

EN

26/04 - 6181010\_02  
Translation of Original instructions

# RPF

User manual



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**ELECTRONIC CONTROLLER**



[www.aermec.com](http://www.aermec.com)



Dear Customer,

Thank you for wanting to learn about a product Aermec. This product is the result of many years of experience and in-depth engineering research, and it is built using top quality materials and advanced technologies.

The manual you are about to read is meant to present the product and help you select the unit that best meets the needs of your system.

However, please note that for a more accurate selection, you can also use the Magellano selection program, available on our website.

Aermec, always attentive to the continuous changes in the market and its regulations, reserves the right to make all the changes deemed necessary for improving the product, including technical data.

Thank you again.

Aermec S.p.A.

#### SAFETY CERTIFICATIONS



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled disposal of Waste Electrical and Electronic Equipment (WEEE), please return the device using appropriate collection systems, or contact the retailer where the product was purchased. Please contact your local authority for further details. Illegal dumping of the product by the user entails the application of administrative sanctions provided by law.

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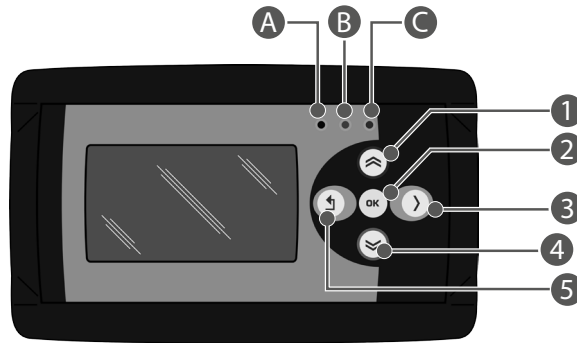
All specifications are subject to change without prior notice. Although every effort has been made to ensure accuracy, Aermec shall not be held liable for any errors or omissions.



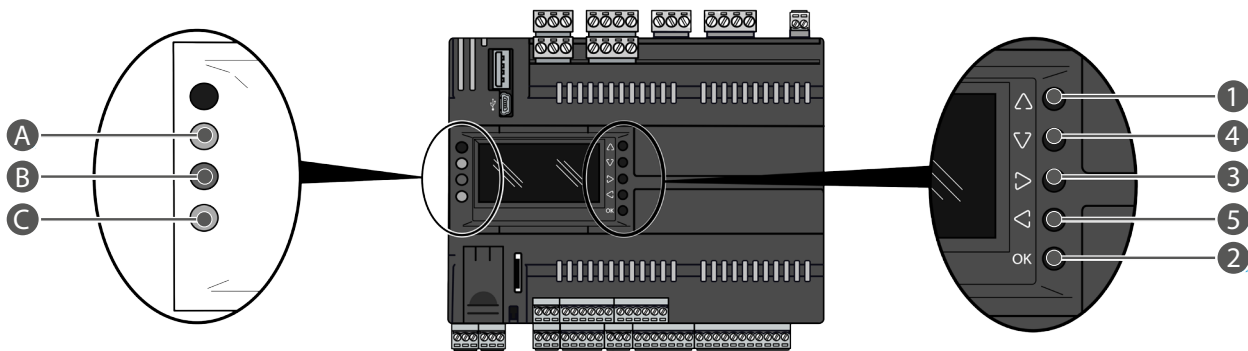
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# 1 KEY FUNCTIONS






Button	Symbol	Function
1		<ul style="list-style-type: none"> <li>• Scrolls up the menu icons</li> <li>• Changing of parameter and set values (in Edit Mode)</li> </ul>
2		<ul style="list-style-type: none"> <li>• Confirm</li> <li>• Enters the menu (selected icon)</li> <li>• Enters Edit Mode</li> <li>• Exits Edit Mode applying the changes</li> </ul>
3		Moves cursor to the right (in Edit Mode)
4		<ul style="list-style-type: none"> <li>• Scrolls down the menu icons</li> <li>• Changing of parameter and set values (in Edit Mode)</li> </ul>
5		<ul style="list-style-type: none"> <li>• Goes back to previous menu</li> <li>• Moves cursor to the left (in Edit Mode)</li> <li>• Exits Edit Mode (if prolonged pressure) without changes</li> </ul>

