

Prossimo™ Gi 30

CLIMASET®

Digital

Thermostat

*Binad.ir*

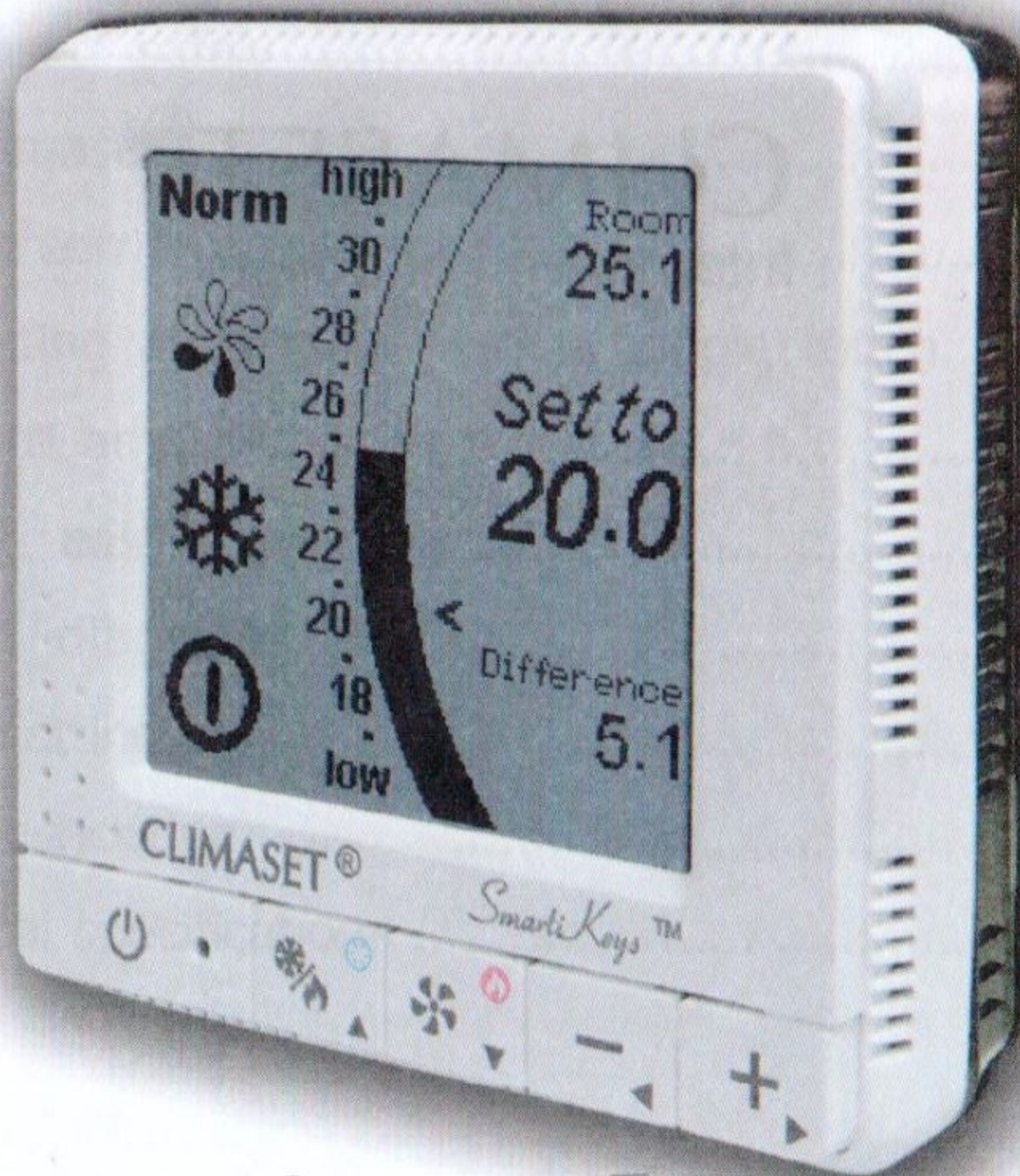
INSTRUCTION MANUAL

# CLIMASET®

## Prossimo™ Gi 30

### Contents

Enjoying your Climaset	4
Introducing your Climaset	5
Indicators on the display	5
SmartiKeys™: easy operation	8
Summary of steps to be followed	9
Installing the device	11
Appendix A. Wiring	13
Appendix B. Extra functions	14
Appendix C. Troubleshooting	18
Appendix D. Technical specifications	20



*Binad.ir*

INSTRUCTION MANUAL

CLIMASET®  
Proximo™ GI 30

# CLIMASET®

Interactive controllers

*Binad in*

Climaset® is under continuous development. Both the described products and document contents may be changed or withdrawn without any previous notice. The scope of the warranty and responsibility of Climaset® applies to the device only. Under no circumstances shall Climaset® be responsible for any special, incidental, consequential, or indirect damages, howsoever caused. LG® is the registered trademark of LG® corporation and the property of its respectful owners.



