



vemer VE267100 LCD Built-in Thermostat with Display Instruction Manual

[Home](#) » [Vemer](#) » [vemer VE267100 LCD Built-in Thermostat with Display Instruction Manual](#) 



Mod. KEO-A LCD
KEO-B LCD
User Manual

Contents

- [1 ELECTRONIC THERMOSTATS](#)
- [2 PACKAGE CONTENTS](#)
- [3 WIRING DIAGRAMS](#)
- [4 LEGEND](#)
- [5 BATTERY KEO – B LCD
REMOVAL](#)
- [6 ADJUSTABLE COVER PLATES](#)
- [7 INSTALLATION](#)
- [8 OPERATION](#)
- [9 KEO-B LCD BATTERY MOUNTING](#)
- [10 KEO-A LCD MOUNTING](#)
- [11 Documents / Resources](#)
 - [11.1 References](#)
- [12 Related Posts](#)

ELECTRONIC THERMOSTATS



Read all instructions carefully

Flush-mounting electronic thermostats for temperature control both in heating and cooling. They perform actions of type 1B and are intended for operating in environments with Pollution Degree 2 and Overvoltage Category III (EN60730-1).

- Keo-B LCD, with battery power supply and configurable auxiliary input for the connection of a temperature probe or an external contact with whom to reduce the setpoint of 3°C.
- Keo-A LCD with mains power supply.

Code	Model	Description
VE267100	Keo-BLCD	Battery thermostat with auxiliary input
VE558300	Keo-ALCD	230V Thermostat

SAFETY WARNINGS

During product installation and operation it is necessary to observe the following instructions:

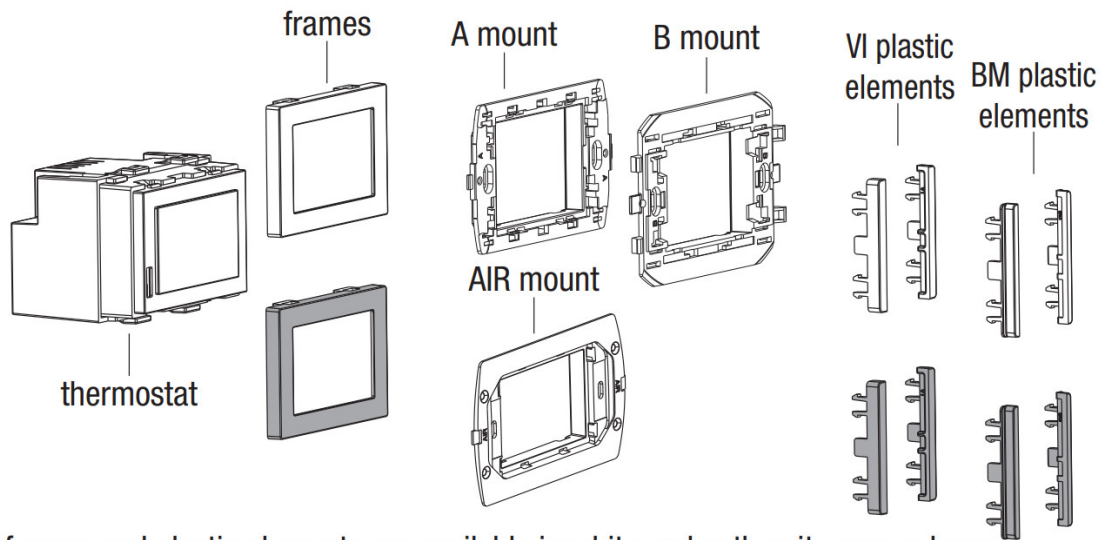
- 1) The device must be installed by a qualified person, in strict compliance with the connection diagrams.
2. Do not power or connect the device if any part of it is damaged.
3. After installation, inaccessibility to the connection terminals without appropriate tools must be guaranteed.
4. The device must be installed and activated in compliance with current electric systems standards.
5. Before accessing the connection terminals, verify that the leads are not live.
6. In the electrical system of the building where the device must be installed, a protection device from the overcurrents must be present (for KEO-A LCD only).

TECHNICAL SPECIFICATIONS

- Power supply Keo-B LCD:
 - 2 alkaline batteries 1.5V (AAA type)
 - battery life: 12 months
 - depleted batteries indication
- Power supply Keo-A LCD:
 - 230Vac (-15% + +10%) 50/60Hz
 - max absorption: 6 VA / 230Vac
- Installation on 3 modules box (503 type)
- Terminals Keo-B LCD:
 - 3terminals for 1.5 mm² cables for output relay 5A / 250 Vac
 - 2terminals for 1.5 mm² cables for digital input (3°C setpoint reduction)
- Terminals Keo-A LCD:
 - 3terminals for 1.5 mm² cables for bistable output relay 5A / 250 Vac
 - 2terminals for 1.5 mm² cables for power supply
- Operating mode: summer/winter/off (with antifreeze)
- Password protected lock keypad
- Regulation type:
 - on/off with settable differential (0.1 + 1°C)
 - P8 proportional with 0.8°C band (-0.3 + +0.5°C) and period 8 minutes
 - P15 proportional with 1.5°C band (-0.7 + +0.8°C) and period 15 minutes
- Measurement precision: + 0.5 °C
- Measurement temperature resolution: 0.1 °C

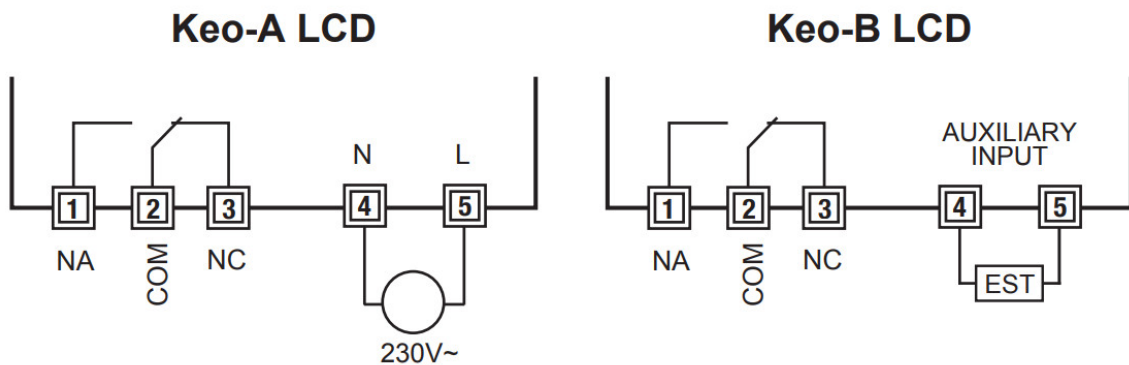
- Setpoint range: 2°C + +35°C
- Operating temperature: 0 °C = +50 °C
- Storage temperature: -10 °C + +65°C
- Operating humidity: 20-90% non condensing
- Protection degree: IP40
- Insulation: reinforced among accessible parts (frontal) and all other terminals

