

IT

Istruzioni e avvertenze

IE

Instructions and warnings

 **IMMERGAS**

Cod. 3.030863

Pannello Remoto
di Zona

Remote Panel
for Zone




Dear Customer,

*Congratulations for having chosen a top-quality **Immergas product**, able to assure well-being and safety for a long period of time.*

*As an **Immergas customer** you can also count on a qualified after-sales service, prepared and updated to guarantee constant efficiency of your "Remote Control".*

*We would like to provide you with some important indications, your observance of which will ensure your satisfaction with the **Immergas** product:*

- *Read the following pages carefully: you will find useful suggestions regarding the correct use of the device.*
- *For assistance and scheduled maintenance, contact "**Immergas Authorised After-Sales centres**": they have original spare parts and are specifically trained.*

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HOW TO USE THE INSTRUCTION BOOK

The instruction book has been divided into 3 main parts:

in the first, for the installer, the assembly and connection phases of the remote control with the boiler are described;

in the second, all operating program customisation phases are described;

in the third and last part, all operations for displaying and keeping system operation under control are described.

FOREWORD.

The “**Remote zone panel**” is a device designed to guarantee ideal temperature conditions at any time of the day and night for each individual day of the week.

Its installation takes a few minutes: it is connected to an appliance via 4 cables, through which, it receives and sends the adjustment and control commands and receives the power supply. On completion of installation it is ready to function thanks to the pre-set program inside. The customer can modify the basic program according to requirements. Programming the Remote zone panel is extremely easy and a wide display allows constant control of all values set.

GENERAL WARNINGS

This manual was intended for: **the Installer** and **the User**.

- Carefully read the warnings contained in this document as they are required to indicate the use of the Remote zone panel envisioned by the design hypothesis, the technical features, the installation, assembly, programming, adjustment and use instructions.
- The system must be compliant with applicable IEC Standards.
- The instruction manual must be considered a part of the Remote zone panel and must be “**kept for future reference**”.
- After having removed the packaging, check the integrity of the Remote zone panel. If in doubt, do not use it and contact the **Dealer or Manufacturer**.
- The Remote zone panel is destined only for the use for which it has been expressly designed. Any other use must be considered improper and therefore dangerous.

- Our products are manufactured in compliance with the Safety Standards in force. It is, therefore, recommended to use all devices and attention in such a way that injury/damage is not caused to persons or objects.
- Do not remove parts of the Remote zone panel when it is functioning.
- Do not use the Remote zone panel if exposed to heat sources or under the scorching sun.
- The manufacturer will not be held responsible in the following cases:
 - a) Incorrect installation.
 - b) Unauthorised changes or tampering.
 - c) Total or partial failure to comply with instructions.
 - d) Exceptional events etc.

CLEANING THE CASE

To clean the case of the Remote zone panel use damp cloths. Never use abrasive or powder detergents.

WARNING

Immergas reserves the right to make improvements and changes to details and accessories, excepting the essential features of the model described and illustrated herein.