# Contents

- Enjoying your Climaset® safely ..... 4
- Introducing your Climaset® ..... 5
- Indicators on the screen and adjustments..... 5
- Smartikeys™: adjusting all settings with a single touch..... 8
- Summary of steps to adjust your thermostat ..... 9
- Installing the device easily ..... 11
- Appendix A. Wiring diagrams ..... 13
- Appendix B. Extra settings ..... 14
- Appendix C. Troubleshooting ..... 18
- Appendix D. Technical specifications ..... 20

*Binad.ir*

## Enjoying your Climaset® safely

The instructions below have been prepared to help you enjoy using your Climaset® safely for many years. Please read it thoroughly before starting to use the device.

- Your Climaset® is protected with a fuse. In case of a burnt fuse, please check for malfunction of your air conditioner and thermostat, incorrect wiring, or short circuit.
- Always replace the fuse with one of the same type. Check Appendix D for the proper type of fuse. Contact your local customer service if an extra fuse is necessary.
- Never bridge the fuse with a wire or replace it with one of a higher rating.
- Never use detergent to clean the thermostat surface. It may leave undesirable marks on the surface of the thermostat, especially on the screen. Always use a soft, moist tissue to clean the device.
- Should liquid crystal leak from the screen, avoid all contact with the eyes, mouth, and skin.
- The device is not designed to work in places with condensing humidity.
- Strong electromagnetic fields, such as powerful radio transmissions, can distort the screen content or cause device malfunction.
- Never try to fix the device yourself. Replacement of the parts may affect the safe usage of the device. Always contact your local Climaset® service center for repair.

## Introducing your Climaset®

Climaset® Prossimo™ Gi 30 is a member of Climaset® Prossimo™ state of the art thermostat series and is designed to work in conjunction with those LG® Duct split / Multi V air conditioners which have been equipped with an extra hot water coil for heating.

Appending a hot water coil for heating has not been forecasted in the design aspects of LG® Duct split / Multi V air conditioner controllers.

Utilizing Climaset® Gi controllers empowers the LG® air conditioners to be equipped with hot water coil.

## Indicators on the screen and adjustments

The figure on the next page shows the display indicators and adjustments. The following section describes in detail the role of each indicator on the screen and how to manually adjust them.

- ❶ Room temperature: Indicates the existing room temperature.
- ❷ Set to: Your desired room temperature. Use the "+" key to increase or the "-" key to decrease the set temperature.

✎ Pressing the "+" or "-" key for a while speeds up the increase or decrease of the set temperature.

