

# Temperature control unit

item HC/HS/HD 4695

L/N/NT 4695

AM 5875

Installation manual





## CONTENTS

<b>1 INTRODUCTION</b>	<b>5</b>
1.1 Warnings and tips	5
1.2 Content of the package	5
<b>2 DESCRIPTION OF THE CONTROL UNIT</b>	<b>6</b>
2.1 General features	6
2.2 The front	7
2.3 The main screen	8
2.4 Mode of operation	11
<b>3 INSTALLATION</b>	<b>12</b>
3.1 Configuration	13
3.2 Changing the batteries	13
<b>4 SWITCHING ON FOR THE FIRST TIME</b>	<b>15</b>
<b>5 MAIN MENU</b>	<b>16</b>
5.1 Visualize zones	17
5.2 Mode	18
5.2.1 Weekly	19
5.2.2 Manual	19
5.2.3 Holiday	20
5.2.4 Holidays	21
5.2.5 Timed	22
5.2.6 OFF	22
5.2.7 Antifreeze / Thermal protection	22
5.3 Programming	23
5.3.1 Weekly	24
5.3.2 Holiday	32

CONTENTS

5.4 Setup	35
5.4.1 Summer/Winter	36
5.4.2 Temperature	37
5.4.3 Date/Time	38
5.4.4 Standard time	39
5.4.5 Remote control	40
5.4.6 Contrast	41
5.4.7 Screen saver	42
5.4.8 Language	43
5.4.9 External temperature	44
5.5 Maintenance	45
5.5.1 Configure zones	46
5.5.2 Diagnostic	56
5.5.3 Probe setting	59
5.5.4 System test	60
5.5.5 Total reset	61
<b>TECHNICAL DATA</b>	<b>62</b>
<b>TROUBLESHOOTING</b>	<b>63</b>

## 1 INTRODUCTION

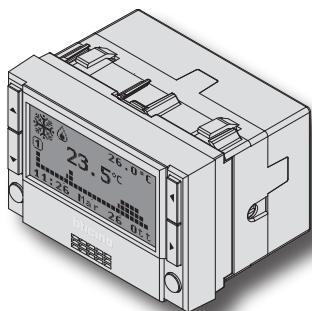
### 1.1 Warnings and tips

Before proceeding with the installation this manual should be read carefully, because the guarantee is automatically cancelled in the event of negligence, incorrect manoeuvre or improper use or if unauthorised people tamper with the circuit.

Moreover it is cancelled when the fault is due to strong accidental overvoltages on the power supply network. Thus if the Control Unit is installed in a place which is subject to violent atmospheric discharges (*storms*), suitable protection must be installed on the power supply line and it must be connected to the earth as rigorously as possible, in accordance with local regulations.

### 1.2 Content of the package

- Temperature Control unit item 4695
- Temperature Control unit user manual
- CD-ROM containing:  
Temperature Control unit installation manual  
TiThermoBasic software  
TiThermoBasic user manual



## 2 DESCRIPTION OF THE CONTROL UNIT

### 2.1 General features

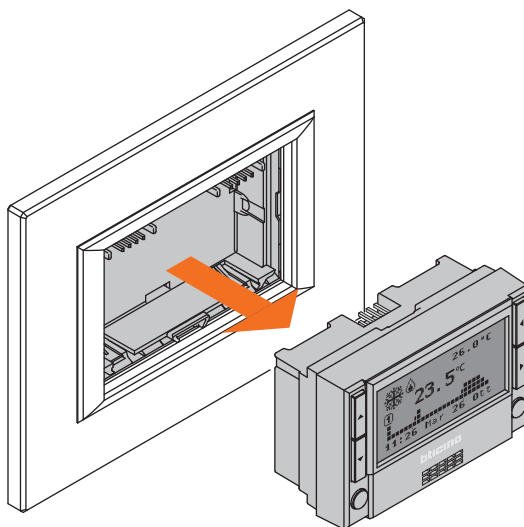
*The temperature control unit item 4695 is a control and adjustment device for My Home temperature control systems.*

*It can be used with heating and air conditioning systems. It can control systems with up to 4 zones, one of which is directly controlled (LOCAL ZONE). It enables setting of the system's parameters and modification of the operating modes.*

*Operation software is also included, with menus displayed on the backlit screen. The user can display the state and temperature of the zones, select the operating mode, display and set the daily temperature profiles as well as the weekly and holidays programs parameters. The zones can also be configured, and diagnostics for the whole system can be carried out.*

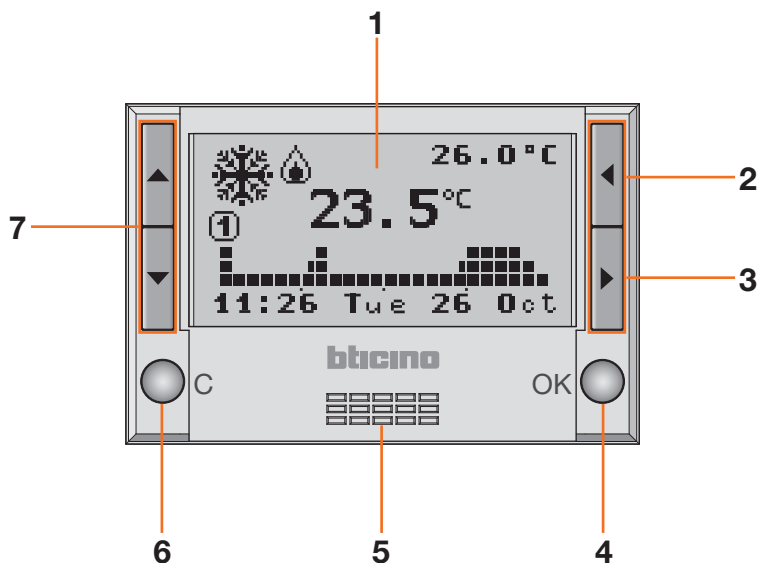
*The temperature control unit is made up of a fixed base connected to the system bus and with pull-off front, to let the user program it and change the batteries more easily.*

*The Control panel must be configured by installing the configurators in their seats (see 3.1 Configuration); programming and configuration of the system can be done using the TiThermoBasic software in the CD supplied.*



## 2 DESCRIPTION OF THE CONTROL UNIT

### 2.2 The front



- 1 -Graphic display:** displays the messages which guide the programming operations and the system state.
- 2 - ◀ selection key:** while the main screen is displayed, when the local zone manages fan-coil actuators it can cycle between the operation speeds; inside the menu it can scroll any functions to the left.
- 3 - ▶ selection key:** while the main screen is displayed, when the local zone manages fan-coil actuators it can cycle between the operation speeds; inside the menu it can scroll any functions to the right.
- 4 -OK key:** enters the main menu, confirms the displayed selection or the entered data.
- 5 -Sensor:** measures the temperature of the local probe.
- 6 -C key:** cancels the selection and returns to the previous page. Keep it pressed to return to the main screen.
- 7 - ▲▼ scroll keys:** these let you change the set temperature while the main screen is being viewed just on the local zone; when inside the menu, you can scroll the list of the options available.

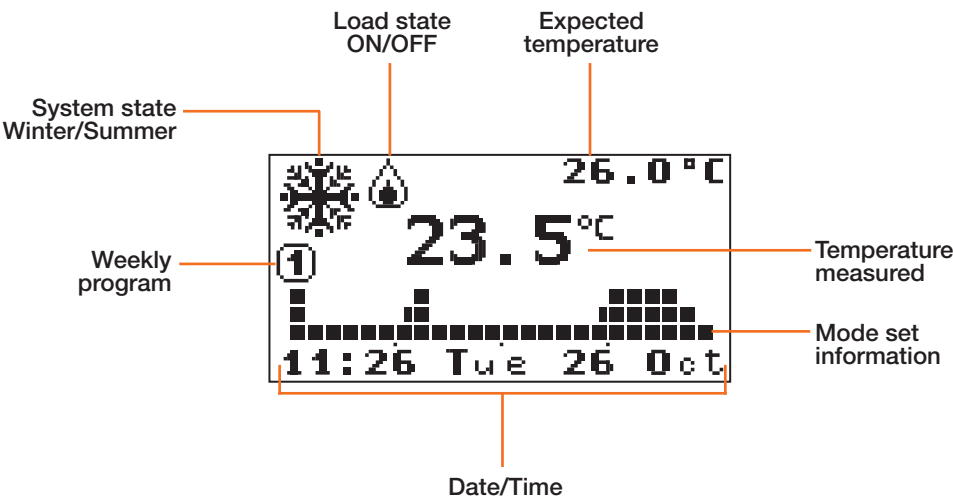
## 2 DESCRIPTION OF THE CONTROL UNIT

### 2.3 The main screen

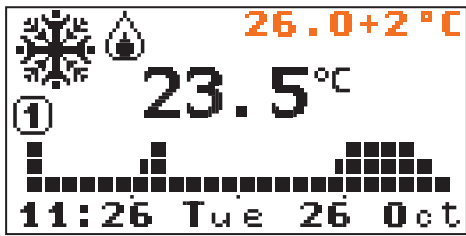
In the idle conditions a screensaver, which can be selected by the user among the ones installed, will be displayed. Press any key to switch the display on and display the main screen.

#### Background information


During normal operation the display shows the following information:



Depending on the set mode, the temperature of the whole profile (weekly or holiday) or the set point (manual timer), can be changed by  $\pm 3^{\circ}\text{C}$  intervals using the  $\blacktriangle$   $\blacktriangledown$  keys on the main screen.



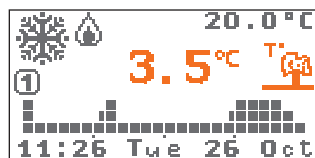
With the  $\blacktriangleright$  key you can cycle between the mode selected (E.g.: Weekly), Antifreeze or Thermal protection and OFF; the new local mode flashes, but is not active: press **OK** to select it.