1. INSTALLATION

1.1 Remote Panel main dimensions.

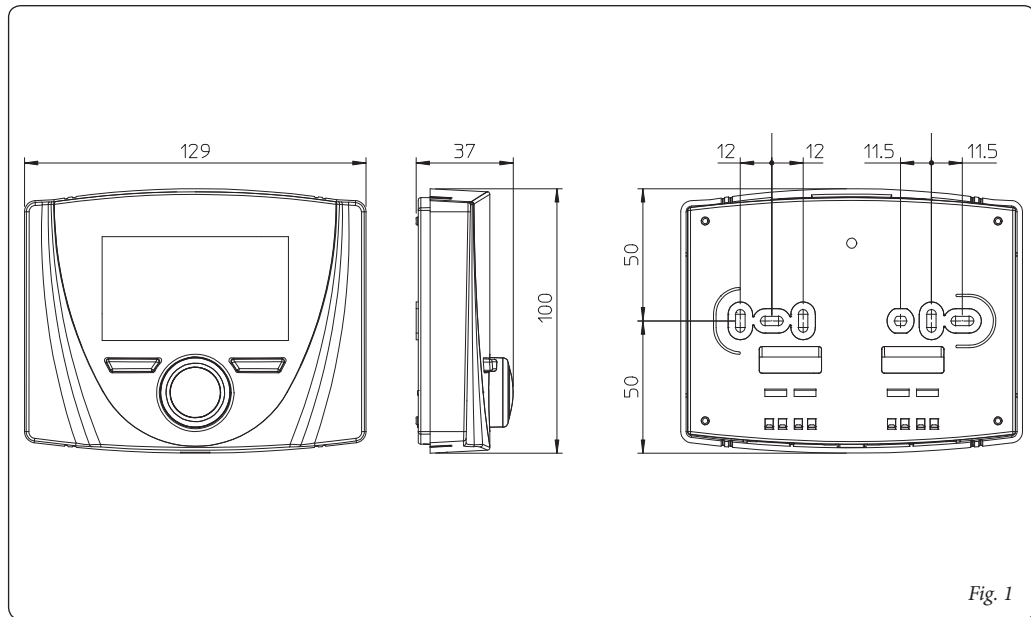


Fig. 1

1.2 Remote Panel installation operations.

- 1) Separate the fixing template from the body of the remote panel using a screwdriver as a lever in the relative recess (*Fig. 2*). Install the remote panel away from heat sources and in a suitable position to detect the room temperature correctly.
- 2) Install the remote panel using the openings on its rear part directly onto the wall or on a recess box using the relative supplied screws.
- 3) Connect the remote panel to the electronic management clamps, as indicated in the wiring diagram.

The connection is made using wires with a minimum section of 0.50 mm^2 and maximum section of 1.5 mm^2 and with a maximum length of 50 metres.

N.B: for correct installation, prepare a dedicated line to connect the remote control according to the Standards in force regarding electrical systems. If this is not possible, interference due to other electric cables could cause malfunctioning of the remote control itself.

- 4) Fix the body of the remote control to the mount template, engaging it with pressure.
- 5) After the device has been powered, wait about 30 seconds before regulation so that communication between remote panel and the device has established.