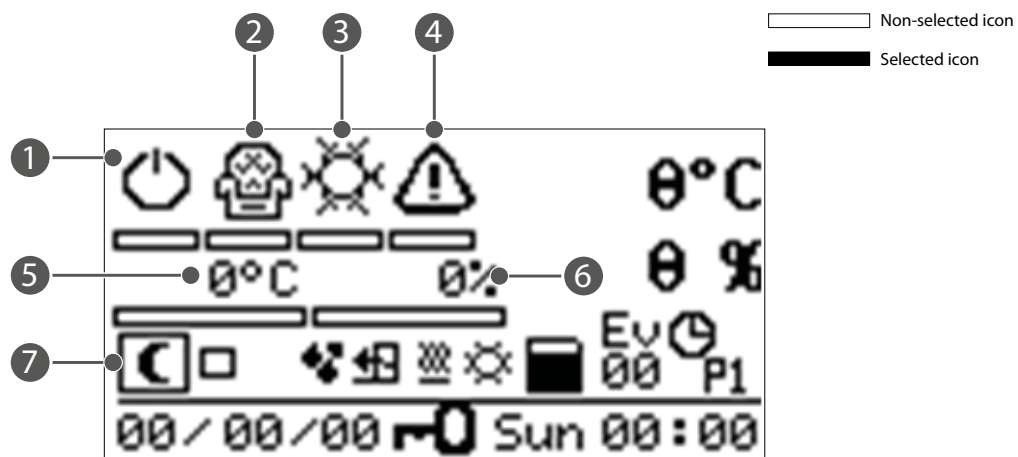


Button	Symbol	Function
1		<ul style="list-style-type: none"> <li>• Scrolls up the menu icons</li> <li>• Changing of parameter and set values (in Edit Mode)</li> </ul>
2		<ul style="list-style-type: none"> <li>• Confirm</li> <li>• Enters the menu (selected icon)</li> <li>• Enters Edit Mode</li> <li>• Exits Edit Mode applying the changes</li> </ul>
3		Moves cursor to the right (in Edit Mode)
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5		<ul style="list-style-type: none"> <li>• Goes back to previous menu</li> <li>• Moves cursor to the left (in Edit Mode)</li> <li>• Exits Edit Mode (if prolonged pressure) without changes</li> </ul>

■ *Edit Mode: changes parameters and set*

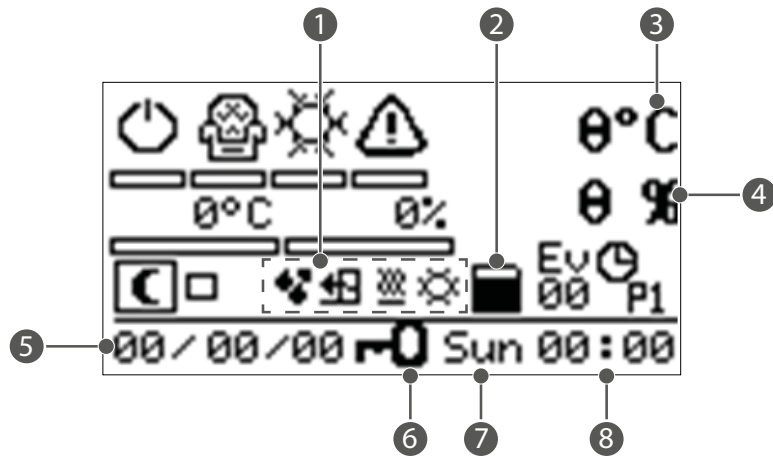
LED	Colour	Function
A	 Red	Alarm
B	 Yellow	Updates application
C	 Green	Unit on ON

## 2 MEANING OF SELECTABLE ICONS




- 1 On/Off
- 2 "Comfort Economy" function
- 3 Hot/Cold/Auto
- 4 Alarm Presence
- 5 Set T °C
- 6 Set UR %
- 7 "Night" function

