



# Programmable Room Thermostat

Installation and User Manual



# PROGRAMMABLE ROOM THERMOSTAT



## Overview

The Programmable Room Thermostat controls and regulates the room temperature. The thermostats should be positioned 1.2m from the floor and away from other heat producing appliances.

## Note

Programmable Room Thermostats differ in operation from conventional Room Controls as they not only set a maximum room temperature but also set a minimum temperature that the room temperature is allowed to fall to. This is particularly important when controlling floor heating systems as the heating response is slower than that of conventional radiators.

## Features

- 7 Day Programme
- 5 built in and 2 User Defined Programmes
- Holiday Function
- Frost Protection programme
- Battery replacement without loss of programme

## Operating Instruction - Display



1. Function mode
2. Installer's or user's menu
3. Block number in programme mode Display running programme in AUTO mode
4. Display of temperature, task, hour or title of the parameter when "2" is indicated
5. The ambient temperature is indicated
6. Keyboard locked
7. Mode Auto
8. Temporary deviation
9. Cooling demand
10. Heating demand
11. Replace batteries
12. Days of the week

## Quick Set-Up

Clock must be set first.


Use the and keys to change the mode








### 1 Setting the Time and Day

Push : the hour blinks, then you can adjust the hour by using and keys, press the key again: the day of the week blinks, you can choose the day now by using the and . For example: 1=Monday. Push the key to validate your adjustments.

## 2 **P** Choose a Programme for The Room

Push the  key: the number of the current programme blinks.

- You can choose a programme now by using  and . (P1 standard)
- By pressing the  key, you can display the programme in case of a built-in programme (P1 to P5)
- By using  and  the programme operates between the temperatures Occupied Temperature (default 21°C) & The Setback Temperature (default 17°C)

### Built-in programmes descriptions (see details page 6)

P1: Morning, evening and weekend



P2: Morning, noon, evening and weekend

P3: 7h - 19h (office) evening and weekend

P4: Weekend (secondary house)

P5: 8h - 19h, Saturday (shop)



## 3 **Auto** Set to Auto

Use the  and  keys to Auto Mode - After a few seconds the Room Temperature and Time will be displayed.

### Operating Instructions of all Functions




Use the  and  keys to change the mode.

#### Mode HOLIDAYS




Use this function during a long absence. Use the keys  and  for controlling:

- The duration in hours «H» when it's less than 24h in days «d»
- The desired temperature for this period (adjustable between 5°C and 35°C). To exit the HOLIDAYS mode, set duration on «no».




#### Mode OCCUPIED

Use this function to set your installation in occupied mode. Use the keys  and  to adjust the occupied temperature. The «occupied» temperature of the thermostat is unlimitedly maintained. Push the  for an instantaneous adjustment display (default setting: 21°C).





#### **Auto** Mode AUTO

The thermostat follows the chosen programme in accordance with the actual hour. By using the  and  keys you can adapt the temperature until the next change within the programme. The symbol  is displayed.








#### Mode SETBACK TEMPERATURE

Using this function to put your installation in "setback temperature mode". Use the  and  keys to adjust the setback temperature. The «setback» temperature of the thermostat is unlimitedly maintained. Push the  for an instantaneous adjustment display (default setting: 17°C)

#### Mode ANTI-FREEZE

Use this function if you want to protect your installation against frost. Use the  and  keys to adjust the anti-freeze temperature. The «Anti-freeze» temperature of the thermostat is  unlimitedly maintained. Push the  for an instantaneous adjustment display (default setting: 6°C)





#### Mode CLOCK ADJUSTMENT

Push : the hour blinks, then you can adjust the hour by using the  and  keys. Press the  key again: the day of the week blinks, you can choose the day now by using the  and . For example: 1=Monday. Push the  key to Valid your adjustments.

## Mode OFF

Use this function to switch off your installation. The programme's version is displayed for 5 seconds before the thermostat is switched off. Press 1 of the keys to restart the thermostat.

