

Room thermostat KW4691- KG4691- KM4691

Installation manual



Room thermostat

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General information

Warnings and recommendations

It is important to read this manual carefully before proceeding with the installation. The warranty becomes automatically void in case of negligence, improper use, tampering by unauthorised personnel.

The thermostat must only be installed indoors.

Note: in order to control the thermostat using MyHOME_Up, Customers must install the App on their smartphones. A home Wi-Fi network is also required, with connection to the Internet, and both the smartphone and MyHOMEServer1 must be connected to the same LAN network.

To use the service, the Customer must acquire the technical equipment which allows access to the Internet, on the basis of an agreement made by the Customer himself with an ISP (Internet Service Provider). BTicino plays no part in this.

The services offered by means of the App require being able to interact with MyHOMEServer1 remotely and through the Internet.

In these cases the integration and good working between MyHOMEServer1 and App may depend on:

- a) quality of the Wi-Fi signal;

- b) type of access contract to the home internet;

– c) type of data contract on the smartphone.

When one of these 3 elements does not conform with the specifications required for product operation, BTicino accepts no responsibility for any faults.

We would like to inform you that the service provided by BTicino by means of remote use via the App involves the use of data. The cost linked to data usage depends on the type of contract which the customer has with his ISP (Internet Service Provider) and is solely the customer's responsibility. Although the system manages devices from third parties, the home-automation system must be BTicino.

Caution: not all the functions shown in this manual are available for all countries. Check with your retailer which functions are available for your market.

Warning: the images of this manual are only indicative, and therefore may not exactly represent the characteristics of the product.

Description

It is possible to use the thermostat with display both with heating and cooling systems, locally (using the available keys) and remotely (using the Hotelsupervision software, the MyHOME_Up App or the HOMETOUCH internal unit - see the <u>Thermostat Use section</u>).

The LED display shows the current mode of operation (Antifreeze/Thermal Protection or Heating/ Cooling), the room temperature measured, the temperature set point, the fan-coil speed, the window contact status and the zone status.

The configuration is completed using the MyHOME_Suite and Hotelsupervision software programs, and the MyHOME_Up App.

	Factory settings	
	Heating	Cooling
Adjustment interval	3 – 40 °C	3 – 40 °C
Comfort*	21 °C	25 °C
Eco*	18 °C	28 °C
Antifreeze	7 °C	
Thermal protection		35 ℃

*Note: these set points cannot be set using the device, but only through the Hotelsupervision software

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- 1. Backlight display
- 2. Fan key: sets the speed of the FAN-COIL on three levels plus automatic.
- 3. Lighting sensor
- 4. ON / OFF key Touch to switch from ON to OFF and vice versa. ON status: System in normal mode, Set point temperature OFF status: System in anti-frost (7 °C) or heat-protection (35 °C) mode
- 5. FAN-COIL speed indicator, three levels.
- 6. Temperature setting indicator: appears when the temperature is being set
- 7. ON heating indicator
- 8. ON cooling indicator
- 9. Keys for temperature setting
- 10. Window indicator: active local contact according to the programming completed by the installer.
- 11. Thermostat OFF indicator (see point 4)
- 12. FAN COIL in automatic mode indicator.
- 13. SCS clamps
- 14. Local contact (window)

Note: some local functions, such as setting antifreeze/thermal protection mode and automatic fan-coil speed adjustment, can be disabled during the configuration. Pressing the pushbutton to activate one of the deactivated functions will have no effect.

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Installation heights

Height recommended, unless otherwise required by the law



Technical data

Power supply from Bus	18 – 27 Vdc
	60 mA (maximum display level, when the keys are being used)
Absorption	30mA (standby display level, level 10)
	15 mA (display off)
Unit of measure	°Co°F
Operating temperature	0 – 40 °C
Dimensional data	2 flush mounted modules





Installing the units near heat/cold sources or hot/cold air emission points is forbidden



Disassembling

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0

Anti-removal block



Wiring diagram



Operation

Operating modes

Residential system

The room thermostat operating mode makes the system temperature control possible directly from the device or using MyHOME_Up

The available modes are heating/cooling or antifreeze/Thermal Protection

Hotel system

The hotel room mode of operation allows the customer to easily set the temperature and reach the desired comfort level.

The hotel manager has the possibility of consolidating the different individual room thermostats in a system that can be managed using the Hotelsupervision software, monitoring consumption levels and therefore avoiding pointless energy waste.

The thermostat can be set for the management of four different functions, depending on the type of system to install:

- heating function (only the heating is active);
- cooling function (only the cooling is active);
- cooling function in summer / heating function in winter;
- automatic changeover between cooling and heating

Heating function 🚫

If the temperature measured is below the set point value, the heating system is activated and the corresponding symbol appears on the display \bigwedge

When the set temperature is reached, the thermostat switches the zone off and the symbol disappears.

Cooling function 🔆

It is possible to configure the thermostat for use with the heating system in winter and the cooling system in summer 🔆

The icons shown on the display will be the same as described in the heating and cooling functions.

Heating and cooling function 🖏 🚫

It is possible to configure the thermostat for use with the heating system in winter and the cooling system in summer a

The icons shown on the display will be the same as described in the heating and cooling functions.



Automatic switching mode

The thermostat can be programmed for automatic changeover between the heating and the cooling functions.

Depending on the temperature measured, the heating or cooling system in operation symbols (

Note: automatic switching mode must be enabled during the configuration

This function can be used when it is necessary for the thermostat to automatically manage the changeover between heating and cooling, and is for example useful in case of 4 tube fan-coils.

Using the MyHOME_Suite software, it is possible to set the range of temperature at different levels, for the activation of the heating and the cooling systems, depending of the thermal inertia of one's own system, and specific requirements.



Automatic switching in heating/cooling mode

The switching from the heating to the cooling function, and vice versa, depends on the rules listed in the following table (T° represents the measured temperature).

Measured temperature	Action
T° between (set-point + automatic changeover threshold) and (set-point – automatic changeover threshold).	It maintains the current function. 1
T° > (set-point + automatic changeover threshold).	It switches to the cooling function. 🧿
T° < (set-point – automatic changeover function).	It switches to the heating function. 🕄

Note: the automatic changeover threshold has been set to 2°C.



Example chart



Automatic switching in Comfort, Eco and Protection mode

Automatic changeover depends on the operating mode selected: comfort, eco, or protection.

