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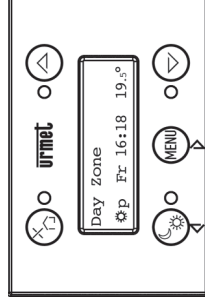
DS1071-024A

**Mod.
1071**

LBT8831

Temperature controller

Ref. 1071/31



ENGLISH

The temperature controller 1071/31 is used to easily control the indoor climate (heating or cooling).

USER INSTRUCTION MANUAL

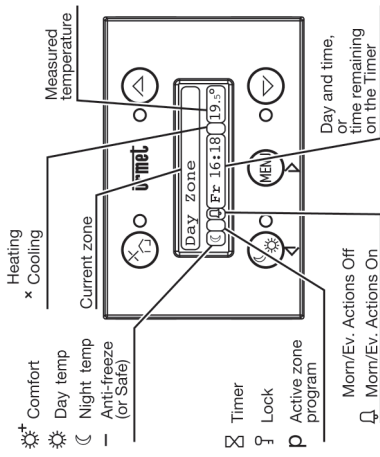
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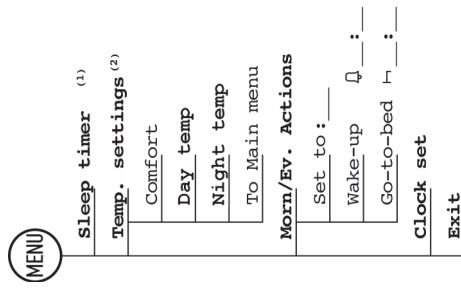
1. INTRODUCTION

1.1. User interface: Display, LEDs and buttons

- Display



- Menu tree

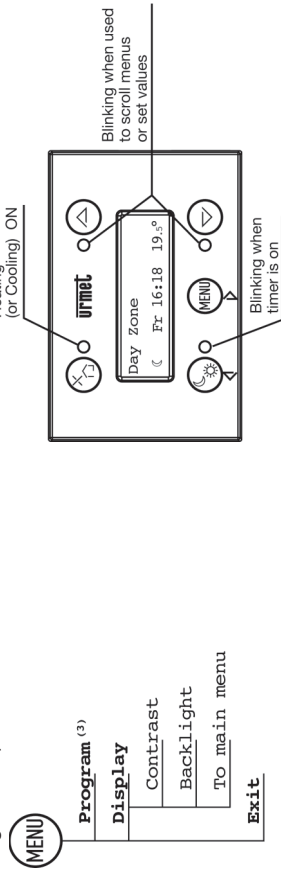


Hold the Menu button pressed for longer than four seconds to access the Advanced Menu.

(1) This menu option is only visible when a timer is enabled.

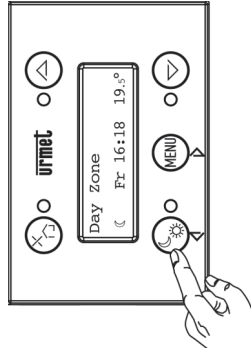
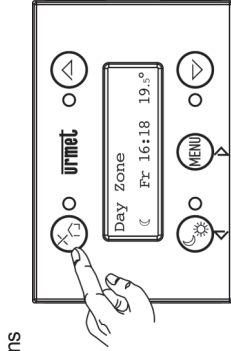
(2) This menu option only appears after having associated one or more temperature sensors to the temperature controller (i.e. is only visible during installation after having programmed using IPerSet)


Alternatively, key in the password (if the device was programmed using IPerSet) • LEDs



(3) This menu item only appears after having associated one or more temperature sensors to the temperature controller (i.e. is only visible during installation after having programmed using IPerSet)

• Buttons



 Selects a specific zone.

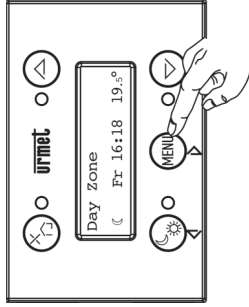
 Exits the menu. Any changes made (display blinking) will be lost.



Switches reference time from Comfort / Day temp / Night temp / Anti-freeze (or Safe) and activates the timer at the programmed value (default: 1 hour).



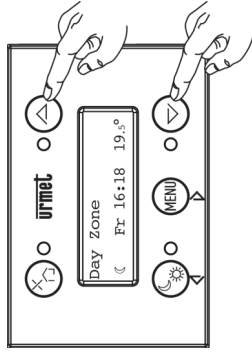
Goes to the previous menu level.
Cancels the changes made to a blinking value.



MENU Opens the menu.
 Hold pressed for four seconds to open the Programming menu (access to the menu can be password-protected).



Goes to the next menu level.
 Confirms changes made to a blinking value.



Scrolls the menu or edits a value (blinking display).




2. DAILY USE





2.1. How to temporarily change the current reference temperature value of a specific zone

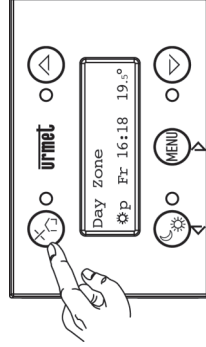
The current reference temperature can be temporarily modified at any time (Comfort / Day temp / Night temp / Anti-freeze (or Safe)). This change will remain active until the next programming step for the zone.



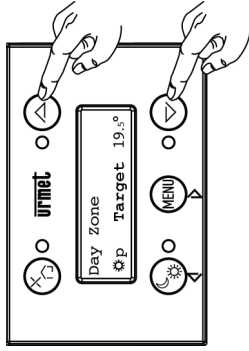
The change will NOT affect the reference temperatures stored for the zone and used by the programme. For example, if the 'Comfort' reference temperature of the day zone is changed, the stored value and not the one set here will be used the next time that comfort mode is activated in the day zone.


1. Select the zone by repeatedly pressing the  button to select the required zone, e.g. day zone or night zone. Wait a few minutes for the two yellow LEDs on the right associated to the two arrows  and  to stop blinking. The current

reference temperature for the zone will appear in the bottom left: Comfort , Day temp , Night temp , Anti-freeze (or Safe) .