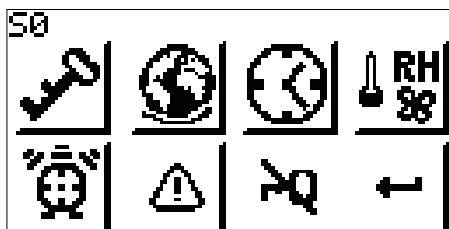
### 3 MEANING OF NON-SELECTABLE ICONS







- 1 Mode and status operation
- 2 Freecooling/Freeheating
- 3 Adjustment temperature
- 4 Adjustment humidity
- 5 Date
- 6 Block keyboard
- 7 Day
- 8 Time

## 4 LANGUAGE SETTING




With prolonged pressure (3 sec) on key  the following menu appears:




Using keys  and  select icon  and confirm with  and the following menu appears:







Push .

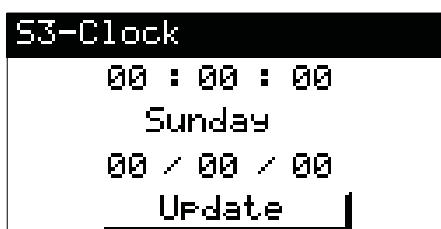
Using keys  and  select language and confirm with .




## 5 TIME SETTING

With prolonged pressure (3 sec) on key  the following menu appears:





Using keys  and  select icon  and confirm with  and the following menu appears:



Using keys  and  select the data to be set (hour, minutes, seconds, day of week, day, month, year) and confirm with .


This operation accesses Edit Mode.

The cursor indicates the label to be modified.


Using keys  and , move the cursor on the value to be changed.




Using keys  and  set the wanted value: confirm with .


Repeat the operation for all labels to be modified.

To exit select "update" and confirm with .

## 6 UNIT ON/OFF


To turn on the unit press .


To turn off the unit select the "On/Off" icon using keys  and  and confirm with .

If  is present it means DI1 is open.

## 7 "COMFORT ECONOMY" SETTING







Using keys  and  select icon  or  and confirm with .


— If icon  is present, the unit is in comfort mode


— If icon  is present, the unit is in economy mode


Feature present only with unit On.

## 8 OPERATION MODE SETTING

Using keys  and  select icon  or  or  and confirm with  to change mode:

— If icon  is present, the unit is in cooling mode only

— If icon  is present, the unit is in heating mode only

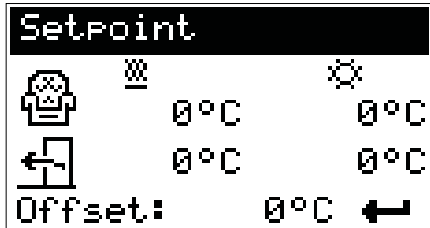
— If icon  is present the unit is in automatic mode

(mode change from adjustment probe).

Feature present only with unit On.

## 9 T °C SETTING

Using keys and select icon and confirm with and the following menu appears:



Using keys and select the set to be set (hot in comfort, hot in economy, cold in comfort, cold in economy) and confirm with .

This operation accesses Edit Mode.

The cursor indicates the label to be modified.

Using keys and , move the cursor on the value to be changed.

Using keys and set the wanted value.

Confirm with .

Repeat the operation for all labels to be modified.

To exit select and confirm with .

### NOTICE

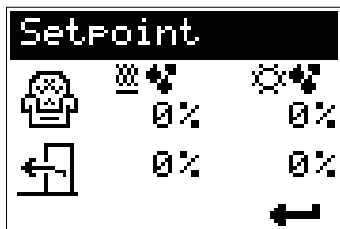


**Always respect:** hot economy set < hot comfort set < cold comfort set < cold economy set

Feature present only with unit On.

## 10 RH % SETTING

Using keys and select icon and confirm with and the following menu appears:



Using keys and select the set to be set (hot humidity in comfort, hot humidity in economy, cold humidity in comfort, cold humidity in economy) and confirm with .

This operation accesses Edit Mode.

The cursor indicates the label to be modified.

