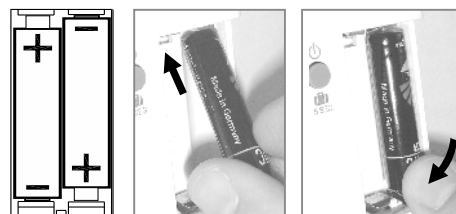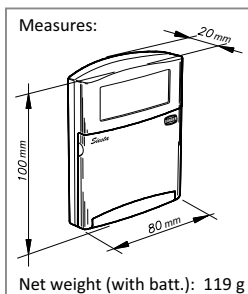## Batteries replacement

Open the battery compartment cover and insert two LR03 AAA 1.5V batteries. Make sure the positive and negative ends are facing the correct direction, as shown picture of side & always introducing them as indicated. The display shows for 2 sec. the program version & then pass to set the internal clock. With heavily charged batteries the display may show a shading, which will disappear in a few weeks.
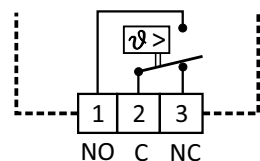
Very Important: Don´t use rechargeables batteries

Technical data

Measures:
20 mm
100 mm
80 mm

Net weight (with batt.): 119 g

Electrical drawing:

| 1 | 2 | 3 |
| NO | C | NC |

Regulation scale:...	**from 5 to 35°C**
Ambient temperature:..............................	**Tmin. 0°C, Tmax. 40°C**
Storage temperature:...	**maximum 50°C**
Power supply:.......................	**2 alkaline battery 1,5V LR03 (AAA)**
Low battery indicator:...	
Battery duration:..	**1,5 years, aprox.**
Breakage power (contacts):.....................................	**8(3)A 250Vac**
Maximum cable size to connect:....................................	**1,5mm²**
Cable type:..	**H-05V-K**
Dregee of protection:..	**IP20**
Action Type according EN 60730:..	**1.B**
Homologated:...	**CE**

Guarantee conditions

This appliance has a three-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 or liquid spills or gaseous emissions.

VERY IMPORTANT:

This appliance should be mounted on a universal embedded box.

Device designed for a clean pollution situation.

This control is not a safety device and should not be used as such, is the responsibility to incorporate appropriate protection for each type of facility (homologated) installer.

Independent control device mounting, and connection via fixed pipeline.

We reserve the right of modify without prior notice.

Sonder Regulación, S.A.

Avda. La Llana, 93

08191 RUBÍ

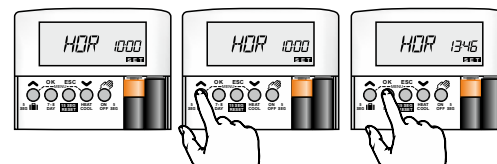(Barcelona) Spain

www.sonder.es

CE

Cod.: 7471 INGV3SEP21

It is a battery-operated digital chronothermostat for residential use, with total freedom in programming in which orders are indicated where the time, temperature and applicable days are configured. It can operate in programmed or manual mode.
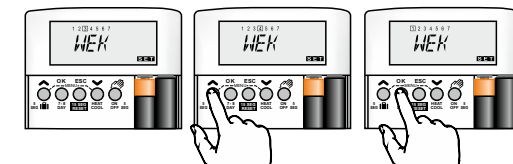
Relay operation can be configured as all/nothing or in savings mode (chrono-proportional) to optimise the energy demanded from the boiler to reach the setpoint temperature and save energy. It incorporates open window detection.

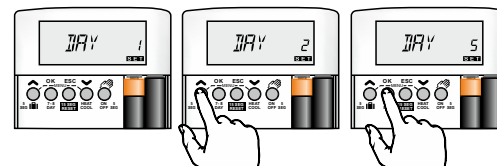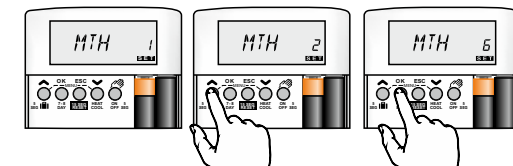### First connection & Batteries replacement

Hour

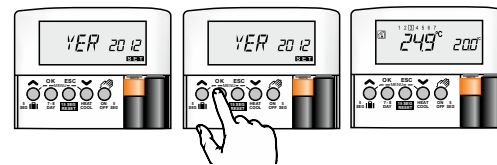HOR 10:00   HOR 10:00   HOR 13:46

Week day

WEK   WEK   WEK

Month day

DAY 1   DAY 2   DAY 5

Month

MTH 1   MTH 2   MTH 6
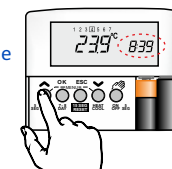
Year

YER 2012   YER 2012   23.9°C 20.0

Note: If the battery replacement takes less than 1 minute, the data of internal clock was saved in memory.
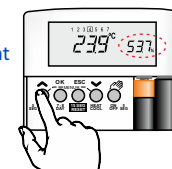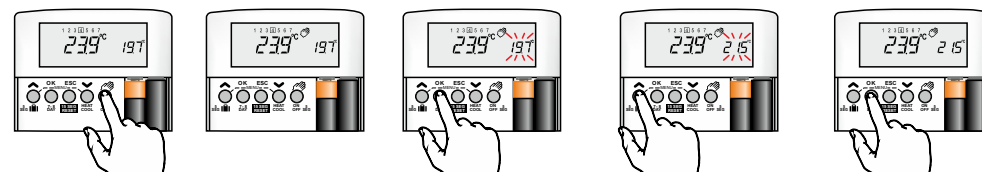
Data shown on the display

Setpoint temperature
23.9°C 19.7

Current time
23.9°C 8.39

% H.R. of ambient
23.9°C 53.7

### Regulation in manual mode

23.9°C 19.7   23.9°C 19.7   23.9°C 19.7   23.9°C 2.15   23.9°C 2.15

Programming the automatic mode and activation of functions

On our website (**www.sonderregulacion.com**), you will find the manual for advanced use inside the product sheet **29.055** at the link **Manual**.

Extended manual that will show you step by step programming of automatic control mode, the values that are factory set and how to change them.
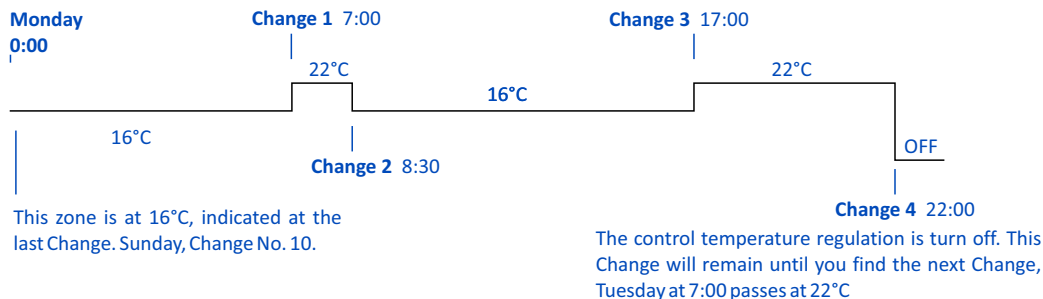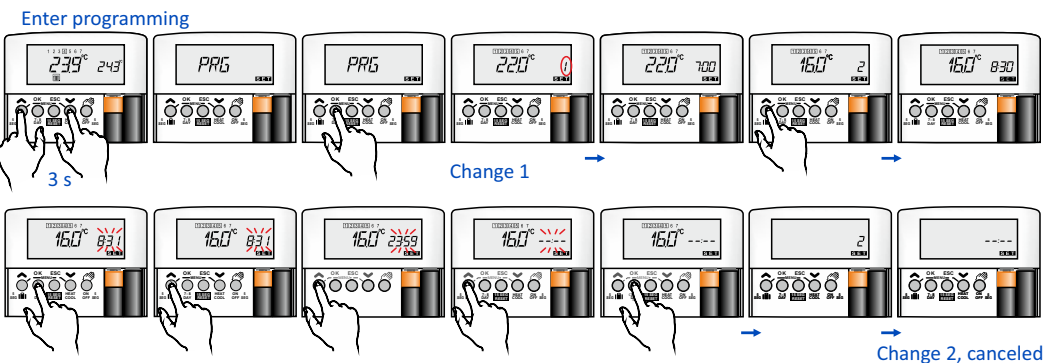
Programmation
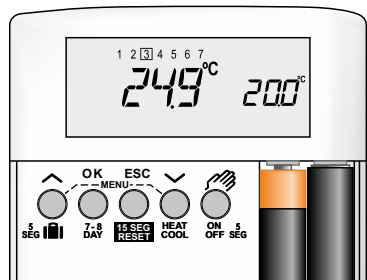
For example we will use 10 Changes, but if you need more have up to 28 Changes that can be configured as desired.