In this case, the heating and cooling ranges must be set in advance in their corresponding modes using MyHOME_Suite and Hotelsupervision.

You thus need to set two parameters for each mode: a high set point to be set in the cooling function and a low set point to be set in the heating function.

Example of temperature range settings



The above example indicates the temperature set-point pairs for Eco mode and Comfort mode.

The cooling system will activate when the temperature exceeds the upper set-point, while the heating system will activate when the temperature falls below the lower set-point.





Example chart

Configuration

It is only possible to configure the thermostat virtually using a gateway and one of the following procedures:

- A) A smartphone connected to the home Wi-Fi network with access to the Internet and <u>MyHome Up</u>
- B) An Ethernet or USB connected PC with MyHOME_Suite installed
- C) A PC with Supervision Server installed and one or more Client PCs with <u>Hotelsupervision</u> <u>installed</u>

The configurable functions depend on the method used; see the <u>Virtual Configuration Table</u> or the details.





Virtual configuration table

	MyHOME_Suite	MyHOME_Up	Hotelsupervision
System settings			
Heating, cooling or both	YES	YES	YES
Automatic switching mode	YES	YES	NO
Modify setpoint			
Temperature range	YES	YES	YES
Eco temperature setting	YES	NO	YES
Comfort temperature setting	YES	NO	YES
Antifreeze/thermal protection temperature setting	YES	YES	YES
Loads and pumps			
Pump activation delay	YES	YES	NO
Continuous ventilation function	YES	NO	NO
Proportional speed percentage	YES	NO	NO
Anti-block protection	YES	NO	NO
Fan delay	YES	NO	NO
Adjustment range			
Automatic threshold setting	YES	YES	NO
Adjustment range	YES	YES	NO
PID adjustment range	YES	NO	NO
PID thermal inertia	YES	NO	NO
Fan-coil speed			
Operation thresholds	YES	YES	NO
Fan-coil valve switch on advance time	YES	YES	NO
Contact management			
Number of the local contact	YES	YES	NO
Preset	YES	NO	NO
Execution of an action upon opening/closing of the local contact	YES	YES (Protection or Manual only)	NO
Action activation delay	YES	YES	NO
Contact opening scenario execution	YES	YES	NO
Timeout for the action	YES	YES	NO
User interface			
Backlighting	YES	YES	NO
Room temperature display	YES	NO	NO
Temperature format	YES	YES	YES
Window contact symbol	YES	YES	NO
Disable all the pushbuttons	YES	YES	YES
Heating/cooling contact pushbutton disabling	YES	NO	NO
Pushbutton automatic speed in Heating/Cooling	YES	NO	NO
Mode change using the pushbutton	YES	NO	NO

Configuration with MyHOME_Up

In order to configure the thermostat with MyHOME_Up, it is necessary to first download the free App from the stores and then connect to the system

1. If necessary, download the App from the stores into your smartphone (for iOS devices from App Store, for Android devices from Play Store);



A. On your Smartphone run the App to read the QR codes and then frame the QR Code

 $\textit{\textbf{Note}: you can find the same QR code in the Instruction Sheet supplied with the MyHOMES erver1}$

- 2. Connect to the system as installer
- 3. Create the Thermostat object and associate it to the system device



Connection to the system



1. If the connection has already been established, go to item 7, otherwise touch to connect to your MyHOMEServer1. If this is not found, see the "What to do if" section.

The list of found MyHOMEServer1s appears



2. Select your MyHOMEServer1 identifying it by means of the ID DEVICE on the front of the device



3. Touch to create the connection and access via local network with the INSTALLER CODE *Note:* access via account (A) is reserved to the end user



- 4. Enter a name to identify the new connection being created
- 5. Enter the INSTALLER CODE found on the front side of the device
- 6. Touch to save the system connection.





7. The system is now connected, touch to access. The system is now connected, touch to access. A scan and the automatic detection of the connected devices will activate automatically. An address will be allocated to each actuator channel, even if not used to drive a load. To check the number of engaged channels (max. 175), refer to the compatibility table. Note: it is not possible to have more than 175 channels per system. If this limit is exceeded, MyHOME_Up will ask to remove any excess devices from the system. At the end of the procedure the home page appears.

A zone and some rooms which you can access from the Home page are created automatically.

Create a thermostat object

On configuring the devices on the system and associating them to the thermostat object, the user can adjust the home temperature.



- 1. Touch to enter the room where you want to add a thermostat object
- 2. Touch to add an object to the double room
- 3. Touch to add the thermostat object



- 4. Touch to modify the object name.
- 5. Touch to select the relevant system
- 6. Touch to start the guided procedure for the association of a device detected in the system during the initial scanning to the graphic object Double room Thermostat
- A. Coloured visual indicators will indicate the progress of the procedure and the status of the step in progress:

red = not yet completed or incorrect green = successfully concluded

- 7. Touch to select the type of system
- 8. Select the type of system among those suggested
- 9. Touch to confirm







- 10. Touch to continue
- 11. Touch to associate a thermostat to the object. Two situations may occur:

Accessible thermostat



12. Touch any one of the pushbuttons on the thermostat on the system

Not accessible thermostat



12. Touch if you cannot access the device



You will be proposed the list the thermostats which you can associate to the object. You can identify the thermostat by its ID number.



- 13. Touch to select the thermostat
- 14. Touch to add the selected device

If the thermostat is already configured, see chapter "What to do if".





- A. Set the thermostat options:
- B. Delete association
- 15. Touch to modify the thermostat parameters
- 16. Select the parameter to modify among those available



Thermostat options

Temperature range



A. Apply the setting to all the system thermostats*

*Note: if a thermostat has not yet been configured or its configuration is not compatible with the same parameters, it will not be modified.

1. Touch to set the minimum and maximum temperature levels which the user can select using the device keys.

E.g. if a minimum limit of 15 °C is set, the user cannot set lower temperatures (e.g. 10 °C).

2. Select the temperature for the antifreeze/thermal protection function

Note: when the the App or the dedicated pushbutton on the thermostat sends the switch-off command it sets the minimum (antifrost) or maximum (thermal protection) temperature

Automatic switching (only for heating and cooling)



1. In systems with 4-pipe fancoils enabled for both heating and cooling or in systems where the water circulation systems for heating and cooling are completely independent, you can enable this function to manage the switching between heating and cooling automatically.





1. Touch to set a delay time for the activation of the pumps thus avoiding them starting before the zone valves have opened, both for heating and cooling.