2. Use the two arrows  and  to modify the current reference temperature and set the required value.







3. Wait for five seconds after having set the required temperature (or press ): the LEDs will stop blinking and the display will return to normal conditions.








2.2 How to temporarily set Comfort / Day temp / Night temp / Anti-freeze (or Safe) setting with timer

An example of use of this function is when all the windows need to be opened for cleaning. During this time, it could be advisable to turn the heating off in one or more zones.

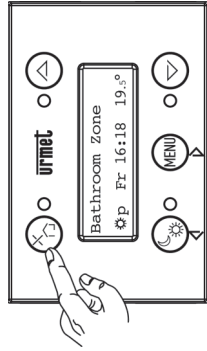
Another example is to force the Comfort

temperature for a short time in the bathroom. In these cases, a given reference temperature can be overridden in one or more zones: Comfort , Day temp , Night temp  or Anti-freeze (or Safe) .

Overriding will be timed by default. During this time, any programme step will be ignored. Operation will return ordinary when the timer expires. The default timer value is one hour⁽⁴⁾ but the time can be easily changed on the temperature controller itself.

1. Select the zone by repeatedly pressing  until the required zone is identified. Wait a few minutes for the two yellow LEDs on the right associated to the two arrows  and  to stop blinking. The current reference temperature for the zone will appear in the bottom left: Comfort , Day temp , Night temp  or Anti-freeze (or Safe) .

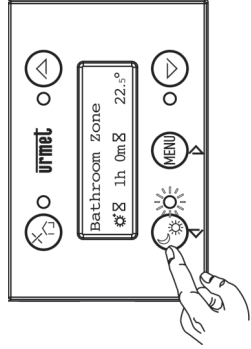
⁽⁴⁾ The default value can be set using the IPerSet programming software.



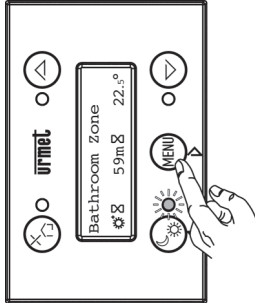
2. Press on the bottom left repeatedly to select the required reference temperature: Comfort , Day temp , Night temp or Anti-freeze (or Safe) .

Important notes:

- The yellow LED by the side of the symbol will blink to indicate that the timer is on.
- An hourglass will also appear next to the chosen symbol to indicate that the timer is on.
- The Day/Time indication in the middle of the display will be replaced with the decrementing timer readout:

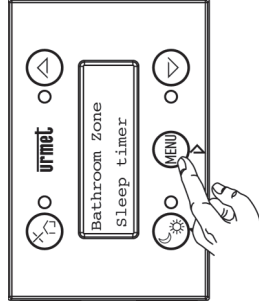


3. (Optional) At this point, if necessary, it is possible to change the timer, increasing or decreasing it as needed. Press MENU in order to do this:

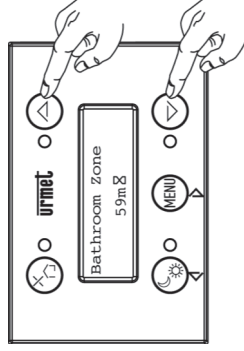


The 'Sleep Timer' menu will appear.

Press  to select this menu item.

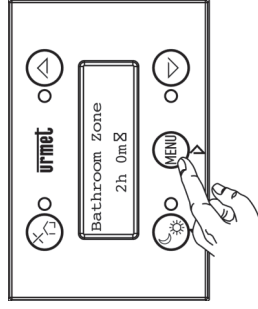


The timer, or rather the remaining time, will blink on the display. Use the  and  arrows to modify the value.

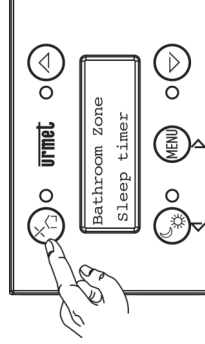


Press  to confirm the change.

Alternatively, press  to cancel the variation.





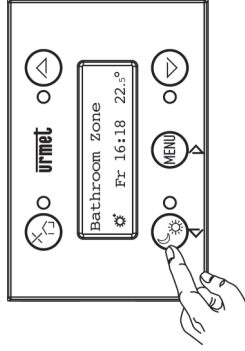
Press  to exit the 'Sleep Timer' menu.



2.3 How to temporarily set Comfort / Day temp / Night temp / Anti-freeze (or Safe) setting to the next change of programme

Follows steps 1 and 2 in paragraph 2.2 above.
Then:

Hold button  pressed until the hourglass symbol  disappears.



The setting will remain active until the next change of programme.

2.4 How to change Morning/Evening Actions

Actions referred to the following times can be programmed using IPerSet:

Wake-up time +/- a given offset
Go-to-bed time +/- a given offset

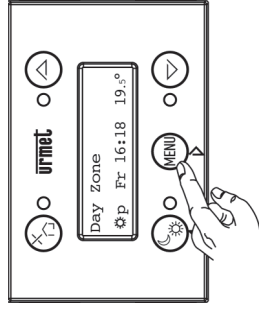
This allows to change the time when these actions will be executed simply by modifying these two values.

For example, the system may be programmed to turn the heating on in Day temp mode one hour before Wake-up time and to open the shutters 15 minutes after Wake-up time.

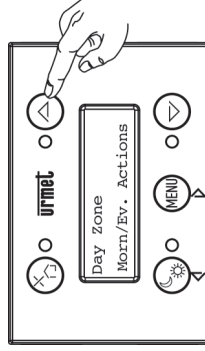
The Wake-up time can be simply changed during weekends or on working days to shift all the connected actions as a consequence.

Proceed as follows to change the Morning/Evening Action times (the actions must be enabled).

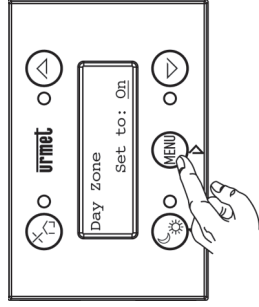
1. Press **MENU** to open the menu.