Using keys and , move the cursor on the value to be changed.

Using keys and set the wanted value.

Confirm with .

Repeat the operation for all labels to be modified.

To exit select and confirm with .

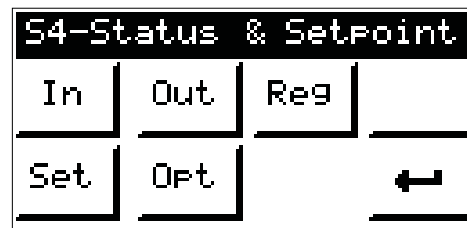
Feature present only with unit On.

## 11 CO2 AIR QUALITY SETTING

With prolonged pressure (3 sec) on key the following menu appears:



Using keys and select icon and confirm with and the following menu appears:



Using keys and select icon and confirm with .

Using keys and select the CO<sub>2</sub> ppm set and confirm with .

This operation accesses Edit Mode.

The cursor indicates the label to be modified.

Using keys and , move the cursor on the value to be changed.


Using keys and set the wanted value: confirm with .

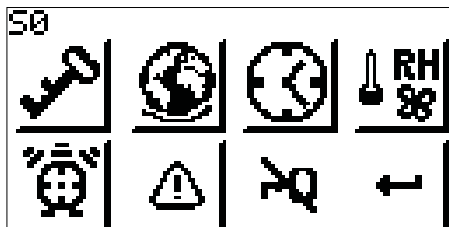
With prolonged pressure (3 sec) on key you will return to previous menu.




To exit, select and confirm with until the main screen appears again.

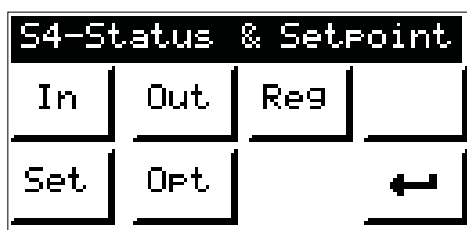
Feature present with Unit On and Off.




## 12 VOC AIR QUALITY SETTING



With prolonged pressure (3 sec) on key  the following menu appears:



Using keys  and  select icon  and confirm with **OK** and the following menu appears:







Using keys  and  select icon  and confirm with **OK**.


Using keys  and  select the VOC % set and confirm with **OK**.

This operation accesses Edit Mode.

The cursor indicates the label to be modified.

Using keys  and , move the cursor on the value to be changed.


Using keys  and  set the wanted value: confirm with **OK**.

With prolonged pressure (3 sec) on key  you will return to previous menu.

To exit, select  and confirm with **OK** until the main screen appears again.

Feature present with Unit On and Off.


## 13 "NIGHT" FUNCTION SETTING

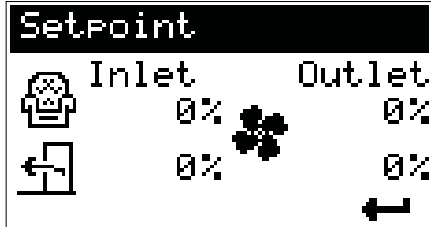
Using keys  and  select icon  and confirm with **OK**.




If the box next to the icon is ticked, the "Night" mode is active.

Feature present only with unit On.

## 14 SETTING OF FAN SPEED WITH CONTROL CMF – CCO2 – CVOC – CPOCO2 - CPOVOC



With prolonged pressure (3 sec) on key  the following menu appears:






Using keys  and  select the set to be set (comfort return fan, economy return fan, comfort flow fan, economy flow fan) and confirm with .



This operation accesses Edit Mode.

The cursor indicates the label to be modified.





Using keys  and , move the cursor on the value to be changed.




Using keys  and  set the wanted value; confirm with .

Repeat the operation for all labels to be modified.

To exit select  and confirm with .



Feature present only with unit On.




Using keys  and  select icon  and confirm with .

Using keys  and  select the flow rate set (auto flow, auto eco flow, auto return, auto eco return) and confirm with .


This operation accesses Edit Mode.



The cursor indicates the label to be modified.

Using keys  and , move the cursor on the value to be changed.