*Binad.ir*

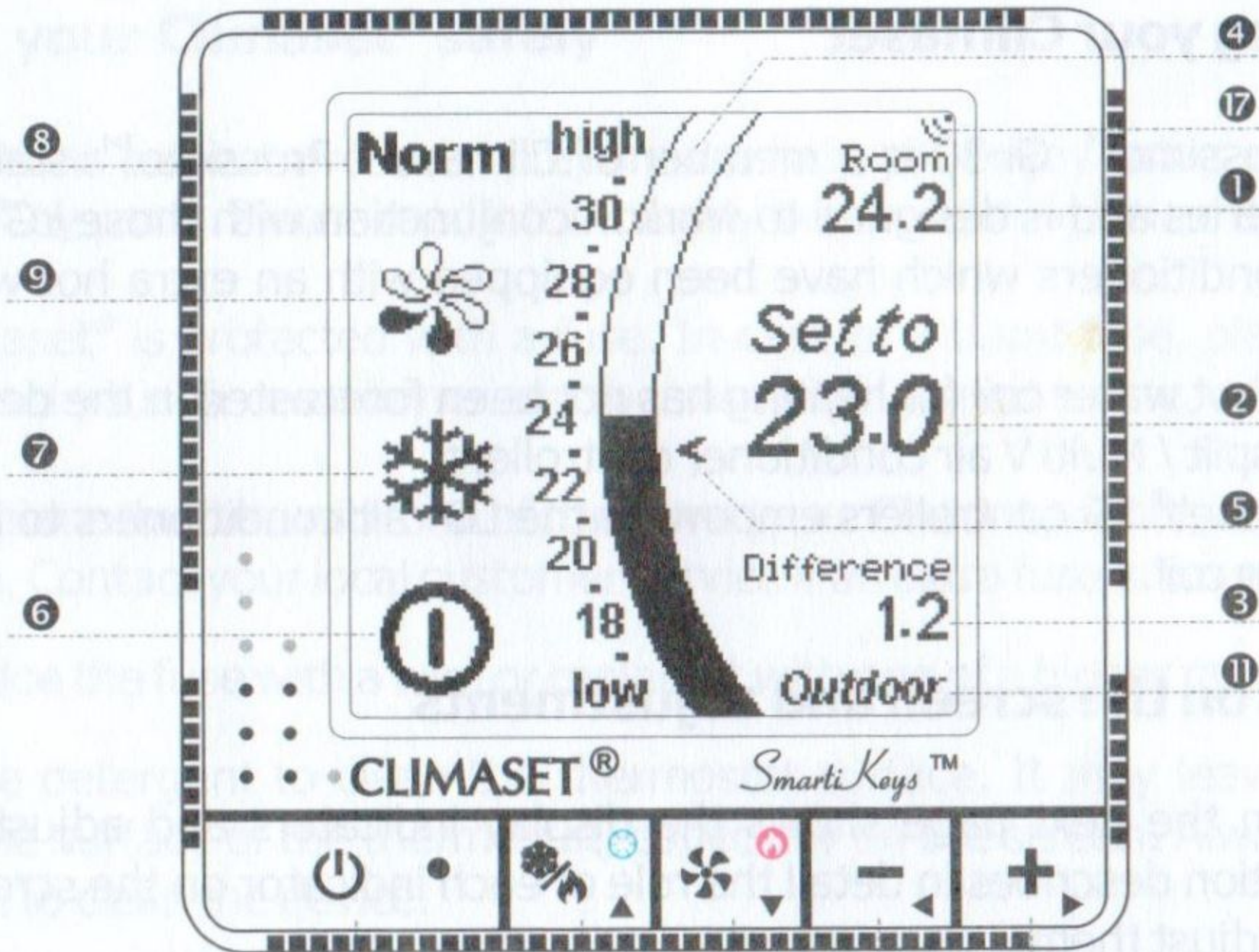


Fig. 1

- ③ Difference reading: Room temperature variation from the desired temperature, set in ②.
- ④ Temperature bar graph: The room temperature is shown graphically by the curved bar graph. It is updated every few seconds and remains unchanged until the next reading.

⑤ Graphical temperature setting indicator: An arrow on the right side of the temperature bar graph shows the desired room temperature graphically, set in ②.

⑥ Power status: This shows the power status of the device. It may display one of the following indicators:

⏻ The device is in standby mode. In this mode, the thermostat displays your setting along with the room temperature, but the air conditioner is not turned on until you switch back to the operational mode. This mode is useful if you do not use your air conditioner for a long period, such as in the spring or autumn, when you are on a trip, or in rooms that are used rarely.

Ⓜ The device is in operational mode. The air conditioner will be switched on or off automatically according to your settings.

Use the power key (Ⓜ) to switch between operational and standby mode.

⑦ Operation mode: This indicator specifies the operation mode of your air conditioner. These modes are consist of ❄ for cooling, 💧 for removing the humidity, ≡ for fan-only, ⚙ for automatic heat/cool changeover, 🔥 for heating with heat pump (if enabled in "Extra Setting") or 🔥 for heating with hot water coil. Use the operation mode key (Ⓜ) to switch between these modes.

✎ "Automatic heat/cool changeover mode" means the device may automatically change between heating with heat pump or cooling based on the setting and the room temperature.

✎ The fan-only mode is useful if you need the air conditioner to just blow air without heating or cooling. In this mode, the thermostat does not switch the air conditioner off unless the power off key is pressed.

✎ Do not activate heat pump in "Extra Setting" if you use hot water coil as heating component.

✎ Not adjusting this setting correctly will cause the malfunction of your air



## 8 Smartikeys™: adjusting all settings with a single touch

conditioner.

⑧ **Auto/Normal fan operation:** If fan auto mode is enabled in "Extra Setting", the indoor unit switches on when the outdoor unit is on and switches off when the outdoor unit is off. Disabling the fan auto mode causes the fan to run continuously regardless of outdoor unit status.

✎ This setting has no effect in device operation in heat2(🔥) and fan-only(≡) mode.

⑨ **Fan speed:** This displays the adjusted fan speed. The number of blades is proportional to the determined fan speed.

Use the fan speed key (Ⓜ) to change the fan speed from low to high. If the fan speed is high and you press the fan speed key again, the low speed will be selected.

⑩ **Outdoor/Defrost activation indicator:** It indicates "Outdoor" when the outdoor unit is operating. "Defrost" means the preheating system of outdoor unit is active. It switches from "Defrost" to "Outdoor" when the preheating has been completed, and the outdoor unit starts to work.

✎ Preheating system will be activated only in heat1(🔥) and automatic heat/cool (🌡️) mode.

⑪ **Beep sound indicator:** This indicates whether the key press beep is enabled or not. Press and hold the power key (Ⓜ) for 5 seconds to turn it on or off.

✎ This has no effect on the confirmation beep sound for remote controller commands.

## **Smartikeys™: adjusting all settings with a single touch**

Determine whether you need to adjust the thermostat for cooling or heating. To

adjust the device for cooling, just press the key with the blue snowflake sign (13) for 5 seconds; to adjust it for heating, press the key with the red flame sign (14) for 5 seconds. The device will respond with a long beep. This means all the necessary settings have been made. You do not need to press any more keys. These default settings have been optimized for most people and most environments.