Celsius/Fahrenheit



1. Touch to select the format of the displayed temperature between Celsius and Fahrenheit degrees

Key management

< First	Double room	+	
✓ Back TI Gestio	hermostat option: LN4691 Apply to all ne tasti per tutti i term n management	s ostati	
Enable p	oushbutton mana <u>c</u>	gement	
	Close		

 Touch to enable/disable the thermostat physical keys. If the function is disabled, it will no longer be possible to interact with it but only to display the information. This function can be useful if you don't want the settings to be modified from the thermostat, but only from the App (e.g. children's bedroom or public establishment).

Backlighting



- 1. Activates/deactivates the display backlighting
- 2. Scroll to adjust the backlighting intensity precisely

Adjustment range



- 1. Enables/disables the adjustment
- Scroll to adjust the operation threshold with respect to the set point set; for example with a set point of 20.0 °C for heating and a threshold of 0.1 °C the system will switch off when the temperature is higher than 20.1 °C and will switch on at 19.9 °C. For fan-coil systems the threshold can have values from 0.1 to 1 °C. Other types of system have threshold values from 0.1 to 0.5 °C.
- 3. Scroll to set the threshold (temperature differential) at which the fancoil fans will change speed at speed 2.
- 4. Scroll to set the threshold (temperature differential) at which the fancoil fans will change speed at speed 3.
- 5. Scroll to set a time delay for the activation of the fancoil in relation to the activation of the valve, in order to avoid that, for example, for the heating, switching on the fancoil too suddenly could blow cold air in the room.



Window contact function



- 1. Touch to display the window symbol for the contact status on the KM4691 thermostat:
- A. Window symbol not displayed
- B. Window symbol displayed = contact open Window symbol not displayed = contact closed
- 2. It enables the contact function which allows you to run a scenario saved in the MH202 scenario programmer when the contact opens
- C. Select the number of the window contact to associate
- 3. Touch to avoid a heating or cooling system action when the window contact opens/closes



- 4. Touch to set the system to thermal or antifreeze protection mode when the contact is opened/ closed.
- 5. Set a delay between the opening of the contact and the activation of the system to thermal or anti-freeze protection
- 6. Set a delay between the closing of the contact and the activation of the system to thermal or anti-freeze protection
- 7. Set a time during which the system will be in thermal or anti-freeze protection

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- 8. Touch to set the system to a certain temperature when the contact is opened/closed.
- 9. Set the temperature
- 10. Set a delay between the opening of the contact and the activation of the heating/cooling setting at the Setpoint of item 9
- 11. Set a delay between the closing of the contact and the activation of the heating/cooling setting at the Setpoint of item 9
- 12. Set a maximum time during which the system will be at the temperature indicated at item 9



17. Touch to continue

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After associating the thermostat to the object, you can associate one or more 4693 temperature probes. On associating several probes to a thermostat you can for example obtain the average temperature of a large room.

< First		
	THE ALLON	XX-
Back	Wizard Thermo	Next
	Temperature sensors	X
lt is po	ssible to associate one of temperative one of hermostat Dout	re
	••••	Ĺ
	Associate the device	~

18. Touch to associate a probe

Accessible probe





19. Touch any one of the pushbuttons on the probe on the system **Not accessible probe**



19. Touch if you cannot access the device



You will be proposed the list of compatible probes which you can associate to the object. You can identify the probe by its ID number.





- 20. Touch to select the probe
- 21. Touch to add the selected device

If the probe is already configured, see chapter "What to do if".





- 22. Touch to end the procedure
- 23. Touch to display the associated probes or to add other ones
- or
- 24. Touch to continue.

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- 25. Select the actuator operating mode
- 26. Touch to set whether the actuator channel is used: A exclusively for heating B exclusively for cooling C exclusively for heating and cooling
- 27. Touch to confirm





28. Touch to select the type of load





29. Select the type among those available

30. Touch to continue



31. Touch to continue



After selecting the type of load you can associate a heating system actuator



32. Touch to associate an actuator

Accessible actuator





33. Touch any one of the pushbuttons on the actuator on the system

Not accessible actuator



33. Touch if you cannot access the device



♦ First Double room

You will be proposed the list of compatible actuators which you can associate to the object. You can identify the actuator by its ID number:

34. Touch to select the actuator

35. Touch to add the selected device

Whether the actuator is accessible or not, you must select the channel to use from those available



36. Select the channel If the channel is busy, see chapter "<u>What to do if</u>".

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Next

utput to



- 37. Touch to confirm
- 38. Touch to end
- 39. Touch to continue

After associating the thermostat, probes and actuator to the object, you can associate a pump.



40. Touch to associate a pump
Accessible pump





41. Touch any one of the pushbuttons on the pump on the system

Not accessible pump



41. Touch if you cannot access the device

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You will be proposed the list of actuators compatible with the pumps which you can associate to the object. You can identify the actuator/pump by its ID number.





42. Touch to select the actuator/pump

43. Touch to add the selected device

Whether the actuator is accessible or not, you must select the channel to use from those available



44. Select the channel

If the channel is busy, see chapter "What to do if".

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- 45. Touch to confirm
- 46. Touch to end
- 47. Touch to continue

After associating the heating devices, repeat the procedure for the cooling devices. Select the type of load of the cooling system to be controlled



48. Touch to select the type of load

Open/Close Valve	
Descrizione breve	
Proportional valve	
Descrizione breve	\bigcirc
2-tube fan-coil with	1-1
ON/OFF valve	\='
Descrizione breve	\sim
2-tube fan-coil with	
proportional valve	2
Descrizione breve	6
z-tube fan-coll with	
Speed control	
Descrizione breve	

49. Select the type among those available50. Touch to continue

< First	Double room	+	
4-tube fai ON/OFF 1 Descrizione 4-tube fai proportio Descrizione 4-tube fai speed coi Descrizione Gateway Descrizione	n-coil with alve breve n-coil with nal valve n-coil with trol breve breve OK	50	
	Cancel		

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51. Touch to continue

After selecting the type of load you can associate a cooling system actuator



52. Touch to associate an actuator

Accessible actuator





53. Touch any one of the pushbuttons on the actuator on the system

Not accessible actuator



53. Touch if you cannot access the device

You will be proposed the list of compatible actuators which you can associate to the object. You can identify the actuator by its ID number:



- 54. Touch to select the actuator
- 55. Touch to add the selected device



Installation manual



Next

Whether the actuator is accessible or not, you must select the channel to use from those available



56. Select the channel

If the channel is busy, see chapter "What to do if".