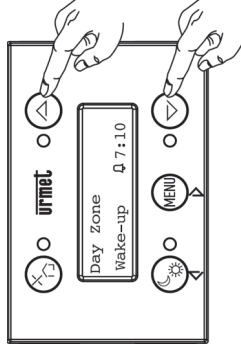
2. Press \triangle until the 'Morn/Ev. Actions' item appears:



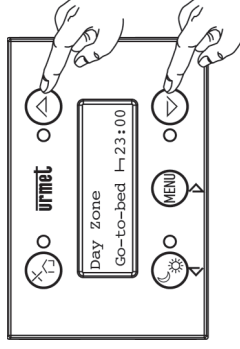
3. Select 'Morn/Ev. Actions' by pressing the \triangleright button.



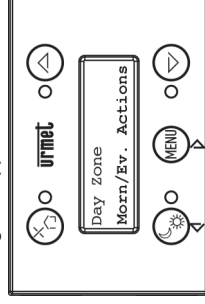
4. Make sure that the setting is 'On'. If this is not so, use the arrows \triangle and \triangleright to select 'On'. Then press \triangleright to confirm. The following will appear:



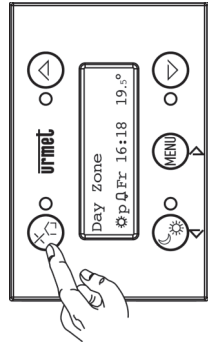
5. Use the arrows \triangle ∇ and \triangleright to change the hour and then the minutes. Press \triangleright to confirm. The following will appear:



6. Use the arrows \triangle ∇ and \triangleright to change the hour and then the minutes. Press \triangleright to confirm. The following will appear:



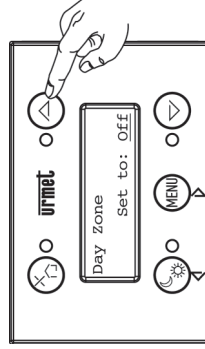
7. Press \times to exit the menu.






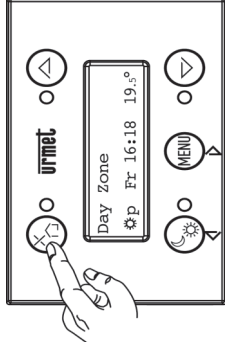
Symbol \times indicates that the Morning/Evening Actions are active.

Morning/Evening Actions can also be entirely deactivated.

In order to do this, repeat steps 1, 2, 3 and then use the arrows \triangle and ∇ to select 'Off'.




Press  to confirm. Press  to exit the menu.
 Symbol  will not be visible at this point to indicate that Morning/Evening Actions are not active:



2.5 Holidays




In case of holidays or prolonged absences, it is advisable to set the reference temperature to Night temp or Anti-freeze (or Safe) and set a time slightly shorter than the expected absence on the timer. Programme instructions will be ignored for as long as the timer is active. Normal operation of the set programmes for the various zones will be resumed when the timer expires.

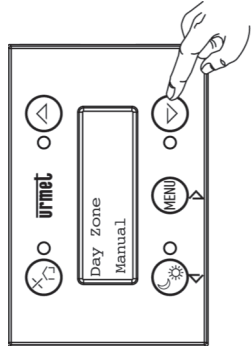
1. Carry out step 1 in paragraph 2.2 by pressing  repeatedly to identify the required zone.

2. Carry out step 2 described in paragraph 2.2.
3. Carry out step 3 described in paragraph 2.2 setting the number of days and hours of absence on Sleep Timer (max. selectable: 45 days).
4. Repeat the three steps above for all zones.

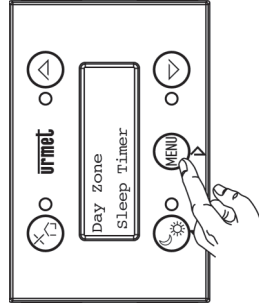
2.6 How to deactivate in summer (or winter)

It is advisable to set heating to Anti-freeze mode in summer. The programme instructions will be ignored for a certain time.

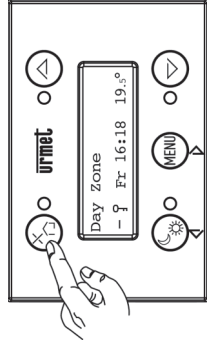
1. Carry out step 1 in paragraph 2.2 by pressing  repeatedly to identify the required zone.
2. Carry out step 2 described in paragraph 2.2.
3. Carry out step 3 described in paragraph 2.2. In particular, repeatedly press  to decrease the Sleep Timer to zero and press  again to set 'Manual' on the timer:



- Press to confirm the change. The following will appear:



- Press to exit the menu.



Presence of and will confirm that heating is in Anti-freeze mode for a certain time.

- To quit this condition, simply hold button in the bottom left pressed: symbol will disappear and the programme instructions will be considered again.

- Repeat the steps above for all zones.

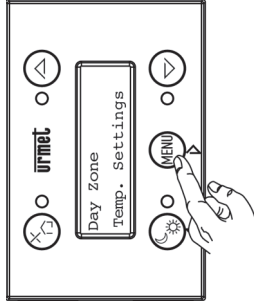
3. SETTINGS

3.1. Time

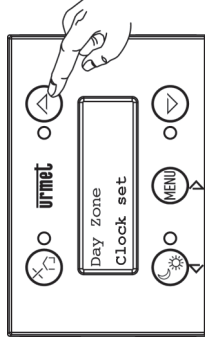
How to set day and time on temperature controller:

- If the temperature controller was set (using IPerSet) as Master, it will synchronise all the other modules in the system every 17 hours or whenever power comes back after a blackout. This function is secured by the presence of a back-up battery (see paragraph 4.1 for how to replace the back-up battery).
- If on the other hand the temperature controller was not set (using IperSet) as Master, it will be periodically synchronised by another module in the system (Server IPer-Home Pro or Basic, video door phone etc.). In this case, any changes to the day or time on the temperature controller will be lost at the next synchronisation. The day and time must be adjusted if needed on the master device of the system. Call your installer in case of doubt.