### Summary of steps to adjust your thermostat

- ① If you are not going to use the air conditioner for a while, switch the thermostat to standby mode. The display should indicate standby (⏻) (6). If it is not, just press the power key (12). The standby icon will appear. Otherwise, if you are going to use your air conditioner, the operational mode indicator (1) should appear on the display. If it does not, just press the power key (12). The operational mode indicator will show up there.
- ② Use the operation mode key to select the desired operation mode. A flame indicator on the screen (7) indicates that the device has been adjusted for heating. Choose 1 for heating with heat pump and 2 for heating with hot water coil. A snowflake ❄ represents cooling. A combined heat/cool indicator ❄🔥 shows that the device may automatically change between heating and cooling based on the set temperature and the room temperature. A blow sign ≈ indicates that the fan-only mode has been selected, and the air conditioner will continue to blow without heating or cooling the air. In case of high humidity select the dehumidification 🌧 mode to remove humidity while cooling the air slightly.

- ③ Adjust your desired fan speed using the fan speed key (14). If the highest fan speed is selected and the fan speed key (14) is pressed again, the lowest fan speed will be selected.
- ④ Use the "-" (15) or "+" (16) key to increase or decrease the set temperature. 25°C is normally suitable for most people and environments.

Enjoy using your Climaset®.

*Binad.ir*

## Installing the device easily

The instructions below have been prepared to assist you in the installation of the device. Please read the instructions thoroughly and carefully before installing the device. Following all the steps as described guarantees your safety and the functionality and endurance of the thermostat and air conditioner.

① Turn off the respective circuit breaker.

② LG<sup>®</sup> standard 3 core shielded 0.5mm<sup>2</sup> cable can be used to connect the thermostat to air conditioner for a maximum length of 50 meters. For greater distance, up to 100 meters, the core diameter should be increased. Use LG<sup>®</sup>'s standard extension cable if necessary.

③ Release the back wall mounting plate. There are four latches, as illustrated in the figure, two at the top and two at the bottom of the thermostat. Use a screwdriver with a tip between 3 and 5 mm to gently

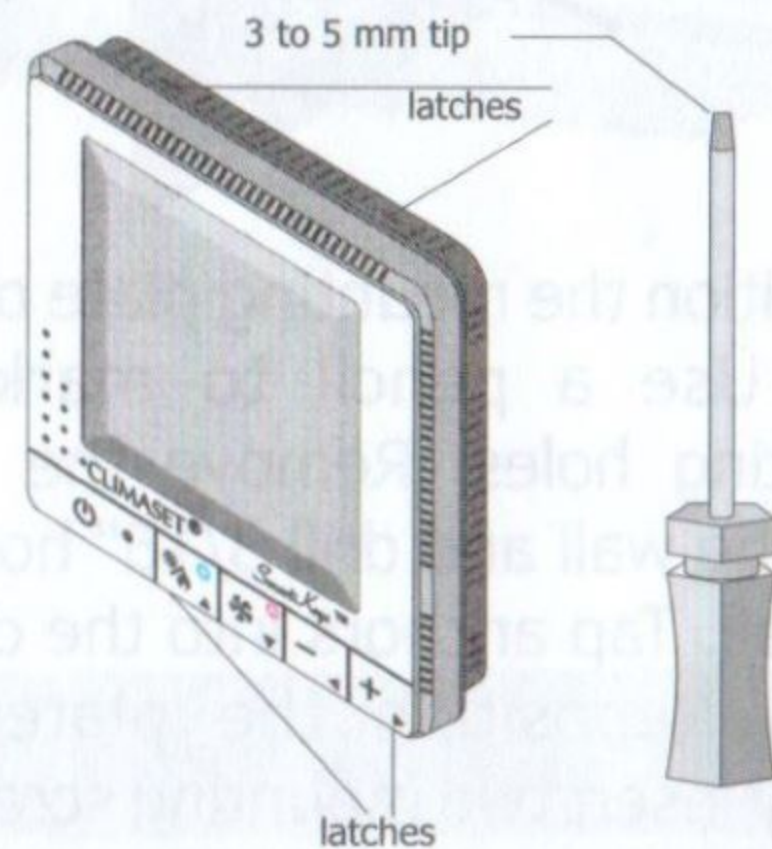


Fig. 2

release them. After releasing each of the latches, pull the respective device corner a little to keep the latch from snapping in again. Pull the device straight out from the back mounting plate after releasing all four latches.(Fig. 2)