PACKAGE CONTENTS

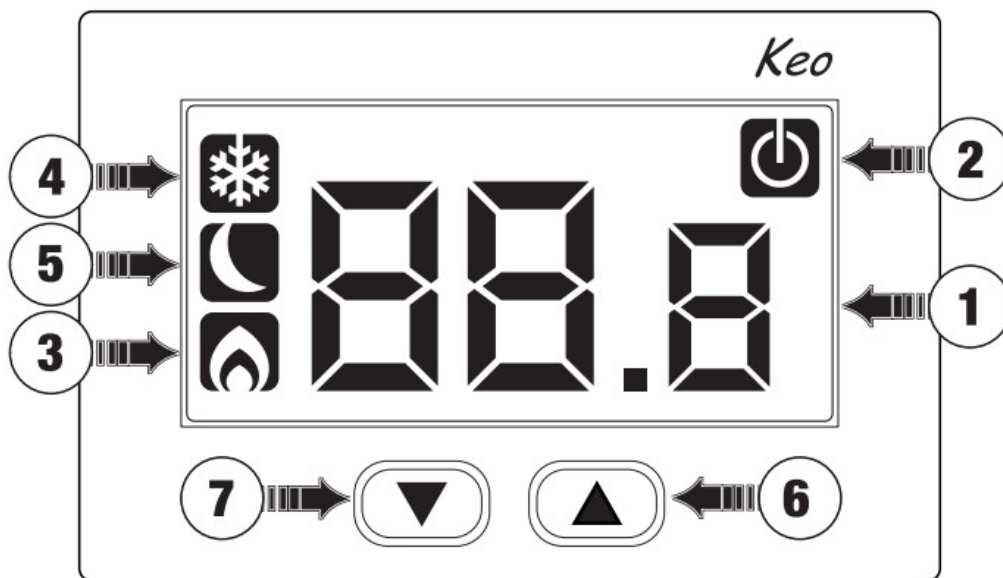


frames and plastic elements are available in white and anthracite grey colours

WIRING DIAGRAMS

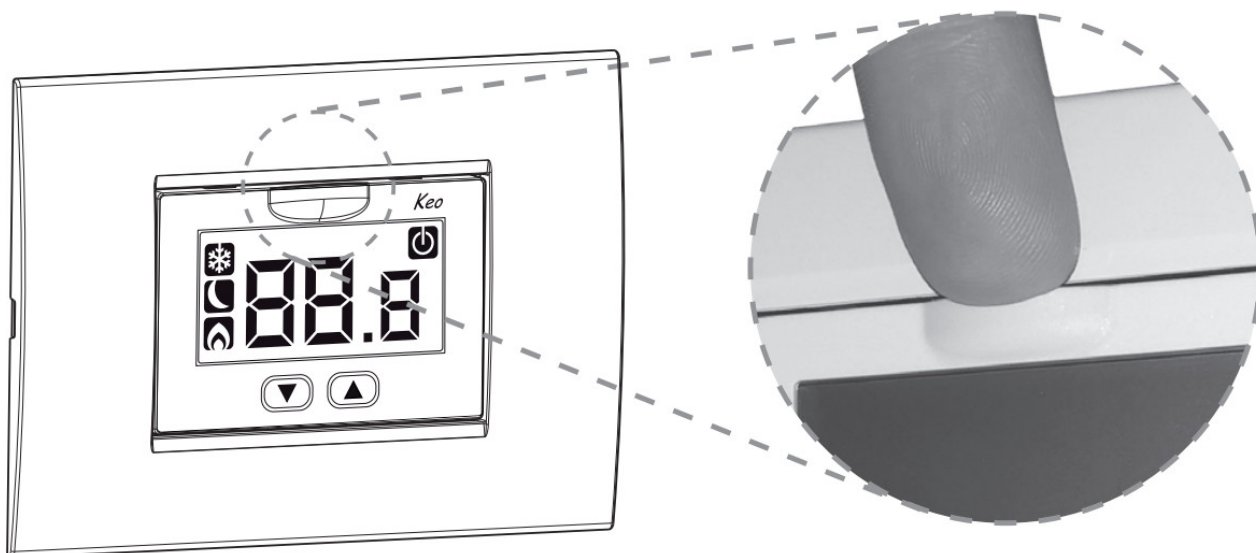


LEGEND



1. "Environment temperature" field
2. "Off" field
3. "Heating activation" field
4. "Cooling activation" field
5. "Active night reduction" field
6. Key "▲" Increases the selected field
7. Key "▼" decreases the selected field

BATTERY KEO – B LCD REMOVAL



ADJUSTABLE COVER PLATES

The adapters inside the box allow the monitoring of the following cover plates:

ABB Chiara series	Bticino Light tech series	Vimar Eikon series
ABB Mylos series	Bticino Living series	Vimar Eikon Evo series
Ave S44 series	Bticino Livinglight series	Vimar Idea series
Bticino Axolute series	Bticino Livinglight Air series	Vimar Plana series
Bticino Axolute Air	Bticino Matix series	Vimar Arké series
Bticino Light series	Gewiss Chorus series	

For information about the possibility to adapt the thermostat with different cover plates from those listed, contact the Technical Service.

*through mount that you can buy on request code VE767500)



- All the above trademarks are the property of their respective owners.