- 57. Touch to confirm
- 58. Touch to end
- 59. Touch to continue

After associating the thermostat, probes and actuator to the object, you can associate a pump.



60. Touch to associate a pump

Accessible pump





61. Touch any one of the pushbuttons on the pump on the system

Not accessible pump

< First Double room +
Identification of cooling actuators
Cancel

61. Touch if you cannot access the device

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You will be proposed the list of actuators compatible with the pumps which you can associate to the object. You can identify the actuator/pump by its ID number.





62. Touch to select the actuator/pump

63. Touch to add the selected device

Whether the actuator is accessible or not, you must select the channel to use from those available



64. Select the channel

If the channel is busy, see chapter "What to do if".

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- 65. Touch to confirm
- 66. Touch to end
- 67. Touch to configure the objects





Wait for the end of the configuration of the temperature control objects 68. Touch to save



The object is available for the user to use



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What to do if

When, while creating a connection, your MyHOMEServer1 is not found automatically, you must enter the address manually



- 1. Touch to identify your MyHOMEServer1 manually in the network
- 2. Touch to create the connection and access via local network with the INSTALLER CODE



- 3. Enter a name to identify the new connection being created
- 4. Enter the INSTALLER CODE found on the front side of the device
- 5. Enter the ID DEVICE found on the front side of the device

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6. Enter the IP address of your MyHOMEServer1



 If you do not know it, connect the PC to the same network as the MyHOMEServer1, look for it in the network connections centre and open the properties mask.
 If it does not appear in the network connections centre, you can press the MyHOMEServer1 reset pushbutton for 10 seconds and set it in DHCP

MyHOME_Up H	
Cancel Createte a connection Save	
The connection if access	
Connection name	
PIN CODE	
Address IP 192.168.1.5	
Serial	
Where do I find the PIN CODE? >	

8. Touch to save the connection to the system

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When you are associating an already configured thermostat, the following screen appears

- 1. Touch to confirm the selection and import the existing configuration*
- 2. Touch to return to the main screen

*Note: the configuration of the selected thermostat is converted for the new MyHome_Up system. The available functions are shown in the User Manual.

When the thermostat is physically configured, the system obliges you to remove the configurators and make a new configuration.

When you are associating a probe which is already associated to another thermostat, the following screen appears



- 1. Touch to confirm the selection and overwrite the previous association
- 2. Touch to return to the main screen



When you are associating an actuator and select a channel which is already used, the following screen appears

- 1. Touch to confirm the selection and overwrite the previous association
- 2. Touch to return to the previous screen



Configuration with MyHOME_Suite

The thermostat can be configured by creating a new project, or by opening and existing one, which can then be changed and resent to the thermostat.



1. Click to enter the software dedicated to the configuration of a new home system.

0	MARKE SAV 33.78 Office		
rie Edit Tools Scan Cantgure :	ptons View Language 7		
Dana Gara Arra Bara Bara Bara Bara Bara Bara B			P Permit 142.144.128 Part 20000 Convert
Cotalizant # *	Prijet Tau	Certauster	
	Nor. 1: Sector Inf. Y Instance wassed (dation over Y E Y Sectors Y Instance Y		

2. Select the thermostat in the Catalogue area and drag it to the Design area.



After selecting the thermostat to be configured, the Configuration A field will activate. This will be explained in detail below.

Thermostat configuration

Configuration

1	Configuration						ą×
1	Advanced config	uration					
_	Description					ID	
	Module enabled	Yes	•				
	Function	Hotel thermostat	•			Zone	1
	Plant type	Heating	-			Number of slave probes	0
	Plant setting	Heating Cooling	um	ps f	Regulation band	Contact management	User in 🕨
- 1	Heating	Heating & cooling			Cooling		

- 1. **Description**: Enter a description which identifies the thermostat in the system (e.g. "night zone thermostat").
- 2. Module enabled: Enable the thermostat for the configuration via software.
- 3. Function: The thermostat is part of a single temperature control system which may be made up of one zone.
- 4. **Type**: select the type of management for which the thermostat will be programmed from those listed.
- 5. **ID**: Enter the unique code which identifies the thermostat in the system, or find this datum automatically by means of the "System scan" function.
- 6. Zone: Set the system zone number where the thermostat is installed.
- Number of slave probes: The Slave probes associated with the Master probe are used to calculate the average temperature of large rooms or areas. Up to 9 probes without knob configured as SLAVE can be associated with each thermostat (the control unit will consider the average temperature read by the probes).

System settings

Type of system

The thermostat can manage all types of system, both heating and cooling; select your system from those in the list.

Plant settings	Set point	Loads and pumps	Regulation band	Contact mana	agement	User interface
Heating			Cooling			
	Syste	m type				m type
0	N/OFF	-				
0	N/OFF					
Actuators 2	pen/Close pipes fan co	il with on/off valve	nps			
Ac Fi	ateway I Pilote			Add 😱		Delete 👩
2	pipes fan co	il with proportional	valve			
Function 4	pipes fan co	il with proportional	valves incti	on	Nº	
Pr 2 4	pipes fan co pipes fan co	alve il with proportional il with proportional	speed control			



Actuators – Pumps

The Actuators and/or Pumps to be managed must be set for each thermostat; it is necessary to indicate their Function (Heating only, Cooling only or both). The software assigns the number in progressive order; you can modify the number assigned selecting it in the field. The numbers available are from 1 to 9.

Hant settings Set point Heating	Loads and pumps	Regulation band Cooling	Contact mana	agement	User interface
Syst	em type coil with on/o 👻		4 pipes fan	Syste coil with	em type on/o∵ ▾
		🔲 Automati	c changeover		
Actuators	Delete 孩	Pumps	Add 😱		Delete 🚫
Add 🕞					
Function	N°	Function	on	N°	

1. Automatic change: in systems with 4-pipe fancoils enabled for both heating and cooling or in systems where the water circulation systems for heating and cooling are completely independent, you can enable this function to manage the switching between heating and cooling automatically.

Set-point

The software has three pre-set temperature levels for both cooling and heating; or:

- 1. Eco: temperature which allows a relative energy saving
- 2. Comfort: temperature considered ideal for your wellbeing
- 3. **Thermal protection** (for cooling) or **Antifreeze** (for heating): temperature which can be set, e.g. when the system is not working to avoid superfluous consumption without however risking damaging the system.

