CAR V2
Wireless
Modulating remote control

Instructions and warning book
Dear Client,

Our compliments 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 supply you with some important indications, the respect of which will confirm your satisfaction with the Immergas product:

- Read the following pages carefully: you will obtain useful suggestions regarding the correct use of the appliance.
- For any interventions or routine maintenance contact "Immergas Authorised Centres": they have original spare parts and specific preparation.
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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 “CAR v2 Wireless” (Comando Amico Remoto) modulating remote control has been designed to guarantee ideal temperature conditions at any time of the day and night for each day of the week. Only a few minutes are required for installation: the radio frequency controlled Base is powered by the boiler and is connected to the appliance with 2 cables, through which, it receives and sends the adjustment and control commands and receives the power supply. Whereas thechrono-thermostat, with separate battery power supply, must only be wall mounted and does not require any electrical connection if not radio frequency acknowledgement with its own Base. On completion of installation it is ready to function thanks to the internal pre-set program. The customer can modify the basic program according to requirements. Programming the “CAR v2” is extremely easy and a wide display allows constant control of all values set.

GENERAL RECOMMENDATIONS

This manual has been drawn-up for: the Installer and the User.

- Carefully read the warnings contained in this document as they are required to indicate the use of the CAR v2 envisioned by the design hypothesis, the technical features, the installation, assembly, programming, adjustment and use instructions.
- The system must be in compliance with the IEC Standards in force.
- The instruction manual must be considered part of the CAR v2 and must be “kept for future reference”.
- After having removed the packaging, check the integrity of the CAR v2. If in doubt, do not use it and contact the Dealer or Manufacturer.
- The CAR v2 is intended only for the use for which it has been expressly designed. Any other use must be considered improper and therefore dangerous.
- Our products are produced in compliance with the Safety
Standards in force, it is therefore recommended to use all devices or attentions in a way that injury/damage is not caused to persons or objects.

- Do not remove parts of the CAR V2 when it is running.
- Do not use the CAR V2 exposed to heat sources or under the scorching sun.
- Periodically check the battery charge.
- The manufacturer is relieved from any liability in the following cases:
  a) Incorrect installation.
  b) Operating defects of the boiler to which the Remote Control is applied.
  c) Unauthorised modifications or interventions.
  d) Total or partial failure to comply with instructions.
  e) Exceptional events etc.

**CASE CLEANING**

To clean the case of the CAR V2 use damp cloths. Never use abrasive or powder detergents.

**WARNING**

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

1.1 Installation recommendations.
The CARV², including the relative cables and connections to the boiler, must be installed by specialised staff. On the free initial check of the boiler, when the CARV² is inserted into the system, the Immergas authorised after-sales centre checks the connection to the generator terminal board and adjusts functioning. The free check just of the CARV² is not envisioned by the Immergas authorised after-sales centre is requested successively to the start phase of the boiler warranty.

**Important:** installation of the CARV² base wires are not included in the free checks of the boiler and is to be carried out by the installer company.

N.B.: follow the installation sequence by first installing the Base and then the CARV².

1.2 Installation operations.
1) Separate the fixing bottom from the lid of the CARV² Base using a screwdriver as a lever in the relative recess (Fig. 1-1). Pull the lid manually outwards to separate it from the bottom.

2) Install the CARV² Base bottom using the openings on its rear part onto the wall or onto a recess box using the relative supplied screws (Fig. 1-2).
N.B.: it is recommended to use in non-critical electromagnetic places and in structures consisting of material that is not mainly metal or shielding. During installation, pay attention as indicated in Fig. 1-3.
3) To make the electrical connections (Fig. 1-4) **do not operate when the boiler is live.** The connection must be made to the relative clamps and the jumper on clamps 40 and 41 of the boiler P.C.B. (if present) must be eliminated.

Then connect the base to the boiler clamps envisioned during communication with the CAR\textsuperscript{V2} or, if not present, to the clamps envisioned for the CRD indicated as 40 and 41 or 41 and 44.