INSTALLATION

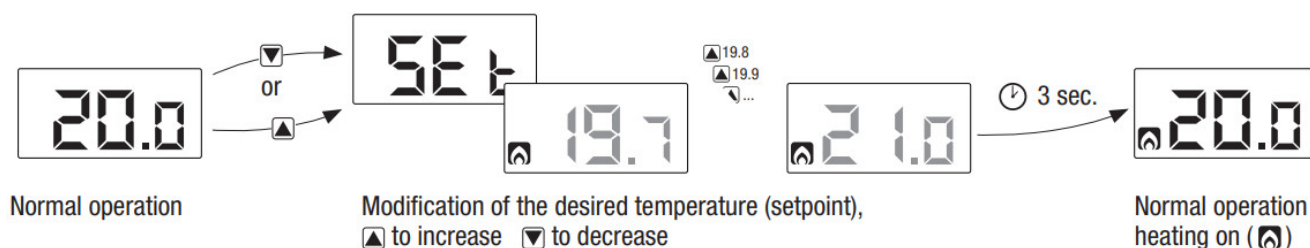
- Install the thermostat at a height of about 1.5 m above the floor, away from direct sunlight, away from doors, windows, heat sources, locations with excess or total lack of ventilation.
- Install the white or anthracite grey frame according to your preferences by hooking it to the cogs of the device.
- Make the connections by respecting the diagrams described in this manual.
- Fix the device inside the 3 modules box in compliance with the assembly diagrams described on the back of this instruction sheet. The accessories for the installation included in the package allow the mounting of the plates described in the diagram “adjustable plates” and they are:
 - mountA
 - mount B (it could be necessary to remove the side cogs)
 - mountAIR
 - couple of side BM plastic elements (both of white colour and grey colour)
 - couple of side VI plastic elements (both of white colour and grey colour)
 - frames of white colour and anthracite grey.

OPERATION

During the standard operation the thermostat displays the detected temperature value and the relay status is

identified by the symbol  (heating mode) or the symbol  (cooling mode).

Setpoint modification



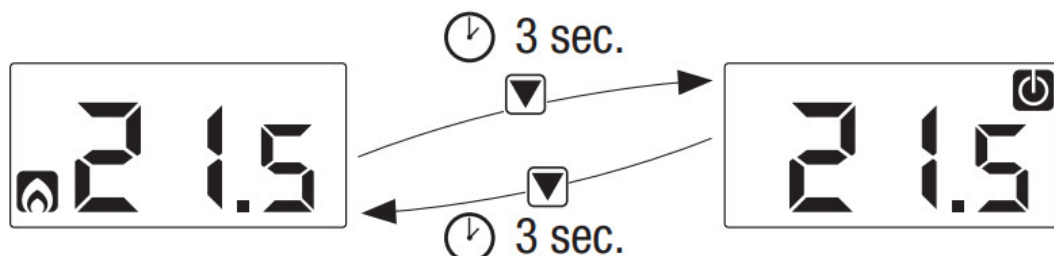
Depleted batteries signal

(Keo-B LCD only)



Replace the batteries as soon as possible! Dispose of batteries in the appropriate recycling containers.

Switch off



Note: in heating mode (winter), the device if off, it regulates according to the antifreeze temperature T_{off} in order to prevent freezing of the system.

T_{off} can have values from 1 to 10° C or be excluded; in this case any minimum temperature is guaranteed.

Error messages



Occurs for the following values of measured temperature:

$t < 0^{\circ}\text{C}$

$t > 50^{\circ}\text{C}$ ($t > 60^{\circ}\text{C}$ with external probe)



Oceurs In case of probe failure.

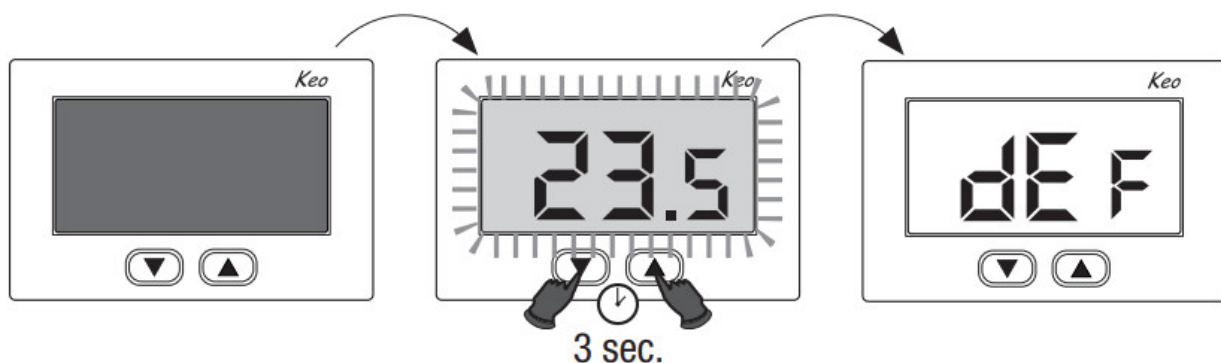
In this case the regulation is inhibited and the relay contacts remain in position 2-3.

Reset




Reset to delete the settings you made and reload the default values. To reset:

1. remove and restore power to the device (Keo-A LCD) or remove "fm" the base and re-insert it (Keo-B LCD).
2. during the flashing of the backlighting press the keys ▲ and ▼ until **def** will appear.



The removal of the device occurs pulling on the convexity of the frame (box 5).





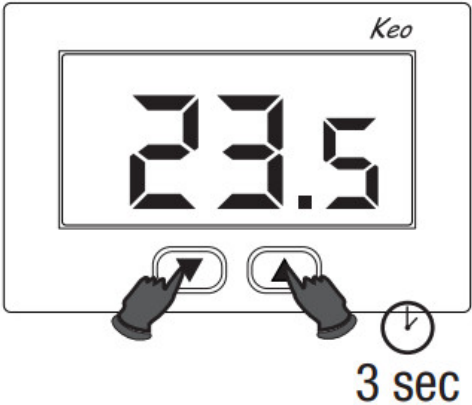
Default values



Heating setpoint 	21°C
Cooling setpoint 	25°C
Minimum settable setpoint – <i>LO</i>	2°C
Maximum settable setpoint – <i>HI</i>	35°C
Operating mode	 (heating)
Antifreeze temperature	6°C
Regulation type	On /off
Auiliary input	DIG
Password	— — — (desabled)

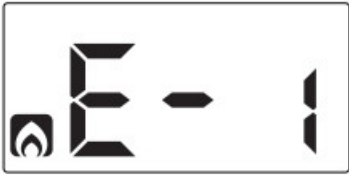







Advanced programming

To enter menu Advanced programming keep simultaneously pressed for 3 seconds the keys  and  until *Pr* will appear.

The items of the menu are displayed in succession. For each item is displayed an identi-fication abbreviation and its relative blinking value. Use the keys  and  to modify the value. The passage to the next parameter occurs after 3 seconds without pressing any key. Once all parameters are set the writing *End* is displayed and the thermostat returns to normal operation saving the effected modifications.