You can customise the basic values remaining however within the Min (3 $^{\circ}$ C) and Max (40 $^{\circ}$ C) levels. The software does not accept the setting of conflicting values (e.g. Antifreeze cannot be higher than Eco, etc.)



Loads and pumps

You can set some parameters for the operation of the pumps and fans (for fan-coils) both for cooling and heating.

ſ	Plant settings	Set point	Loads and pumps	Regulation band	Contact management	User interface		
	 Heating 						*	
	Activation de	lay for heat	ting pumps		0 mm	* : 0 * ss		- 1
	Heating fan o	coil continue	ous ventilation funct	tion				
	Heating fan o	coil continue	ous ventilation funct	tion timeout (minut	tes) 0	•		
	Heating prop	ortional spe	eed 1 (%)			33 🔺		
	Heating prop	ortional spe	eed 2 (%)			67 🔺		-3
	Heating prop	ortional spe	eed 3 (%)			100		
	Heating anti-	seizing up (protection			-	=	-4
	Heating fan d	delay			0			-5
	Cooling							
	Activation de	lay for cool	ing pumps		0 mm	ss		
	Cooling fan c	oil continue	ous ventilation funct	ion				
	Cooling fan c		ous ventilation funct	ion timeout (minut	es) 0	-		
	Cooling prop	ortional spe	ed 1 (%)			33 🔺		
	Cooling prop	ortional spe	ed 2 (%)			67		
	Cooling prop	ortional spe	ed 3 (%)			100	-	
						I	×	

- 1. **Delay pump activation**: you can set a delay time for the activation of the pumps thus avoiding them starting before the zone valves have opened.
- Continuous ventilation function: for best use of the fan-coil temperature you can decide to extend the operation of the fan even after the valves have closed. If the fan speed is in "Automatic" you can set the duration between 1 minute and 254 minutes, or infinite duration. If one of the three speeds is selected the duration is infinite.. Note: Enabling this function excludes being able to activate the "Fan delay" function.
- 3. **Proportional speed percentage:** just for fan coils with this function you can vary the setting of the basic set percentages for the three speeds.
- 4. **Anti-block protection**: If the system does not work for a long time, this function activates the zone valves for two minutes every week to prevent them blocking.
- 5. **Fan delay**: set a delay time for activating the fan to avoid, for example, for the heating, that switching the fan on too suddenly could blow cold air in the room.



Regulation (adjustment) range

With MyHOME_Suite you can set the thermostat operation threshold and other advanced functions which depend on the type of thermal system installed.

Plant settings	Set point	Loads and pumps	Regulation band	Contact management	User interface
 Heating 				an in	
Threshold sett	ing for auto	omatic heating			[
Regulation bar	nd for heati	ng			0.1
Heating PID re	egulation ba	and (°)			1.6
Heating PID in	nertia				Medium inertia
Heating propo	ortional gair	1			100
Heating integr		5			
Heating deriva					100
Fancoil speed	graph: HEA	TING			

- 1. Setting automatic threshold: enabling this parameter, the adjustment range will be the default (0.1 °C). Instead on disabling this you can set as follows.
- 2. **Regulation (adjustment) range:** this parameter determines the operation threshold with respect to the set point set; for example with a set point of 20.0 °C for heating and a threshold of 0.1 °C the system will switch off when the temperature is higher than 20.1 °C and will switch on at 19.9 °C.

For fan-coil systems the threshold can have values from 0.1 to 1 °C. Other types of system have threshold values from 0.1 to 0.5 °C.

Plant settings	Set point	Loads and pumps	Regulation band	Contact management	User interface	
 Heating 				he i		
Threshold sett	ing for auto	omatic heating			6	7
Regulation bai	nd for heati	ng			0.1	÷
Heating PID re	egulation ba	and (°)			1.6	
Heating PID i	nertia				Custom inertia	-
Heating propo	ortional gair	ì			Low inertia Medium inertia	
Heating integ	rative gain				High inertia	
Heating deriva	ative gain					
Fancoil speed	graph: HEA	TING				

- PID (Proportional Integral Derivate) regulation (adjustment) range: this parameter determines the operation threshold with respect to the setpoint set.
 For proportional loads use this parameter instead of the two preceding parameters.
- 4. **PID thermal inertia**: the thermostat manages the temperature in advanced mode controlling the opening of the valves or the speed of the Fan coil fans, using some parameters which depend on the type of system installed; comfort can thus be optimised and consumptions rationalised in the best way.

The software has three pre-set temperature levels for both cooling and heating.

Thermal inertia	Heating	Cooling
Low	Fan-coil	Fan-coil
Medium	Radiators	Panels
High	Floor system	Floor system
* Customised	* Advanced configuration	* Advanced configuration

* For more expert installers, the "**Customised**" option lets you modify the individual parameters which determine the algorithm of this function; before making any modification you should however consult the heating engineer responsible for the system.

Fan-coil speed

For systems made with Fan-coil and ON-OFF or Proportional valves you can set the operation thresholds relative to the change of fan speed with respect to the set-point set.

Hasting									
~ Heating									_ []
Threshold set	ting for auto	matic heat	ting						
Regulation ba	nd for heatin	ng						0.1	-
Heating PID r					1.6	÷			
Heating PID inertia						Med	dium inertia	-	
Heating prop	ortional gain							100	÷
Heating integ	rative gain							5	•
Heating deriv	Heating derivative gain							÷ =	
	grapn: HEA								
	graph: HEA				60	055			_
+0.1°	graph: HEA	FF			55	OFF			
+0.1°	graph: HEA	FF	-		35 35	OFF OFF			
+0.1° SetPoint	SS OF	FF	-		35 35 35	OFF OFF OFF			
+0.1° SetPoint -0.1°	graph: HEA	=F	-	_	55 55 55 55	OFF OFF OFF	_	_	
+0.1° SetPoint -0.6	graph: HEA	F			55 55 55 55	OFF OFF OFF			
+0.1° SetPoint -0.1° -1.0	graph: HEA	=F			55 55 55 55 55 55 55	OFF OFF OFF			
+0.1° SetPoint -0.1° -0.6 - -1.0 - Max -3°	Graph: HEA				35 35 35 35 35	OFF OFF OFF			

- 1. Automatic threshold setting: Disable this function to make the customised setting.
- 2. **Regulation (adjustment) range**: The value set determines the switching on/off of the fancoil(s) at speed 1.
- 3. **Operation thresholds**: in these fields you can set the thresholds (temperature differentials) at which the fancoil fans will change speed at speeds 2 and 3.