Using keys  and  set the wanted value; confirm with .


Repeat the operation for all labels to be modified.

With prolonged pressure (3 sec) on key  you will return to previous menu.





To exit, select  and confirm with  until the main screen appears again.

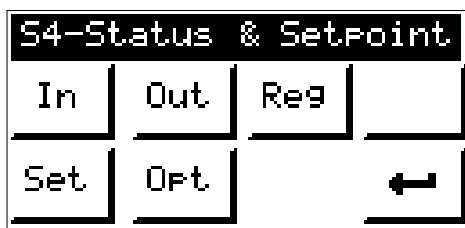
Feature present with Unit On and Off.

## 15 FAN FLOW RATE WITH CPOC CONTROL SETTING


With prolonged pressure (3 sec) on key  the following menu appears:

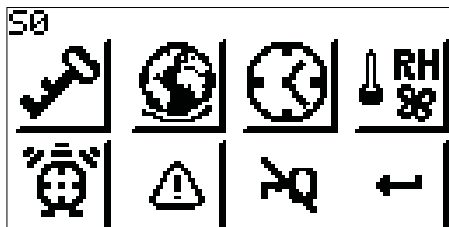





Using keys  and  select icon  and confirm with  and the following menu appears:

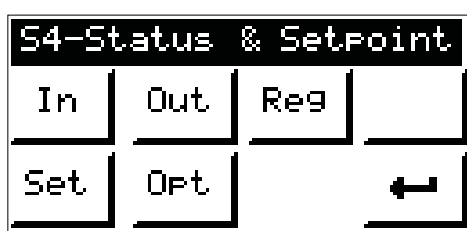





## 16 FAN PRESSURE WITH CPRC CONTROL SETTING



With prolonged pressure (3 sec) on key  the following menu appears:








Using keys  and  select icon  and confirm with **OK** and the following menu appears:



Using keys  and  select icon  and confirm with **OK**.



Using keys  and  select the pressure set (auto flow, auto eco flow, auto return, auto eco return) and confirm with **OK**.



Using keys  and  select icon  and confirm with **OK**.

Using keys  and  select the flow rate set (auto flow, auto eco flow, auto return, auto eco return) and confirm with **OK**.


This operation accesses Edit Mode.

The cursor indicates the label to be modified.

Using keys  and , move the cursor on the value to be changed.

Using keys  and  set the wanted value; confirm with **OK**.

Repeat the operation for all labels to be modified.

With prolonged pressure (3 sec) on key  you will return to previous menu.

To exit, select  and confirm with **OK** until the main screen appears again.

Feature present with Unit On and Off.

## 17 ALARM PRESENCE

With LED  (Red) (A):

— **Permanent:** alarm present and not resettable

— **Flashing:** alarm present and resettable

Using keys  and  select icon  and confirm with  to display alarm.


If resettable alarms are present, keep  pressed to restart the unit.

Feature present with Unit On and Off.

