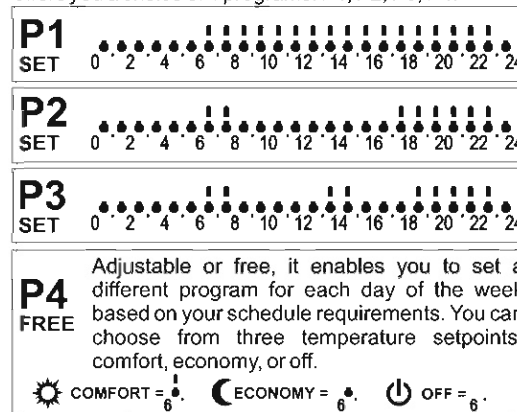
5.- mode OFF (disabled the temp. Regulation)

Pressing the key ⏻ disables the regulation of the temperature but it continues visualizing the temperature of the sensors in screen. when you see the symbol ❄ the function defrost is activated. (see parameter 7)

6.- Viewing or changing the programming

Your **CTA 10** 7-day programmable thermostat offers you a choice of 4 programs: P1, P2, P3, P4.

P1 SET 0 2 4 6 8 10 12 14 16 18 20 22 24

P2 SET 0 2 4 6 8 10 12 14 16 18 20 22 24

P3 SET 0 2 4 6 8 10 12 14 16 18 20 22 24

P4 FREE Adjustable or free, it enables you to set a different program for each day of the week based on your schedule requirements. You can choose from three temperature setpoints: comfort, economy, or off.

☼ COMFORT = 6 ☾ ECONOMY = 6 ⏻ OFF = 6

If you want to view or change your 7-day programming press PRG DAYS. Your setpoint for day 1 will appear; press PRG DAYS again to view the other days. If you want to change the program press ∧ . The factory pre-set programs **P1**, **P2** and **P3** and the Adjustable Program **P4** will scroll forward on the display.
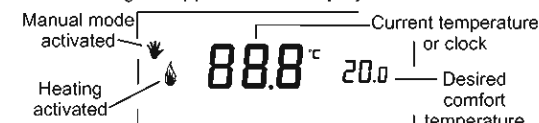
Setting the P4 program:

Press ☼ comfort, ☾ economy, or ⏻ off to select the setpoint you desire for each time. If you want to change your setting, press ∨ to go back.

Use the **COPY** key to confirm the current program (OK) and copy it to the following day. If you do not want to copy, press **OK** to confirm the setting for the current day. Follow the same procedure for the rest of the days of the week.

7.- Changeover from Automatic Mode to Manual Mode

Your programmable thermostat is default programmed to automatic mode, that is with the programmed time and temperature setpoint for all the days of the week.

If you want to turn it into a normal thermostat and to be able to switch on and off your heating immediately without waiting for the time set in the program, press the ❧ key. The following will appear on the display:

Manual mode activated
Current temperature or clock
Heating activated
Desired comfort temperature

Use the ∧ and ∨ keys to set the comfort temperature you require. Press the OK key to view current temperature or time on the display. Press ❧ to revert to automatic mode.

8.- Absent mode / Manual Timer

Your thermostat has a function which allows manual mode operation for a specific time, thus enabling the following applications:
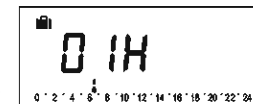
- ABSENCE OR VACATION

When you are away from your home you can deactivate the heating for a few hours or a few days (Vacation), setting the temperature to a particular setpoint (for example anti-ice). After this period your thermostat will revert to the pre-set program in automatic mode.

- MANUAL TIMER

This enables you to have your heating on for a number of hours at a specific temperature that is independent of the programming (e.g. you have guests to dinner and you want to leave the heating on). Set the number of hours and the comfort temperature you require and your thermostat will maintain that temperature, reverting to the pre-set program in automatic mode at the end of this period.

To program a period of time, press the ❧ 5 SEG. key until the following appears:

Use the ∧ and ∨ keys to set the number of hours, 01H, 02H, 03H, etc., up to a maximum of 23 hours (the thermometer symbol indicates the end of the absence period), or days, 01d, 02d, 03d, etc., up to a maximum of 50 days.

Press OK and the following will appear:

Use the ∧ and ∨ keys to set the temperature required for the period. Your thermostat will count down the hours or days. At the end of the period your thermostat will revert to the pre-set program in automatic mode. If you should wish to exit or cancel this operation, just press the ❧ key and it will revert to automatic mode.

9.- Activating and deactivating your PIN

In order to avoid unauthorized changes **CTA 10** e-nables you to protect the keypad with a PIN. To activate the PIN, press and hold down the SET⊕/COPY key until 00 Pin appears on the display (indicates PIN deactivated). Use the ∧ and ∨ keys to enter a number other than zero and press OK; **on Pin** will appear on the display. When the PIN option is activated none of the parameters may be changed unless the correct number is first entered. To deactivate it, press any key, enter the correct number, and press OK: **oFF PIN** will appear on the display.

10.- Reverting to FACTORY SETTINGS

To consent to revert to the original factory settings, is necessary that PAS and PIN are disabled (00). once confirmed this value to come in the following way: press and hold down for 5 seconds the PRG DAYS and SET⊕ COPY keys at the same time. Your thermostat will revert to its pre-set values but will keep time and day of the week.