Contact management

You can associate a specific action which must be carried out on the system, e.g. on opening the zone 1 window the heating will switch off in the zone itself, to the change of state of the local contact (Open/Closed).

These settings are possible and can be differentiated for both heating and cooling.

Plant settings	Set point	Loads and pumps	Regula	ation band	Contact man	agement	User in	nterface	
Number of lo	cal contact			Disabled				•)-
Preset 1								•	-
Local contact	opening	He	eating e	со				•	
Local contact closing		Pr	evious s	state				•	
Activation del	ay for local	contact				0 mm 0 mm	Closing	0 × SS 0 × SS	ш
Timeout for lo	ocal contact	action				0 hh	Opening	0 🔹 mm	

- 1. Number of local contact: By enabling a list address, it will be possible to use the system scs "contact" function, which upon opening of the contact will give, for example, the possibility of executing a scenario saved in the MH202 scenario programmer.
- 2. **Preset**: there are three preconfigured settings, on selecting one of these, you will see the corresponding action when Opening and Closing the contact in the fields below.

2.1 **Custom**: when the preconfigured solutions are not satisfactory you can select the Custom option which allows you to customise the contact opening and closing actions, selecting from those in the fields.

Plant settings Set point	Loads and pumps	Regulation band	Contact management	User in	•		
Number of local contact		Deaktiviert		•	*		
Preset	Custom	stom 👻					
Local contact opening	No action	า		•			
Local contact closing Activation delay for local cor	No action Protectio Off Switch to Previous Intact Manual Heating Heating	n o cooling state eco comfort			Ш		
Timeout for local contact ac	tion		mm Opening 0 ÷: hh Closing 0 ÷:				

- 1. Preset Custom: Customised setting.
- 2. Local contact opening/closing: setting the action following the change of status of the thermostat local contact.

Installation manual

Plant settings Set point Loads an	d pumps Regu	lation band	Contact managen	nent User i	nterface	
Number of local contact		Disabled			•	
Preset Local contact opening Local contact closing	Custom 1 2 3			Opening	•	
Activation delay for local contact				0 Closing 0 Closing		ш
Timeout for local contact action				Opening 0 Closing 0 Closing		

3. Activation delay: you can set a delay time between the contact opening/closing and the consequent action.

For example: if I open the window the zone heating will switch off after 1 minute (set activation delay), if the window is closed in the meantime the heating will not switch off.

4. **Timeout for the action**: You can establish the maximum duration of the action determined by the local contact.

For example: opening the window causes the zone heating to switch off; after 1 hour (Timeout set) the heating switches on again even if the window is still open.



User interface

This software section allows you to set some functions concerning what is shown on the display and allows the user to interact with the thermostat.

Display

 Display 			
Backlight for display standby			
Backlight stand-by level	Level 5	•	
Room temperature visualization			
Temperature format	Celsius	•	
Window contact icon	Always OFF		
Pushbutton			
Disable all pushbuttons			
Heating contact pushbutton locking	Disabled	•	
Heating pushbutton fan coil automatic speed		V	
Cooling contact pushbutton locking	Disabled	•	
Cooling pushbutton fan coil automatic speed			
Changing modality with pushbutton		1	

- 1. Backlighting: It is possible to adjust the display brightness by selecting one of the 5 available levels, or by setting automatic adjustment mode based on the brightness of the room (automatic, with or without display switch off).
- 2. Room temperature display: Enable/disable the display of the temperature measured locally by the thermostat.
- 3. **Temperature format**: You can set the temperature measurement unit which will be valid for all the displays; select the unit used locally, Celsius or Fahrenheit.
- 4. Window contact symbol: This function allows you to establish if and when the symbol which indicates activation of the local contact should appear on the display.

Plant settings	Set point	Loads and pumps	Regulation band	Contact management	User interface		
 Display 							
Backlight for	display star	ndby			v		
Backlight sta	Backlight stand-by level				-		
Room tempe	rature visua	lization			V		
Temperature	Temperature format				-		
Window cont	Window contact icon			Always OFF			
Pushbutto	n		Always O ON when	Always OFF ON when open, OFF when closed			
Disable all pu	shbuttons						
leating conta	act pushbut	ton locking	Disabled	Disabled			
leating pushbutton fan coil automatic speed			1				
Cooling conta	cooling contact pushbutton locking			Disabled			
Cooling pushl	Cooling pushbutton fan coil automatic speed						
Changing mo	dality with p	oushbutton					

Pushbutton

Disable all pushbuttons		
Heating contact pushbutton locking	Disabled	•
Heating pushbutton fan coil automatic speed		
Cooling contact pushbutton locking	Disabled	•
Cooling pushbutton fan coil automatic speed		
Changing modality with pushbutton		

- 1. **Disable all the pushbuttons**: Activating this option prevents the user from using the pushbuttons to interact with the device.
- 2. Heating/cooling contact pushbutton locking: activating this option prevents the user from using the pushbuttons to interact with the device on the basis of the status of the local contact.

The two possible choices are:

- Disabled

- Enabled when the remote contact is open.
- 3. **Pushbutton automatic speed in Heating / Cooling**: Enables or disables the possibility of selecting the automatic speed from the probe by means of the FAN pushbutton.
- 4. Change mode with pushbutton: enables or disables mode selection (Antifreeze/Thermal protection) by means of the MODE key

Installation manual



Configuration with HotelSupervision

In order to configure the thermostat using Hotelsupervision, after starting the server module the program must also be started



- 1. In the user field, select "Administrator"
- 2. Enter the administrator password

3. Click to confirm

 HoteSupervision 						- 0 - X
	ION				Administrator	Đ
Home Overview Roo	oms Common areas	Badges	Settings ?		LEGRANDGROUPS:	OFTWARE 2015 @
INFO:						
Name:	HOTEL Blicino Legra	nd				
Addres	s: Via Manara 4					
Phone:	0039031653111					
Email:	bticino@legrand.com					
Server ready						