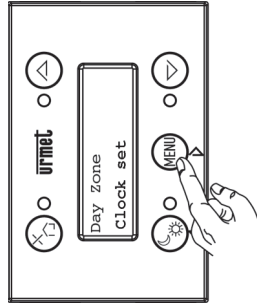
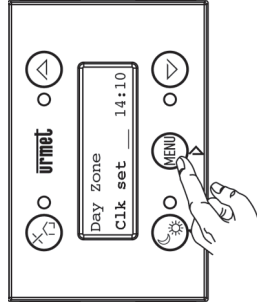
Press **MENU** to open the menu:



Select 'Clock set' by pressing \triangleleft (and/or \triangleright) several times.



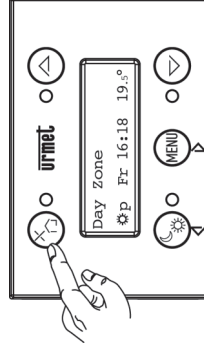
Select 'Clock set' by pressing the \triangleright button.



- The day will start blinking. Select the day of the week using the arrows Δ and ∇ .
- Press \triangleright to confirm.
- The time will start blinking. Set the time using the arrows Δ and ∇ .
- Press \triangleright to confirm.
- The minutes will start blinking. Set the minutes using the Δ and ∇ arrows.

Press \triangleright to confirm the setting.

Press \times to exit the menu.






3.2. Reference temperatures: Comfort / Day temp / Night temp / Anti-freeze (or Safe)

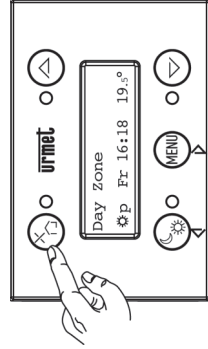
The timeslot programming allows to switch the various reference temperatures from the set value:

Comfort ☀, Day temp ⚙, Night temp ☾

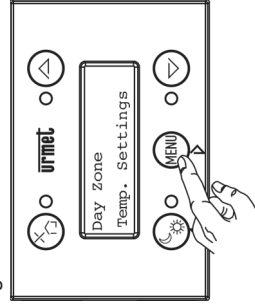
The predetermined values are initially set by the installer for each single zone (for each temperature sensor) by means of iPerSet software.

These values do not usually need to be modified but this can be done from the temperature controller⁽⁵⁾ as follows.

1. Select the zone by repeatedly pressing the  button to select the required zone, e.g. day zone or night zone.
Wait a few minutes for the two yellow LEDs on the right associated to the two arrows  and  to stop blinking.

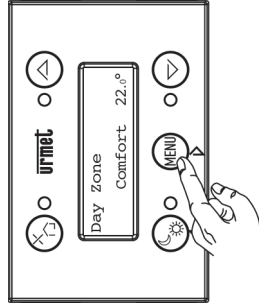


2. Set the reference temperatures menu by pressing **MENU**.

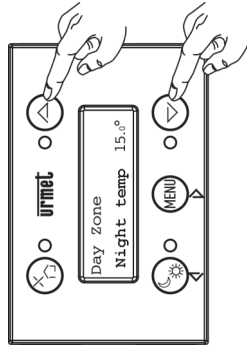


3. Set the reference temperatures menu by pressing .

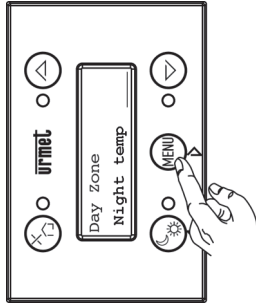
⁽⁵⁾ The Anti-freeze (or Safe) reference temperature may be modified from iPerHome only (in presence of iPerHome Pro or Basic server) or by using the iPerSet software. This value cannot be modified from the temperature controller. Call your installer in case of doubt.



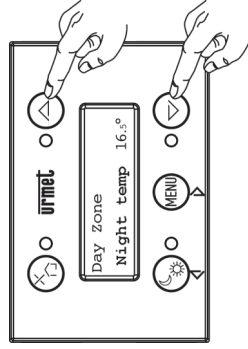
4. The first of the reference temperatures is used. Use \blacktriangle and \blacktriangledown to select which of the three reference temperatures to be used for the zone (Comfort ☀ , Day temp ☀ , Night temp ☾) to be modified.





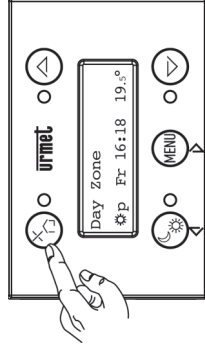
5. Select the reference temperature to be changed with \blacktriangleright . The temperature will start blinking.



6. Set the required value (to be used in the programmes) by pressing \blacktriangle and \blacktriangledown .



7. Press  to confirm.
Press  to exit the menu.

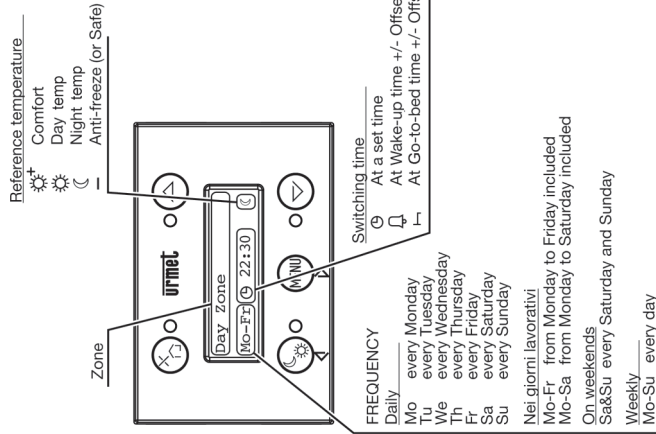


3.3 Timeslot programming

Timeslot programming, i.e. automatic switching between the Comfort, Day temp or Night temp reference temperatures according to the various days and times of the week, is easy:

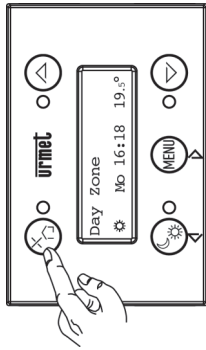
- using the simplified user interface made available by IPerHome server on telephones, tablets or video doors phones (if the server is present)
- using IPerSet (solution normally used by installers).