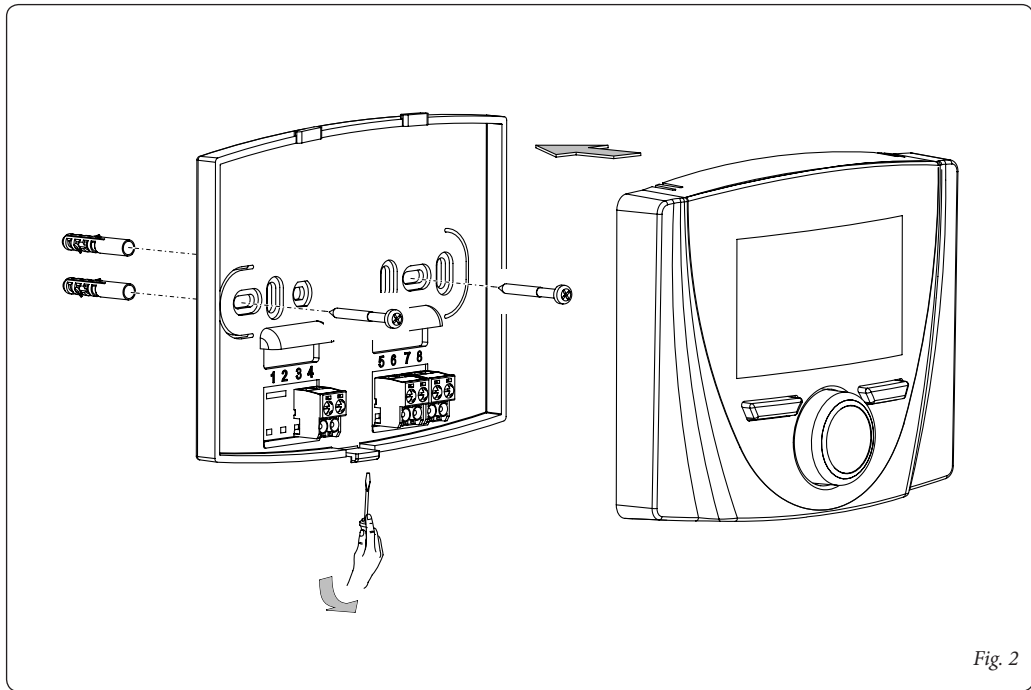
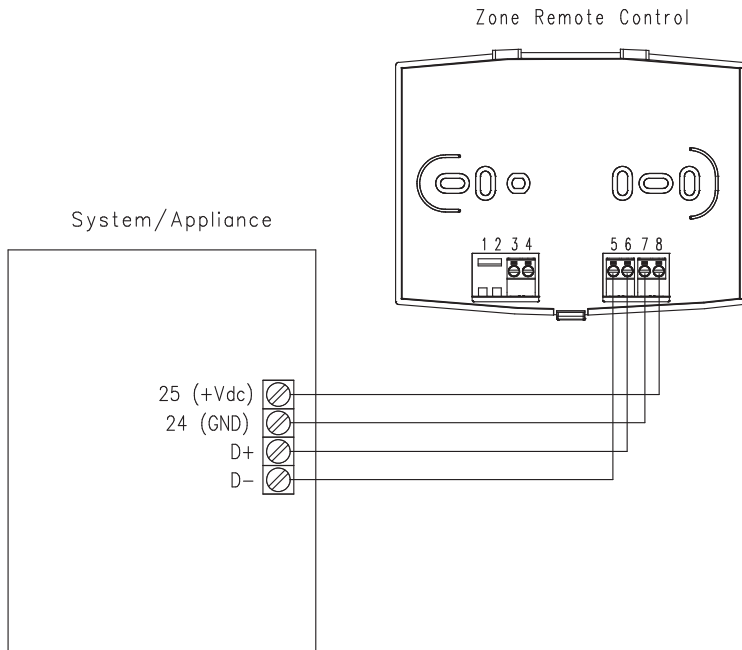
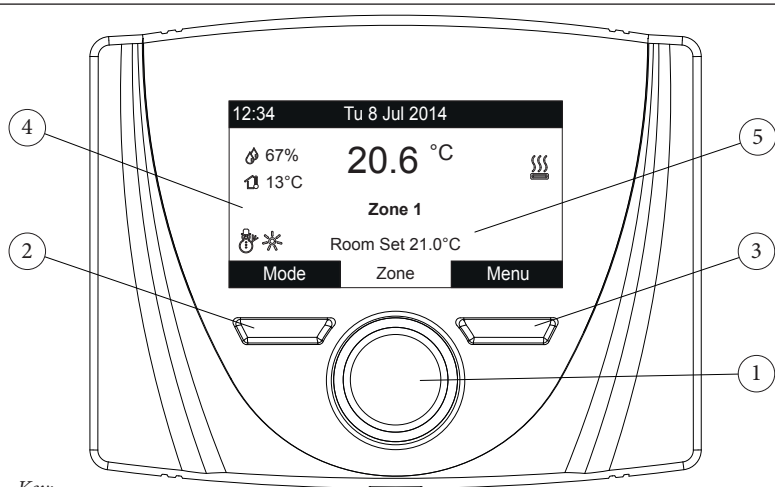


Fig. 2

Fig. 3



2. USE OF THE REMOTE ZONE PANEL




Key:


- 1 - Main parameters switch with button to confirm and save data
- 2 - Left context button
- 3 - Right context button
- 4 - Display
- 5 - Zone setting


Fig. 4

3. OPERATING MODE SELECTION.


According to the functioning mode selected, the Remote zone panel performs the requests of the user, displaying the results on the display. Press the “Mode” button to select the following functions: Stand-by, Summer, Summer with Cooling, Winter (Fig. 5). If multiple Remote zone panels are present, the operating mode is continuously updated between the various devices.