	Minimum settable setpoint – <i>LO</i> It's the minimum value settable as setpoint. Settable values: 2 / 35°C
	Maximum settable setpoint – <i>HI</i> It's the maximum value settable as setpoint. Settable values: <i>LO</i> / 35 C

	<p>Operating mode – E-1</p> <p> if connected to the boiler (heating)</p> <p> if connected to a cooling system</p>
	<p>Antifreeze temperature – (only in heating)</p> <p>Minimum temperature maintained with device off (see box «Switch off»).</p> <p>Settable values: 1 / 10 °C or — (excluded function)</p>
	<p>Regulation type – rEG – (only i heating)</p> <p>0 = on/off wiith settable differential</p> <p>P8 = proportional with band 0.8°C and period 8 minutes</p> <p>P15 = proportional with band 1.5°C and period 15 minutes</p>
	<p>Differential – d0.3 – (only for on/off regulation)</p> <p>Differential (or nys(eresls) for temperature regulation.</p> <p>Settable values: 0.1 / 1°C</p>
	<p>Input eonflgnflon – Est – (only for Keo-B LCD)</p> <p>– °C for the connection of a temperature probe</p> <p>– d10 for the connection of an externa contact to reduce the setpo int (see box “Auxiliary input cnfiguration”)</p>
	<p>Password for keypad lock – PR5</p> <p>Set a value between 001 and 999 to activate the keypad lock.</p> <p>Set “– – 1 to disable the lock.</p> <p>If the keypad lock is active, pressing one key</p> <p>Loc appears and the password is required. If it's properly inserted the keyboard is unlocked for the next 30 seconds.</p>

Auxiliary input configuration (for Keo-B LCD only)

The Keo-B LCD has a configurable auxiliary input for the connection to alternative to:

- an external temperature probe
- an external contact for reducing the set temperature.

With closed contact, the setpoint is reduced by 3 °C than the set one and the symbol  appears on the display. To configure the auxiliary input, see “Advanced programming” in this manual.



Backlighting management

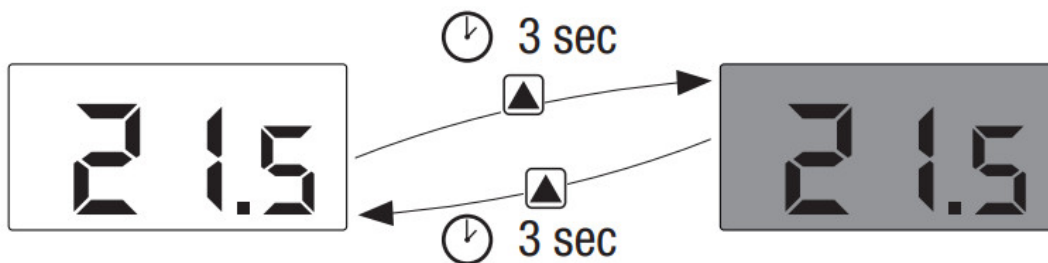
- Keo-B LCD

The keo-B LCD has a backlighting of blue colour that is normally off and turns on when you enter the menu: setpoint modification, advanced programming, pin enter.

- Keo-A LCD

The Keo-A-LCD has a backlighting of blue colour which is on during normal operation.

If the installation makes it necessary (for example bedrooms) you can turn off the backLighting. In this condition the thermostat continues to operate normally and the backlighting turns on when you enter setpoint modification menus, advanced programming, pin enter.



REFERENCE STANDARDS

Compliance with Community Directives

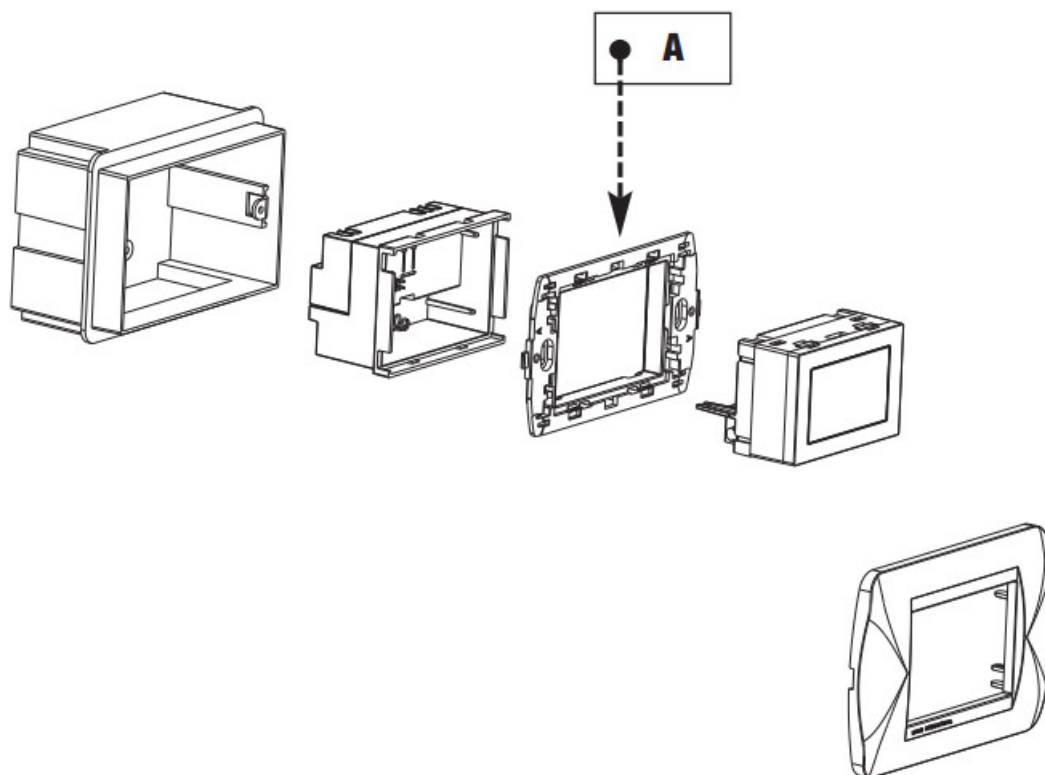
2014/35/EU (LVD)

2014/30/EU (EMCD)