 *Editing the offset with the  $\blacktriangle$   $\blacktriangledown$  keys and the cycling between the modes with the  $\blacktriangleright$  key only have effect on the local zone and not on the whole system.*



## 2 DESCRIPTION OF THE CONTROL UNIT

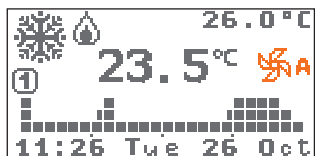
### Signalling icon



### External temperature

If the system is connected to a suitably configured external probe and the function (SETUP > External temperature) has been activated on the menu, the internal and external temperatures will alternate on the screen at two seconds intervals.

When the external temperature is being displayed, the relevant icon will be also displayed near the Celsius value. Where applicable, this icon will alternate with the fan-coil mode icon.



### Fan-coil

The display shows (except in the OFF mode) whether the loads associated to the local zone are fan-coil.

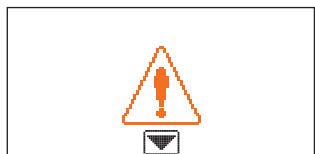
The indication of the fan speed management mode appears at the side of the icon: "A" automatic; "1" minimum, "2" medium and "3" maximum



### Battery

Battery flat signal icon.

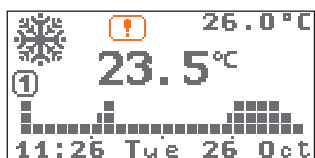
The display shows when the battery voltage drops below 2V; if the device does not have batteries the icon does not appear.



### Caution

Fault signal icon.

If there is an error on one of the controlled zones the triangular caution icon is displayed. Press any key to access the Diagnostic menu.



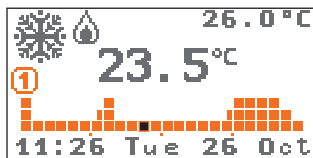
If the problem is not solved the Control unit will continue to give a signal on the main screen.

If both the battery flat signal and the zone error signal appear, the icons will be displayed alternately.

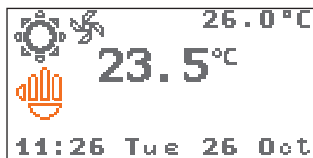
2 DESCRIPTION OF THE CONTROL UNIT

Mode information

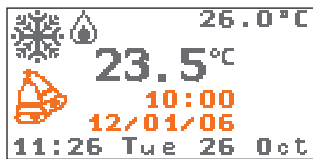
The following symbols will appear on the display, depending on the selected mode:



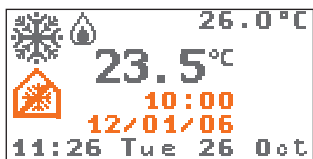
**Weekly**  
Daily temperature profile and active program number  
*The range corresponding to the current time will flash on the graph (for example, 11:26 will flash on the square corresponding to the time from 11:00 to 12:00).*



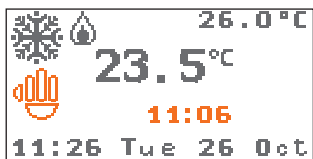
**Manual**  
Manual mode Icon



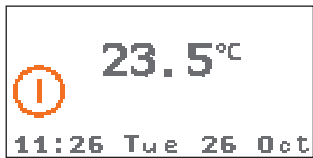
**Holiday**  
Icon of the mode and time/date of Holiday program end



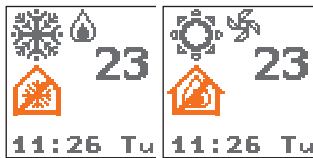
**Holidays**  
Antifreeze or Thermal protection Icon, time and date of Holidays program end



**Timed**  
Manual mode Icon, number of hours and minutes to the end of the Timed program



**OFF**  
OFF mode Icon



**Antifreeze/Thermal protection**  
Antifreeze (winter) or Thermal protection (summer) mode Icon

## 2 DESCRIPTION OF THE CONTROL UNIT

### 2.4 Mode of operation

#### Weekly

3 weekly programs can be created for each of the two functions (*heating and cooling*); daily temperature profiles (0h – 24h), different for each day of the week and for each zone, can be defined for each of these.

#### Manual

In this mode a fixed temperature can be set for all the zones of the system, without time settings.

#### Holiday

The Holiday mode can select a particular daily profile for a set period. The program is run until the date and time programmed, after which the weekly program selected is reset.

#### Holidays

This mode keeps the system in Antifreeze or Thermal protection until the date and time set. At the end the weekly program selected is reset.

#### Timed

The Timed setting is used to set a fixed temperature for all areas for a certain period of time (hours and minutes up to a maximum of 24 hours and 59 minutes). Once this period has expired, the previous settings will be restored.

#### OFF

When this mode of operation is entered the Control Unit switches off all the system until one of the other modes is reset.

#### Antifreeze / Thermal protection

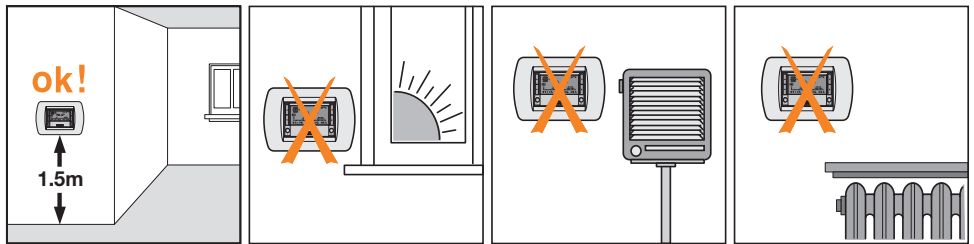
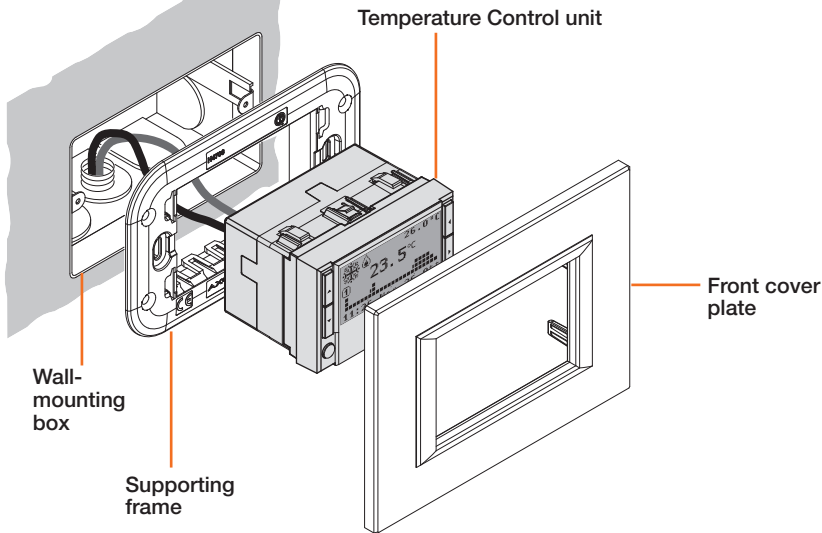
In this mode the system sets the antifreeze or thermal protection temperature on the whole system or on the individual zone on the basis of the current system function (summer/winter).



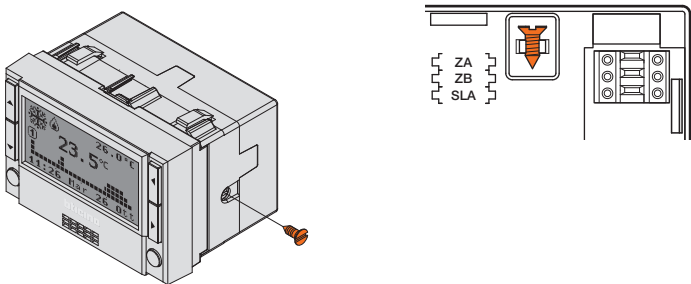
Factory setting - Mode: **Weekly** - program **EXAMPLE**

3 INSTALLATION

The Temperature Control unit must be installed using boxes, supporting frames and cover plates of the same series: Axolute, Living International, Light or Light Tech (3 DIN modules).



Removal of the Control unit can be prevented (e.g. public establishments) using the screw provided on the back of the base.



## 3 INSTALLATION

### 3.1 Configuration

The temperature Control unit is fitted with an integrated temperature probe and must therefore be configured. The configuration seats on the back of the Control unit, dedicated to the integrated probe, are: [ZA], [ZB] e [SLA]. During the configuration operation the seats [ZA] and [ZB] must always be used by inserting two configurators that identify the address, and therefore the number of the zone controlled by the probe. Although it is not necessary to start with zone 01, it is however imperative that the zones following the Control unit address are allocated the next higher value. The configuration procedure is completed by using the “Configuration zone” menu of the Control unit and activating the “Learning” function.

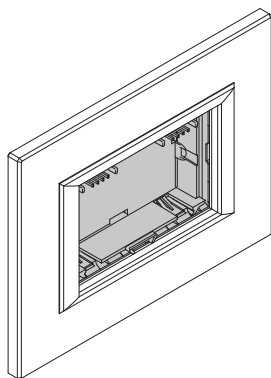
It is also possible to program the device and configure the system using the TiThermoBasic software included.

During programming all functional parameters of the Control unit and the system can be customised. These parameters can then be downloaded from the PC to the Control unit through a serial port. It is also possible to upload all information from the Control unit to the PC, for example when changes to previously set parameters are needed. Downloading and uploading of data can only be done using an USB cable **item 3559**. This cable is an accessory that is not included in the Control unit package and must therefore be purchased separately.

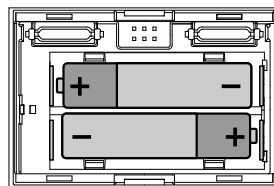
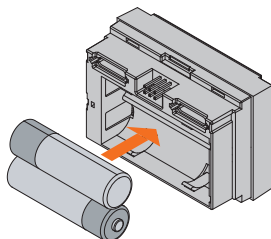
### 3.2 Changing the batteries

When the display shows the following symbol  change the batteries.