Stand-by / antifreeze mode (). In this mode, the appliance can only function in the event of antifreeze request, where this option is available.









Summer mode (). In this mode the appliance is enabled for producing domestic hot water excluding heating or cooling the room.




Summer with Cooling mode (). In Summer with Cooling mode, the appliance is enabled for the production of domestic hot water, for the production of room cooling and for room dehumidification.

In “Cooling” mode, the Remote zone panel can operate in automatic or temporary manual mode.

Winter mode (). In Winter mode the appliance is enabled for producing domestic hot water and for central heating the room. In Winter mode, the Remote zone panel can operate in automatic or temporary manual mode.

Depending on the system mode, the main screen displays various information regarding the system, amongst which:

Status	Description
 nn	Room humidity value
 nn	External temperature value (external probe enabled)
	Production of Domestic Hot Water in progress
	Request for room central heating or cooling in progress
	Dehumidify and cool room in progress
	Dehumidify room in progress
	Comfort Temperature operation
	Economy Temperature operation

	Operation in manual mode
	External probe enabled
	Anomaly present

4. ZONE SETTING.

The lower part of the display shows the parameter that can be changed (it varies according to the appliance configuration), it is possible to change the value by turning the main switch and pressing it to confirm the parameter change.

The values that can be found according to the configuration, are:


- Set room: defines the room zone temperature.
- Set flow: defines the system's flow temperature to the zone.
- Flow offset: changes the operation curve of the external probe.



5. SUMMER MODE FUNCTIONS.

With the Remote zone panel in Summer mode () , only the production of DHW is enabled.

The DHW temperature cannot be set on the panel. This value must be set directly on the appliance.

6. WINTER MODE FUNCTIONS.

With the Remote zone panel in Winter mode () , the production of DHW and room central heating are enabled. Two main functioning modes can be selected for room central heating: automatic or temporary manual.

- **Automatic** (): the room temperature is regulated on two levels Comfort (sun) and Economy (moon) during the day via a program set by the user.
- **Temporary manual** (): the room temperature is modified momentarily with respect to automatic functioning until the successive passage between Comfort and Economy mode of the automatic program set.







Status	Description
	Stand-by
	Summer
	Summer with Cooling
	Winter

Fig. 5



6.1 Automatic functioning.

The Remote zone panel allows automatic functioning, in which a program manages the room temperature during the hours of the day.

The desired room temperature can be adjusted onto two independent levels: Comfort () and Economy () in the Zone Set Point menu, whose distribution throughout the day or the week is managed by hourly programming. Press the button until the icon switches-on on the display. The Remote zone panel is factory set with a standard program shown below. If this should not satisfy requirements, it is possible to modify it as described in the chapter relative to programming.


The system is designed to function on Comfort and Economy temperature levels depending on the hour program set. Therefore also during operation on Economy level, if the room temperature measured is below that set, the appliance may function.

6.2 Temporary manual functioning ().

If the room temperature is changed in automatic operation ( - ) , Temporary manual operation is activated. In this mode, the room temperature will be regulated to the value set until the next switch-on or switch-off phase of the automatic program set.

The forced automatic function can be interrupted by simply changing the operation mode.


7. SUMMER MODE WITH COOLING FUNCTIONS

With the Remote zone panel in Summer mode with Cooling () , the production of DHW, room central cooling and room dehumidifier are enabled. Two main functioning modes can be selected: automatic or temporary manual. These operating modes are similar to those found in the WINTER mode.

The room dehumidification function is activated automatically according to the humidity setpoint set on the Panel (see Zone Setpoint Menu) and the relevant room humidity value measured by the device.

The room dehumidification function is a manual function, i.e. it does not depend on the set time program.

8. OPERATION WITH EXTERNAL PROBE.

When the external probe is enabled in the appliance, the symbol is shown on the Panel display (). From this moment, the system's flow temperature for room central heating is calculated depending on the external temperature measured. It is possible to change the operation curve by using the main switch and changing the external probe offset (*Ref. 1 Fig. 4*).