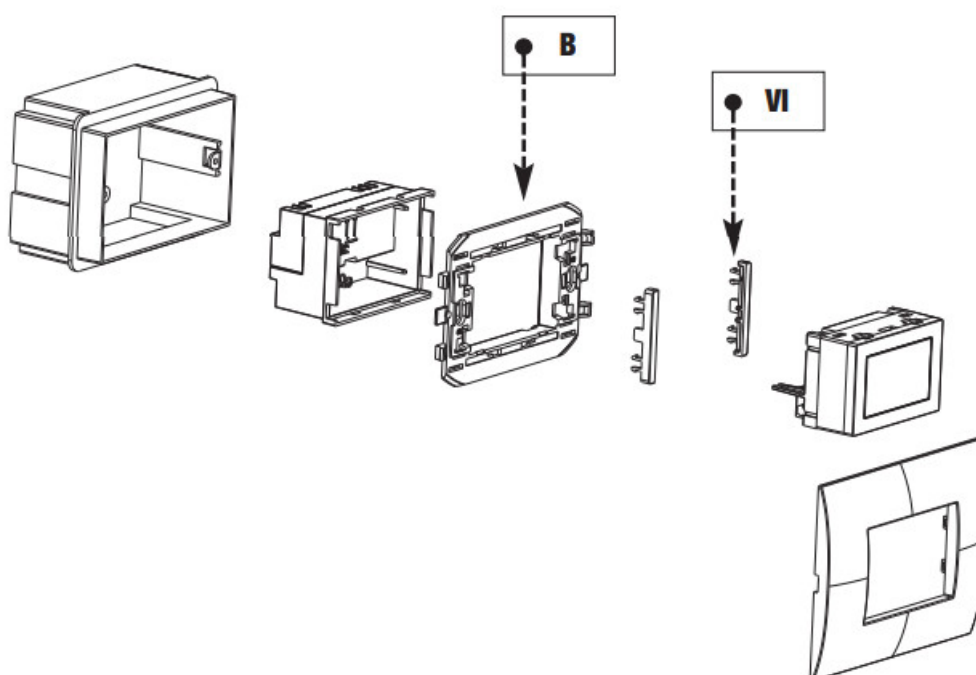
is declared with reference to the following harmonized standards:

- CEI EN 60730-2-9

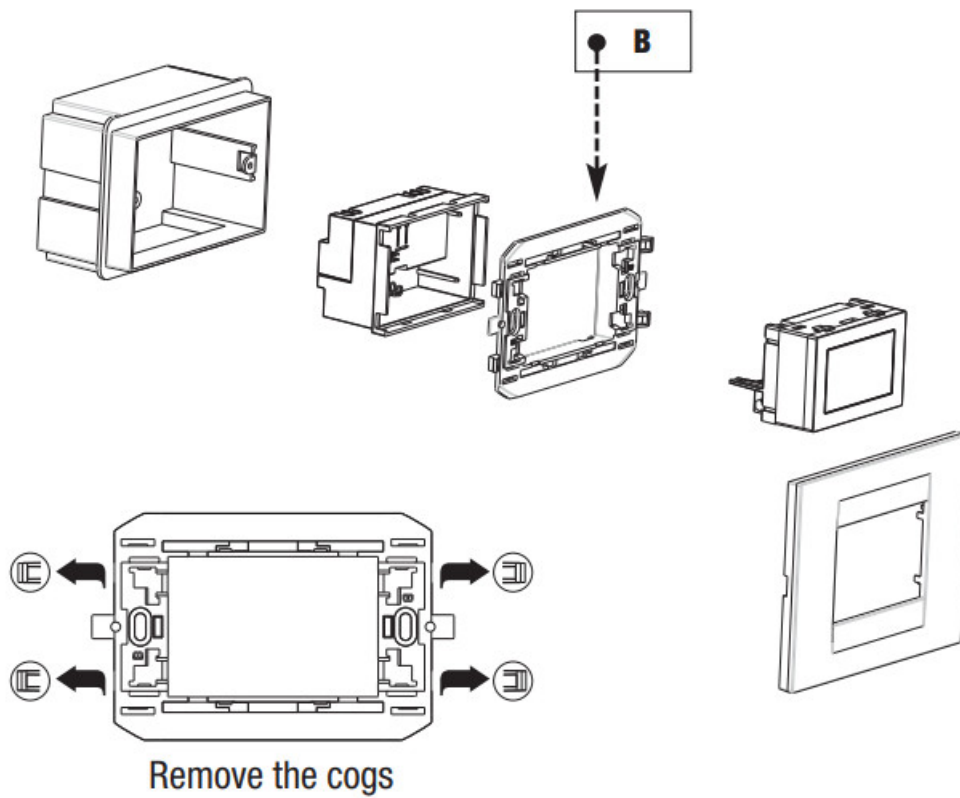
KEO-B LCD BATTERY MOUNTING



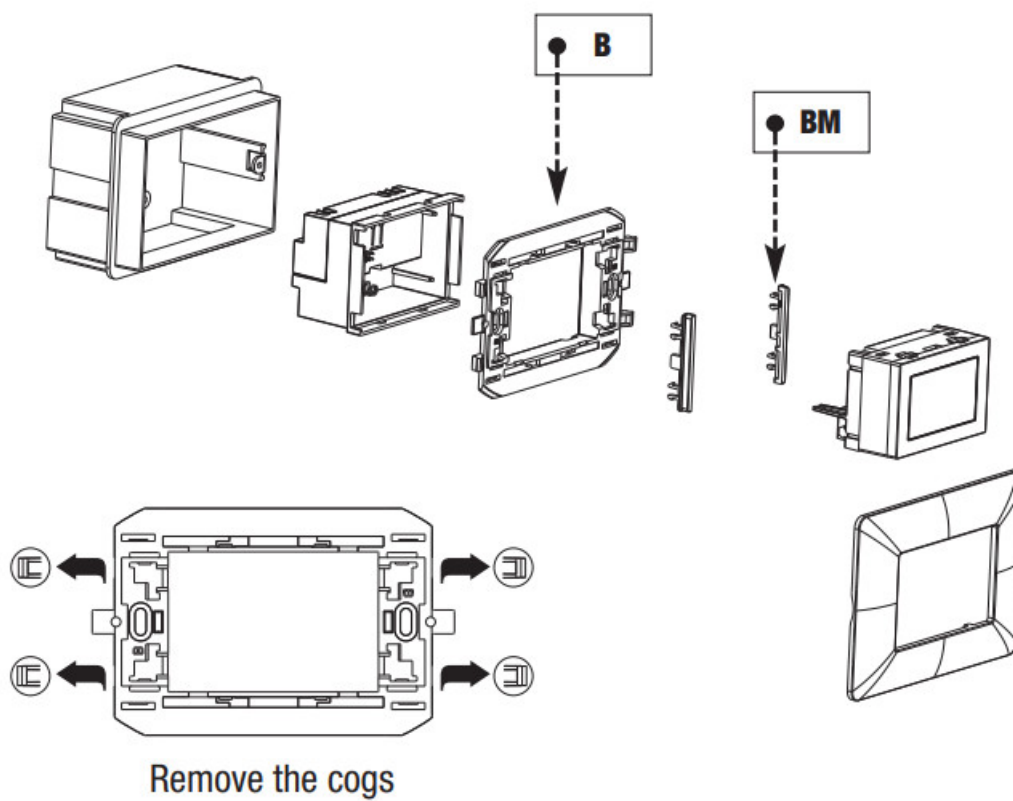
Bicino Living, I.igEM, Light Tech, Livinglight, Axolute series
 Vimar Eikon, Eikon Evo, Plana series
 Ave S44 series ~ ABB Mylos series