The entered data are saved when the batteries are being changed.

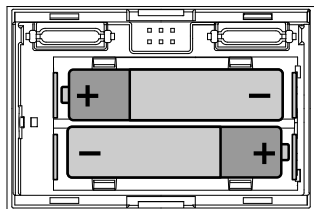


- Take the Control unit out of its base
- Put in 2 LR6/AA 1.5V alkaline batteries respecting the polarities shown in the drawing.



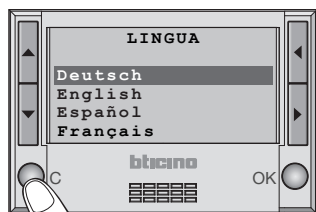
*The device is supplied from bus. The two batteries are just used for the programming from PC operations when the Control unit is not inserted on its base and to avoid being out of step with the time when there is no power supply from the bus. The device can however be installed without the aid of batteries. Do not leave the batteries in the device when there will be no power from the bus for a long time, because they would go flat in a few days.*

## 4 SWITCHING ON FOR THE FIRST TIME



- Insert 2 x 1.5V LR6/AA alkaline batteries as shown in the drawing.

### Language selection

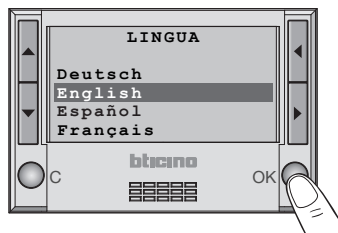


The Control unit display will show the **LANGUAGE** menu. The first language is highlighted.

The system is factory set to **Italian**.

- If the **C** key is pressed, the language selected remains Italian. The user will be asked again to set the language the next time the device is switched on.

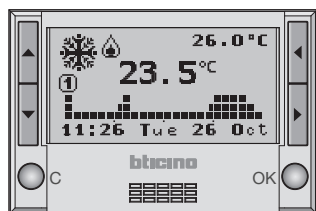
Or



- Use the ▲▼ keys to scroll through the list and select the desired language. Press **OK** to confirm.

The selected language will be kept even if the Control unit is switched off and on again. However, if a total reset of the system is carried out, the language setting will be lost and will have to be reset.

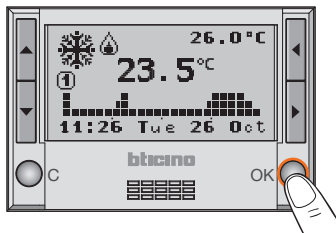
- Insert the Control unit in the base, connected to the Bus.



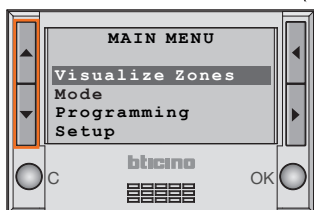
The Control unit display shows the main screen.

## 4 SWITCHING ON FOR THE FIRST TIME

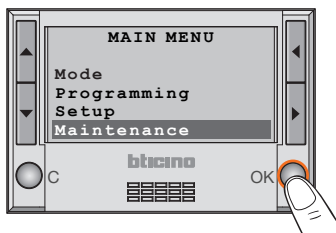
### Access the Maintenance menu



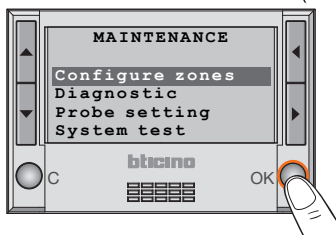
- Press the **OK** key to access the **MAIN MENU**



- With the **▲▼** keys scroll the list and select **Maintenance**



- Press the **OK** key to access the **Maintenance Menu**



- Press the **OK** key to access the **Configure zones Menu**

To activate the temperature Control unit the system must be configured using the following procedures:

See **Chapter 5 > MAIN MENU > MAINTENANCE > Configure zones**

- **Learning** - it enables to detect the configuration of the zones within the system
- **Rename** - is used to rename the zones
- **Actuators** - is used for the configuration of the zone actuators
- **Pumps** - is used for the configurations of the pumps of the zones

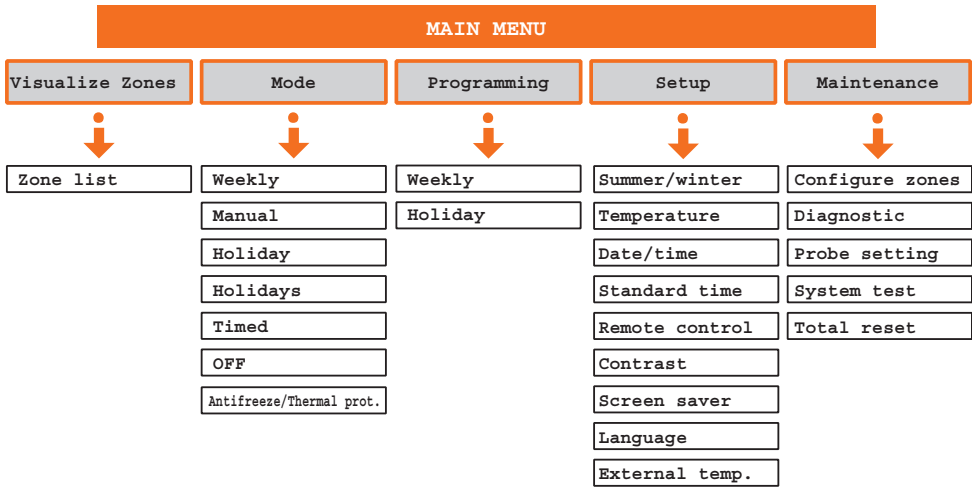
Insert date and time **SETUP > Date/time**

and define the system operating mode **SETUP > Summer/Winter**

5 MAIN MENU

The menu structure

The MAIN Menu gives access to programming, configuration and customisation menus that enable the user to make the most of the Control unit features and fulfil all their requirements.



General menu observations

All menus are cyclical. This means that when the last menu item is selected, pressing the ▼ key will move the cursor to the first item. When the first item is selected, pressing the ▲ key will move the cursor to the last item.



If during navigation no key is pressed for 30 second the light on the screen will go off and the screen saver will automatically start. This time-out is extended to 2 minutes when the display is showing the daily profile update screen. If the Maintenance menu is displayed, the light of the screen will go off after 30 seconds but the screen-saver will not start. The Control unit will remain on the same menu and pressing any key will reactivate the light.



## 5 MAIN MENU

Visualize Zones

Mode

Programming

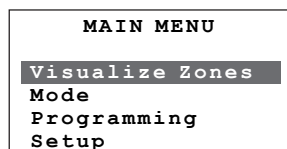
Setup

Maintenance

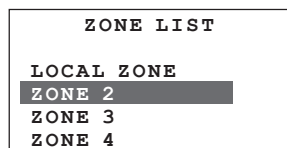
### 5.1 Visualize Zones

Is used to display the following information on the status of the selected zone:

- actual zone temperature
- set zone temperature (except when in the OFF mode)
- summer/winter symbol (except when in the OFF mode)
- load status: on/off
- selected mode information
- zone name
- any errors on the zone
- fan-coil mode symbol, if applicable

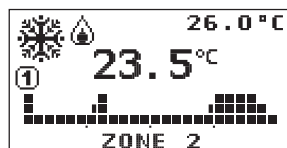
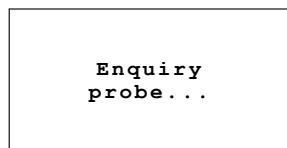


OK to confirm



With the ▲▼ keys select the zone

OK to confirm

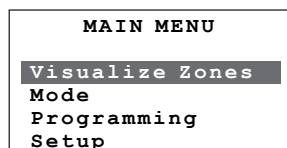


*Differently from the main screen, no parameters can be changed here (e.g. setpoint or mode) by operating the keys. This screen can only be used for displaying the full status.*

With the keys:

▲▼ displays the following/previous zone

C to return to the previous screen



5 MAIN MENU

Visualize Zones

Mode

Programming

Setup

Maintenance

5.2 Mode

This mode can select the mode of operation in every zone of the system; the active mode are identified by the highlighted identification code.

Active mode

MODE

1:Weekly

2:Manual

3:Holiday

4:Holidays

To access the MODE menu.

MAIN MENU

Visualize Zones

Mode

Programming

Setup

With the ▲ ▼ keys select **Mode**

**OK** to confirm

MODE

1:Weekly

2:Manual

3:Holiday

4:Holidays

The menu includes the following Operating modes:

- 1 : **Weekly** - 3 Winter programs, 3 Summer programs
- 2 : **Manual** - constant temperature in all the system
- 3 : **Holiday** - “Holiday” program for each zone
- 4 : **Holidays** - system in antifreeze or thermal protection until the date and time set
- 5 : **Timed** - Manual mode for a set time
- 6 : **OFF** - all zones in OFF
- 7 : **Antifreeze** - one or more zones in Antifreeze or Thermal protection

## 5 MAIN MENU

Visualize Zones

**Mode**

Programming

Setup

Maintenance

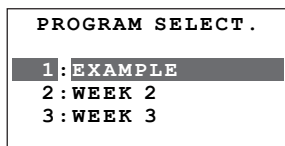
### 5.2.1 Weekly

Can set a weekly program selected from those programmed.



With the ▲▼ keys select **Weekly**

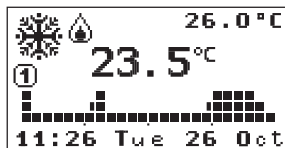
**OK** to confirm



With the ▲▼ keys select the weekly program required

*If the Weekly operating mode is selected, the number identifying the active program is highlighted.*

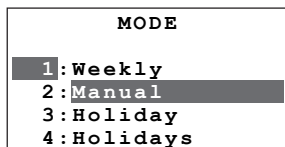
**OK** to confirm



*The main screen is displayed, showing the program set.*

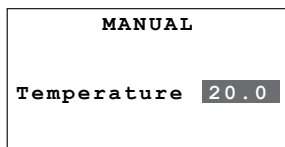
### 5.2.2 Manual

This can set a constant temperature in all the system.