Change	Hour	Temperature	Days
1	7:00	22°C	Monday...Friday
2	8:30	16°C	Monday...Friday
3	17:00	22°C	Monday...Friday
4	22:00	OFF	Monday...Friday
5	7:00	22°C	Saturday
6	17:00	16°C	Saturday
7	19:30	23°C	Saturday
8	23:00	16°C	Saturday
9	8:00	23°C	Sunday
10	22:00	16°C	Sunday

On Monday at **7:00** in the morning the heat will come on until you reach the house at **22°C**, Change 1 and continue until **8:30**, after that time will keep the house at **16°C**, Change 2. at **17:00** that receives the Change 3 goes to heat the house up to **22°C** and hold until **22:00** that happens to have the temperature in **OFF** period that does not regulate temperature, only keeps antifreeze, Change 4 until to **7:00** Tuesday morning that recives the Change 1, and performs the same process until Friday because Changes 1 to 4 are configured for five days alike.

Saturday at **7:00** am heating will come on until the house arrives to **22°C**, Change 5, and continue until **17:00**, after this time will keep the house at **16°C**, Change 6. At **19:30** it receives the Change 7 and goes home heating to **23°C** and hold until **23:00**, Change 8, which happens to maintain **16°C** until the next Change 9, it is **8:00** on Sunday that will warm the house to **23°C** throughout the day, until it receives the Change 10 leaves the temperature to **16°C** at **22:00** pm, temperature maintained until the next change, already again the Change 1 on Monday.
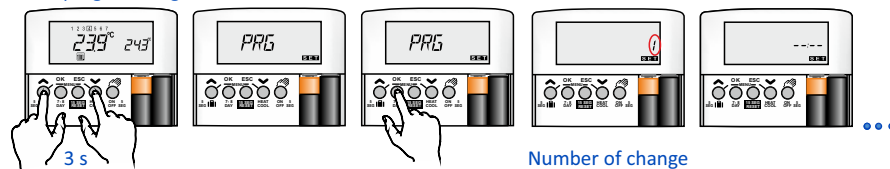
Diagram

Monday 0:00 | **Change 1** 7:00 | **Change 3** 17:00

22°C | 16°C | 22°C

16°C | **Change 2** 8:30 | OFF

Change 4 22:00

This zone is at 16°C, indicated at the last Change. Sunday, Change No. 10.

The control temperature regulation is turn off. This Change will remain until you find the next Change, Tuesday at 7:00 passes at 22°C

Example to cancel a Change once configured

Enter programming
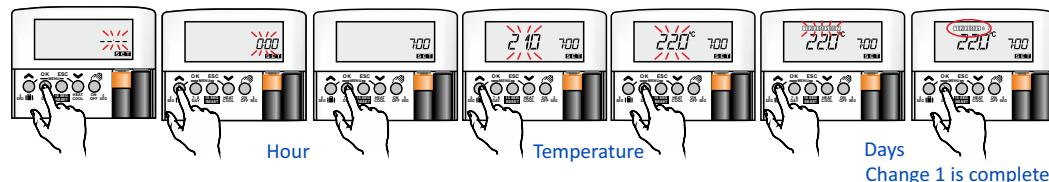

3 s — Change 1 → → Change 2, canceled

On Monday at **7:00** in the morning the heat will come on until you reach the house at **22°C**, Change 1 and continue until **17:00** that receives the Change 3 and the rest of the programming remains the same.

Steps

Enter programming

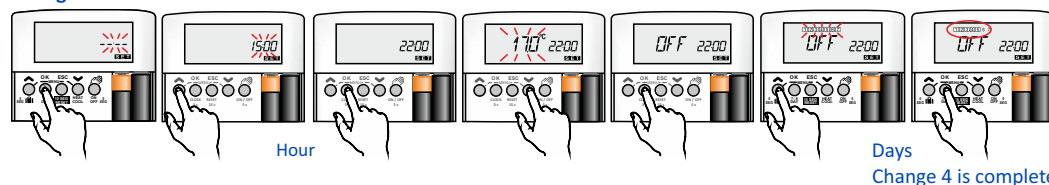3 s — Number of change

Change 1 - Monday...Friday

Hour — Temperature — Days
Change 1 is complete

Changes 2 & 3 - Same procedure

Change 4

Hour — Days
Change 4 is complete

Change 5 - Saturday

Hour — Temperature — Day
Change 5 is complete
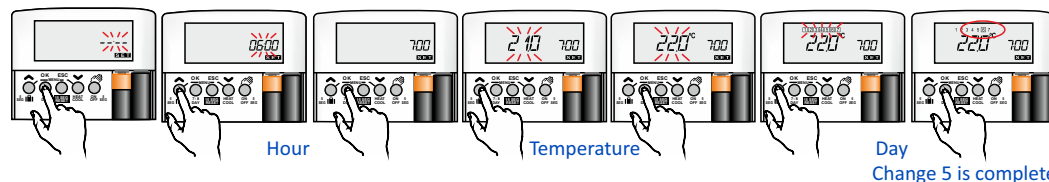
Change 6, 7 & 8 - Same procedure

Change 9 - Sunday

Hour — Temperature — Day
Change 9 is complete

Change 10 - Sunday

Hour — Temperature — Day

Change 10 is complete & thermostat is programmed, exit pressing ESC. After Change 10 returns to the Change 1.
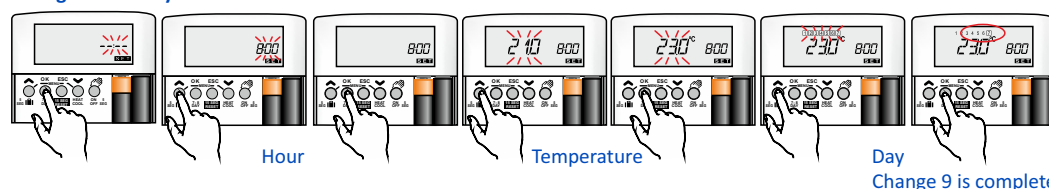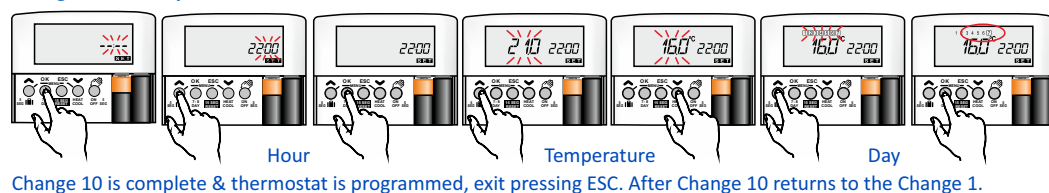
Family