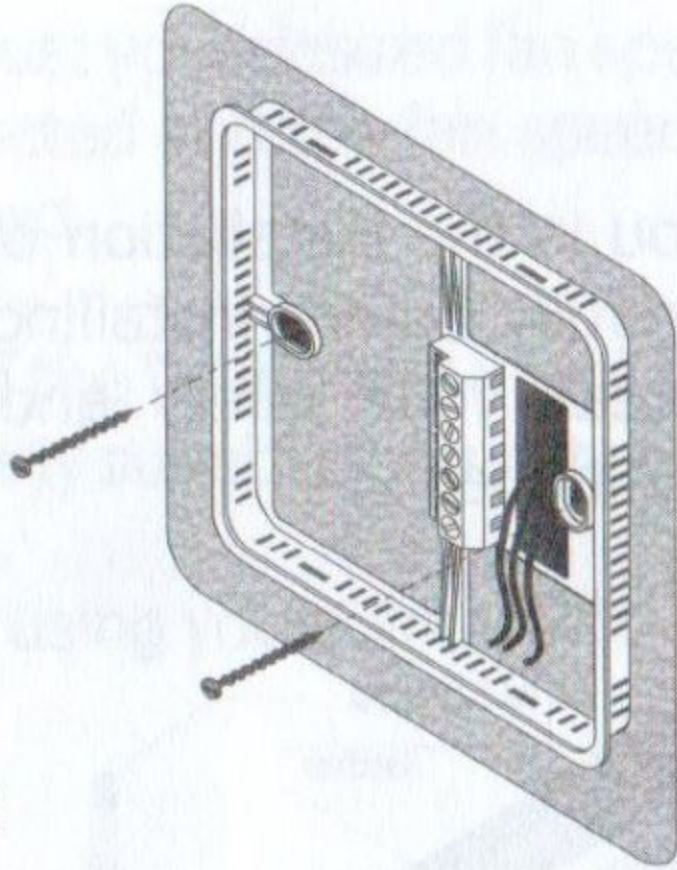


Fig. 3

④ Position the mounting plate on the wall. Use a pencil to mark the mounting holes. Remove the plate from the wall and drill  $3/16''$  holes in the wall. Tap anchors into the drilled holes. Reposition the plate and loosely insert two mounting screws in the holes. Level the plate for appearance. Tighten the mounting screws. (Fig. 3)

✍ You may also use it over a standard 60x60x40 mm conduit box. The screw holes match the holes of the conduit box and cover the box completely.

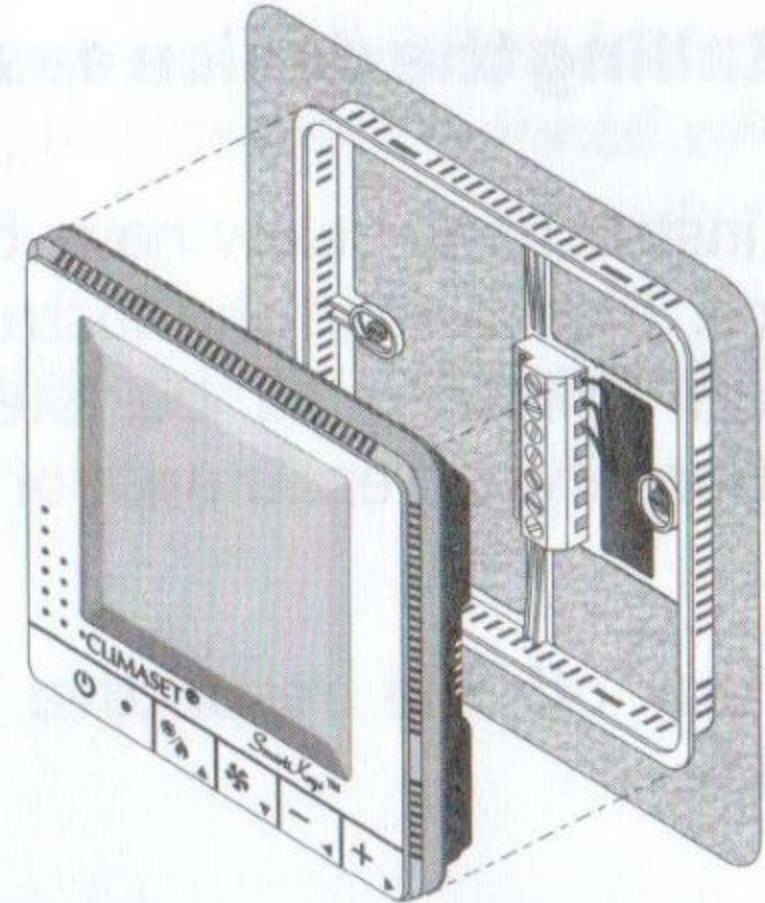


Fig. 4

⑤ Wiring techniques: Please refer to Appendix A. for proper wiring.

⑥ Mounting the unit: Hold the thermostat face parallel to the wall surface. Do not incline the thermostat face. Match the needles on the back of the thermostat with the holes on the terminals of the mounting plate. push the thermostat gently over the needles until the latches snap closed. (Fig. 4)

⑦ Turn on the circuit breaker. The device will be operational.