With the ▲▼ keys select **Manual**

**OK** to confirm



With the ▲▼ keys increase or decrease the temperature value by 0.5°C

**OK** to confirm

*The main screen is displayed, showing the program set.*

5 MAIN MENU

- Visualize Zones
- Mode
- Programming
- Setup
- Maintenance

5.2.3 Holiday

The Holiday mode can select a particular daily profile for a set period. The program is run until the programmed date and time, after which the weekly program chosen will be reset.

MODE

1: Week

2: Manual

3: Holiday

4: Holidays

With the ▲▼ keys select **Holiday**

OK to confirm

HOLIDAYS

up to 00:00

of 08/07/07

With the ▲▼ keys increase or decrease the figure selected

With the ◀▶ keys position the cursor on the date and time figure to modify

OK to confirm

END HOLIDAYS

1: EXAMPLE

2: WEEK 2

3: WEEK 3

With the ▲▼ keys select the weekly program which will be activated at the end of the Holiday day

OK to confirm

The main screen is displayed, showing the program set.

## 5 MAIN MENU

Visualize Zones

**Mode**

Programming

Setup

Maintenance

### 5.2.4 Holidays

This mode keeps the system in Antifreeze or Thermal protection until the set date and time, after which the weekly program chosen will be reset.

- Antifreeze (7°C factory value, can be changed using SETUP > Temperature)
- Thermal protection (35°C factory value, can be changed using SETUP > Temperature)

```

MODE
1:Weekly
:Manual
3:Holiday
4:Holidays
    
```

With the ▲▼ keys select **Holidays**

**OK** to confirm

```

HOLIDAYS
up to 00:00
of 08/07/07
    
```

With the ▲▼ keys increase or decrease the figure selected

With the ◀▶ keys position the cursor on the date and time figure to modify

**OK** to confirm

```

END HOLIDAYS
1:EXAMPLE
2:WEEK 2
3:WEEK 3
    
```

With the ▲▼ keys select the weekly program which will be activated at the end of the Holidays period

**OK** to confirm

*The main screen is displayed, showing the program set.*

5 MAIN MENU

- Visualize Zones
- Mode
- Programming
- Setup
- Maintenance

5.2.5 Timed

Lets you run the manual mode on all the zones for a set time

MODE

2:Manual

3:Holiday

4:Holiday

5:Timed

With the ▲▼ keys select **Timed**

**OK** to confirm

TIMED

Temp: 20.0

Time: 00:00

With the ▲▼ keys increase or decrease the temperature by 0.5, hours and minutes by 1.

With the ◀▶ keys change from temperature to hours and minutes

**OK** to confirm

5.2.6 OFF

Lets you switch all the system zones OFF.

MODE

3:Holiday

4:Holiday

5:Timed

6:OFF

With the ▲▼ keys select **OFF**

**OK** to confirm

5.2.7 Antifreeze/Thermal protection

Lets you set the Antifreeze or Thermal protection temperature in all the system zones.

MODE

4:Holiday

5:Timed

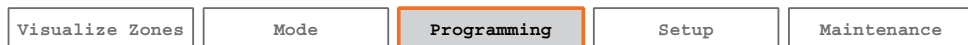
6:OFF

7:Antifreeze

With the ▲▼ keys select **Antifreeze**

**OK** to confirm

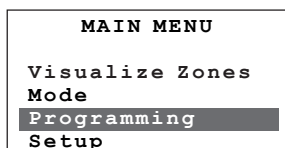
## 5 MAIN MENU



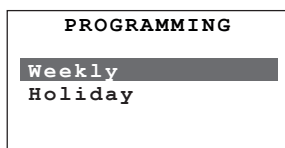
### 5.3 Programming

This menu is used to create or change the weekly operating programs of the Control unit.

To access the PROGRAMMING menu:



With the ▲ ▼ keys select **Programming**



**OK** to confirm

The menu includes the following programs:

- **Weekly** - 3 Winter programs, 2 Summer programs
- **Holiday** - "Holiday" program for each zone

5 MAIN MENU

Visualize Zones

Mode

Programming

Setup

Maintenance

5.3.1 Weekly

Can create up to 3 weekly programs for each of the system modes of operation (heating and cooling). Different daily temperature profiles (0h – 24h) can be defined for each day and each zone.

PROGRAMMING

Weekly

Holiday

With the ▲▼ keys select **Weekly**

**OK** to confirm

PROGRAM SELECT.

EXAMPLE

WEEK 2

WEEK 3

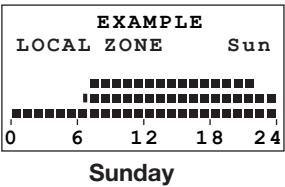
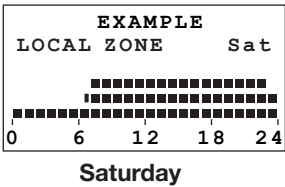
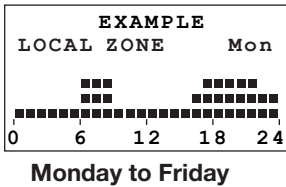
Rename

The following functions are available for the program selected:

- Rename Can rename the weekly program
- Modify Can modify the weekly program
- Copy from Can copy a weekly program
- Visualize Can display the daily profiles associated with each zone
- Erase Can erase a weekly program

Use the ◀▶ keys to select the function required

**Note:** the “Example” program is preset but can be modified





## 5 MAIN MENU

Visualize Zones

Mode

**Programming**

Setup

Maintenance

### 5.3.1.1 Rename

This function can rename the weekly program selected (max 13 characters).

PROGRAM SELECT.

EXAMPLE

WEEK 2

WEEK 3

Rename

With the ▲▼ keys select the program to be renamed (E.g.: WEEK 2)

**OK** to confirm

PROGRAM SELECT.

EXAMPLE

WINTER WEE

WEEK 3

Memorize

Use the ◀▶ keys to position the cursor on the character you want to change; use the ▲▼ keys to scroll the alphanumeric characters (only uppercase), numbers and special characters, starting from the one that is selected:

PROGRAM SELECT.

EXAMPLE

WINTER WEEK

WEEK 3

Modify

**OK** to confirm (changes into Modify)

**C** to cancel

**C** to return to the previous page.

5 MAIN MENU

- Visualize Zones
- Mode
- Programming
- Setup
- Maintenance

5.3.1.2 Modify

This function can modify the weekly program selected, associating a daily profile to each zone.

PROGRAM SELECT.  
EXAMPLE  
WEEK 2  
WEEK 3  
◀ Modify ▶

With the ▲▼ keys select the program to modify (e.g.: EXAMPLE)

OK to confirm

CHOICE DAY  
Friday  
Saturday  
Sunday  
◀ Modify ▶

With the ▲▼ keys select the day of the week (e.g.: Sunday)

OK to confirm

◀ Copy from ▶

With the ◀▶ keys select the following function:  
**Copy from** - this function enables the user to copy the program from another **day** that has already been programmed.

ZONE SELECTION  
LOCAL ZONE  
ZONE 2  
ZONE 3  
◀ Modify ▶

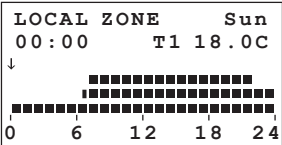
With the ▲▼ keys select the zone (e.g.: LOCAL ZONE)

OK to confirm

◀ Copy from ▶

◀ Visualize ▶

With the ◀▶ keys select the following functions:  
**Copy from** – this function enables the user to copy the programming parameters from another **zone** that has already been programmed for the selected day and the **Visualize** function to display the day profile.



The profile displayed can be modified.  
For more information see the example in the following pages.

## 5 MAIN MENU

Visualize Zones

Mode

**Programming**

Setup

Maintenance

### 5.3.1.3 Copy from (weekly program)

This function can copy a weekly program.

```

PROGRAM SELECT.
EXAMPLE
WEEK 2
WEEK 3
Copy from
    
```

**OK** to confirm

```

COPY FROM
EXAMPLE
WEEK 2
WEEK 3
Copy from
    
```

With the ▲▼ keys select the program from which to copy (E.g.: EXAMPLE)

**OK** to confirm

```

Copy
from:EXAMPLE
to: WEEK 2
    
```

```

PROGRAM SELECT.
EXAMPLE
WEEK 2
WEEK 3
Copy from
    
```

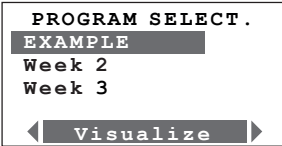
With the ▲▼ keys it is possible to select another program where to copy,  
or  
press **C** to return to the previous page

5 MAIN MENU

- Visualize Zones
- Mode
- Programming
- Setup
- Maintenance

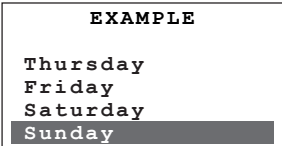
5.3.1.4 Visualize

This function can display the daily profiles associated with each zone.