**Note:** refer to the electrical connections stated in the boiler instruction book.

**Important:** do not connect to clamps 42 and 43.

The connection to the boiler is made using two wires (Fig. 1-5) with a minimum section of 0.50 mm\textsuperscript{2} and maximum 1.5 mm\textsuperscript{2} and with a maximum length of 50 metres.
**N.B.** for correct installation prepare a dedicated line for the connection of the Base according to the Standards in force regarding electrical systems. If this is not possible, interference due to other electric cables could cause the Base to malfunction.

4) Fasten the lid of the CAR\textsuperscript{v2} Base to the support bottom, engaging it using pressure (Fig. 1-5).

N.B.: when closing the lid, make sure it is aligned correctly with the bottom.

6) Separate the fixing template from the body of the CAR\textsuperscript{v2} using a screwdriver as a lever in the relative recess (Fig. 1-8). Install the CAR\textsuperscript{v2} away from heat sources and in a suitable position to detect the room temperature correctly (Fig. 1-6 and 1-7).

7) Install the CAR\textsuperscript{v2} using the openings on its rear part directly onto the wall or on a recess box using the relative supplied screws.

8) Fasten the body of the CAR\textsuperscript{v2} to the support template, engaging it with pressure and using the two screws supplied (Fig. 1-8).

9) Insert 2 1.5 V AA batteries (not supplied) into the pre-set housing (Fig. 1-8) and close the battery compartment.

10) The Base and the CAR\textsuperscript{v2} are associated to each other during the testing phase in the factory. Therefore, an additional radio frequency association procedure is not necessary.
Important: the fixing screws (action n° 3) on first installation are not present on the CAR\textsuperscript{V2}, but are supplied in a bag present in the packaging box. Once the template is fixed to the wall, fix the body of the CAR\textsuperscript{V2} using the 2 screws.
2. DESCRIPTION OF CONTROLS

2.1 Description of reception Base in radio frequency.
The radio frequency reception Base is a device, which allows heating unit to be controlled by means of programs, settings and modes determined by the associated CAR$^v2$.

2.2 Base Signals.
The two LEDs on the Base (1 and 3 Fig. 2-1) indicate the operating status of the Base according to the table below.

<table>
<thead>
<tr>
<th>State</th>
<th>Left LED (1)</th>
<th>Right LED (3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No synchronisation</td>
<td>3 flash every 2 s</td>
<td>off</td>
</tr>
<tr>
<td>Synchronisation activated (normal operation)</td>
<td>1 flash every 2 s</td>
<td>1 flash every 60 s</td>
</tr>
<tr>
<td>Association phase</td>
<td>0.5 s On, 0.5 s Off for 10 s</td>
<td>off</td>
</tr>
<tr>
<td>No communication between the Base and CAR$^v2$</td>
<td>3 flashes every 2 s</td>
<td>off</td>
</tr>
<tr>
<td>No communication between the Base and the boiler</td>
<td>2 flashes every 2 s</td>
<td>1 flashes every 60 s</td>
</tr>
<tr>
<td>Test</td>
<td>flashes synchronised with right LED (5/s)</td>
<td>flashes synchronised with left LED (5/s)</td>
</tr>
<tr>
<td>Forcing manually</td>
<td>3 flashes every 2 s</td>
<td>3 flashes every 2 s</td>
</tr>
<tr>
<td>Info search from CAR$^v2$</td>
<td>off</td>
<td>1 flash every 2 s</td>
</tr>
</tbody>
</table>

Key:
1 - Left LED
2 - TEST mode key
3 - Right LED

Fig. 2-1
2.3 No communication between the Base and CAR\textsuperscript{V2}.

If there is no communication between the CAR\textsuperscript{V2} (flat batteries), the boiler will be set to summer mode with the DHW set to 50°C after approx. 4-5 minutes. If necessary, boiler operation can be forced in heating mode via the Base. Proceed as follows in the event of no communication:

- press the button to access the test operation (Para. 13);
- keep the button pressed for 5 s within 30 s.