9. CLOCK AND PROGRAMS MENU.

• Time slots.

The remote panel allows you to set 4 calendars with up to 4 slots. During the set time slots, the system will be in Comfort mode.

After setting these 4 calendars it is possible to associate them to the various days of the week.

Press the “Menu” button. Select by pressing the main selector (*Ref. 1 Fig. 4*) the item “Clock and Programs”, then “Time slots”.

Once you have accessed the menu, adjust the various items highlighted by turning the main switch. Set the value and save it by pressing the main switch. Each time it is saved, it moves to the next item.

After programming, press “Conferma” (Confirm).

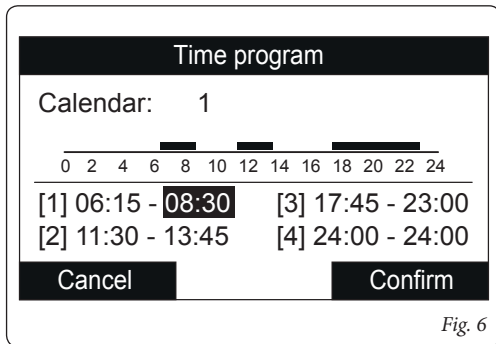


Fig. 6

• Time programme.

Time slots are assigned to Zones in these menus (Calendars from 1 to 4) to the associated Zone. You can assign the calendar to a single day or to a group of days.(single day, Monday - Friday, Saturday - Sunday, Monday - Saturday, Monday - Sunday).

Therefore each day may be personalised with 4 different operating programs.

For convenient selection, the bottom part displays the graphics of the relevant calendar being selected (*Fig. 7*).

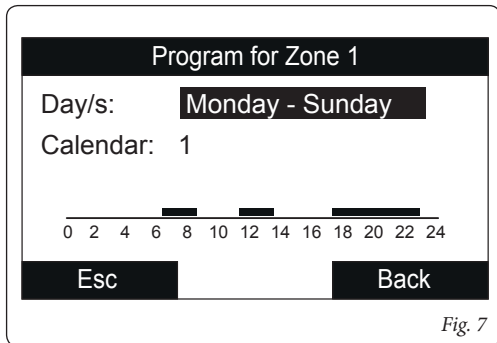


Fig. 7

• **Settings menu.**

By pressing the “Menu” button you can access a list of menu items to customize the Zone Remote panel.

To browse the menus, which can be accessed by pressing the relative “RH” or “LH” context buttons, scroll through the sub-menus displayed by turning the main switch.

Press the said selector to select the one highlighted.

By pressing repeatedly, you can scroll down the menu levels and go back to a previous level by pressing the “Indietro” (Back) context button. To exit the menu completely, press

the “Esci” (Exit) button, which will take you back to the initial page of normal operation.

To confirm the parameter change, press the main switch.

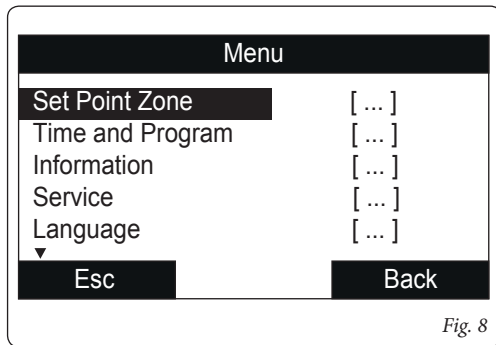


Fig. 8

Hereunder is a list of available menus.