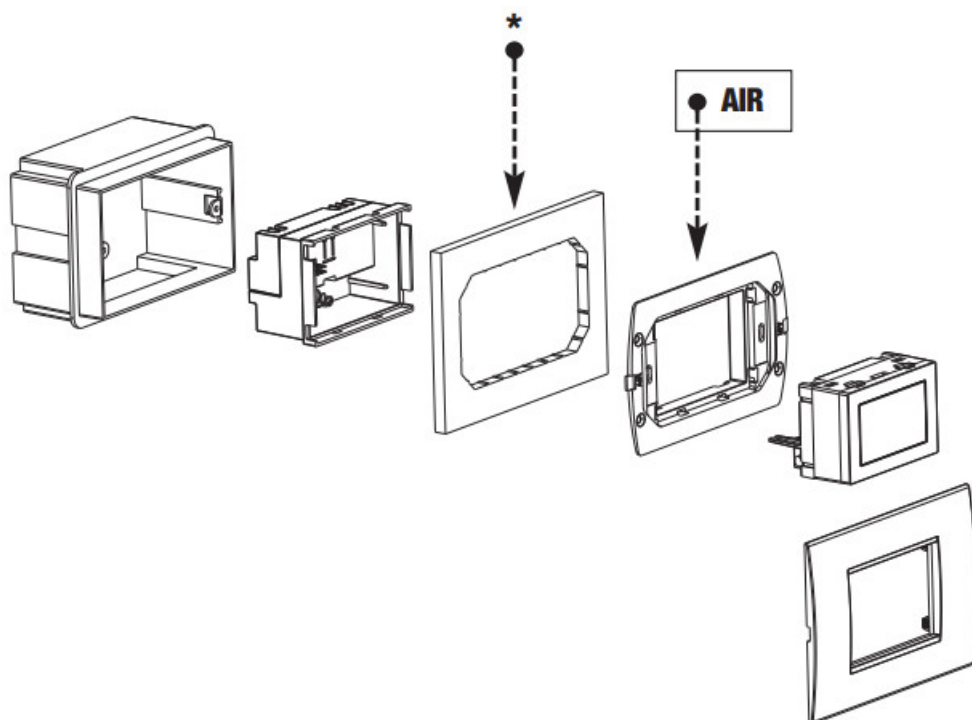
*Note: only for installing the Vimar Idea series cover plate, use the side plastic elements VI.
 ABB Chiara series
 Vimar Arké, Idea series



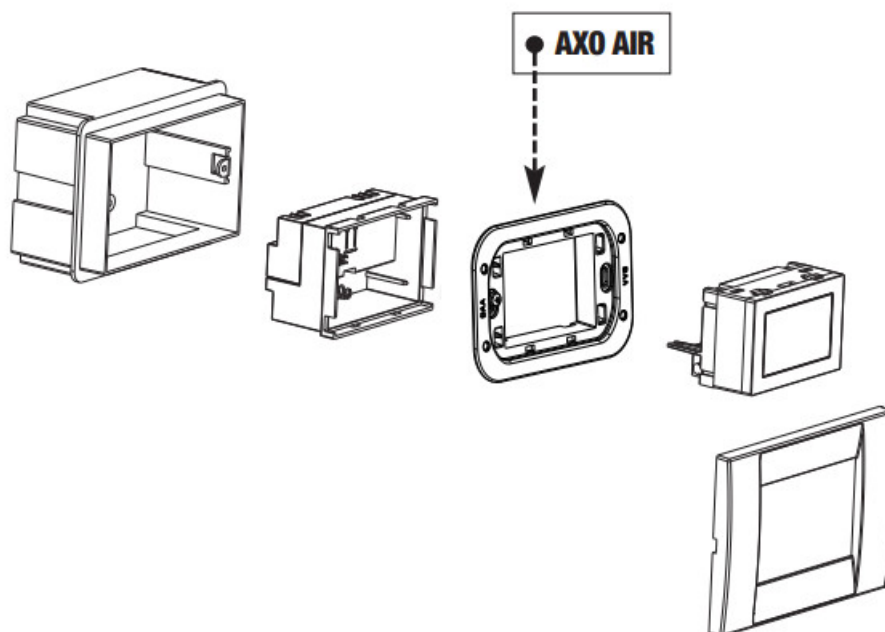
Gewiss Chorus series



Bticion matix series

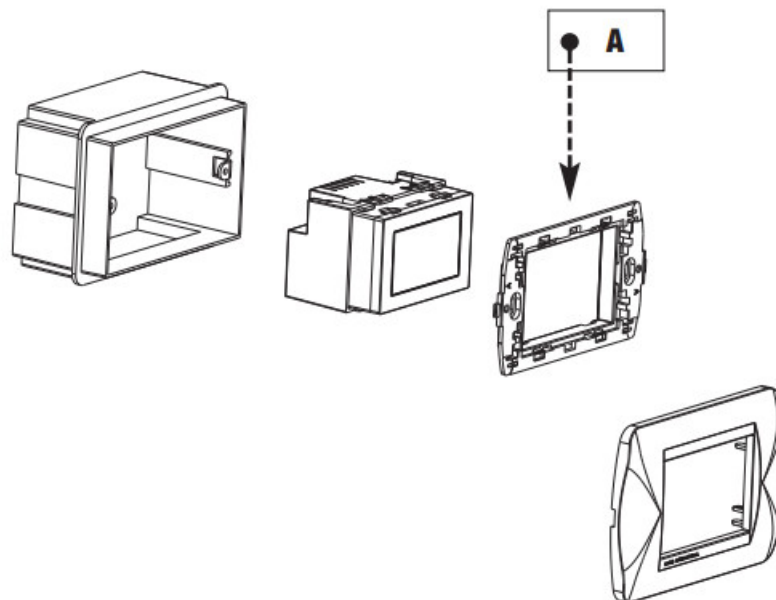


* Note: If the box extension is not present (adapter which increases the depth of the in-built box) we recommend using the frame for installation Livinglight AIR.
Bticino Livinglight AIR series