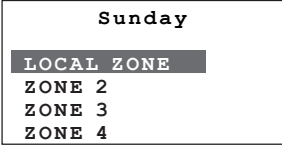
With the ▲▼ keys select the program

OK to confirm

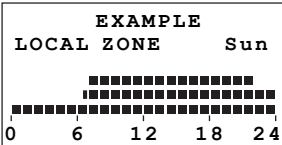


With the ▲▼ keys select the day

OK to confirm



With the ▲▼ keys select the zone



With the ▲▼ keys it is possible to display the other zones  
or  
press OK or C to return to the previous page

## 5 MAIN MENU

Visualize Zones

Mode

**Programming**

Setup

Maintenance

### 5.3.1.5 Erase

This function can erase a weekly program resetting the default name, the profiles of all the zones and putting the program into antifreeze or thermal protection.

```

PROGRAM SELECT.
EXAMPLE
WINTER WEEK
WEEK 3
Erase
    
```

With the ▲▼ keys select the program to be erased

**OK** to confirm

```

Erasing of
WINTER WEEK
YES NO
    
```

With the ◀▶ keys select **YES**

**OK** to confirm

```

PROGRAM SELECT.
EXAMPLE
WEEK 2
WEEK 3
Erase
    
```

With the ▲▼ keys it is possible to select another program to delete

**C** to return to the previous page

*The cancelled programs are reset to all the factory settings (profile and name).*

5 MAIN MENU

Visualize Zones

Mode

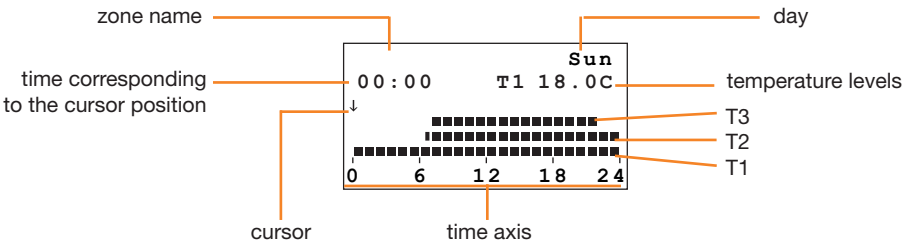
Programming

Setup

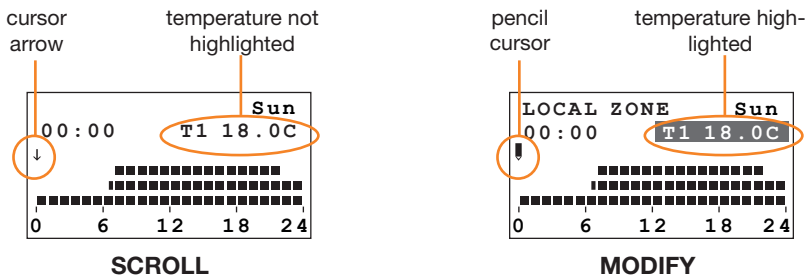
Maintenance

Daily profile modification tools

Information shown on the display:



There are two modes of work:



How to use the cursor keys:

- ◀▶ move the cursor along the time axis
- ▲▼ change from SCROLL mode to MODIFY, in the MODIFY mode scroll the three temperature levels
- OK change from MODIFY mode to SCROLL in SCROLL mode confirms quitting **Modify**
- C returns to the previous page without saving

## 5 MAIN MENU

Visualize Zones

Mode

**Programming**

Setup

Maintenance

### Create a new daily profile

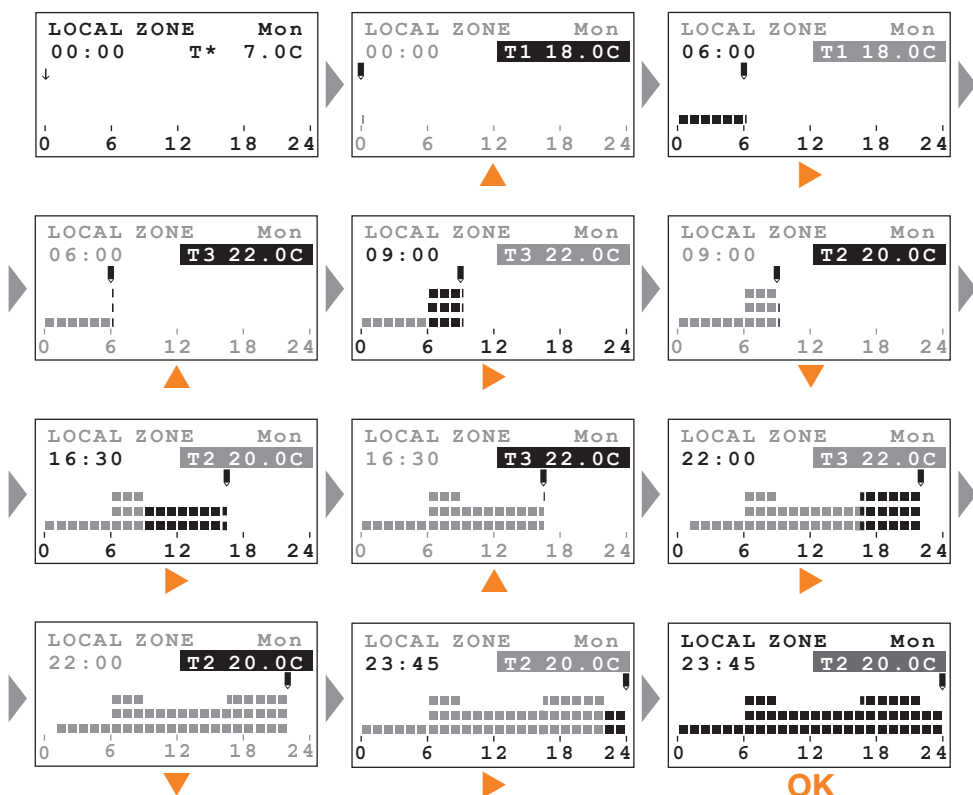
We recommend following the procedure in this example carefully. This will give the user the opportunity to learn to use the MODIFY and SCROLL operating modes and to use the navigation keys.

**Example:** creation of the Monday daily temperature profile.

- 1 - from 00:00 to 06:00 - 18°C (T1)
- 2 - from 06:00 to 09:00 - 22°C (T3)
- 3 - from 09:00 to 16:30 - 20°C (T2)
- 4 - from 16:30 to 22:00 - 22°C (T3)
- 5 - from 22:00 to 24:00 - 20°C (T2)

**Temperature levels set**  
T1= 18°C - T2= 20°C - T3= 22°C

Procedure:



At the end of the procedure, it will be possible to use the **"Copy from"** function to copy the **"Monday"** profile set, to the other days of the weekly program.

5 MAIN MENU

Visualize Zones

Mode

Programming

Setup

Maintenance

5.3.2 Holiday

Can program a daily profile for each zone (as base the profile of the Sunday of the Example program is associated with each zone).

PROGRAMMING

Weekly

Holiday

With the ▲▼ keys select **Holiday**

**OK** to confirm

ZONE SELECTION

LOCAL ZONE

ZONE 2

ZONE 3

◀ Modify ▶

*The following functions are available for the program selected:*

- ◀ Modify ▶ Can modify the daily profile of the individual zones
- ◀ Copy from ▶ Can copy the profile from another zone
- ◀ Visualize ▶ Can display the daily profile associated with the zone

Use the ◀▶ keys to select the function required.



## 5 MAIN MENU

Visualize Zones

Mode

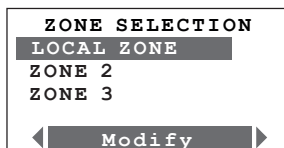
**Programming**

Setup

Maintenance

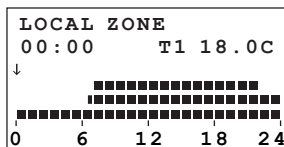
### 5.3.2.1 Modify

This function can modify the daily profile associated with a zone.

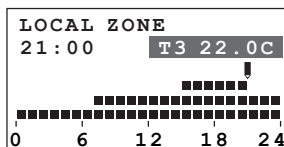


With the ▲▼ keys select the ZONE

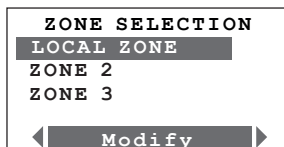
**OK** to confirm



With the ▲▼ and ◀▶ keys modify the profile



**OK** to confirm



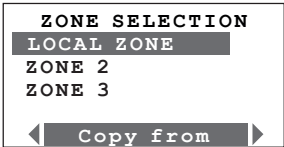
**C** to return to the previous page

5 MAIN MENU

- Visualize Zones
- Mode
- Programming
- Setup
- Maintenance

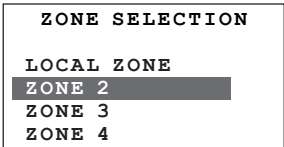
5.3.2.2 Copy from

Can copy the daily profile from an already programmed zone.



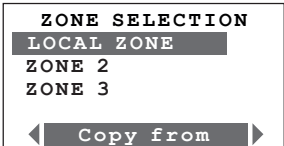
With the ▲▼ keys select the ZONE the profile should be copied to

OK to confirm



With the ▲▼ the keys select the ZONE the profile should be copied from

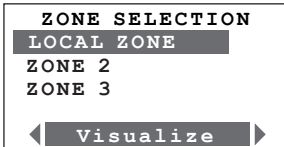
OK to confirm



With the ▲▼ keys it is possible to select another zone where to copy to,  
or  
press C to return to the previous page

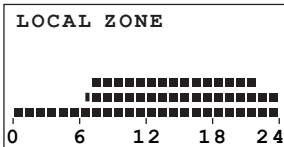
5.3.2.3 Visualize

This function can display the daily profile associated with each zone.



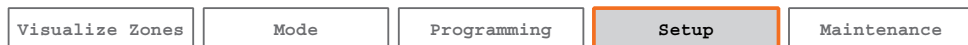
With the ▲▼ keys select the zone

OK to confirm



With the ▲▼ keys it is possible to display the other zones  
or  
press OK or C to return to the previous page

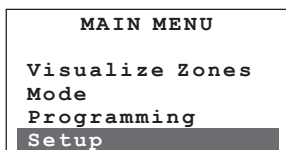
## 5 MAIN MENU



### 5.4 Setup

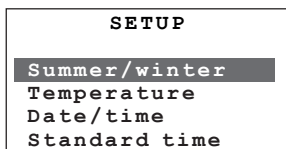
This menu can modify the available settings.