Both LEDs flash and the boiler works in heating mode with a flow temperature in heating mode fixed at 50 °C until communication between the CAR\textsuperscript{V2} and the Base is restored. Press the button once again to interrupt heating (2 Fig. 2-1).
2.4 **CAR\textsuperscript{v2} description.**

![Diagram of CAR\textsuperscript{v2} interface]

<table>
<thead>
<tr>
<th>Ref.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Main selector: Off, Stand-by/anti-freeze, Summer, Winter, Cooling</td>
</tr>
<tr>
<td>2</td>
<td>“Reset” boiler anomalies/“Esc” button to exit parameter or return to previous menu (programming mode)</td>
</tr>
<tr>
<td>3</td>
<td>Comfort and economy room temperature setting button</td>
</tr>
<tr>
<td>4</td>
<td>Reset button to restart the CAR\textsuperscript{v2} in the event of an anomaly</td>
</tr>
<tr>
<td>5</td>
<td>Access button to adjust time, day and timer</td>
</tr>
<tr>
<td>6</td>
<td>Access button to the programming/parameter confirmation menu</td>
</tr>
<tr>
<td>7</td>
<td>Domestic hot water temperature selector</td>
</tr>
<tr>
<td>8</td>
<td>Heating temperature selector</td>
</tr>
<tr>
<td>9</td>
<td>Information buttons</td>
</tr>
<tr>
<td>10</td>
<td>Manual and automatic mode button</td>
</tr>
<tr>
<td>11</td>
<td>Temperature decrease button</td>
</tr>
<tr>
<td>12</td>
<td>Temperature increase button</td>
</tr>
</tbody>
</table>

*Fig. 2-2*
### 3. DESCRIPTION OF DISPLAY

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Winter symbol" /></td>
<td>winter - DHW heating and room central heating buttons are enabled</td>
</tr>
<tr>
<td><img src="image" alt="Summer symbol" /></td>
<td>summer - only the DHW central heating function is enabled</td>
</tr>
<tr>
<td><img src="image" alt="Cooling symbol" /></td>
<td>Cooling - the cooling and DHW central heating function is enabled</td>
</tr>
<tr>
<td><img src="image" alt="Request button" /></td>
<td>request for room central heating or cooling by CARV²</td>
</tr>
<tr>
<td><img src="image" alt="Comfort symbol" /></td>
<td>aqua celeris active/DHW comfort in progress</td>
</tr>
<tr>
<td><img src="image" alt="Battery symbol" /></td>
<td>request for DHW in progress</td>
</tr>
<tr>
<td><img src="image" alt="Reset button" /></td>
<td>room central heating in progress</td>
</tr>
<tr>
<td><img src="image" alt="Reset ESC button" /></td>
<td>description of functioning of the button (2 Fig. 2-2) - Reset, or esc</td>
</tr>
<tr>
<td><img src="image" alt="Display symbol" /></td>
<td>displays room temperature and numerical data</td>
</tr>
<tr>
<td><img src="image" alt="External temperature display" /></td>
<td>external temperature display</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Internal temperature display" /></td>
<td>internal temperature display</td>
</tr>
<tr>
<td><img src="image" alt="Remote function activation" /></td>
<td>function activation from remote</td>
</tr>
<tr>
<td><img src="image" alt="Holiday timer program" /></td>
<td>functioning with holiday timer program</td>
</tr>
<tr>
<td><img src="image" alt="Batteries flat" /></td>
<td>batteries flat</td>
</tr>
<tr>
<td><img src="image" alt="Functioning state in use" /></td>
<td>description of functioning state in use</td>
</tr>
<tr>
<td><img src="image" alt="Anomaly symbol" /></td>
<td>anomaly in boiler presence symbol</td>
</tr>
<tr>
<td><img src="image" alt="Parameter modification" /></td>
<td>indicates that it is possible to modify a parameter via the two buttons (11 and 12 Fig. 2-2)</td>
</tr>
<tr>
<td><img src="image" alt="Solar system active" /></td>
<td>functioning with solar system active</td>
</tr>
<tr>
<td>Symbol</td>
<td>Description</td>
</tr>
<tr>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td><img src="image" alt="temperature Probe" /></td>
<td>functioning with external temperature probe active</td>
</tr>
<tr>
<td><img src="image" alt="association" /></td>
<td>Indicates the association between the Base and CAR\textsuperscript{V2}. FLASHING: association in progress. FIXED: association completed successfully. If the signal is lost, the symbol flashes simultaneously with the fault signal (e.g. CAR\textsuperscript{V2} out of operating range of the base).</td>
</tr>
<tr>
<td><img src="image" alt="Menu" /> <img src="image" alt="Ok" /></td>
<td>description of functioning of the button (6 Fig. 2-2) - Menu or Ok</td>
</tr>
<tr>
<td><img src="image" alt="flame Presence" /></td>
<td>flame presence symbol (only appears with the connection to some boiler models)</td>
</tr>
<tr>
<td><img src="image" alt="symbols" /></td>
<td>symbols that identify the functioning mode in the hourly programming</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="time bar" /></td>
<td>time bar that identifies the functioning period at “comfort” and “economy” temperature on the basis of the type of programming (cooling, central heating, DHW)</td>
</tr>
<tr>
<td><img src="image" alt="Auto" /></td>
<td>functioning with automatic program.</td>
</tr>
<tr>
<td><img src="image" alt="Manual" /></td>
<td>functioning with manual program</td>
</tr>
<tr>
<td><img src="image" alt="Days" /></td>
<td>display of days of the week</td>
</tr>
</tbody>
</table>