## Mode PROGRAMME

Push the  key: the number of the current programme blinks.  
 – You can choose a programme now by using  and .  
 (default setting: P1)  
 – By pressing the  key, you can display the programme in case of a built-in programme (P1 to P5) or you can create or adapt a user's programme (U1 and U2).  
 – The programme operates between the temperatures «comfort» and «reduced».

### Built-in programmes descriptions:

P1: Morning, evening & weekend








P2: Morning, noon, evening and weekend




P3: 7h - 19h (office) evening and weekend

P4: Weekend (secondary house)

P5: 8h - 19h, Saturday (shop)



### Keyboard Lock & Unlock Function

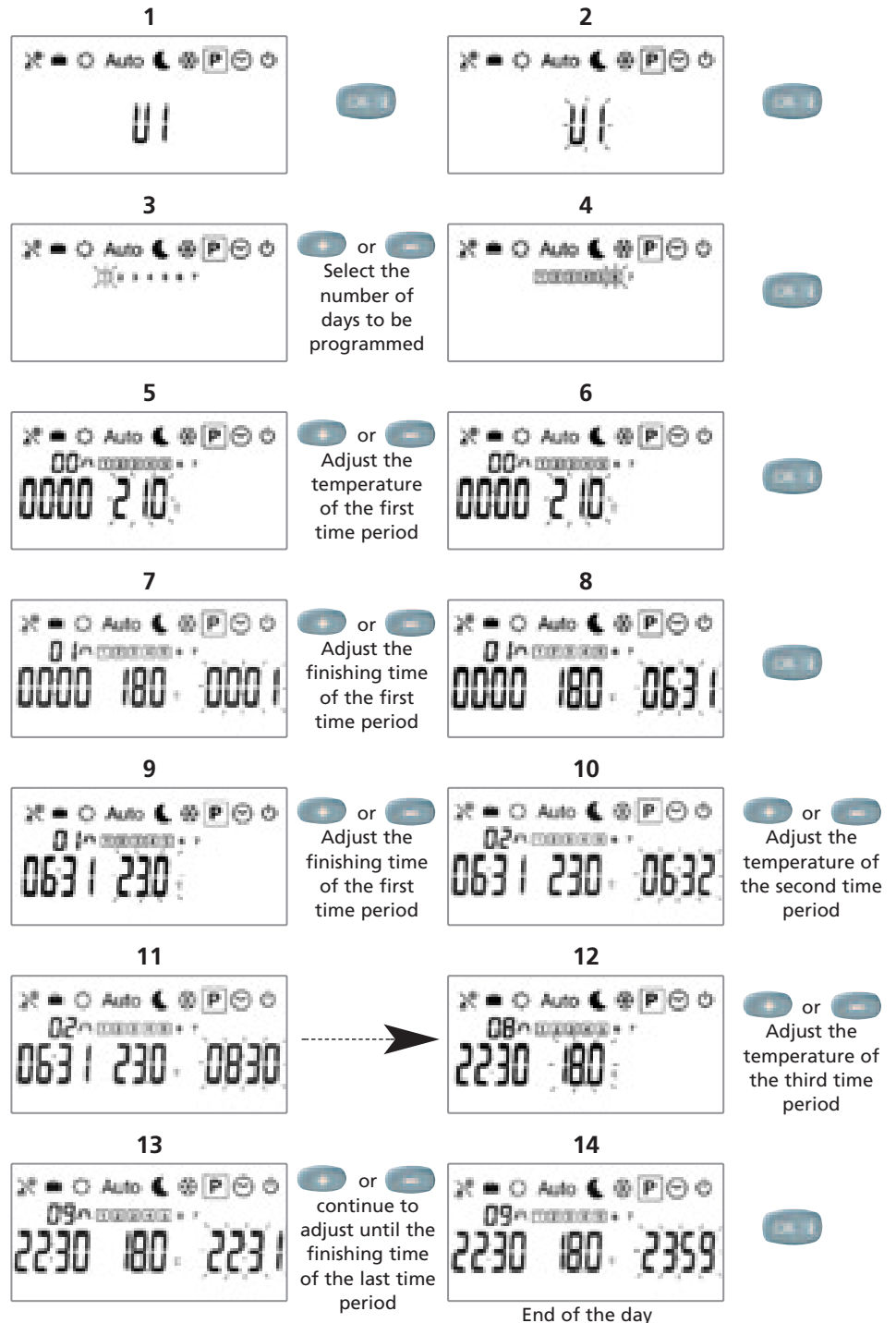
In , , ,  modes, you can lock the keyboard by pushing on the  key then  key, a  appears.