## Appendix A. Wiring diagram

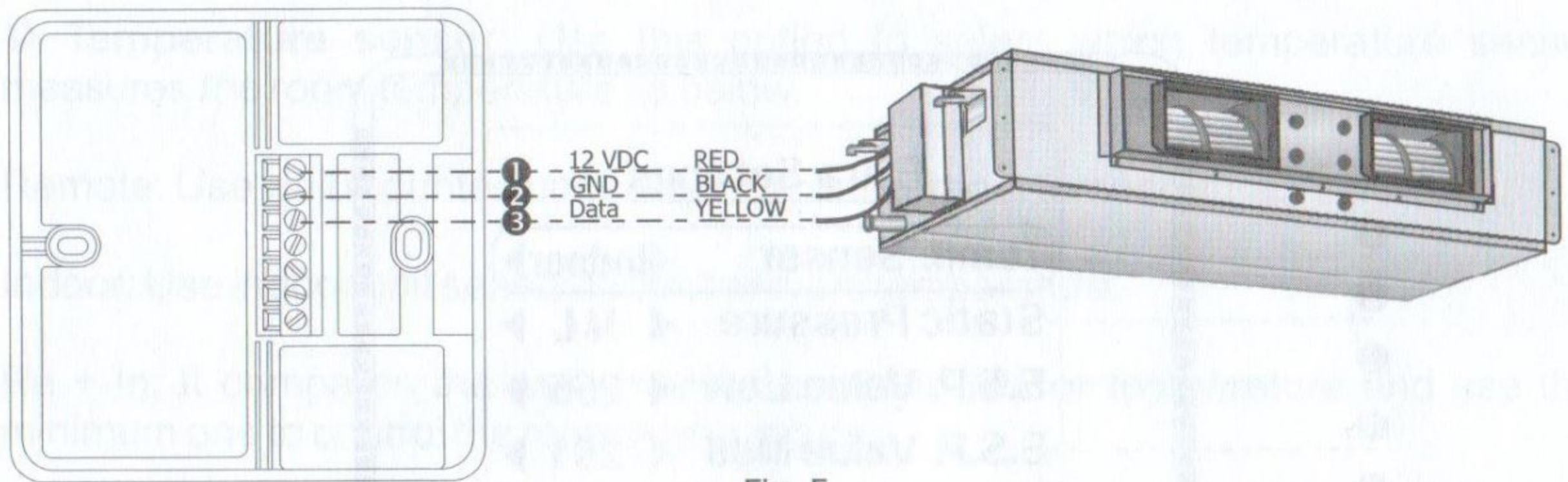


Fig. 5

Terminal number	Description	Input/Output	Electrical characteristics
1	12 VDC	Input	DC 12V
2	GND	Input	GND
3	Data	I/O	DC 12V / GND
4	Do not connect	-	-
5	Do not connect	-	-
6	Do not connect	-	-
7	Do not connect	-	-

## Appendix B. Extra settings

You may enter the Extra Settings screen by holding "+" (13) and "-" (14) simultaneously for a few seconds.