**N.B.:** Some icons can assume different meanings according to the context, see the successive paragraphs to identify the functions activated by the presence of several icons at the same time.

### 3.1 Back-lighting.
By pressing any button the display lightens for a set time.

**N.B.:** CAR\textsuperscript{V2}, standard model equipped with boiler does not have backlit function.
4. START-UP

4.1 Programming current day and time.
Switch the remote control on by turning the main selector onto one of the functions available.
Press the button PROGO to enter time and current time mode and press the OK button to modify the settings.
On entering the programming mode, the time starts to flash.
Modify the hour and minutes by pressing the + / - buttons and the OK button to confirm. Select the day of the week and confirm using the OK button.
Once regulation has been completed, press the ESC button to escape the regulation mode.

4.2 Selection of functioning mode
According to the functioning mode selected, the CARV2 performs the requests of the user, displaying the results on the display.
By turning the main selector (ref. 1 Fig. 2-2) the following functions can be selected: Stand-by/Anti-freeze, Summer, Winter, Cooling.

Note: the room anti-freeze function is active in the following modes: antifreeze, summer, winter.

- Off mode. The room anti-freeze function is not guaranteed in this mode (the boiler anti-freeze function remains active). The CARV2 is off but remains powered and therefore the times and programs remain memorised.
- **Stand-by/anti-freeze mode (스탠바이 호위 모드)**. In this mode, the boiler can only function in the event of anti-freeze request. In this status the day, current time, any operating anomalies and the room temperature are displayed anyway (Fig. 4-2).

- **Summer mode (가을 모드)**. In this mode the boiler is enabled for producing domestic hot water excluding heating the environment. The display shows the day and the current time, the room temperature and hour bar with the daily programming of the DHW timer together with the relative symbols (Fig. 4-3).

- **Winter mode (겨울 모드)**. In winter mode the boiler is enabled for producing domestic hot water and for central heating the environment. In winter, the CAR\(^2\) can work in automatic or manual mode. For the description of operation see chapter 6. The display shows the day and current time, the room temperature and the hour bar with the daily programming of the heating timer together with the relative symbols (Fig. 4-4).
• **Cooling mode**: In cooling mode the boiler is enabled for the production of DHW and to control a chiller (only for models set-up) for cooling rooms. In “cooling” mode, the CAR\(^{V2}\) can work in automatic or manual mode. For the description of operation see chapter 7. The display shows the day and current time, the room temperature and the hour bar with the daily programming of the cooling timer together with the relative symbols (Fig. 4-5).
5. SUMMER MODE FUNCTIONS

With the CAR\textsuperscript{v2} in summer mode (.fix), only the production of DHW is enabled.
The boiler produces hot water according to the DHW temperature set on the CAR\textsuperscript{v2}.