To unlock, push the  key then  key ( disappears)

## How can you create or change a user's programme (U1 or U2)

Number of the programme during the day  
 Starting hour of the programme  
 Identical days  
 Finishing hour of the programme  
 Temperature of the programme

Select one of the user's programme's U1 or U2 by using  and .



1  
U1

2  
U1

3  
Select the number of days to be programmed

4  
Adjust the temperature of the first time period

5  
Adjust the finishing time of the first time period

6  
Adjust the finishing time of the first time period

7  
Adjust the finishing time of the first time period

8  
Adjust the temperature of the second time period

9  
Adjust the temperature of the second time period

10  
Adjust the temperature of the second time period


11  
Adjust the temperature of the third time period

12  
Adjust the temperature of the third time period

13  
continue to adjust until the finishing time of the last time period

14  
End of the day

15  
Programme the remaining days

To programme the remaining days, repeat step «4» to «14» and this for all the days of the week. \*(You can only leave the programme mode if all days have been filled in). Once you have run through the whole programming, you only have to put the thermostat in the mode 

## Installing the Wet Room Sensor (P23020)

Where time and temperature control needs to be applied to a bathroom or wet area, the wet area sensor can be installed within the wet room and connected to the programmable Room Thermostat installed in an adjacent dry area.

As shown



The Sensor can either remain in the supplied housing and be wall mounted or be removed from the housing and be used as a floor surface sensor.

To Enable the Room Thermostat to operate from the sensor only, you need to enable the User Menu.

Your Thermostat has two menus with parameters:




To Enter these Menus go to  and keep the  pressed.

The first Menu will show – \*01

Keep  pressed and the display will show – \*11

Use the  key until – \*14 SENSOR Air.



Use  to change to SENSOR FLor  
The Wet Room Sensor is now being used.

You do NOT need to press  but keep pressing  until – \*29 END then press .


## INSTALLER'S PARAMETERS Menu 1 and 2

(Clock must be set first)

Your thermostat has 2 menus with parameters.



In order to enter a menu, use , and select .

The first menu (Installer Menu 1) is meant for initial setup.


Keep pushing the  key for 5 seconds.


The second menu (Installer Menu 2) is meant for fine tuning of the system setup.


Keep pushing the  key for 10 seconds.

Once you have chosen a menu, go to the parameter which you can change by using  and .



Use the  and  keys to modify and confirm with .

To leave either menu, choose «End» and push .

\*When pushing  for a longer period in one of the function modes, the hour and programmes U1 and U2 will be set on '0'.

Parameters		INSTALLER'S MENU 1		
number	name	Description of the parameter	Factory value	Other possibility
01	°C °F	Select a type "°" on the display	°C	°F
02	12H 24H	Select type of hour. 12H - 24H time period	24H	12H (AM/PM)
03	CAL Air	Calibration of the internal probe (The calibration must be done after 12H working with the same setting temperature. Check the room temperature with a thermometer and enter the reel value)	Air sensor + 0°C	From -5°C to +5°C
04	CAL FLor	Calibration of the external probe (if connected) (The calibration must be done same as above)	Floor Sensor + 0°C	From -5°C to +5°C
09	End	Installer's Menu 1	Press 	