To access the SETUP menu:



With the ▲▼ keys select **SETUP**

**OK** to confirm



With the ▲▼ keys select a setting

The menu includes the following settings:


- **Summer/Winter** - toggles the system operating mode
- **Temperature** - enables setting 3 temperatures levels and Antifreeze/ Thermal protection
- **Date/time** - to set the current date and time
- **Standard time** - toggles the mode of transfer to standard time from Manual to Automatic
- **Remote control** - enable/disable remote control
- **Contrast** - to adjust the display contrast
- **Screen saver** - to select the screensaver
- **Language** - to select the menu language
- **External temperature** - to display the external temperature

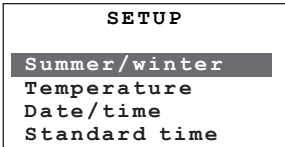
5 MAIN MENU

- Visualize Zones
- Mode
- Programming
- Setup
- Maintenance

5.4.1 Summer/Winter

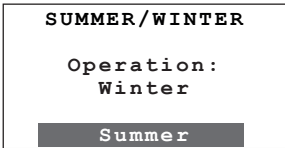
Sets the mode of operation of the Cooling or Heating system.

 Before performing the switching, perform all the operations necessary for correct working on the hydraulic system.



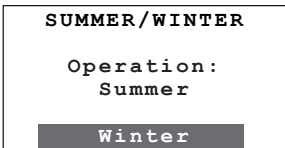
With the ▲▼ keys select **Summer/Winter**

**OK** to confirm



the display shows the mode of operation set: **Winter**


**OK** to confirm



the display shows the new mode of operation set: **Summer**

**C** to return to the previous page

When switching the Antifreeze (for Winter) or Thermal protection (for Summer) mode is set.

 Factory setting - Summer/Winter: **Winter**

## 5 MAIN MENU

Visualize Zones

Mode

Programming

**Setup**

Maintenance

### 5.4.2 Temperature

Can set the temperature levels T1, T2, T3 and Antifreeze/Thermal protection (as base the same for all the zones) for each zone.

SETUP	
Summer/winter	
<b>Temperature</b>	
Date/time	
Standard time	

With the ▲▼ keys select **Temperature**

**OK** to confirm

TEMPERATURE	
<b>ALL ZONES</b>	
LOCAL ZONE	

With the ▲▼ keys select  
ALL ZONES or LOCAL ZONE

**OK** to confirm

TEMPERATURE	
T*:	7.0C
<b>T1:</b>	<b>18.0C</b>
T2:	20.0C
T3:	22.0C

With the ▲▼ keys select the temperature level

**OK** to confirm

TEMPERATURE	
T*:	7.0C
<b>T1:</b>	<b>15.0C</b>
T2:	20.0C
T3:	22.0C

With the ▲▼ keys select the temperature level required (increment + 0.5°C)

**OK** to confirm

**C** to return to the previous page

TEMPERATURE	
<b>ALL ZONES</b>	
LOCAL ZONE	

*To guarantee correct system working the Control unit automatically checks that T3 is higher than T2 and T2 higher than T1.*



Factory setting - Temperatures:

Winter: T\*= 7.0°C T1= 18.0°C T2= 20°C T3= 22°C

Summer: Tp= 35.0°C T1= 20.0°C T2= 23°C T3= 25°C

## 5 MAIN MENU

Visualize Zones

Mode

Programming

Setup

Maintenance

### 5.4.3 Date/time

Sets the current date and time.

SETUP	
Summer/winter	
Temperature	
Date/time	
Standard time	

With the ▲▼ keys select **Date/time**

**OK** to confirm

CHANGE TIME/DATE	
Time:	00:00
Date:	22/08/06
00:00	Mar 22Aug

*the display shows the date and time set.*

CHANGE TIME/DATE	
Time:	08:20
Date:	07/07/07
00:00	Mar 22Aug

Set current date and time:

With the ▲▼ keys increase/decrease the selected figure by ± 1

With the ◀▶ keys scroll the date/time figures

**OK** to confirm

SETUP	
Summer/winter	
Temperature	
Date/time	
Standard time	

The Control unit returns to the previous page. Selecting Date/time again it is possible to check that this has been updated.

**OK** to confirm

CHANGE TIME/DATE	
Time:	08:21
Date:	07/07/07
08:21	Sat 07Jul



Factory setting - Date/time: **00:00 22/08/06**

## 5 MAIN MENU

Visualize Zones	Mode	Programming	<b>Setup</b>	Maintenance
-----------------	------	-------------	--------------	-------------

### 5.4.4 Standard time

For the standard time you can set one of the following modes:

**Manual:** the standard time must be updated manually

**Automatic:** changes summer/winter time automatically, according to the following rule:

- changes to summer time on the last Sunday of March at 02:00
- returns to winter time on the last Sunday of October at 03:00

```

SETUP

Summer/winter
Temperature
Date/time
Standard time
    
```

With the ▲▼ keys select **Standard time**

**OK** to confirm

```

STANDARD TIME

State:
Manual

Automatic
    
```

*The display shows the screen indicating the state set (Manual).*

**OK** to switch the mode

```

STANDARD TIME

State:
Automatic

Manual
    
```

**C** to return to the previous page

```

SETUP

Summer/winter
Temperature
Date/time
Standard time
    
```



Factory setting - Standard time: **Manual**

## 5 MAIN MENU

Visualize Zones	Mode	Programming	<b>Setup</b>	Maintenance
-----------------	------	-------------	--------------	-------------

### 5.4.5 Remote control

Can enable/disable the remote control for remote management (user) and remote after-sales service (installer) using My Home portal. The remote management lets the user know and control the temperature of each zone remotely. The remote after-sales service lets the installer program the control unit and perform the system diagnostics remotely.

```

SETUP
Temperature
Date/time
Standard time
Remote control
    
```

With the ▲▼ keys select **Remote control**

```

REMOTE CONTROL

State:
enabled

Disable
    
```

**OK** to confirm

*The display shows the screen indicating the state set (enabled).*

```

REMOTE CONTROL

State:
enabled

Enable
    
```

**OK** to switch the mode

```

SETUP
Temperature
Date/time
Standard time
Remote control
    
```

**C** to return to the previous page



Factory setting - Remote control: **Enable**



## 5 MAIN MENU

Visualize Zones

Mode

Programming

**Setup**

Maintenance

### 5.4.6 Contrast

Sets the level of contrast of the graphic display.

#### SETUP

Date/time  
Standard time  
Remote control  
**Contrast**

With the ▲▼ keys select **Contrast**

**OK** to confirm

#### CONTRAST

Increase by ▲  
Decrease by ▼

With the ▲▼ keys adjust the contrast level

**OK** to confirm and to return to the previous page  
**C** to cancel and to return to the previous page

#### SETUP

Date/time  
Standard time  
Remote control  
**Contrast**

## 5 MAIN MENU

Visualize Zones

Mode

Programming

Setup

Maintenance

### 5.4.7 Screen saver

It enables selecting what should be displayed on the Control unit screen in idle conditions.

You can select from the following screen savers:

- Temp. only – displays the measured temperature only
- Temp./Date/Time - displays the measured temperature and date/time
- Main screen - displays the complete main screen
- Display Off – the display is completely OFF

#### SETUP

Standard time  
Remote control  
Contrast  
Screen saver

With the ▲▼ keys select **Screen saver**

**OK** to confirm

#### SCREEN SAVER

Temp. only  
Temp/Date/Time  
Main screen  
Display off

*The display shows the selection set now.*

#### SCREEN SAVER

Temp. only  
Temp/Date/Time  
Main screen  
Display off

With the ▲▼ keys select the Screen saver  
(E.g.: Main screen)

**OK** to confirm and to return to the previous page  
**C** to cancel and to return to the previous page

#### SETUP

Standard time  
Remote control  
Contrast  
Screen saver



Factory setting - Screen saver: **Temp. only**

## 5 MAIN MENU

Visualize Zones

Mode

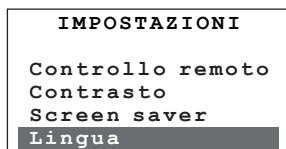
Programming

**Setup**

Maintenance

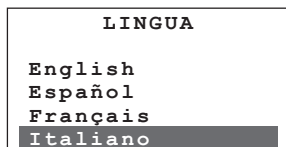
### 5.4.8 Language

It enables selecting the menu language.

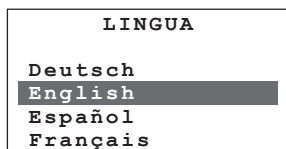


With the ▲▼ keys select **Lingua (Language)**

**OK** to confirm

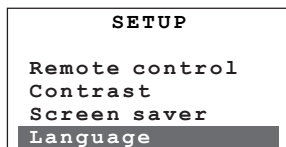


*The display shows the language set now.*



With the ▲▼ keys select the language  
(E.g.: English)

**OK** to confirm and to return to the previous page



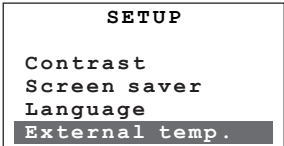
Factory setting - Language: **Italian**

5 MAIN MENU

- Visualize Zones
- Mode
- Programming
- Setup
- Maintenance

5.4.9 External temperature

It enables displaying of the temperature and setting of the external probe address.



With the ▲▼ keys select **External Temp.**

**OK** to confirm

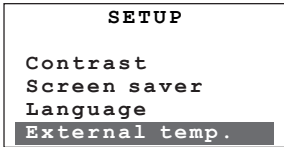


With the ▲▼ keys scroll the probe address values 1 – 9



With the ◀▶ keys change the state of activation Not active/Active

**OK** to confirm and to return to the previous page



Factory setting - External temperature: **Not active**

## 5 MAIN MENU

Visualize Zones

Mode

Programming

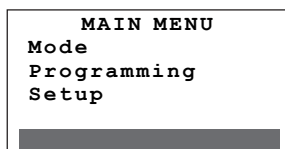
Setup

Maintenance

### 5.5 Maintenance

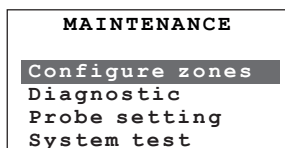
This menu includes all the configuration and control functions for the system.