## 18 LIST OF ALARMS

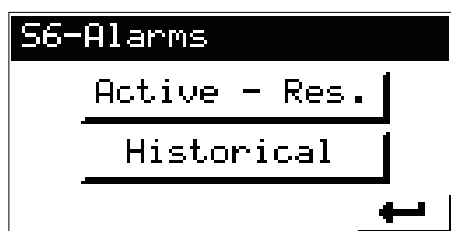
Code	Meaning	Problem
E01	Expansion communication	<ul style="list-style-type: none"> <li>No connection between controller and expansion;</li> <li>No expansion power supply.</li> </ul>
E14	Adjustment probe (return or flow)	Probe faulty or disconnected
E03	External temperature probe	Probe faulty or disconnected
E04	Return temperature probe	Probe faulty or disconnected
E05	Flow temperature probe	Probe faulty or disconnected
E24	Ejection probe	Probe faulty or disconnected
E29	Hot coil water temperature probe	Probe faulty or disconnected
E30	Promiscuous or cold coil water temperature probe	Probe faulty or disconnected
E18	Antifreeze probe	Probe faulty or disconnected
E12	Humidity probe	Probe faulty or disconnected
E20	Air quality probe (Voc or CO <sub>2</sub> )	Probe faulty or disconnected
E08	Return pressure probe	Probe faulty or disconnected
E09	Flow pressure probe	Probe faulty or disconnected
E06	Recovery fan	<ul style="list-style-type: none"> <li>No motor power supply;</li> <li>Fan motor alarm connection faulty or disconnected;</li> <li>Faulty motor.</li> </ul>
E07	Delivery fan	<ul style="list-style-type: none"> <li>No motor power supply;</li> <li>Fan motor alarm connection faulty or disconnected;</li> <li>Faulty motor.</li> </ul>
E15	Air flow from return pressure probe	<ul style="list-style-type: none"> <li>No motor power supply;</li> <li>Faulty motor.</li> </ul>
E16	Air flow from flow pressure probe	<ul style="list-style-type: none"> <li>No motor power supply;</li> <li>Faulty motor.</li> </ul>
E27	Air flow from return pressure switch	<ul style="list-style-type: none"> <li>No motor power supply;</li> <li>Faulty motor.</li> </ul>
E28	Air flow from flow pressure switch	<ul style="list-style-type: none"> <li>No motor power supply;</li> <li>Faulty motor.</li> </ul>
E10	Dirty filters	Filters to be cleaned
E13	Fire/Smoke	
E17	Recovery unit antifreeze	
E19	Clock	
E21	Regolazione della ventola	Fan adjustment probe (pressure or VOC or CO <sub>2</sub> ) failure
E22	Hot water, cold water and main electric coil alarm (no pre-heating, no post-heating)	
E23	Promiscuous or hot coil antifreeze	<ul style="list-style-type: none"> <li>Frost temperature risk at coil output;</li> <li>Thermostat faulty or disconnected.</li> </ul>
E25	Humidifier	Faulty humidifier
E02	Antifreeze/pre-heat electric coil circuit breaker	<ul style="list-style-type: none"> <li>Automatic thermostat active;</li> <li>Manual thermostat active;</li> <li>Thermostat faulty or disconnected.</li> </ul>
E26	Post-heating electric coil circuit breaker	<ul style="list-style-type: none"> <li>Automatic thermostat active;</li> <li>Manual thermostat active;</li> <li>Thermostat faulty or disconnected.</li> </ul>
E31	Low hot coil water temperature	No hot water for heating
E32	High cold coil water temperature	No cold water for cooling

## 19 ALARM HISTORY

With prolonged pressure (3 sec) on key  the following menu appears:



Using keys  and  select icon  and confirm with  and the following menu appears:



Using keys  and  select "log" and confirm with .


Using keys  and  scroll the alarms.

With prolonged pressure on key  you will return to previous menu.

To exit, select  and confirm with  until the main screen appears again.

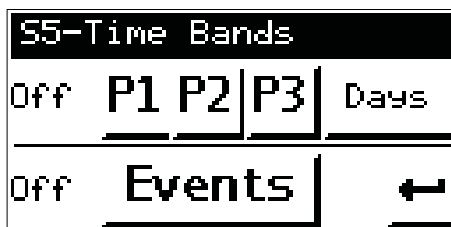
Feature present with Unit On and Off.