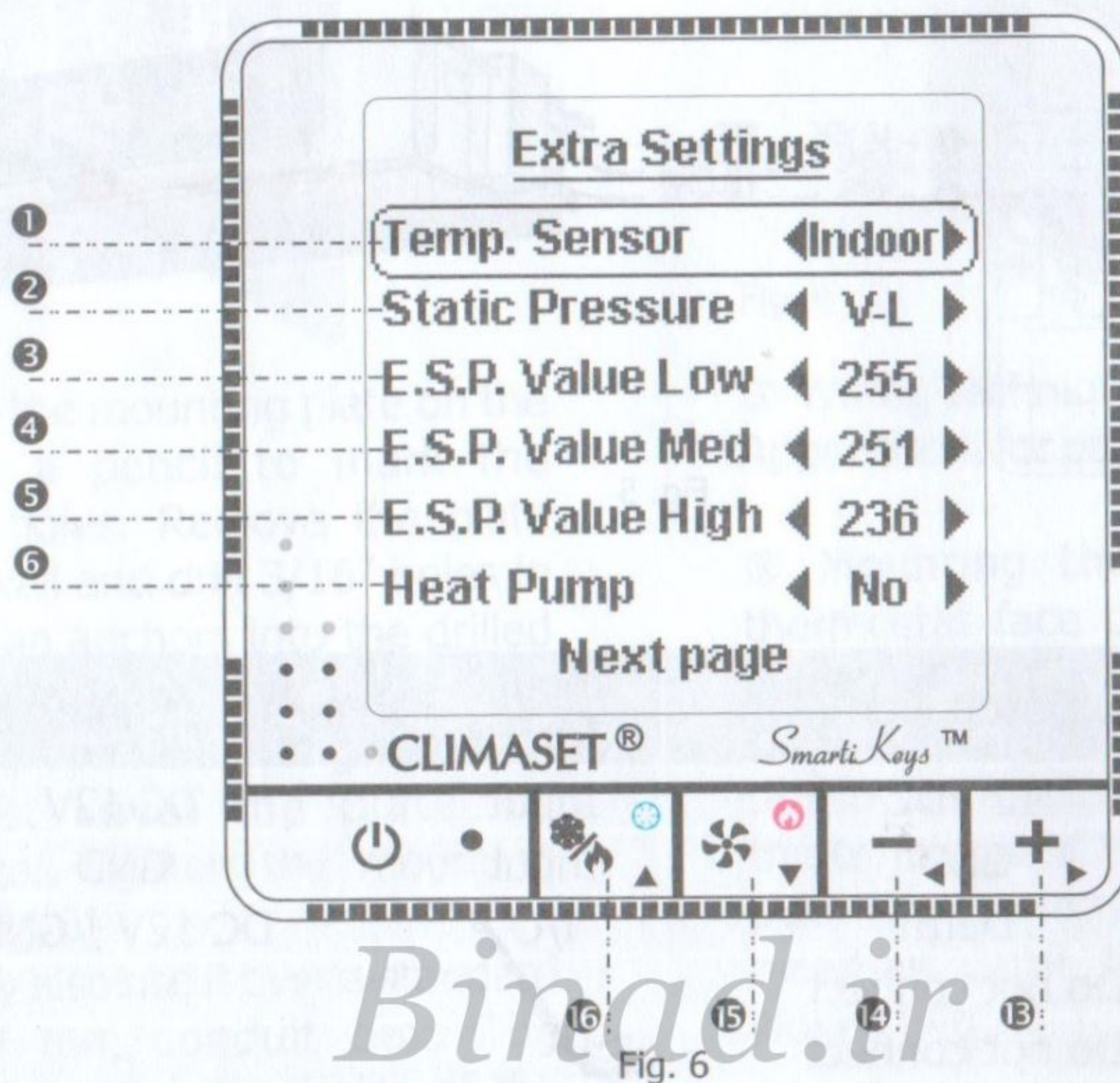


Fig. 6

Extra settings are intended to be modified by experts. We do not recommend that you modify these settings unless you have enough knowledge about their effects.

You may navigate through the rows by pressing "▼" (15) or "▲" (16). Each row displays the settings for its respective parameter. "Extra Settings" consists of two pages as illustrated in Fig. 6 and Fig. 7. The last two rows of the last page are used to restore factory settings and save and exit. (Fig. 7)

❶ **Temperature sensor:** Use this option to select which temperature sensor measures the room temperature as below.

Remote: Use wall mounted unit sensor to control room temperature.

Indoor: Use indoor unit sensor to control room temperature.

Re + In: It compares the wall mounted unit and indoor temperature and use the minimum one to control the room temperature.

❷ **Static Pressure:** You can select the static pressure among three different modes. V-L(Variable-Low), F-H(Fixed-High) and V-H(Variable-High).

❸,❹,❺ **E.S.P Value:** Adjust the strength of air flow for each of three fan speeds(Low,Medium,High). For each fan speed the value of E.S.P changes between 0 and 255. Smaller values result in stronger air flow.

❻ **Heat Pump:** Enable/Disable heat pump, if it is supported by air conditioner unit.

✎ Pressing "▼" (15) over this item will navigate you to the next page. (Fig. 7)

❼ **Address Setting:** It sets the address of central control. The address has two digits. The left one represents the group number and can be changed between 0 and F by pressing "◀" key. The right digit shows the indoor unit number and can be



changed between 0 and F by pressing "▶" key.(Fig. 7)

Pressing "▲" (16) over this item will navigate you to the first page of extra settings.

**8 Group Control:** If you control more than one indoor unit by a wall mounted unit, please select "Group" mode by pressing "▶" key. Press "◀" key to select "Single" mode if you want to control only one indoor unit.