5.1 DHW temperature setting.
Turn the selector (\textsuperscript{1}) to set the DHW temperature (see Fig. 5-1).
By turning in a clockwise direction the temperature increases and in an anti-clockwise direction it decreases.
The temperature is memorised after the selector remains still for a few seconds.

5.2 DHW timer (for storage tank unit).
If the temperature of the DHW contained in the DHW storage tank on two distinct levels (comfort and minimum) is to be regulated, this is possible using the “PR SAN” function. Regarding this, see the activation mode in the chapter relative to programming.

The “comfort” temperature corresponds to the value regulated on the DHW selector. The “minimum” temperature corresponds to the minimum DHW value envisioned for the boiler to which the CAR\textsuperscript{v2} is coupled.

\textbf{N.B.:} if the CAR\textsuperscript{v2} is functioning at minimum temperature level it is possible to force the DHW temperature by acting on the DHW selector.

The CAR\textsuperscript{v2} is factory set with the DHW always activated on “comfort” temperature (ON1 00.00 OFF1 24.00).

\textbf{N.B.:} the sanitary timer can also be used to set the time bands of the device “Aqua celeris” and “recirculation tank” if provided in in the boiler and depending on the communication protocol used.
6. WINTER MODE FUNCTIONS

With the CAR\textsuperscript{v2} 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 manual. Plus a forced automatic timed program.

- Manual ( ): the room temperature is kept constant at the value set by the user every time, according to requirements.

- Automatic (AUTO): the room temperature is regulated on two levels (comfort and economy) during the day via a program set by the user.

- Forced automatic ( flashing): the room temperature is modified momentarily with respect to automatic functioning until the successive passage between comfort and energy mode of the automatic program set.

6.1 Manual functioning.

By pressing the AUTO button, pass alternately from automatic to manual functioning.

Once manual mode is set, the icon lights up on the display (Fig. 6-1).

Set the desired room temperature by simply pressing the + / - buttons and the room temperature setting will appear on the display (Fig. 6-2). Just wait a few seconds to confirm the new value.

In manual mode any room temperature from +10°C to +35°C can be selected, which will be kept constant until new adjustments are made or a different mode is selected.
6.2 Automatic functioning.
The CAR\textsuperscript{V2} 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 (\textcircled{☼}) and economy (\textcircled{☽}) via the \textcircled{☼} button, whose distribution throughout the day or the week is managed by hourly programming.

Press the button \textit{AUTO ⚜} until the icon switches-on on the display AUTO.

The \textsuperscript{V2} is factory-set with a standard program stated in the table that follows. If this should not satisfy requirements, it is possible to modify it as described in the chapter relative to programming.

<table>
<thead>
<tr>
<th>Days</th>
<th>16°C</th>
<th>20°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mon - Fri</td>
<td>from 23 to 6</td>
<td>from 6 to 8</td>
</tr>
<tr>
<td>(Day 1 - 5)</td>
<td>from 8 to 11</td>
<td>from 11 to 13</td>
</tr>
<tr>
<td></td>
<td>from 13 to 17</td>
<td>from 17 to 23</td>
</tr>
<tr>
<td>Sat - Sun</td>
<td>from 23 to 7</td>
<td>from 7 to 23</td>
</tr>
<tr>
<td>(Day 6 - 7)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\textbf{Note}: the system is designed to function on comfort and economy temperature levels depending on the hour program set. Therefore also during functioning on economy level, if the room temperature measured is below that set, the boiler can ignite.

6.3 Forced automatic functioning.
If in automatic functioning mode (\textit{AUTO}) the room temperature is modified by pressing the + / - buttons, the forced automatic functioning mode is activated (displayed by the switch-on of the flashing ⚜ symbol). 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 pressing the \textit{AUTO ⚜} button.
6.4 **Boiler flow temperature.**
From the winter function mode it is possible to regulate the boiler flow temperature. Regulate by rotating the selector. Clockwise increases the flow temperature, anti-clockwise decreases it.