Siesta - CRX

Instructions Manual

Weekly Chronothermostat

ErP Product Class
IV

eCO Design
Compliant
EU 2015/1188

Saving energy
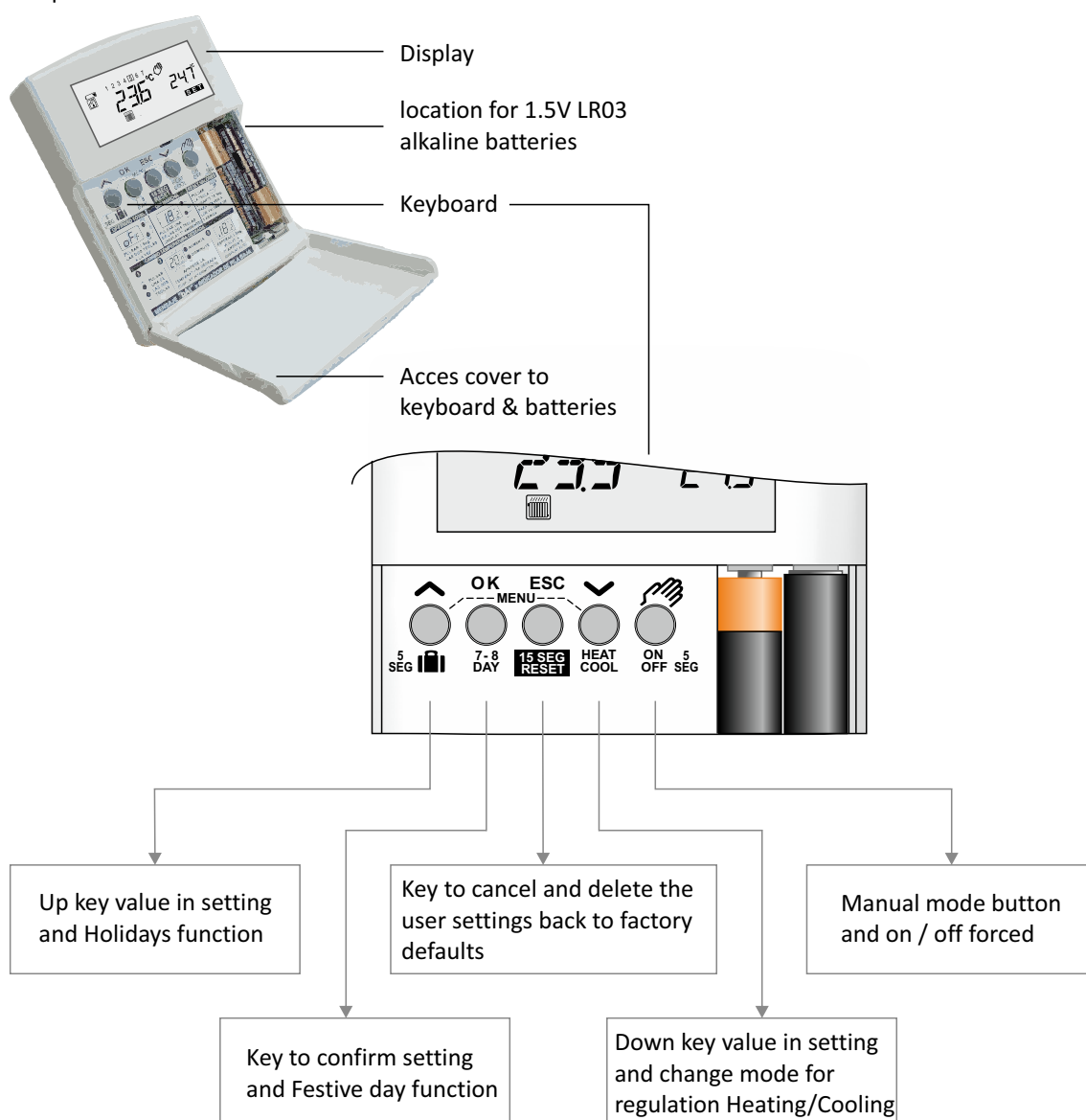
Siesta - CRX

INDEX

Description

It is a digital thermostat with batteries for residential use, with complete freedom in programming, just have to set the changes, which tells the control the time, temperature and days to apply.
You can memorize up 28 changes.
It can also operate in manual mode, just need to check the temperature.
Relay operation can be configured in traditional mode (all/nothing) or in saving mode (chrono-proportional), optimising the energy demanded from the boiler to reach the setpoint temperature and save energy (CPI parameter).
It also incorporates the open window function, which stops regulation when it detects a sudden drop in temperature.

Display

location for 1.5V LR03 alkaline batteries

Keyboard

Acces cover to keyboard & batteries

Up key value in setting and Holidays function

Key to cancel and delete the user settings back to factory defaults

Manual mode button and on / off forced

Key to confirm setting and Festive day function

Down key value in setting and change mode for regulation Heating/Cooling

Location

1,5m

Technical data

Measures
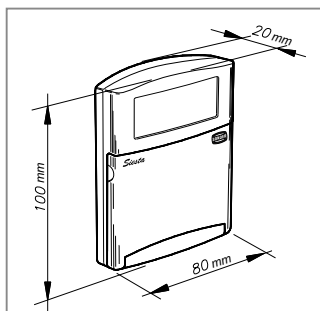
Electrical drawing
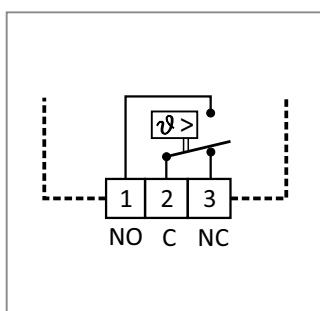
Specifications

Regulation scale:.....................................	**from 5 to 35°C**
Ambient temperature:...............	**Tmin. 0°C, Tmax. 40°C**
Storage temperature:............................	**maximum 50°C**
1,5V Alkaline battery (2 pcs):........................	**LR03 (AAA)**
Low battery indicator:..	
Battery duration:....................................	**1,5 year, aprox**
Breakage power (contacts):.......................	**8(3)A 250Vac**
Maximum cable to connect:............................	**1,5mm^2**
Type wiring:..	**H-05V-K**
Degree protection:...	**IP20**
Degree pollution:..	**2**
Software:...	**Class A**
Action type according EN 60730:...............................	**1.B**
Homologated:...	**CE**
Net weight (with batteries):...................................	**119 g**
Gross weight:...	**139 g**

Installation
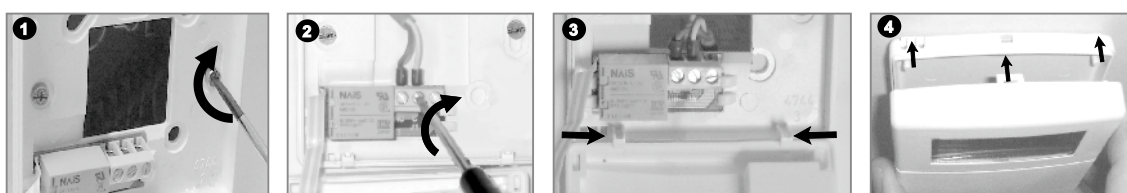
Batteries replacement

Open the battery compartment cover and insert two   LR03 AAA 1.5V batteries. Make sure the positive and negative ends are facing the correct direction, as shown picture of side & always introducing them as indicated. The display shows for 2 seconds the program version and then pass to set the internal clock.