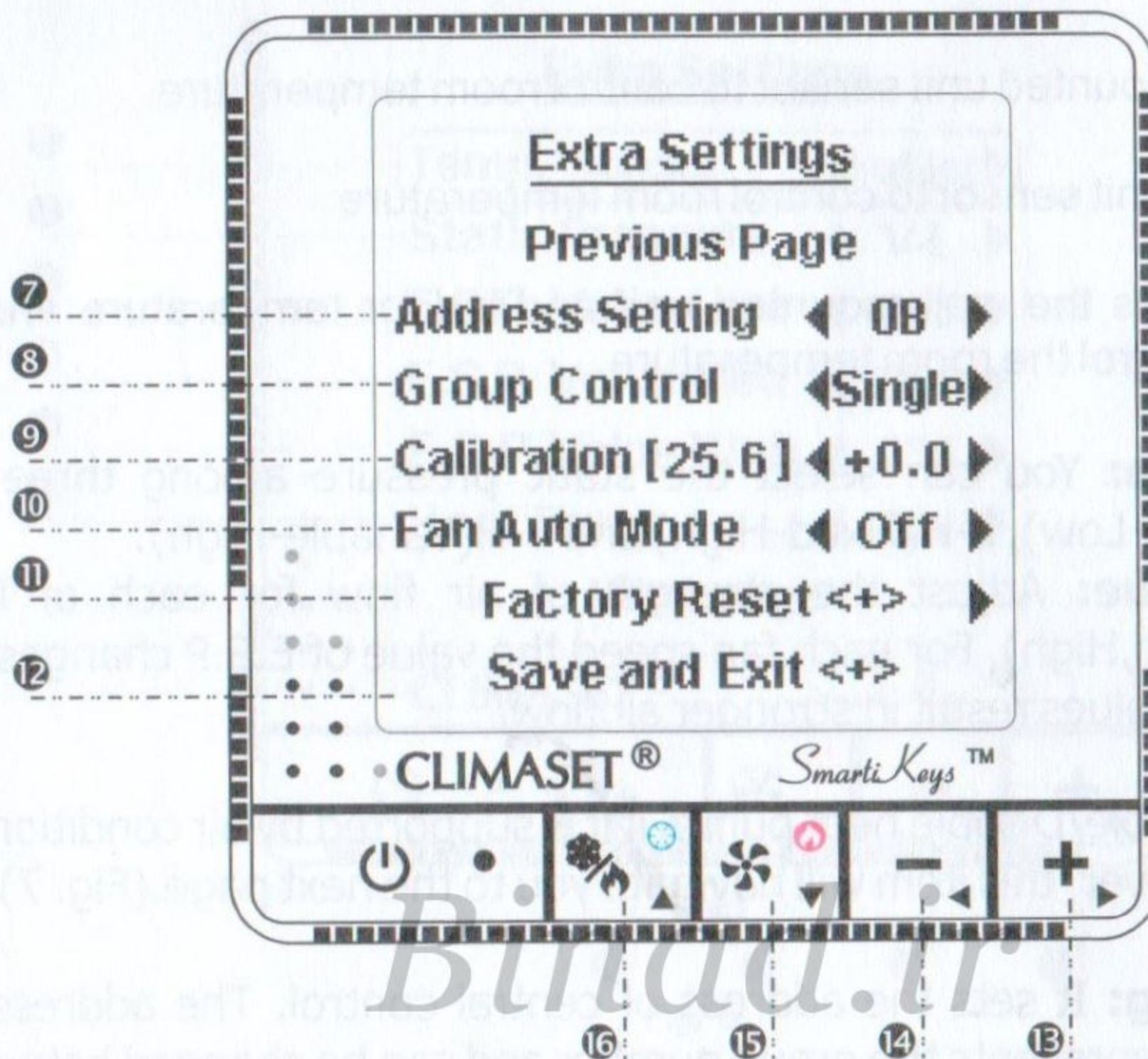


Fig. 7

ⓐ **Calibration:** Use this if you feel that the thermostat temperature differs from your room temperature. The thermostat is precisely calibrated in the factory, but as the temperature in thermostat position may differ by a few degrees centigrade in some locations in your room, you may calibrate the device to match a particular location. Use the "+" (ⓑ) or "-" (Ⓒ) key to change the sensed temperature.

ⓓ **Fan Auto mode:** Enable/Disable fan automatic mode. For more details refer to page 8.

ⓔ **Restore factory settings:** Use the "+" (ⓑ) key on this row to restore all the above settings to their initial values as set by the factory. It is useful when you cannot remember the changes you made and you are not satisfied by them.

ⓕ **Save and exit:** Use this setting to save all changes and return to the main screen. Select this option by pressing the "+" key.

*Binad.ir*

## Appendix C. Troubleshooting

Issue	Action
<p>The display has vanished</p>	<p>Check whether the circuit breaker is on and the fuse inside the thermostat is not blown. In any of these cases, we recommend that your air conditioner and your wiring be checked by a technician.</p> <p>Check the fuse of control box of indoor unit is not blown.</p> <p>Check if 12 VDC supply voltage from control box of indoor unit is applied to your thermostat.</p>
<p>An error code shows up on the screen</p>	<p>Each error code has a meaning depends on the fault occurred during operation of system or installation. The most common errors are as below:</p> <ul style="list-style-type: none"><li>1-CH1 : Indoor unit sensor is disconnected.</li><li>2-CH2 : Piping thermistor is disconnected.</li><li>3-CH3 : Data communication cable is not connected.</li></ul> <p>Please refer to your LG air conditioner manual to interpret other error codes.</p>

Issue	Action
The air conditioner does not start	<ol style="list-style-type: none"><li>1. Check whether the power icon indicates the Operational mode.</li><li>2. Check whether you have selected the proper operation mode. Refer to page 7.</li></ol>
The air conditioner is always running	<ol style="list-style-type: none"><li>1. Check whether you have selected the proper operation mode.</li><li>2. Check whether your desired temperature is too low or too high. The best value for desired temperature is about 25°C.</li><li>3. It is possible that your air conditioner capacity is not enough for your application or that its performance has been reduced because of some technical problems.</li></ol>
Burnt fuse	Have a professional check the wiring. Always replace the fuse with one with the same type. Never bridge a fuse with a wire or other conducting material.

✎ Contact your local customer service provider if the problem is not resolved or is not listed here.

## Appendix D. Technical specifications

Thermostat specifications	Temperature sensitivity	0.1°C
	Backlight	White
	Display length	56 mm / 2.2 inches
	Display width	56 mm / 2.2 inches
	Width	90 mm / 3.5 inches
	Length	90 mm / 3.5 inches
	Height	26 mm / 1 inch
Operating conditions	Temperature	0°C to 70°C
	Humidity	5% to 90% non-Condensing
Fuse specifications	Current rating	100 mA
Optional remote controller specifications	Max. effective distance	8 m
	Max. viewing angle	30°

*Binad.ir*

Copyright© 2016 Climaset®. All rights reserved.