Parameters		INSTALLER'S MENU 2		
number	name	Description of the parameter	Factory value	Other possibility
11	<b>ItCS</b>	This automatic control system works in the following way: Intelligent Temperature Control System will activate your installation in advance to assure the desired temperature at the hour programmed following your weekly programme.	<b>«Yes»</b> Function active	<b>«no»</b> Function not active
12	<b>Out</b>	Type of output	<b>«nC»</b> Normally closed	<b>«no»</b> Normally open
13	<b>PUMP</b>	Anti-lock-braking function of the pump. When the pump hasn't worked on a particular day, start it up for one minute each day.	<b>«Yes»</b> Function active	<b>«no»</b> Function not active
14	<b>SEnSOR</b>	Selection of the sensor for regulation	<b>«Air»</b> or Room Sensor with floor limitation if floor sensor connected	<b>«Flor»</b> Floor sensor only
15	<b>rEGUL</b>	Selection of regulation type	<b>«bp»</b> Proportional band	<b>«hyst»</b> Static differential of 0.5°C
16	<b>t Cy</b>	Selection of the proportional band duration in minutes	<b>«15»</b> Slow system adapted to each heating type	Heating Application Burner oil «20» Burner gas «10» Zone valve «10» Heat pump «20» Ventilo convector «10»

Parameters		INSTALLER'S MENU 2		
number	name	Description of the parameter	Factory value	Other possibility
17	<b>t on</b>	Minimal starting time in minutes	«002»	Adjustable 0 to 5 in case of an installation with burner or heat pump, it is recommended to adjust value «3»
18	<b>t off</b>	Minimal resting time between 2 heating cycles in minutes	«002»	Adjustable 0 to 5 in case of an installation with burner or heat pump, it is recommended to keep value «3»
19	<b>bP</b>	Value of the proportional band	«002»	Adjustable 1°C to +4°C A well insulated house «1.5C» A not insulated house «4C»
20	<b>CP</b>	Compensating value	«0.0°C»	Adjustable 1°C to 12.7°C Increase the value according to the current load
21	<b>FLorLi Lo</b>	Lower limit of the floor temperature. Only effective if the external probe is connected and selected.	«18°C»	From 5°C to «FLorLi.Hi»
22	<b>FLorLi Hi</b>	Upper limit of the floor temperature. Only effective if the external probe is connected and selected.	«35°C»	From «FLorLi.Lo» to 37°C
23	<b>reset ALL</b>	All parameters are reloaded with default setting values	Press  during a few seconds	
29	<b>End</b>	To exit the installer's menu	Press 	

# Preset Programme Times Programmable Room Thermostat

PROGRAM	DAY	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
<b>P1 Morning, Evening and Weekend</b>																									
P1,1	Monday	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0
P1,2	Tuesday	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0
P1,3	Wednesday	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0
P1,4	Thursday	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0
P1,5	Friday	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0
P1,6	Saturday	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
P1,7	Sunday	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
<b>P2 Morning, Mid-day, Evening and Weekend</b>																									
P2,1	Monday	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	1	1	1	1	1	1	0
P2,2	Tuesday	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	1	1	1	1	1	1	0
P2,3	Wednesday	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	1	1	1	1	1	1	0
P2,4	Thursday	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	1	1	1	1	1	1	0
P2,5	Friday	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	1	1	1	1	1	1	0
P2,6	Saturday	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
P2,7	Sunday	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
<b>P3 07:00 - 19:00 (Office)</b>																									
P3,1	Monday	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
P3,2	Tuesday	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
P3,3	Wednesday	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
P3,4	Thursday	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
P3,5	Friday	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
P3,6	Saturday	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P3,7	Sunday	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>P4 08:00 - 19:00 (Shop)</b>																									
P4,1	Monday	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
P4,2	Tuesday	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
P4,3	Wednesday	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
P4,4	Thursday	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
P4,5	Friday	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
P4,6	Saturday	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
P4,7	Sunday	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>P5 Weekend (Second Dwellling)</b>																									
P5,1	Monday	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P5,2	Tuesday	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P5,3	Wednesday	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P5,4	Thursday	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P5,5	Friday	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
P5,6	Saturday	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
P5,7	Sunday	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1



The OFF times are night set back times and temperature (factory set at 17°C)

The ON times are comfort temperatures (factory set at 21°C)

The Frost protection setting (factory set at 6°C)



Clock Setting (Time of Day)

Program setting Mode (P1 - P5 plus U1 - U4 four user defined settings)

Automatic Operating Mode

# Programmable Room Thermostat



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