Very Important: Don´t use rechargeables batteries
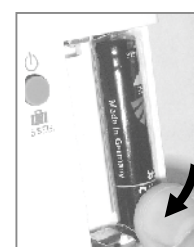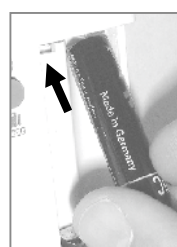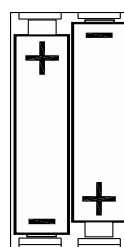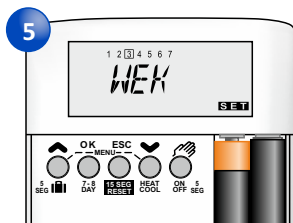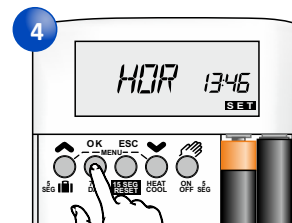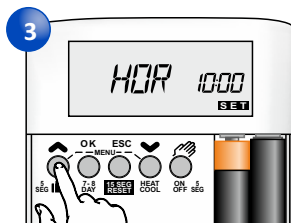
First connection

1 CRX 10
Version

2 HOR 10:00
2 s

2 HOR 10:00
Hour

3 HOR 10:00

4 HOR 13:46

5 WEK   1 2 3 4 5 6 7
Week day

6 WEK   1 2 3 4 5 6 7

7 WEK   1 2 3 4 5 6 7

8 DAY 1
Month day

9 DAY 2

10 DAY 5

11 MTH 1
Month

12 MTH 2

13 MTH 6

14 YER 2012
Year

15 YER 2012

16 1 2 3 4 5 6 7   24.9°C   20.0°C

4
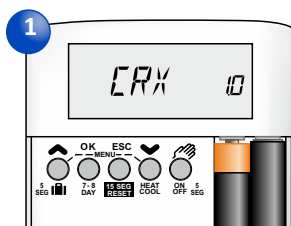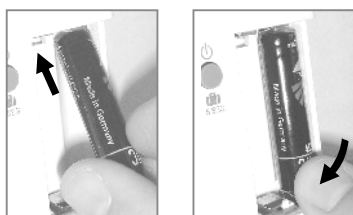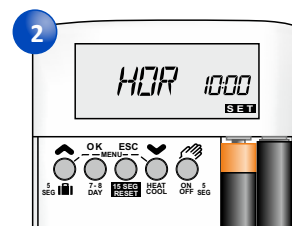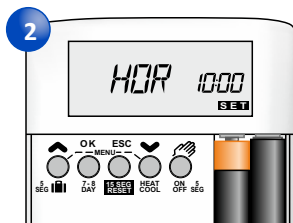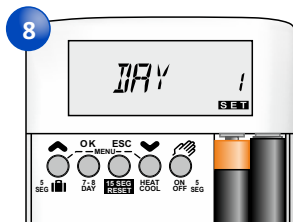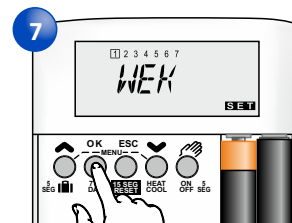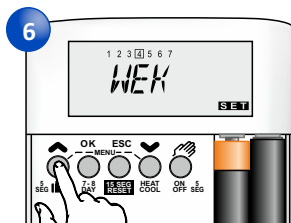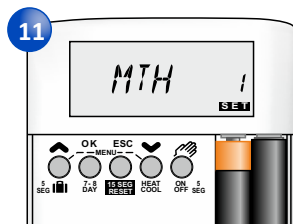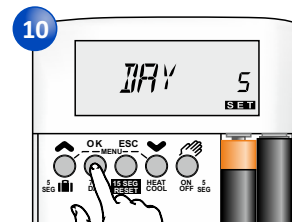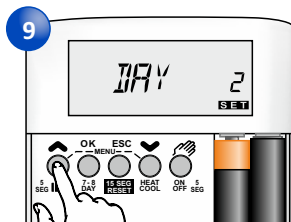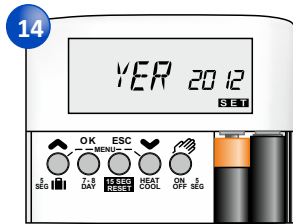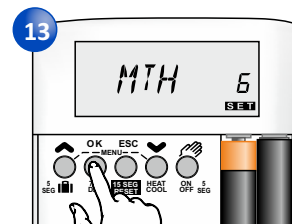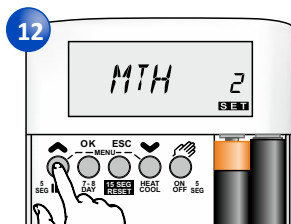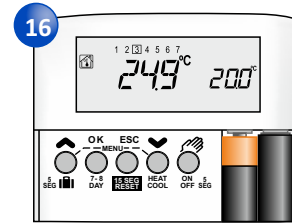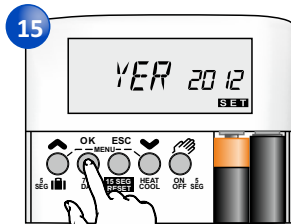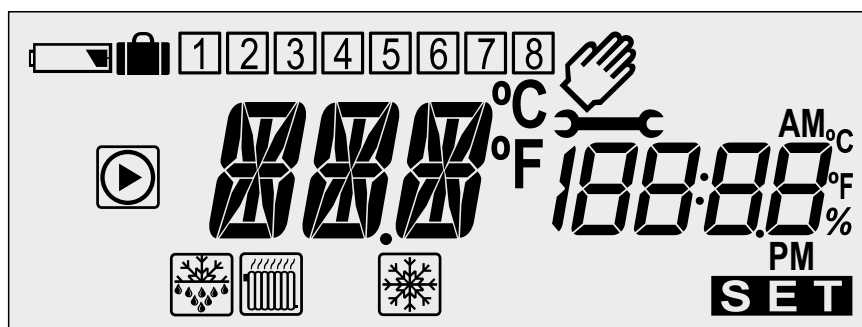
	Manual mode	Shown on the display when the control is in manual mode. Only has to adjust the temperature by the arrows.
		Pressing the key moves in and out of manual mode.

	Automatic mode	Programming changes (temperature / time / day), up to 28 changes, the control automatically regulates heating.
		You can program: every day in a different way, or Monday through Friday, or the weekend or Monday to Saturday ... just for your needs.

	Manual Off	The device no control the temperature, only remains the defrost function and pump protection.

	Regulation in heating	Shown on the display with regulation in heating mode: Relay switched on when the temperature is below the setpoint minus differential & relay switched off when arrives to setpoint.
		Pressing the key by 5 seconds, change the mode.

	Regulation in cooling	Shown on the display with regulation in cooling mode: Relay switched on when the temperature is above the setpoint plus differential & relay switched off when arrives to setpoint.
		Pressing the key by 5 seconds, change the mode.

	Activated relay	Displayed on the screen when the boiler or pump is switched on and off. (CPI parameter OFF)

|	Relay in chronoproportional	The relay regulates proportionally, calculating when to switch on or off in order to reach the setpoint temperature in an optimal way, saving energy. (CPI parameter set to On)

	Holidays	For absences longer you can program to control the temperature & the days that you want to leave your home while you are away.
		Pressing key by 5 seconds to enter setup function.