**N.B.**: an excessively low boiler flow temperature adjustment (below 60°C for traditional systems) may not allow to reach the desired room temperature.

The boiler flow temperature during normal functioning is however managed automatically of the CAR\textsuperscript{v2} on the basis of the room temperature set. Therefore, it is not certain that the boiler works at the temperature set but functions at a lower flow temperature, but correct to obtain the desired room temperature.

If the external temperature probe is present, the flow temperature will be set according to that described in the “Special functions” chapter.

6.5 **Room anti-freeze function.**
The anti-freeze function has maximum priority with respect to other settings. When the room temperature drops below 5°C (adjustable, see special functions chapter) a central heating request is made at minimum of the power programmed. This situation remains active until there is a variation in room temperature of 0.6°C equal to 5.6°C measured in the room where the CAR\textsuperscript{v2} is positioned.

6.6 **Functioning in winter mode with external temperature probe.**
If an external temperature probe is present, it is possible to set a flow temperature correction curve depending on the external temperature. Turn the selector to regulate the curve from 0 to 9 according to the graphics Fig. 11-1. See the activation mode in the chapter relative to the special functions.
7. COOLING MODE FUNCTIONS

With the CAR\textsuperscript{V2} in cooling mode ((depicted), the DHW heating and room cooling functions are enabled.

**Important:** this function can only be used with boilers that can be coupled with a chiller.

Two main functioning modes can be selected: automatic or manual. Plus a forced automatic timed program.
- **Manual**: the room temperature is kept constant at the value set by the user every time, according to requirements.
- **Automatic (AUTO)**: the room temperature is regulated on two levels (comfort and economy) during the day via a program set by the user.
- **Forced automatic**: the room temperature is modified momentarily with respect to automatic functioning until the successive passage between comfort and energy mode of the automatic program set.

7.1 Manual functioning.

By pressing the AUTO button, pass alternately from automatic to manual functioning. Once manual mode is set, the icon lights up on the display (Fig. 7-1).

Set the desired room temperature by simply pressing the + / - buttons and the room temperature setting will appear on the display (Fig. 7-2). Just wait a few seconds to confirm the new value.

In manual mode any room temperature from +15\(^\circ\text{C}\) to +40\(^\circ\text{C}\) can be selected, which will be kept constant until new adjustments are made or a different mode is selected.
7.2 Automatic functioning.
The CAR\textsuperscript{V2} 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 (\textsuperscript{\textcircled{\textbullet}}) and economy (\textsuperscript{\textcircled{\textbullet}}) via the \textsuperscript{\textbullet} button, whose distribution throughout the day or the week is managed by hourly programming.

Press the button \textbf{AUTO} \textsuperscript{\textbullet} until the icon switches-on on the display AUTO.

The CAR\textsuperscript{V2} is factory-set with a standard program stated in the table that follows. If this should not satisfy requirements, it is possible to modify it as described in the chapter relative to programming.

\begin{table}[h]
\centering
\begin{tabular}{|c|c|c|}
\hline
\textbf{Days} & \textbf{\textsuperscript{\textcircled{\textbullet}} 40\textdegree C} & \textbf{\textsuperscript{\textcircled{\textbullet} 25\textdegree C}} \\
\hline
Mon - Fri (Day 1 - 5) & from 23 to 11 from 13 to 17 & from 11 to 13 from 17 to 23 \\
\hline
Sat - Sun (Day 6 -7) & from 23 to 13 & from 13 to 23 \\
\hline
\end{tabular}
\caption{Fig. 7-4}
\end{table}

Note: the system is designed to function on comfort and economy temperature levels depending on the hour program set. Therefore also during functioning in economy temperature conditions, if the room temperature measured is above that set, the chiller can switch-on.