To access the MAINTENANCE menu:



With the ▲ ▼ keys select **Maintenance**

**OK** to confirm



The menu includes the following items:

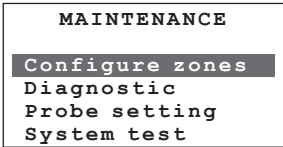
- **Configure zones** - Can configure the system zones
- **Diagnostic** - can be used to check the installed devices
- **Probe setting** - Can vary the temperature measured
- **System test** - Can perform maintenance or checks on the system
- **Total reset** - Resets the control unit totally

5 MAIN MENU

- Visualize Zones
- Mode
- Programming
- Setup
- Maintenance

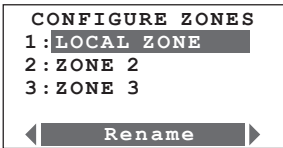
5.5.1 Configure zones

Can perform the system learning and manage the zone configuration.



With the ▲▼ keys select **Configure zones**

**OK** to confirm



*The following functions are available for the zone selected:*

- ◀ Rename ▶

Can rename the zone selected
- ◀ Actuators ▶

Can configure the actuators for the zone selected
- ◀ Pumps ▶

Can configure the pumps for the zone selected
- ◀ Erase ▶

Can erase the zone selected
- ◀ Reset all ▶

Can zero the configuration of all the zones
- ◀ Learning ▶

Searches all the zones in the system
- ◀ Send ▶

Configures the zones via the TiThermoBasic software.

Use the ◀▶ keys to select the function required.

## 5 MAIN MENU

Visualize Zones

Mode

Programming

Setup

Maintenance

### 5.5.1.1 Rename

This function enables to assign a name to each zone.

CONFIGURE ZONES

1: LOCAL ZONE

2: ZONE 2

3: ZONE 3

Rename

With the ▲▼ keys select the zone to be renamed (E.g.: LOCAL ZONE)

**OK** to confirm

CONFIGURE ZONES

1: LIVING ROOM

2: ZONE 2

3: ZONE 3

Memorize

Enter the zone name (E.g.: LIVING ROOM)

Use the ◀▶ keys to position the cursor on the character you want to change;

use the ▲▼ keys to scroll the alphanumeric characters (only uppercase), numbers and special characters, starting from the one that is selected.

CONFIGURE ZONES

1: LIVING ROOM

2: ZONE 2

3: ZONE 3

Actuators

Press **OK** to save the parameter or **C** to cancel

5 MAIN MENU

- Visualize Zones
- Mode
- Programming
- Setup
- Maintenance

5.5.1.2 Actuators

This function is used to complete the configuration of the zones, indicating:

- which actuators are installed for the Heating system
- which actuators are installed for the Cooling system
- which type of load the zone manages.

CONFIGURE ZONES

1: LIVING ROOM

2: ZONE 2

3: ZONE 3

Actuators

With the ▲▼ keys select the zone to be configured (E.g.: ZONE 2)

OK to confirm

ZONE 2

01: -----

02: -----

03: -----

Not connected

One of the following options can be selected for each actuator in the list:

- Not connected
- Actuator not in the system
- 
- Heating
- Actuator used to manage the Heating system
- 
- Cooling
- Actuator used to manage the Cooling system
- 
- Heat. & cool.
- Actuator used to manage both the Heating system and the Cooling system (E.g.: 2 pipe fan-coil)

ZONE 2

01: HEATING

02: -----

03: -----

Heating

With the ◀▶ keys select the required option (E.g.: **Heating**)

OK to confirm

ZONE 2

09: -----

HEAT ON/OFF

COOL ON/OFF

ON/OFF

With the ▲▼ keys scroll the list of actuators. The last two items of the menu can be used to select the type of load to be managed

continues



## 5 MAIN MENU

Visualize Zones

Mode

Programming

Setup

Maintenance

### 5.5.1.2 Actuators

continues

ZONE 2

09: -----

HEAT ON/OFF

COOL ON/OFF

ON/OFF

One of the following options can be selected for each operation:

- ON/OFF Load managed by just one contact (E.g.: thermostatic valve)
- OPEN/CLOSE Load managed by two interlocked relays (E.g. motor-driven valve with opening contact and closing contact)
- FAN-COIL 3V Fan-coil with control of one valve and selector switch up to 3 speeds
- GATEWAY Interface for Climaveneta Fan-coil

ZONE 2

09: -----

HEAT ON/OFF

COOL OPEN/CLOSE

FAN-COIL 3V

With the ◀ ▶ keys select the required option

**OK** to confirm

ZONE 2

Zone test...

Pressing the **C** key, the set configuration is sent to the zone

CONFIGURE ZONES

1: LIVING ROOM

2: ZONE 2

3: ZONE 3

Pumps

Complete the configuration of the zone by configuring the Pumps



The zone test screen does not appear for the local zone because the settings are managed directly by the Control unit.

5 MAIN MENU

- Visualize Zones
- Mode
- Programming
- Setup
- Maintenance

5.5.1.3 Pumps

Can complete the configuration of the zones, indicating which pumps must control the zone and with how much delay.

CONFIGURE ZONES

1: LIVING ROOM

2: ZONE 2

3: ZONE 3

Pumps

With the ▲▼ keys select the zone to be configured (E.g.: ZONE 2)

OK to confirm

ZONE 2

01: HEATING

02: -----

03: -----

Not connected

One of the following options can be selected for each pump in the list:

- Not connected
- Pump not in the system
- 
- Heating
- Pump used to manage the Heating system
- 
- Cooling
- Pump used to manage the Cooling system
- 
- Heat. & cool.
- Pump used to manage both the Heating system and the Cooling system (E.g.: 2 pipe fan-coil)

ZONE 2

01: HEATING

02: -----

03: -----

Heating

With the ◀▶ keys select the required option (E.g.: **Heating**)

OK to confirm

ZONE 2

09: -----

HEAT 1

COOL 0

0

With the ▲▼ keys scroll the list of pumps.  
The last two items of the menu can be used to select the pump activation delay (0 to 9)

continues



In case of probes configured on the P seat, this function can be used only if the CEN configurator is in the P seat itself.

## 5 MAIN MENU

Visualize Zones

Mode

Programming

Setup

Maintenance

### 5.5.1.3 Pumps

continues

ZONE 2

Zone test...

Press the **C** key to send the configuration set to the zone.

Once the test procedure is complete, the following will be displayed should an error be present on the zone:

CONFIGURE ZONES

1: LIVING ROOM

2: ZONE 2

3: ZONE 3

Pumps

ZONE 2

ERROR

Verify the

probe

configuration.

Check that any *P* seat on the probe has been configured (*P* = *CEN*) and try again.



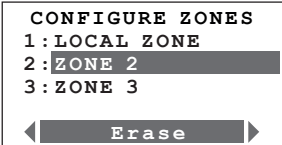
The zone test screen does not appear for the local zone, because the settings are managed directly by the Control unit.

5 MAIN MENU

- Visualize Zones
- Mode
- Programming
- Setup
- Maintenance

5.5.1.4 Erase

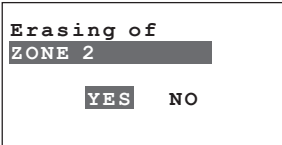
Can erase the zone selected from the configuration.



With the ▲▼ keys select the zone (e.g.: ZONE 2)

With the ◀▶ keys select **Erase**

**OK** to confirm

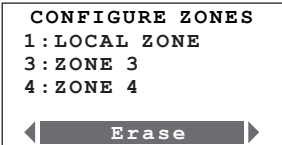


With the ◀▶ keys select:

**YES** to erase the zone

**NO** to cancel

**OK** to confirm



**C** to return to the previous screen



The Control Unit no longer manages the erased zones.  
If the LOCAL ZONE is removed, the Control unit resets itself and the zone returns to the default setting (no actuator and pump and name LOCAL ZONE).

## 5 MAIN MENU

Visualize Zones

Mode

Programming

Setup

Maintenance

### 5.5.1.5 Reset all

Can erase the saved configuration of all the zones.

```

CONFIGURE ZONES
1: LOCAL ZONE
2: ZONE 2
3: ZONE 3
Reset all
    
```

With the ◀ ▶ keys select **Reset all**

**OK** to confirm

```

Reset
system?
YES NO
    
```

With the ◀ ▶ keys select:  
**YES** to erase all the zones  
**NO** to cancel

**OK** to confirm

```

Reset in
progress...
YES NO
    
```

```

LANGUAGE
Deutsch
English
Español
Français
    
```

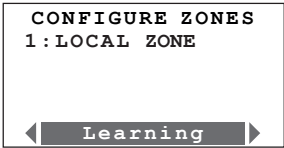
*The Control unit resets itself, removing all the zones, which will no longer be managed.  
To resume system operation, the zones **LEARNING** procedure must be completed.*

5 MAIN MENU

- Visualize Zones
- Mode
- Programming
- Setup
- Maintenance

5.5.1.6 Learning

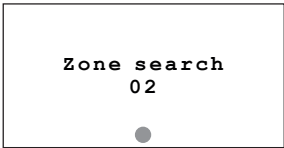
This function searches for the 3 zones within the system, which address is subsequent to the Control unit address (e.g.: if the address of the Control unit is 21, it will search for zones 22, 23 and 24).



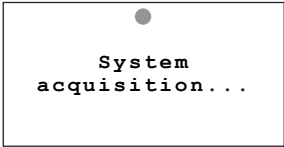
The display shows the LOCAL ZONE

With the ◀ ▶ keys select **Learning**

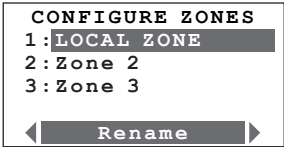
**OK** to confirm



The Control unit will search for the 3 zones within the system subsequent to the local zone.