Timeslots can be programmed (or small changes can be made to an existing programme) using the temperature controllers.



3.3.1 How to add or change a programme step.

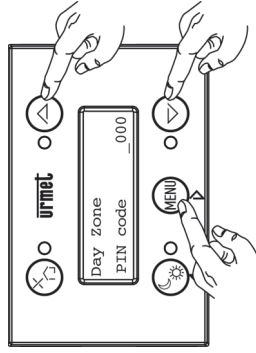
1. Select the zone by repeatedly pressing the button to select the required zone, e.g. day zone or night zone. Wait a few minutes for the two yellow LEDs on the right associated to the two arrows and to stop blinking.



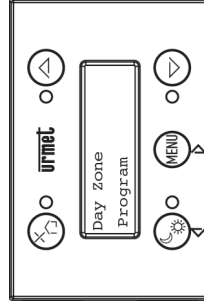
2. Hold **MENU** pressed to access the Advanced Menu.


By default, the system switches automatically to the Advanced Menu after holding **MENU** pressed for longer than four seconds. It is possible to request the use of a four-digit password to enter this function using IPerSet. The prompt to insert the password will appear: select the first digit of the password using the arrows and and press to

confirm. Repeat for the other three digits.

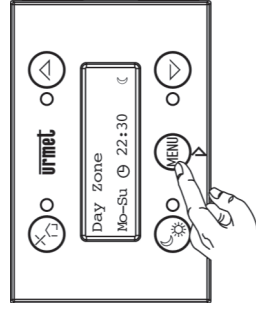






3. The first option of the Advanced Menu will appear on the display: 'Program'.

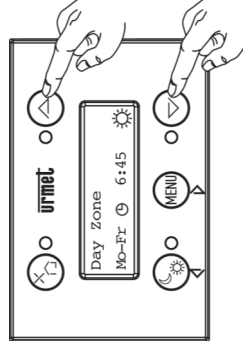


4. Press  to select 'Program'. The first programming step will appear on the display

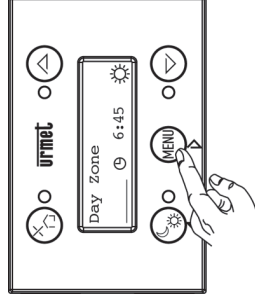
(the lower line will be empty if no programming steps have been entered yet).



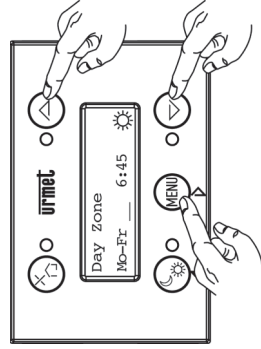
5. Use the arrows  and  to select an empty line to add a new program step. Use the arrows  and  to select the step to be changed, instead.



6. Press \triangleright to access the point to be added/changed. The first field (Frequency) will blink:

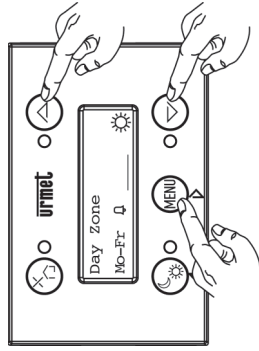


7. Use the arrows \triangleleft and \triangleright to select the day or days when to switch the reference temperature. Press \triangleright to confirm.

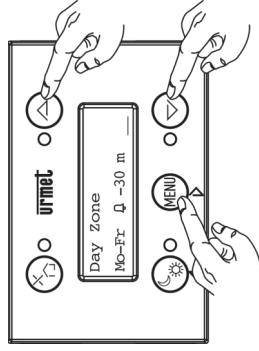


8. Use the arrows \triangleleft and \triangleright to set the switching time. There are three possibilities:
- ☉ at a set time
 - 🕒 at an adjustable time: Wake-up time +/- offset
 - 🛏 at an adjustable time: Go-to-bed time +/- offset

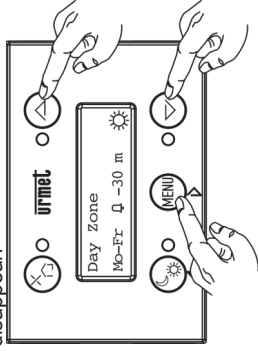
Press \triangleright after selecting.




9. Use the arrows \triangleleft \triangleright and \triangleright to set the following as previously selected:
- precise switching hours and minutes
 - or the offset to be applied to Wake-up time or Go-to-bed time (15 minute multiples in this case):






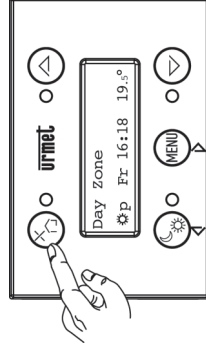
10. Use the arrows \triangleleft and \triangleright to select the reference temperature (Comfort / Day temp / Night temp or Anti-freeze (or Safe)) when to switch. Press \triangleright to confirm. The blinking cursor will disappear.



11. Repeat steps from 5 to 10 to add or change other programme steps. At the end, press  to exit programming.




3.3.2. How to delete a programme step

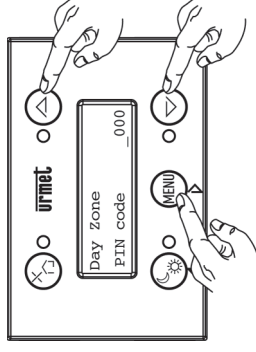
1. Select the zone by repeatedly pressing the  button to select the required zone, e.g. day zone or night zone.
Wait a few minutes for the two yellow LEDs on the right associated to the two arrows  and  to stop blinking.



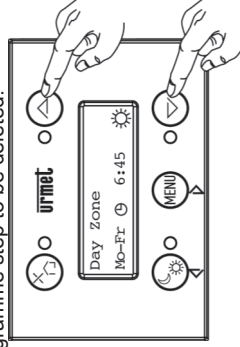
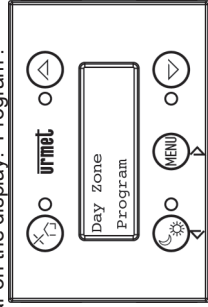
2. Hold **MENU** pressed to access the Advanced Menu.