MAIN MENU	
Menu item	Description
Zone Set Point	Defines the operating parameters to manage the zone
Clock and Programs	Defines the date/time and time operating slots
Information	Display system operating data
Support	Password protected menu dedicated to a qualified technician
Language	Defines the remote panel operation language

Zone Set Point Menu				
Menu item	Description	Range	Default	Customised value
Heating Comfort Set	Room temperature heating zone in Comfort mode	15 ÷ 35 °C	20	
Heating Economy Set	Room temperature heating zone in Economy mode	5 ÷ 25 °C	16	
Cooling Comfort Set	Room temperature cooling zone in Comfort mode	15 ÷ 35 °C	25	
Cooling Economy Set	Room temperature cooling zone in Economy mode	15 ÷ 35 °C	28	
Cooling Humidity Set	Humidity value set for zone in cooling mode	30 ÷ 70 %	50	

Clock and programs menu				
Menu item	Description	Range	Default	Customised value
Time slots	Defines the time range for operation in Comfort and Economy mode			
Zone Program	Time zone scheduling		Mon - Sun Cal 1	

Information Menu	
Menu item	Description
Outside temperature	External temper. detected by the external probe (optional)
Calculated set system temperature	Flow temperature requested by the generators
Board software version	System software revision
Display software version	Remote panel software revision

Service Menu				
Menu item	Description	Range	Default	Customised value
Password protected menu dedicated to a qualified technician				

Language Menu

Menu item	Description	Range	Default	Customised value
Language	Defines the remote panel operation language	ITA - ENG	ITA	

The panel is set up for possible programming of several operation parameters. By modifying these parameters as described below, the system can be adapted according to specific needs.

Access the “Assistenza” (Service) menu by pressing the right “Menu” button and turning the main switch until selecting the desired menu. Press the main switch to confirm the selection. Insert the relative access code and customise the parameters according to your requirements.

Service Menu

Menu item	Description	Range
Zone Definition	Zone system sub-menu settings	-
System Definition	Sub-menu to define the devices connected to the system	-
Device Configuration	Sub-menu to set the device's configuration	-
Restore default settings	Default settings restore sub-menu	-

Service Menu -> Zone Definition				
Menu item	Description	Range	Default	Customised value
Room thermostat enabling	Displays the enabling of the room thermostat control	Yes / No	-	

Service Menu -> System definition				
Menu item	Description	Range	Default	Customised value
External probe	Enables operation with the external probe.	Yes / No	-	

Service Menu -> Device configuration				
Menu item	Description	Range	Default	Customised value
Slave address	Address to configure according to the zone where the device is installed (e.g.: zone 1 = 41, zone 2 = 42, zone 3 = 43).	1 ÷ 247	41	
Baud Rate	Communication speed	9600/19200	9600	

Assistance Menu -> Device configuration				
Parity bit	Parity bit	None / Even / Uneven	Even	
Stop Bits	Stop bits	0 / 1 / 2	1	
Heat pump control	Yes = Remote zone panel; No = Audax Control Panel	Yes / No	No	

The device must be configured in accordance with the indications in the installation part of the technical documentation of the devices to which a remote Panel can be connected. Following the Factory reset, the device is automatically set as Audax Control Panel.

It is required to change the behaviour of the device by setting “Heat pump control = NO”.

10. TECHNICAL CHARACTERISTICS

- Dimensions (LxHxD):..... 128 x 98 x 36 (mm)
- Power Supply:..... 24V nominal (12V..24V)
- Maximum input:.....max 10 mA (max 250 mW)
- Functioning room temperature: 0 - +50°C
- Warehouse temperature: -10 - +60°C
- Protection rating according to EN 60730:..... II
- Protection rating according to EN 60529:..... IP 20
- Power supply electrical features:..... polarised bipolar cable
- Communication electrical features: polarised bipolar cable
- Connection cable max. length:50 m (with cable 2x0.75mm²) (0.5 ÷mm² min - 1.5 mm² max)
- Precision indication room temp.: +/- 0.5°C at 25°C*
- Humidity probe accuracy: +/- 10%*
- Clock indication diversion +/- 15 minutes/year

* = the indications of the room temperature and humidity can be affected by the point of installation of the Remote zone panel (e.g. hot wall, cold wall, height from the ground, etc.)

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Immergas Italia



immergas.com

Immergas S.p.A.
42041 Brescello (RE) - Italy
Tel. 0522.689011
Fax 0522.680617

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