Display Information
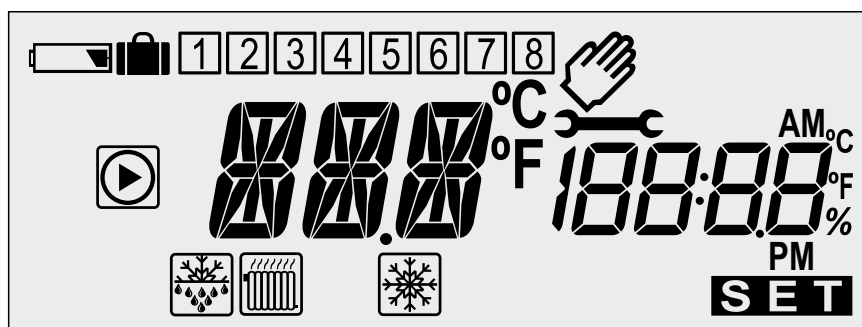
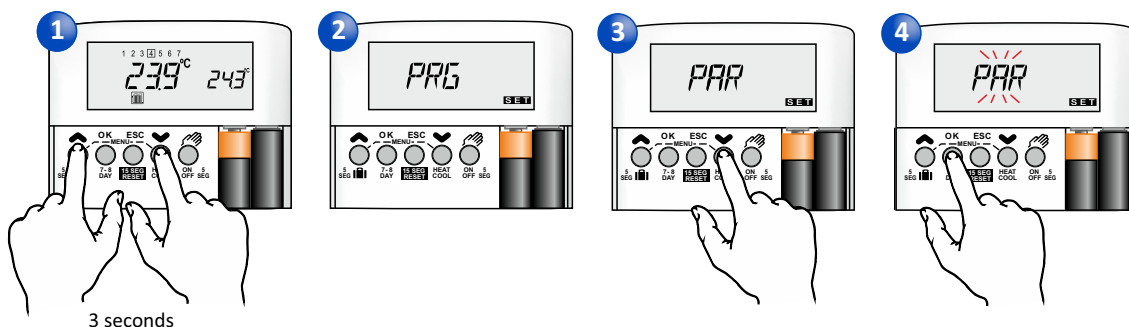|		
	Batteries	Shown on the display when the batteries status is low and should be changed.
	Days	The square will mark the current day and also the day on which the change is executable.
1 2 3 4 5 6 7 **8**	**Festive day**	Display shown the square mark in 8 number, it indicates that the next day is Sunday for the control, and they applies the sunday settings for that day. Pressing ESC cancels and also returns to automatic mode.
CNT	**Hours counter**	There are two counters one of total hours of operation of the valve, and another counter for partial hours (this can be cleared in menu).
	Valve protection	Active for one minute the valve or circulator pump to prevent damage from lack of use.
	Frost protection	The control does not allow the temperature drops below the limit temperature that supports the installation just before the water pipes from freezing. Setting from the factory at 6°C. To adjust go to menu within parameters.
	Reset	Pressing by 15 seconds the key deletes the custom settings of the parameters and return to the factory settings. Only save in memory the clock settings and the total hour counter.
20.3°C 24.6°C	**Digit**	The displays shows with big digits the reading ambient temperature and in smaller digits the temperature setpoint or current time.
20.3°C OPEn	**Open window**	Displayed on the screen when the regulation stops due to a sudden drop in temperature during the time programmed in the parameter (WND).

Display information
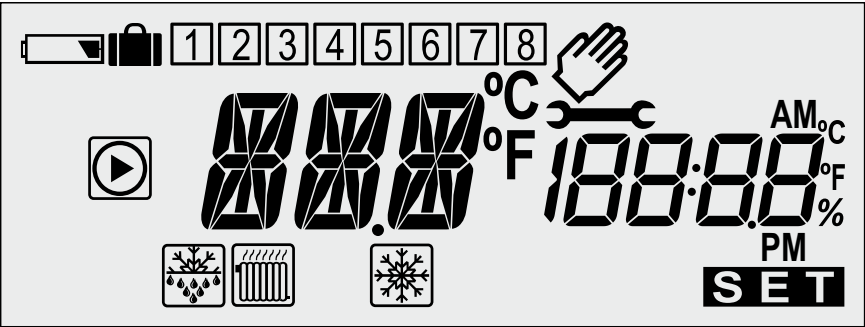
SET Programmation   Shown on display when you are within programming.
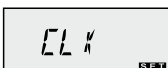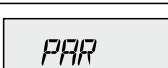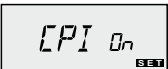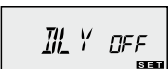
PAR   Parameters   Within the menu you can set the parameters that guide the
SET   operation of control, maximum and minimum temperature
          setpoint, calibration of internal temperature sensor, regulation
          mode heating / cooling, temperature differential for the
          activation of the boiler, temperature for Frost protection, time
          delay in the activation or deactivation valve protection,
          temperature units °C or °F and password access to programming
          or changes.

Menu

3 seconds

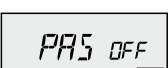|		
PRG SET	Programation	Allows you to configure up to 28 changes to regulate control in automatic mode.
VAC SET	Holidays function	Set the temperature at which it is to be home while you are away and days of absence, after those days, the control returns to automatic mode.
CNT SET	Hours counter	You will find two types of counter one with the total hours of operation and one with partial hours (this can be cleared each time you want by pressing the OK button)
CLK SET	Clock	Setting the time, day of week, day of month, month, year, format in which the time is displayed (12/24 hours), starting day for the week (Saturday / Sunday) see page 11.
PAR SET	Parameters	Adjustments that guide the operation of control, maximum and minimum temperature setpoint, calibration of internal temperature sensor, regulation mode heating / cooling, temperature differential for the activation of the boiler, temperature for Frost protection, open window function, action type relay all/nothing or modulating, time delay in the activation or deactivation valve protection, temperature units °C or °F and password access to programming or changes.

Factory set value

|				
MAX 350° SET	Max. temperature setpoint Scale: 6.0°C ... 35.0°C		**WND** 15 SET	Open Window Scale: OFF / ON (1 ... 30 minutes)
MIN 60° SET	Min. temperature setpoint Scale: 6.0°C ... 35.0°C		**CPI** On SET	Proportional Relay Scale: OFF / ON
CAL 00° SET	Sensor calibration Scale: -10.0°C ... 10.0°C		**DLY** OFF SET	Activation delay Scale: OFF / ON (1... 60 minuts)
MOD HEAt SET	Regulation mode Scale: HEAT / COOL		**PUP** OFF SET	Pump protection Scale: ON ... OFF
DIF 03° SET	Activation differential Scale: 0.1°C ... 3.0°C		**UNT** CELC SET	Temperature units Scale: Celsius °C / Fahrenheit °F
ANT 50° SET	Frost protection Scale: OFF / ON (4.0 ... 9.0°C)		**PAS** OFF SET	Password Scale: OFF / ON(0...9999)

8

Data shown on the display
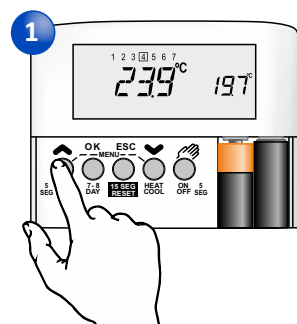
Setpoint temperature
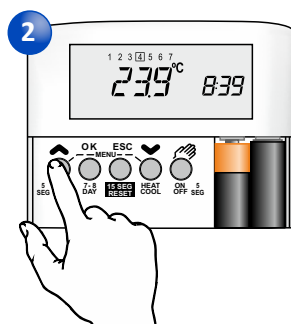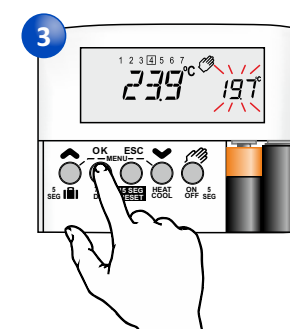