## 20 TEMP. TIMER

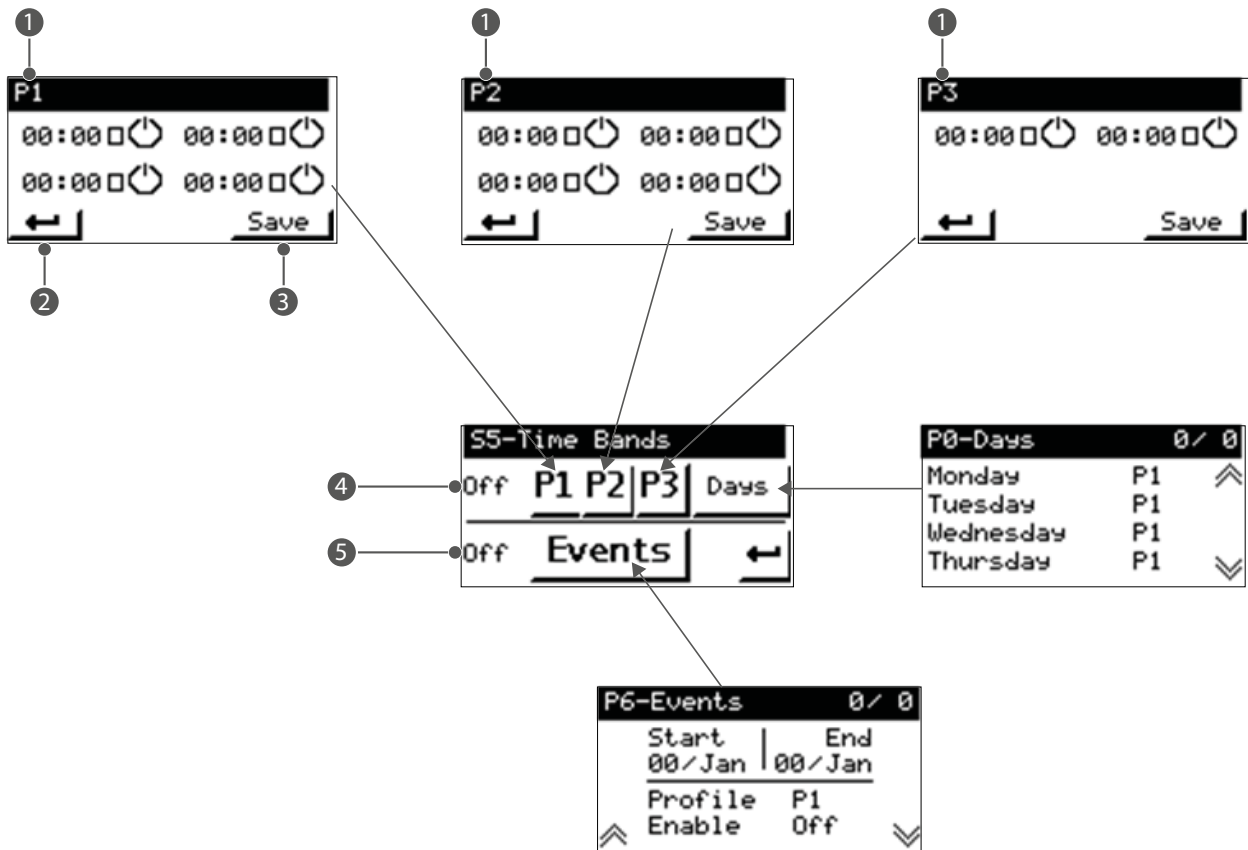
With prolonged pressure (3 sec) on key  the following menu appears:



Using keys  and  select icon  and confirm with  and the following menu appears:



Using keys  and  select the program (P1-P2-P3) to be set or the days or holidays.



- 1 Daily program
- 2 Save without exiting
- 3 Save
- 4 Daily events On/Off
- 5 Long period (holidays) events On/Off

Using keys and select the setting to be modified and confirm with .

This operation accesses Edit Mode.

The cursor indicates the label to be modified.

Using keys and , move the cursor on the value to be changed.

Using keys and set the wanted value; confirm with .

Repeat the operation for all labels to be modified.

The changes are applied with the "save" key while exits without saving.

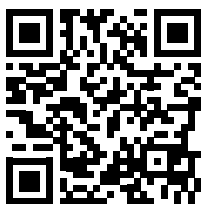
Feature present with Unit On and Off.





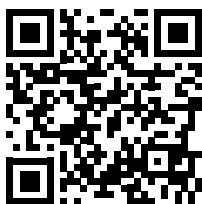


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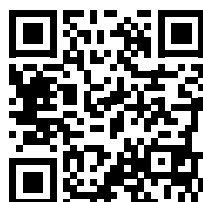
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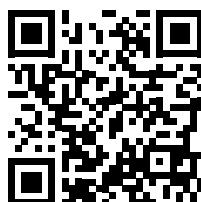
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