Once the acquiring process is completed, all the zones found will be displayed.



**C** to return to the previous screen

## 5 MAIN MENU

Visualize Zones

Mode

Programming

Setup

**Maintenance**

### 5.5.1.7 Send

It sends the Control unit configuration to the zones. The configuration could, for example, be completed from the pc, using the TiThermoBasic software.

CONFIGURE ZONES

1: LOCAL ZONE

2: Zone 2

3: Zone 3

◀ Send ▶

With the ◀ ▶ keys select **Send**

**OK** to confirm

ZONE 2

The Control unit sends the information to all the zones

ZONE 3

ERROR

Verify the  
probe  
configuration.

*In case of ERROR, the following message will be displayed.*

**OK** to continue sending to the other zones

ZONE 4

CONFIGURE ZONES

1: LOCAL ZONE

2: Zone 2

3: Zone 3

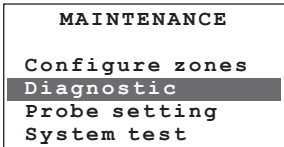
◀ Send ▶

5 MAIN MENU

- Visualize Zones
- Mode
- Programming
- Setup
- Maintenance

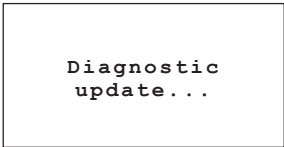
5.5.2 Diagnostic

In case of fault in one or more zones, it enables the user to check all devices installed in each zone.

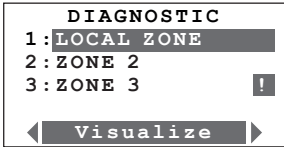


With the ▲▼ keys select **Diagnostic**

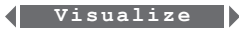
**OK** to confirm



The control unit carries out an automatic diagnostic update of the system



The following functions are available for the zone selected; select the function with ◀▶ keys.




Can display the state of the selected zone



It enables interrogating the probe of the selected zone



The highlighted  symbol indicates that operating faults are present on the zone.



## 5 MAIN MENU

Visualize Zones

Mode

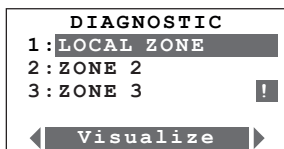
Programming

Setup

Maintenance

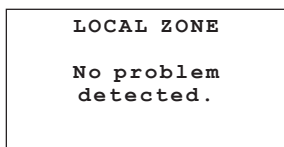
### 5.5.2.1 Visualize

It enables displaying detailed diagnostic information for the zones.



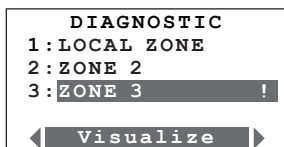
With the ▲▼ keys select the zone (e.g.: LOCAL ZONE)

**OK** to confirm



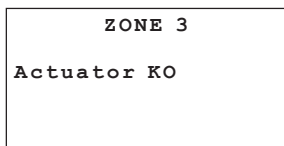
*The display visualizes the state of the zone*

**C** to return to the previous page



With the ▲▼ keys another zone (e.g.: ZONE 3)

**OK** to confirm



*In case of faulty zones, the fault gravity level will be displayed on the screen.*



*In case of faults refer to the “Troubleshooting” section of this manual.*

## 5 MAIN MENU

Visualize Zones

Mode

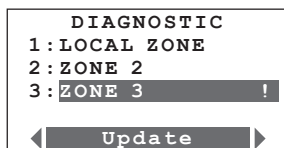
Programming

Setup

Maintenance

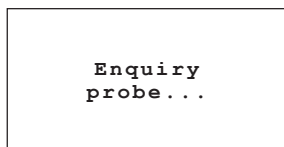
### 5.5.2.2 Update

It can update the status of the selected zone.

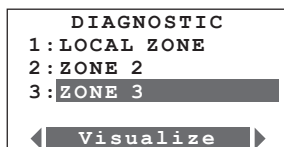


With the ▲▼ keys select the zone (e.g.: ZONE 3)

**OK** to confirm



The Control unit carries out an automatic update of the state of the probe.



**C** to return to the previous page



*This function is not applicable to the LOCAL ZONE as this zone is directly managed by the Control unit.*

## 5 MAIN MENU

Visualize Zones

Mode

Programming

Setup

Maintenance

### 5.5.3 Probe setting

Can align the temperature measured by the probes to a value measured with other devices (thermometer,...) to guarantee better precision in system operation.

```

MAINTENANCE
Configure zones
Diagnostic
Probe setting
System test
    
```

With the ▲▼ keys select **Probe setting**

**OK** to confirm

```

PROBE SETTING
LOCAL ZONE
ZONE 2
ZONE 3
ZONE 4
    
```

With the ▲▼ keys select **the zone**

**OK** to confirm

```

PROBE SETTING
ZONE 2
Measured      20.0C
New           22.5C
    
```

With the ▲▼ keys set the actual temperature measured in the environment (increase in  $\pm 0.1^{\circ}\text{C}$  steps)

**OK** to confirm

```

Probe setting
ZONE 2
in progress...
    
```

The Control automatically calibrates the probe

```

PROBE SETTING
LOCAL ZONE
ZONE 2
ZONE 3
ZONE 4
    
```

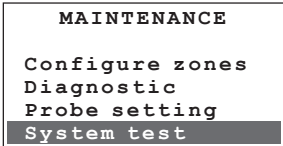
**C** to return to the previous page

5 MAIN MENU

- Visualize Zones
- Mode
- Programming
- Setup
- Maintenance

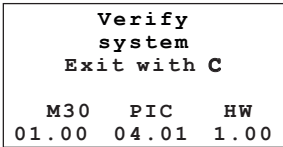
5.5.4 System test

Can put the system in **Test** (the whole system OFF) to check the system. It automatically disables all the commands (including the remote commands).



With the ▲▼ keys select **System test**

**OK** to confirm



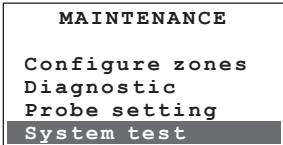
The display indicates the Control Unit software and hardware versions:

**M30** - firmware version

**PIC** - firmware version SCS interface

**HW** - hardware version

**C** to return to the previous page



## 5 MAIN MENU

Visualize Zones

Mode

Programming

Setup

Maintenance

### 5.5.5 Total reset

Can perform a Control Unit total reset. All the settings will be lost and the factory settings will be reset.

#### MAINTENANCE

Diagnostic  
Probe setting  
System test  
Total reset

With the ▲▼ keys select **Total reset**

**OK** to confirm

**ATTENTION!**  
The programs  
will be lost!  
Execute?  
**YES** NO

With the ◀▶ keys select **YES**

**OK** to confirm

**RESET**  
**IN PROGRESS...**

The Control unit carries out a TOTAL RESET, and the factory settings are restored.

#### LANGUAGE

Deutsch  
English  
Español  
Français



**With this operation the system configuration and all the programs run will be lost!**

## TECHNICAL DATA

### Rating

Bus SCS power supply:	base + front
Power supply voltage:	18 - 27V
Max. absorption:	30mA with display ON
Typical absorption:	8.5mA with display OFF
Battery power supply:	2 AA 1.5V batteries (only front)
Power supply voltage:	3 Vdc
Max. absorption:	150mA with display ON
Typical absorption:	15mA with display OFF
Working temperature:	0°C - +40°C
Dimensions:	3 DIN modules
Degree of protection:	IP 30

### Standards references

The item covered by the manual has the CE Declaration of Conformity according to the requirements indicated below:

**BTicino SpA with offices in Via Messina, 38 - 20154 Milano (Italy)**

declares that the product item number: **4695**

respects the following standards:

EN 6669-2-1  
 EN 50090-2-2 (HBES)  
 EN 50090-2-3 (HBES Safety)  
 EN 50428  
 EN 60730-2-9

Year of approval CE marking according to the directive indicated: 2007

## Troubleshooting

Problem	Solving
<b>Battery exhausted warning</b>	Replace the batteries
<b>Zone fault warning</b>	Check if any other problems are present (Maintenance >Diagnostic >Update)
<b>A zone signals “Error on probe”</b>	The probe does not respond: - check whether it is correctly connected (green LED shining steadily or flashing slowly) and configured (correct zone number and mode).
<b>A zone signals “Actuator KO”</b>	An actuator does not respond: - check whether the actuators are correctly connected and configured (test the actuators with the local key); - with standard configuration, check that the configuration has been performed correctly in the control unit Maintenance>Configure zone>Configure).
<b>A zone signals “Pump KO”</b>	The actuator configured for the control of the circulation pump (Zone = 00) does not respond: - check whether the actuator is correctly connected and configured (test the actuator with the local key) - check the correct configuration of the pump (Maintenance > Configure zones > Pumps)
<b>A zone signals “Slave probe KO”</b>	A slave probe does not respond: - check whether it is correctly connected (green LED shining steadily or flashing slowly) and configured (correct zone number, SLA mode); - check the correct configuration of the slaves to be managed on the Master probe.
<b>A zone signals “T out of limits”</b>	The temperature measured by the probe is too low or too high: - check that the probe is installed correctly (e.g. not too close to heat sources); - set the probe (Maintenance>Probe setting) measuring the room temperature with a thermometer; - if the problem continues, replace the probe; - if it is the local zone that is showing a temperature outside the set limits, completely reset and then reacquire the system.
<b>A zone signals “R/W EEPROM KO”</b>	If there is an internal problem on the probe: - replace the probe.
<b>The Control unit is frozen after connection to the PC</b>	Carry out the RESET procedure as indicated in the TiThermoBasic software manual.



BTicino SpA  
Via Messina, 38  
20154 Milano - Italy  
[www.bticino.com](http://www.bticino.com)