4. Click to open the setting page

Installation manual

• Moleccia					-
HOTELSUPERVIS	ION			Administrator 🕒	
Home Overview Ro	oms Common areas Badges Settings ?			LEGRANDGROUPSOFTWARE 291	10
🕜 ceneral	File Project.	16/2 TEST area conund2.hppj			
BADGES	Administrator password Skill penviced	Change Ownge			
	Diport Diport al room/common area activities	Export			
	Tooli Language om dock and note notification	Engleh Brown	• k ►		
		C.//bestPublic/Documents/LegrandGoup/HoteBupervision/HotesWarning_default.nev Broake	ĸ►		
	select homogage in the .verifier	C-DHY19448; Documeros, parado o porto 66, per 19675 Dokem, Joha Univ Browe,	к		
	ado Chere UC Virsen Alout	2000 2.1.37 Hobd/sperielan			

5. Click to configure the thermostat

me Overview Ro	oms Commo										
		n areas	Badges Settin	• 0						LICE	u os noersorra
	Software settings										
GENERAL	Temperature unit						Ceblus V				
	Thermostat settings						Cebas				
	temperature unit						Critais				
BADGES	Function						Heating				
	Enable thermostat but	mons					181				
ROOM SELECTION			COOLING		Thermal protection 3 MAX 32,04C	15,0°C 35,0°C				HEATING	
	MAX	28,0°C		0 40,0°C	Eco 28,0*C	30,0°C		C25.04C MAX	MIN 21,0PC		0 32
SERVER	NEN	14.0°C		-0- 25,0°C	Comfort 25,0*C	25,0°C		KON	3.0°C		0 18
	Eco	25,5°C		* 32,0°C	MIN 20,01C	20,0%	Comb	t 23,0°C	14,0°C		÷ 21
	Comfort	20.0°C		-‡ 27,5%C		15,0°C	-	😳 Com	bit 18,5°C		÷ 26
	Thermal Protect	tion 25,0°C		\$ 40,0°C		10,0*0	1	hett	eese 3,0°C		0 20
						serc	Antre	ae 7,0°C			
						0.000	-				

- A Set the temperature unit (Celsius / Fahrenheit)
- B Set the system type (heating, cooling, both)
- C Enable/disable the device physical keys
- D Set the heating set point values
- *E* Set the cooling set point values

Installation manual



Set-point



- A Set the minimum and maximum temperature values for all set points
- B Set the Eco temperature value, which allows a certain level of energy saving
- C Set the Comfort temperature value, ideal for personal comfort
- D Set the Thermal Protection (cooling) or antifreeze (heating) values.

The values set in this section apply to all the system thermostats. The user may change these parameters at a later stage from the sections dedicated to the rooms and/or common areas.

Thermostat use

You can interact with the thermostat in different ways::

- locally, using the thermostat keys
- using a smartphone with the free <u>MyHOME_Up</u> App installed
- using a PC with the Hotelsupervision software installed
- using a HOMETOUCH internal unit installed as part of the system



The functions available vary depending on the interaction mode

Function	Thermostat	MyHOME_Up	Hotelsupervision	HOMETOUCH
Programmed temperature	SÌ	SÌ	SÌ	SÌ
Protection mode activation	SÌ	SÌ	SÌ	SÌ
Setpoint Comfort activation	NO	NO	SÌ	NO
Setpoint Eco activation	NO	NO	SÌ	NO
OFF (thermostat OFF)	NO	NO	SÌ	NO
Fan adjustment	SÌ	SÌ	SÌ	SÌ



Local functions

Set the programmed temperature

Using the — H keys, it is possible to change the temperature value that will be used by the temperature control system to switch on or off.

A subsequent remote temperature change will prevail on this setting.

When idle, the display shows the measured temperature and the programming status.



Programming status – Symbol 🖒

,

Protection Mode

Not present

Present

Programmed temperature mode

1. Touch the — 🕂 keys to set the programmed temperature



The display shows the **SET** symbol and the currently programmed temperature. If this value is acceptable, wait for flashing to end. The temperature will not be changed.

To change the value, before flashing ends:



2. Touch to increase or decrease the programmed temperature



Wait for the end of the flashing. The temperature is now set to the new programmed value.



After a few seconds, the new setting is saved and the measured temperature appears. This example shows a set temperature higher than the measured temperature, therefore also displaying the symbol confirming that the heating system is in operation \triangle .



Installation manual





3. Touch ON/OFF and restart from item 1

Protection Mode

This function allows you to set the system to Antifreeze (heating) or Thermal Protection (cooling) mode When idle, the display shows the measured temperature and the programming status.







Installation manual





After a few seconds, the value is saved and the 0 symbol appears, to indicate that the mode is active.

Fancoil fan adjustment

If the thermostat manages a fan-coil type load, the fan speed can be adjusted using the dedicated pushbutton.



1. Touch to set the fan speed at the desired level

* 🗖	Speed 1
* 🗖 🗖	Speed 2
*	Speed 3
A ×	Automatic operation



During the adjustment the fan symbol and the segment for the speed selected flash. After a few seconds, the value is saved and the symbol shows the new adjustment. Installation manual



Local contact

Upon opening of a local contact (e.g. window contact), the display shows the corresponding symbol, which will disappear again once the contact is closed



The symbol will disappear when the contact is closed.

Functions with MyHOME_Up

In order to use the thermostat with MyHOME_Up, it will be necessary to first download the App (for iOS devices from App Store, for Android devices from Play Store), and then connect to the system (for the details see the MyHOME_Up manual).

Access the system



1. In the home page, touch the room for which you want to adjust the temperature

2. Touch the thermostat object



- A Display the measured temperature
- B Display/enable the operating mode
 OFF: set the system in protection mode
 Heat: sets the system to heating mode and maintains the set temperature
 Cold: sets the system to cooling mode and maintains the set temperature
- C Display the programmed temperature
- D Set the programmed temperature
- E Display/set the FANCOIL fan speed (where present)

Installation manual



Hot/cold mode

Using this function, it is possible to set the system to heating/cooling and a programmed temperature





- 1. Touch to set the system mode
- 2. Touch to set the programmed temperature

Protection Mode

Using this function, it is possible to set the minimum safety temperature of 7°C (Antifreeze) for the heating system, and the maximum safety temperature of 35°C (Thermal Protection) for the cooling system





1. Touch to select the protection mode
Fancoil fan adjustment

If the thermostat manages a fan-coil type load, the fan speed can be adjusted





1. Touch to set the fan speed at the desired level

1	Speed 1
2	Speed 2
3	Speed 3
Auto	Automatic operation



Functions with Hotelsupervision

In order to use the thermostat with Hotelsupervision, this must first be installed on a PC (for the details see the Hotelsupervision software manual).

Start the Client module; this is the system user interface, which gives the possibility of managing the room thermostats from the switchboard.