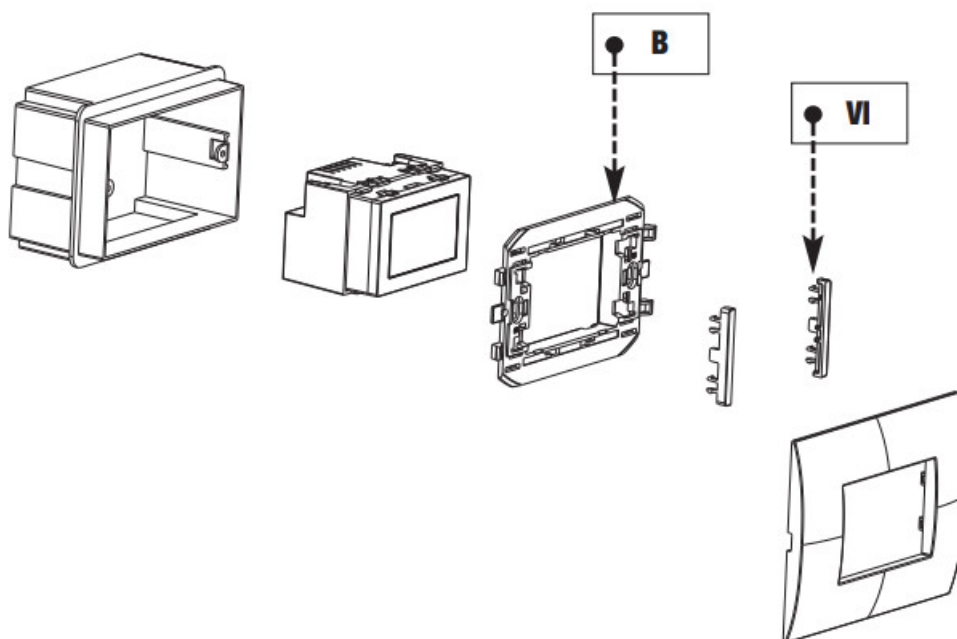


AXO0 AIR mount not included in the package.
Bticino Axolute AIR series

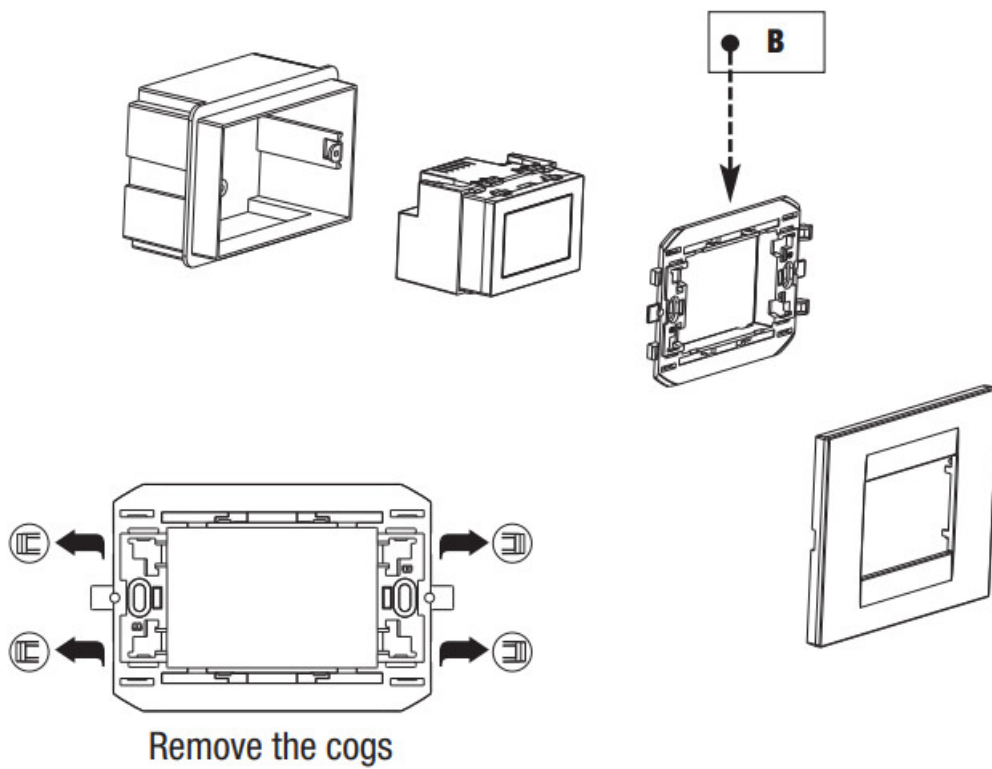
KEO-A LCD MOUNTING



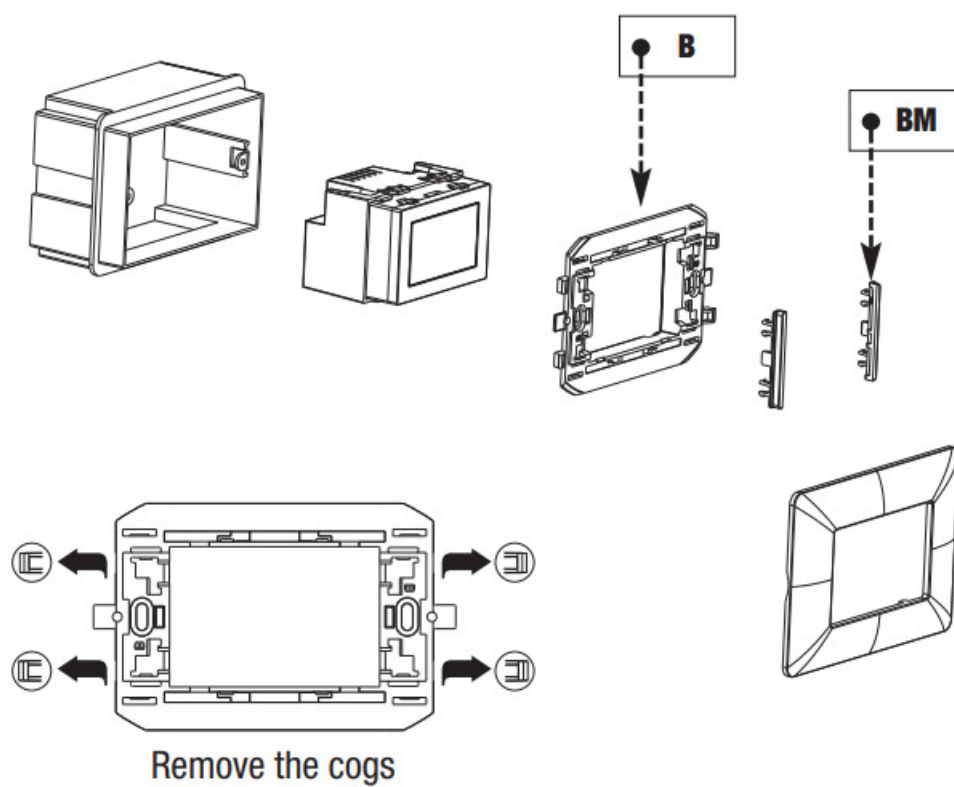
Bticino Living, Light, Light Tech, Livinglight, Axolute series imar Eikon, Eikon Evo, Plana series
Ave S44 series ~ ABB Mylos series



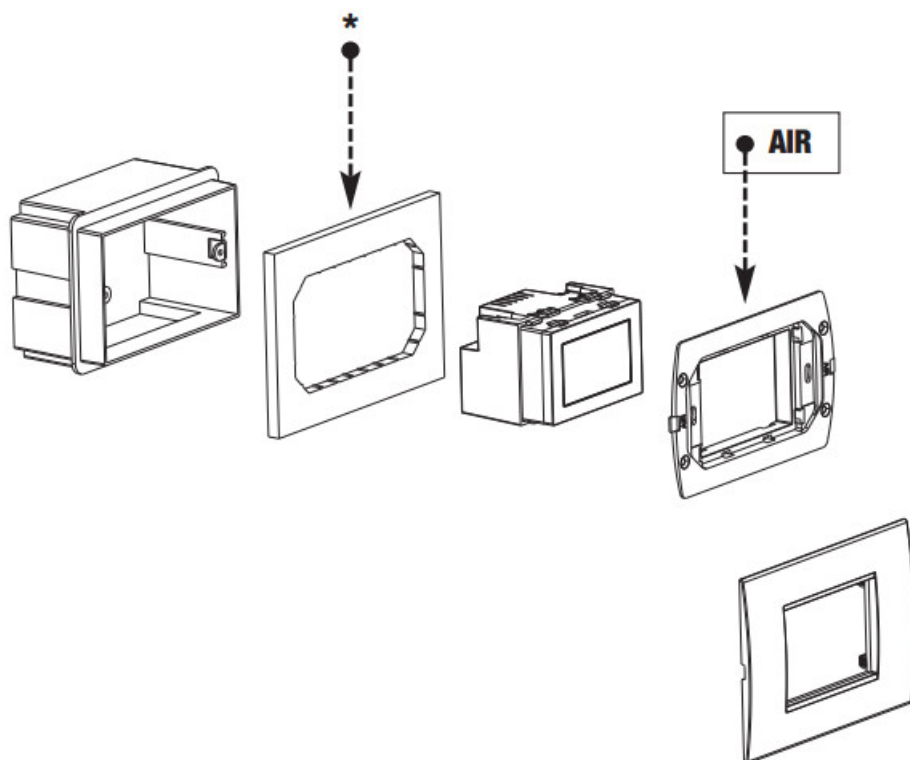
*Note: only for installing the Vimar Idea series cover plate, use the side plastic elements VI.
ABB Chiara series
Vimar Arké, Idea series



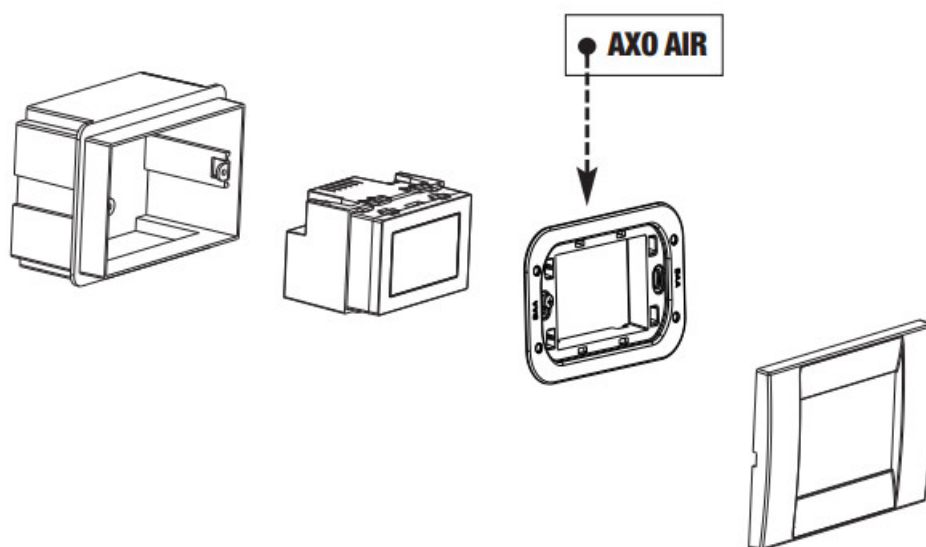
Gewiss Chorus series



Bticino Matix series



* Note: If the box extension is not present (adapter which increases the depth of the in-built box) we recommend using the frame for installation
 Livinglight AIR.
 Bicino Livinglight AIR series



AXO0 AIR mount not included in the package.
 Bticino Axolute AIR series

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Documents / Resources



[vemer VE267100 LCD Built-in Thermostat with Display](#) [pdf] Instruction Manual
VE267100, VE558300, VE267100 LCD Built-in Thermostat with Display, VE267100, LCD Built-in
Thermostat with Display, Thermostat with Display, Display

References

-  [Tecnologia made in Italy - Vemer S.p.A.](#)
- [User Manual](#)