 By default, the system switches automatically to the Advanced Menu after

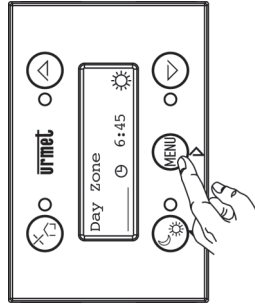
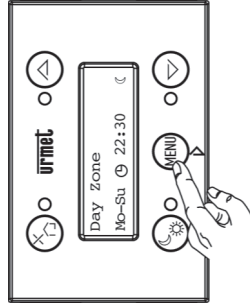
holding **MENU** pressed for longer than four seconds. It is possible to request the use of a four-digit password to enter this function using IPerSet. The prompt to insert your password will appear: select the first digit of the password using the arrows  and  and press  to confirm. Repeat for the other three digits.



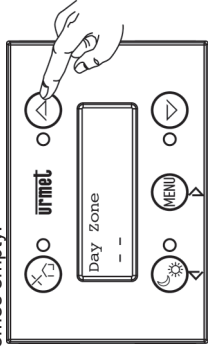
3. The first option of the Advanced Menu will appear on the display: 'Program'.
5. Use the arrows \triangleleft and \triangleright to select the programme step to be deleted.




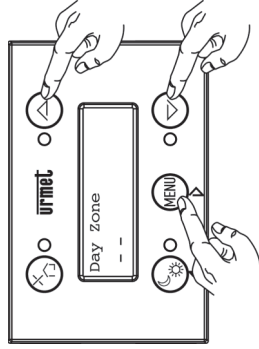
4. Press \triangleright to select 'Program'. The first programming step will appear on the display (the lower line will be empty if no programming steps have been entered yet).
6. Select the programme step to be deleted using the button \triangleright . The first field (Frequency) will blink:




7. Press the button  until the programme line becomes empty.




8. Press  to confirm deletion. The programme step will be deleted from the memory. The blinking cursor will disappear and the next programme step will appear. This is the last step of the program. The display will remain empty.



9. Repeat steps from 5 to 8 to delete other programme steps. At the end, press  to exit programming.

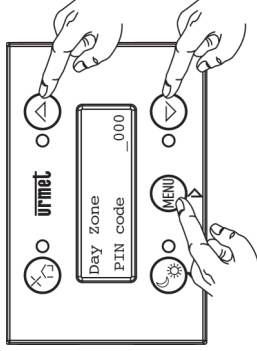
3.4 Contrast

The contrast of the display is set to 63% by default. This value can be changed ⁽⁶⁾ as follows.

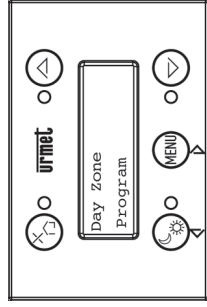
1. Hold **MENU** pressed to access the Advanced Menu.  By default, the system switches automatically to the Advanced Menu after holding **MENU** pressed for longer than four seconds. It is possible to request the use of a

⁽⁶⁾ The value can be changed by the installer by using IperSet.

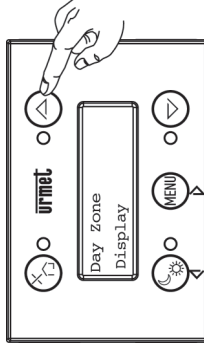
four-digit password to enter this function using iPerSet. The prompt to insert your password will appear: select the first digit of the password using the arrows \triangleleft and \triangleright and press \triangleright to confirm. Repeat for the other three digits.



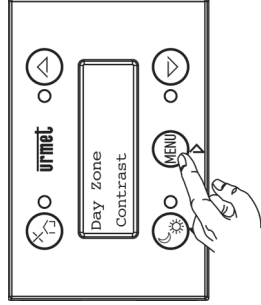
2. The first option of the Advanced Menu will appear on the display: 'Program'.





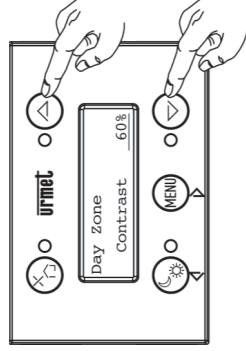
3. Select 'Display' by pressing \triangleleft (and/or \triangleright) once.




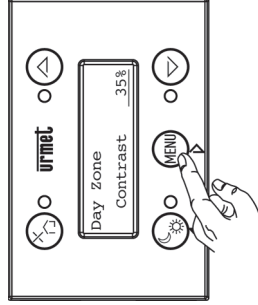
4. Press  to select 'Display'.



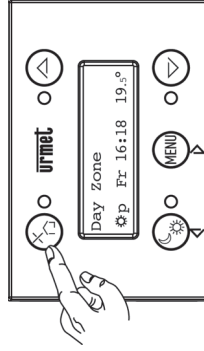
6. Use the arrows  and  to change the contrast level.



5. Press  to select 'Contrast'.



7. Press  to confirm. Press  to exit the menu.



3.5 Backlighting

The backlighting level of the display may assume two different values over the 24 hour period (day and night).

For example, it is possible to have a brighter backlighting level during the day (starting from a given time <1>, e.g. 8:00 a.m.) and then a dimmer backlighting level during the night (starting from another time <2>, e.g. 11:30 p.m.). In this way, the backlighting level can be decreased at time to avoid annoyance.

In all cases, regardless of the current level, the backlighting is taken back to the maximum level to allow to operate the temperature controller easily when any button is pressed and switches back to the current value after approximately one minute of non-use.

The default values are:

<1> 7:00 → 100%

<2> 23:00 → 100%

So, if the value is not reprogrammed the backlighting level will always remain set to the maximum and will not change for day and night.