Current time
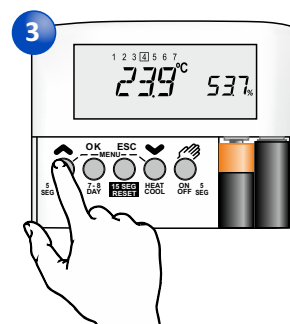
Relative humidity

Regulation in manual mode
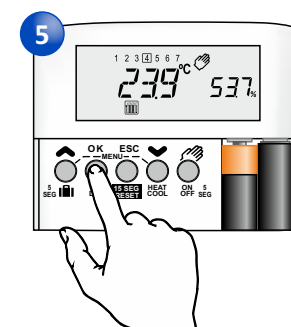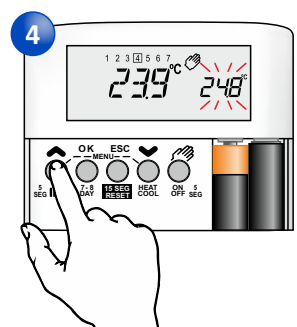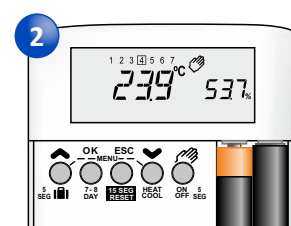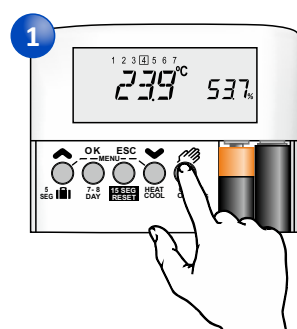
Operating with password
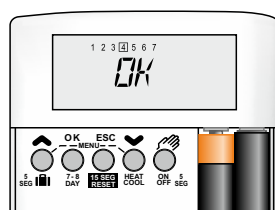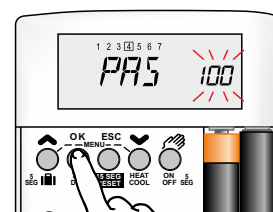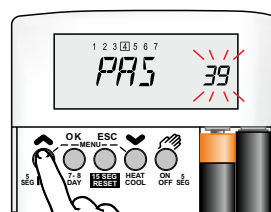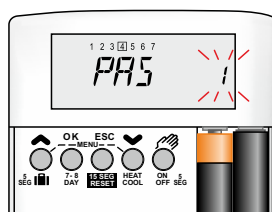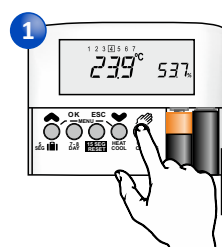
once introduced to control the correct password is stored in memory while manipulating the control & for two minutes more

9
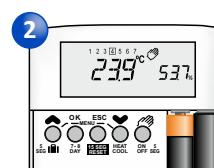
Programming for automatic mode

Programming example for automatic mode

Nr. change	Hour	Temperature	Independent days	Every days	Monday to friday	Saturday & Sunday
					Days	
1	6:00	22°C			X	
2	7:35	18°C			X	
3	8:10	22°C				X
4	10:00	18°C				X
5	13:00	22°C		X		
6	16:00	18°C		X		
7	18:00	22°C		X		
8	23:30	18°C		X		

Monday to Friday...... ①②③④⑤ 6 7   Monday.................① 2 3 4 5 6 7   Friday................. 1 2 3 4 ⑤ 6 7
Monday to Saturday.. ①②③④⑤⑥ 7   Tuesday................ 1 ② 3 4 5 6 7   Saturday...............1 2 3 4 5 ⑥ 7
Saturday & Sunday... 1 2 3 4 5 ⑥⑦   Wednesday............ 1 2 ③ 4 5 6 7   Sunday.............. 1 2 3 4 5 6 ⑦
Every day................. ①②③④⑤⑥⑦   Thursday................ 1 2 3 ④ 5 6 7

Programming for change: 1
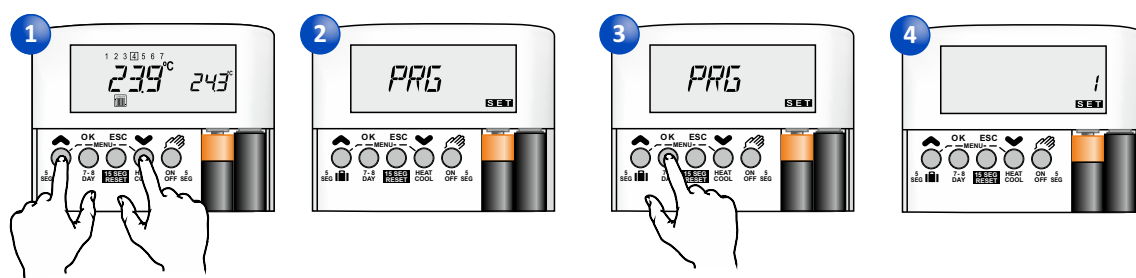
3 seconds
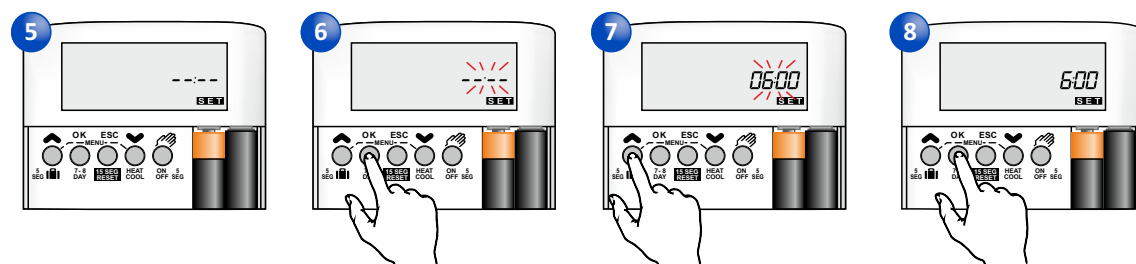
Press to adjust the
start time for change
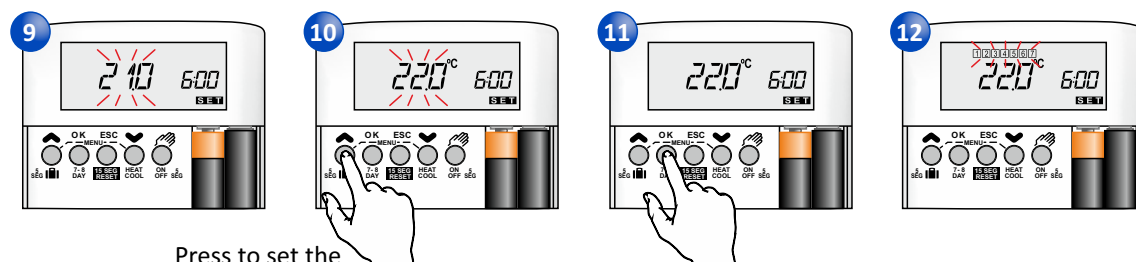
Press to set the
desired temperature
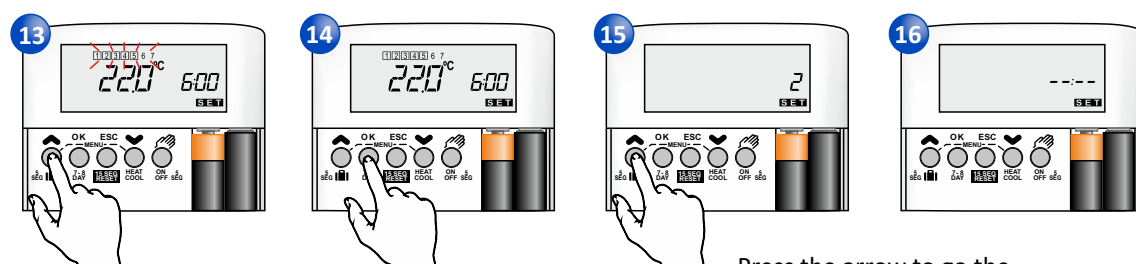
Press to set the
desired days