1. Touch the room to manage; the right section (room status) shows the thermostat control panel



- A Advanced settings (see the installer manual)
- B Display the system mode
- *C* Display the measured temperature
- D Display the thermostat operating mode
- E Display the FANCOIL fan speed (where present)
- *F* Display the programmed temperature
- *G* Set the programmed temperature
- *H* Set the system operating mode
- J Display the thermostat operating mode(Setpoint)
- K Set the format of the displayed temperature between Celsius and Fahrenheit degrees
- L Enable/disable the thermostat keys. If the function is disabled, it will no longer be possible to interact with the thermostat but only to display the information.
- *M* Enables the display of the measured temperature directly in the room section.

Set the programmed temperature

To set the room temperature, use the +/- keys. This new adjustment will delete any previous setpoints and will be active until a new setpoint is set.

Hotel then	mostat	0
25,69	PC Function : Heating Mode : Manual Fan speed : Automatic	
-	21,5°C	ħ
Heating		FE
Eco		FIS
THERMOS	TAT UNIT	
°C		°F
Finable I	hermostat buttons	
Show in	card	$\langle \rangle$

1. Touch to increase or decrease the room temperature to the desired level. The system will then be switched on or off based on the measured room temperature

Set the system operating mode

Using this function, it is possible to set the system to heating or cooling, or both.

Hotel thermostat		0
25,69	C Mode : Manual Fan speed : Automatic	
-	21,5°C	+
Heating		ð
Eco		-
UERMOS	TAT UNIT	0=
HERMUS		PI
°C		of F
°C	hermostat buttons	°F

- 1. Touch to select the mode among:
- **Heating**: : if the temperature measured is below the reference set point value, the heating system activates.
- Cooling: if the temperature measured is above the reference set point value, the cooling system activates.
- **Automatic switching**: the thermostat can be programmed (ask your trusted installer) for automatic switching between heating and cooling based on set thresholds.



Set the thermostat operating mode

Using this function, it is possible to select the mode that will be used by the thermostat for temperature adjustment.

lotel thermostat	Ø
Punction : Heating 25,6°C Mode : Manual Fan speed : Automatic	
- 21,5°C	+
Heating	v
Eco	Č
HERMOSTAT UNIT	-
°C •	F p=
Enable thermostat buttons Show in card	E

- 1. Touch to select the mode among:
- **Eco**: the system only operates based on the energy saving set point set for the heating and cooling functions.
- Comfort: the system only operates based on the ideal set point set for the heating and cooling functions.
- **Protection**: in a heating system it sets the minimum safety temperature to 7°C (Antifreeze), and in a cooling system the maximum safety temperature to 35°C (Thermal Protection).
- Off: Switches the thermostat off. The system temperature is no longer managed

Functions with HOMETOUCH

The home temperature may also be adjusted using the thermostat object of the HOMETOUCH internal unit temperature control page.



1. Touch to manage the temperature control system

This page includes the thermostats of your home; the object background shows the status of the zone:



2. Touch to open the zone management panel

Room thermostat

Installation manual





- A Zone name
- B Displays the measured temperature
- C Displays the set temperature
- D Set the programmed temperature
- E Display/set the FANCOIL fan speed (where present)
- F Thermal protection/antifreeze mode: Touch to set Antifreeze Mode (heating). The system activates when the measured temperature falls below 7°C.
 Touch to set Thermal Protection Mode (heating). The system activates when the measured temperature exceeds 35°C.
- G Display the system mode

Heating/ Cooling mode

Using this function, it is possible to set the system to heating or cooling



1. Touch to set the system operating mode, either heating or air conditioning

Room thermostat

Installation manual



- 2. Select the operating mode
- 3. Touch to confirm

Set the programmed temperature

To set the temperature, use the +/- keys. This new adjustment will delete any previous setpoints and will be active until new setpoints are set.



1. Touch to increase or decrease the temperature to the desired level. The system will then be switched on or off based on the measured room temperature





This example shows a set temperature higher than the measured temperature; the background turns red and the \bigotimes , symbol appears, confirming that the heating system is in operation.

Protection Mode

Using this function, it is possible to set the minimum safety temperature of 7°C (Antifreeze) for the heating system, and the maximum safety temperature of 35°C (Thermal Protection) for the cooling system

<	THERMOREGULATION	Other
Entrance thermostat		
— 23.5 °C + ℰ ●●●		

1. Touch to select the protection mode

<	THERMOREGULATION	Other
Entrance thermostat 21.0 °C		
PROTECTION (7.0 °C)		
Ċ		

After a few seconds, the value is saved, the background becomes dark, and a message indicates that protection mode is active.



Fancoil fan adjustment

If the thermostat manages a fan-coil type load, the fan speed can be adjusted



1. Touch to set the fan speed at the desired level

	Speed 1
8	Speed 2
	Speed 3
AUTO	Automatic operation

Messages and errors

Messages

In some cases, the thermostat display will show some symbols to indicate that the current mode of operation is different from the standard mode.

"Thermostat OFF" indicator



When the thermostat is OFF, this symbol appears. The OFF command can only be sent using the Hotelsupervision software, or the local window contact.

In this status, press (b) to set normal mode (temperature set based on the set point), or press to directly change (0.5°) the set point temperature.

"Thermostat configuration being completed" indicator



This symbol flashing slowly indicates that a configuration is being performed using MyHOME_Suite, MyHOME_Up or Hotelsupervision



"Thermostat not configured" indicator



This symbol flashing quickly indicates that the thermostat has not yet been configured

Errors

If the display shows "Er" followed by a number, the thermostat is indicating the existence of a condition of error.

Below is a list of the possible errors:

Er1	Pump not responding
Er2	Actuator not responding
Er3	Slave probe not responding
Er4	Temperature sensor fault
Er5	Thermostat internal fault
Er6	Capacitive sensor fault (keys)

In case of errors "Er1", "Er2", "Er3" and "Er6", the thermostat maintains the current mode and the displayed error condition can be reset (by pressing any key).

If the error condition persists, the error screen will be displayed again after 15 minutes.

In case of errors "Er4" and "Er5", the thermostat switches OFF and all the actions that can be performed by the user, such as pressing any of the keys, are disabled.

Below is an example of the error screen (*).



***Note**: if ER4 or a temperature significantly different from the one perceived are displayed, or after the first installation, wait at least 5 hours before checking the operation again and completing the calibration procedure.

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