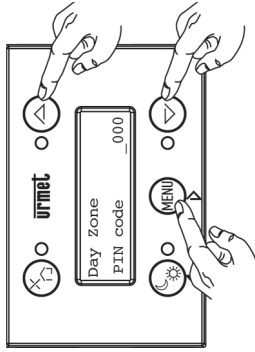
Proceed as follows to change ⁽⁷⁾ the switching times

or levels:

1. Hold **MENU** pressed to access the Advanced Menu.

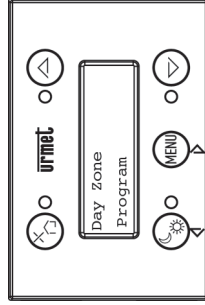


By default, the system switches automatically to the Advanced Menu after holding **MENU** pressed for longer than four seconds. It is possible to request the use of a four-digit password to enter this function using IPerSet. The prompt to insert your password will appear: select the first digit of the password using the arrows \triangleleft and \triangleright and press \triangleright to confirm. Repeat for the other three digits.

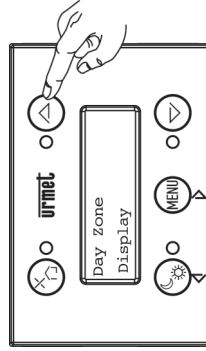


(7) The value can be changed by the installer by using IPerSet.

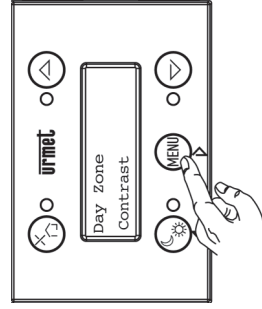
2. The first option of the Advanced Menu will appear on the display: 'Program'.



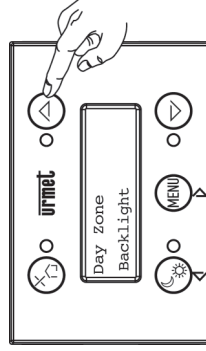
3. Select 'Display' by pressing \triangle (and/or ∇) once.



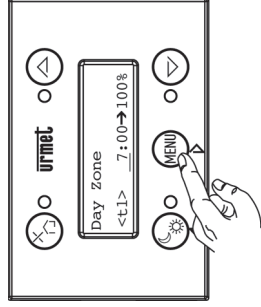
4. Press \triangleright to select 'Display'.



5. Select 'Backlight' by pressing \triangle (and/or ∇) once.



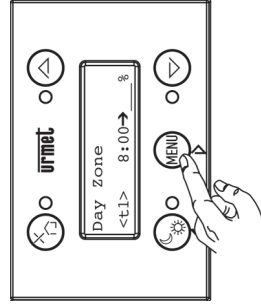
6. Press \triangleright to select the 'Backlight' menu.



The switching time <t1> will appear after which the 'day' backlighting level is set.


- The time will start blinking. Set the time using the \triangle ∇ arrows.
- Press \triangleright to confirm.
- The minutes will start blinking. Set the minutes using the \triangle ∇ arrows.


Press \triangleright to confirm. The backlighting value to be set during the day will start blinking at this point

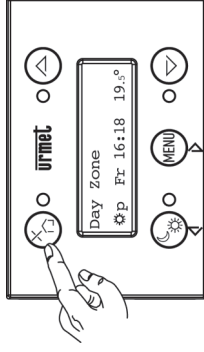


Use the arrows \triangle ∇ to set the 'day' backlighting value.
Press \triangleright to confirm.

7. Repeat to set <t2>, i.e. the switching time after which 'night' backlighting is used and then the respective backlighting value.

Press  to confirm.

Press  to exit the menu.



4. MAINTENANCE

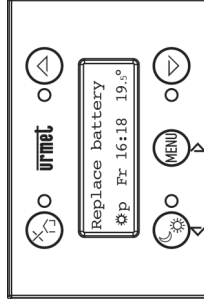
4.1. How to change the battery

If the temperature controller was set (using iPerSet) as master module, it will synchronise all the other modules in the system every 17 hours or whenever power comes back after a blackout (see paragraph 3.1).

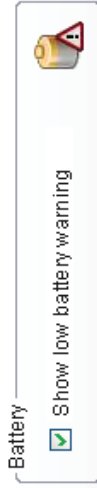
This function is guaranteed by the presence of a 3V CR2032 backup battery which must be installed in the specific support under the rear lid.

It is advisable to install the battery only when the bus is power to prevent early drainage.

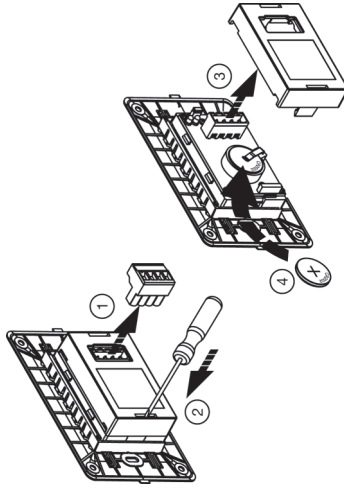
The following message will appear on the temperature controller when the battery is flat and must be replaced:



IMPORTANT: This message will only appear if the function was previously enabled in IPerSet. Select the 'General' tab of the temperature controller configuration menu:



Replace the battery as shown in the figure. Reset day and time as shown in paragraph 3.1.



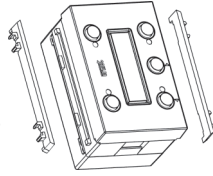
5. INSTALLATION

The temperature controller may be installed exclusively in the main three-module 503 switches using the adapters provided:

Switch types	Adapter	Par.
Simon Urmet NEA	n° 9	5.1.
ABB	n° 1 (cut)	5.4.
AVE	n° 3	5.6.
BTicino	Axolute	n° 5
	Living Light	none
	Living International	none
Gewiss	Magic TT	n° 4
	Matix	n° 4
	Playbus	n° 1
	Chorus	n° 7
Vimar	Eikon	n° 6
	Idea	n° 1
	Plana	n° 2

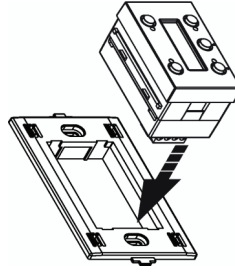
5.1. Number 9 adapters

Fit the number 9 adapters in the following manner:



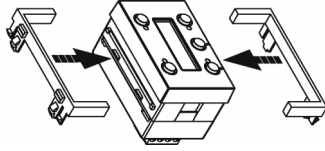
5.2. No adapter

No adapter is needed to fit the device in these frames. Simply insert the temperature controller in the frame and push it until it snaps into position.