Change 1 is now
complete

Press the arrow to go the
next change & follow the
same proceedure

Regulation mode: Heating / Cooling

5 s

Festive day function

5 s

5 s
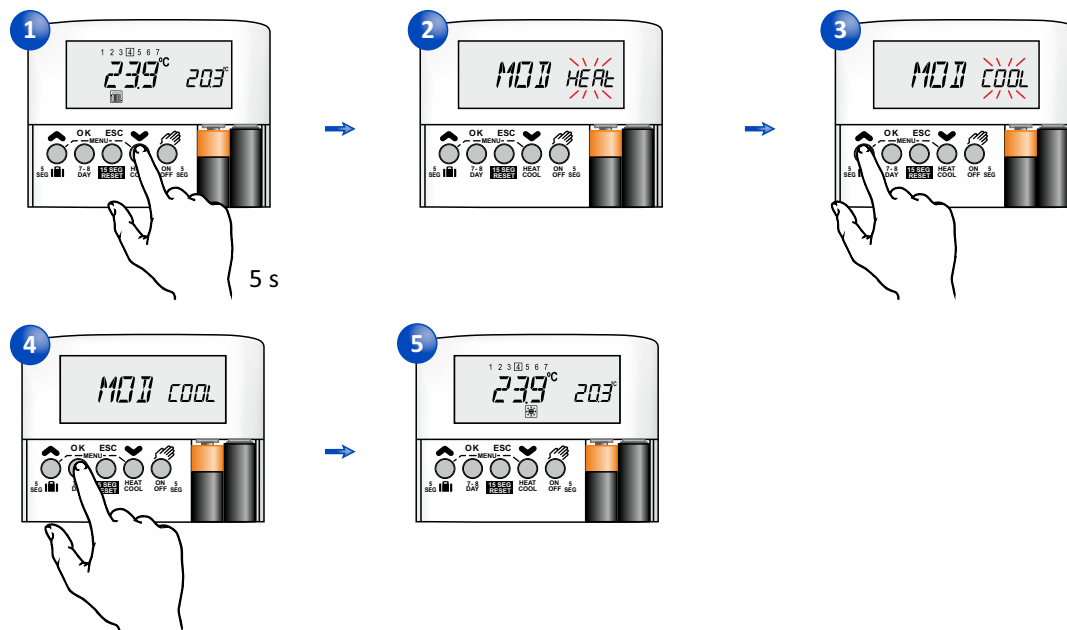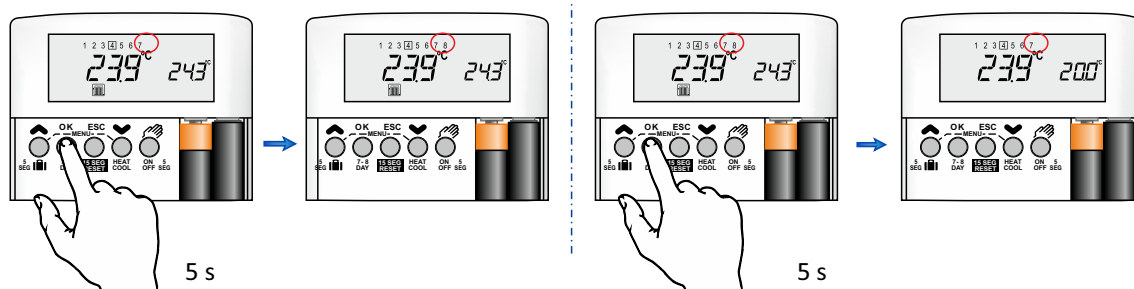
Configuration for Clock & Temperature units

Within menu

Clock settings

Hour format: 24 / 12hours

Week format
Mon = Monday first day
Sun = Sunday first day

Temperature units: °C/ °F

Holidays function

1 5 s

2

3

4 OFF/ 4 ... 35°C
OFF/ 42.8 ... 95°F

5

6
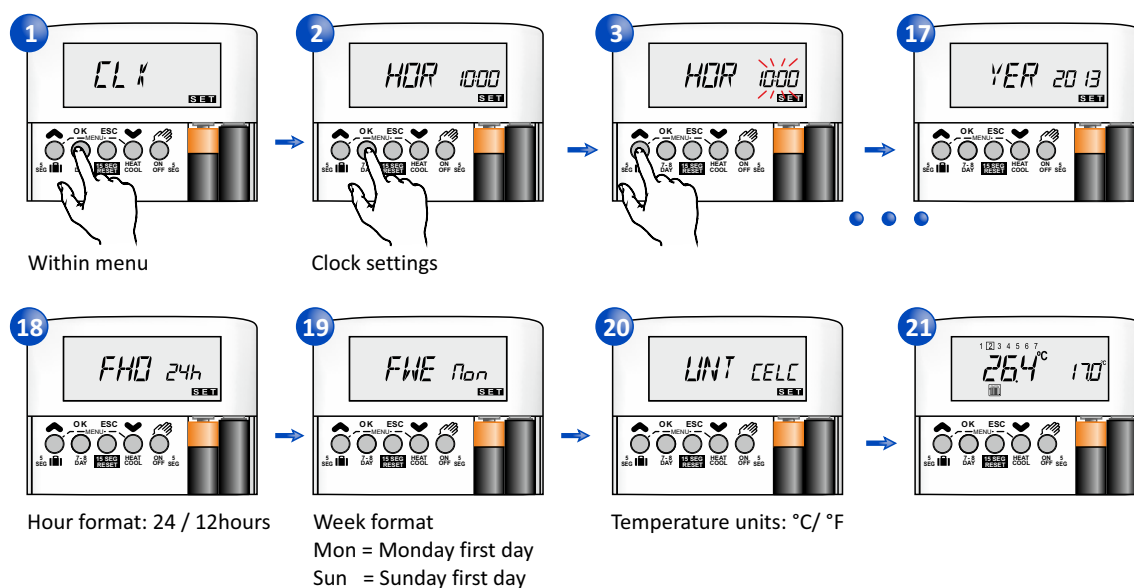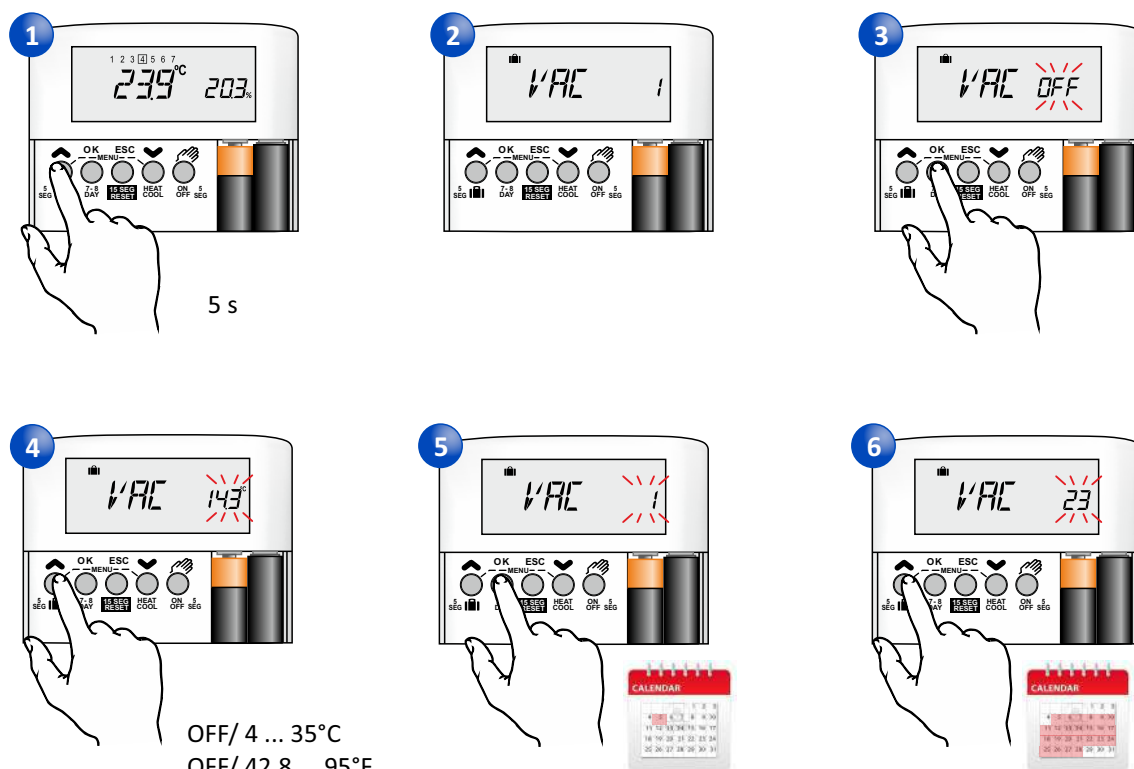
Disables the function