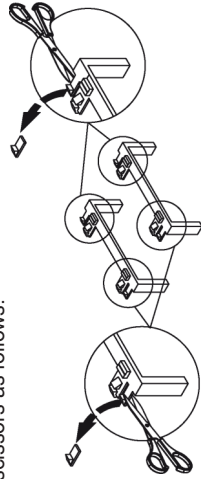


5.3. Number 1 adapters

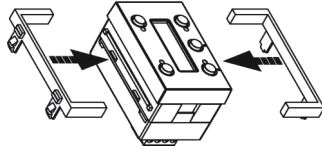
Fit the number 1 adapters in the following manner:



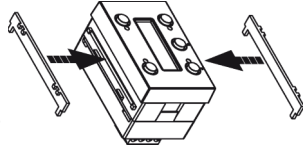
5.4. Number 1 adapters (cut)
Remove some parts of the number 1 adapter using scissors as follows:



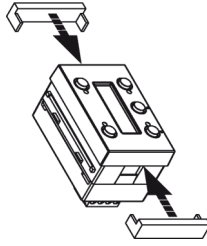
Assemble as follows after having removed the parts in excess:



5.5. Number 2 adapters
Fit the number 2 adapters in the following manner:

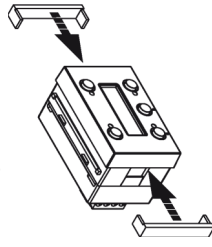


5.6. Number 3 adapters
Fit the number 3 adapters in the following manner:



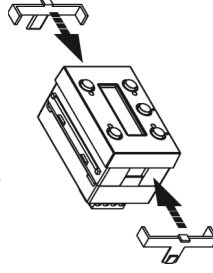
5.7. Number 4 adapters

Fit the number 4 adapters in the following manner:



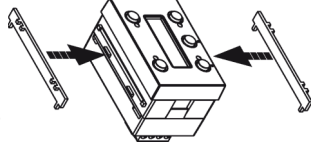
5.8. Number 5 adapters

Fit the number 5 adapters in the following manner:



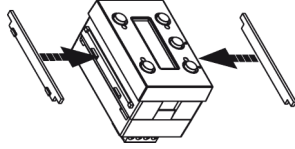
5.9. Number 6 adapters

Fit the number 6 adapters in the following manner:



5.10. Number 7 adapters

Fit the number 7 adapters in the following manner:



6. TECHNICAL CHARACTERISTICS

Electrical characteristics

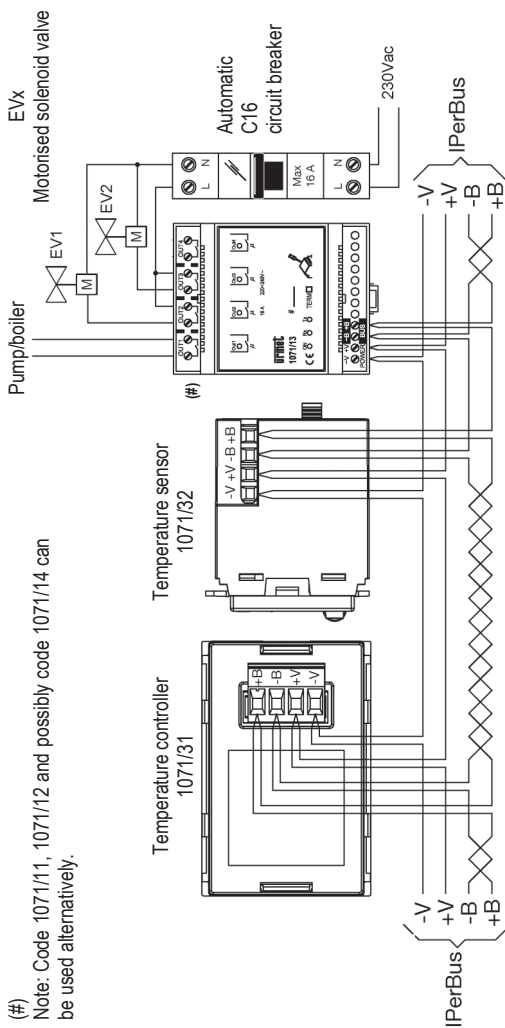
- Powered by Bus: 1 CU
- Bus terminal configurable by means of jumper arranged under the rear lid: TERM
- Backlit display: two 16-character lines
- Separately programmable day and night display brightness with programmable switching time
- 3V CR2032 backup battery included

Logical characteristics

- Capable of managing up to 32 temperature sensors 1071/32, each of which is associated to a specific zone
- Configurable with IPerSet software, via USB (see 1071/56)
- 254 possible logical addresses
- User menu
- Advanced Menu, optionally password-protected (default: no password)

- **Mechanical characteristics**
 - Mechanical components for installation in 503 box
 - Adapters for connecting to the following switches (included):
 - Simon Urmet Nea
 - ABB Elos
 - Ave 45 system
 - BTicino Axolute
 - BTicino Living International
 - BTicino LivingLight
 - BTicino Magic TT
 - BTicino Matix
 - Gewiss Chorus
 - Gewiss Playbus
 - Vimar Eikon
 - Vimar Idea
 - Vimar Plana
 - Removable rear flap for accessing the bus TERM and supporting the 3V CR2032 backup battery
 - Dimensions:
 - 66 x 44 x 50 mm
 - [2.58 x 1.73 x 1.96"]
 - Extractable bus terminal board
 - Wire max. section for terminal pins:
 - stranded wire 2,5 mm² [AWG13]
 - unipolar wire 2,5 mm² [AWG13]
 - Operating temperature range:
 - 5 ÷ +50°C
- Degree of protection: IP40
 • Reference standards: EN 60669-2-1
 EN 60669-1

Connection example



(#)

Note: Code 1071/11, 1071/12 and possibly code 1071/14 can be used alternatively.

DS1071-024A

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