7 2 days later

Reset

1 15 s

2

3
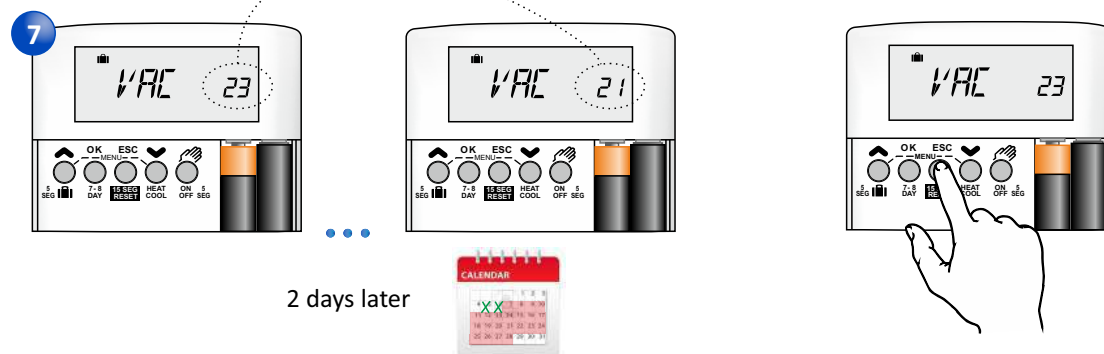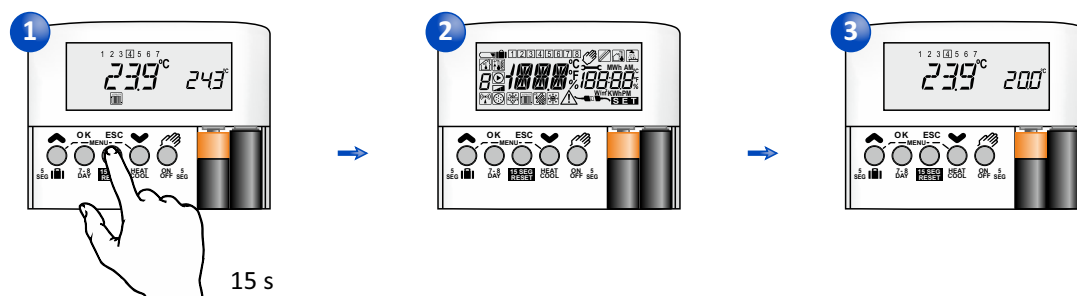
Guarantee Conditions

Note: Translation is informative, the only legally binding document is the written version of it in Spanish.

First of all thank you for the purchase and trust placed in the team. We hope that the thermostat Siesta meets the needs of your installation.

- Before installing the thermostat make sure that environmental conditions are suitable, temperature, humidity, pollution and greenhouse gas emissions, and that any of these factors may affect the efficient operation

- The device is an independent control device for surface mounting on a universal embedded box, and type 2 dry environment pollution.

- For any work, either as installation or repair, the regulator must be disconnected from the power supply.

- Electrical connections may only be indicated in this manual and on the sticker on the back of the cap connections.

- This controller is not a safety device or can be used as such, is responsible incorporate appropriate protection for each type of facility (homologated) by the installer.

- Installation, electrical connection, commissioning and maintenance must be performed only by qualified personnel.

- If visualize possible defects that could cause damage or malfunction in the system, do not connect the appliance.

- Forbidden the total or partial reproduction of this document by any means without prior written authorization of Sonder Regulación S.A.

- The graphics and information in this manual are indicative only and may include technical inaccuracies or typographical errors.

- Sonder Regulación S.A. reserves the right to make changes to the product, technical data, or instructions for assembly and use without notice.

This device has 3 year warranty, it is limited to replacement of the defective part and will be delivered in the same material reception conditions, packaging, batteries, instructions or any other accessory that includes this product will not be replaced and not be noted in the packing slip.

We decline any responsibility for damage caused to the appliance by bad handling, failure to follow instructions contained in this manual or technical ignorance of the needs of the installation.

For repairs under warranty must present the documentation that accredits purchase of the device within the validity period of this warranty and as accurate a description as possible of the defect or anomalous behavior of the product according to the user.

If the repair is out of warranty, it will inform the user of the viability and cost of it. The valuation of our technical department may be an additional cost to the user.

Are out of guarantee:

- Devices with serial number deteriorated, deleted or modified.

- Devices whose connection or use have not been implemented in accordance with the attached to the appliance.

- Devices modified without prior agreement with the manufacturer.

- Devices damaged by blows or liquid or gaseous emanations.

- Devices with natural wear or improper use of equipment.

- **The costs resulting from the sending or receipt of material.**

- The demands for damages on account of loss of profits, compensation for use, & consequential damages. Provided that these damages are not mandatory liability under the law.

3 YEARS WARRANTY · Sonder Regulación S.A. Energy Control

RoHS Compliant

MADE IN SPAIN

CE

Designed and manufactured by Sonder in Rubi as:
UNE-EN 60730-1 + A1:2005 + A12:2004 + A13:2005
UNE-EN 60730-2-1: 1998 + A11:2005

Tienda Online Sonder / Información Técnica   **www.sonderregulacion.com**

SONDER
Energy Control