7.3 Forced automatic functioning.
If in automatic functioning mode (\textbf{AUTO}) the room temperature is modified by pressing the + / - buttons, the forced automatic functioning mode is activated (displayed by the switch-on of the flashing \textsuperscript{\textbullet} symbol). 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 pressing the \textbf{AUTO} \textsuperscript{\textbullet} button.
8. INFORMATION

By pressing the INFO button, access a menu that allows to verify the functioning state of the CAR\textsuperscript{V2} remote control. If a determined value is not present “--” will be displayed. The display of the “info” is subject to the boiler model and the method of connection of the CAR\textsuperscript{V2} remote control. Press the button repeatedly to scroll the list INFO. To go back to normal functioning mode, press the ESC button or wait 60 seconds.

The parameters that can be displayed are listed below:
- T EST: external temperature (the optional external temperature probe if present).
- T MAND: central heating circuit flow temperature.
- RITORN: central heating circuit return temperature.
- TI SAN: DHW input temperature.
- TO SAN: DHW output temperature.
- TC SOL: solar collector temperature.
- PRESSI: system pressure, central heating circuit.
- MANUTZ: days remaining before periodic maintenance.
- VER P “x”: “x” identifies the type of communication protocol with the boiler in use:
  - VER PC = CAR-Bus; VER PI = IMG-Bus.
  - ZONE: not used on this model.

N.B.: the sizes displayed depend on the type of boiler to which the CAR\textsuperscript{V2} is connected.
9. PROGRAMMING THE CAR$^{v2}$

Programming of the CAR$^{v2}$ allows to set/modify the following parameters:
- comfort and economy temperature levels (different for the “central heating” and “cooling” modes);
- daily/weekly functioning time program (different for the “central heating” and “cooling” and “DHW” modes).

9.1 Setting comfort and economy room temperature.

The two temperatures are different depending whether they are in “winter” or “cooling” mode.
Press the button for the “comfort” (Fig. 9-1) and “economy” (Fig. 9-2) temperatures to be displayed alternately.
To regulate both parameters, just press the + / - buttons to regulate the temperature according to requirements.
To confirm the new temperature, press the button, to exit without saving the modifications, press the button.
9.2 Programming functioning time.
By pressing the **PROG** button, it is possible to enter the time periods programming window for programming the room temperatures and DHW timer (as well as setting the current time and day).

By pressing the + / - buttons, the items that can be set in the menu are displayed alternately.

There are, in fact, three types of program:
- **PR RIS**: room central heating program
- **PR SAN**: DHW heating program
  The period in which the DHW temperature is in comfort will be distinguished by the switch-on of the 🛁 icon.
  **N.B.**: the function must only be activated in the presence of a cylinder. The DHW is always active as per standard
- **PR RAF**: room cooling program

By following the points described below, it is possible to create or modify the time program selected.

1) Press the **PROG** button, select the program to modify by pressing the + / - buttons, after which confirm by pressing the OK button.

2) Select the day of group of days by pressing the + / - buttons and confirm the selection by pressing the OK button:
   - Monday, Tuesday, Wednesday... Sunday (individual day)
   - Mon - Fri (from Monday to Friday)
   - Sat - Sun (from Saturday to Sunday)
   - Mon - Sat (from Monday to Saturday)
   - Mon - Sun (from Monday to Sunday)

3) Set the functioning times with comfort and economy temperature. Within the 24 hours it is possible to define a maximum of 4 time periods with Comfort temperature, each of which is characterised by a switch-on time and a switch-off time.

   The minimum variation of the switch-on and switch-off time is 30 minutes.

Set the first functioning period with comfort temperature (ON 1) indicated at the top and the switch-on time at the bottom. Press the + / - buttons to modify the switch-on time and press the OK button to memorise. At this point, pass the the next functioning period with comfort temperature (OFF) indicated at the top and the switch-off time at the bottom. Press the + / - buttons to modify the switch-off...
time and press the OK button to memorise. When the first phase has been designed, pass automatically to the next functioning phases at comfort and economy temperature in order to program. This means repeating the points described previously up to phase 4.

The sequences of the On and Off states must always be sequential. For example, it is not possible to set “OFF 2” at 13.30 and “ON 3” at 11.00.

Once the day or group of days have been programmed, proceed in the same way for the remaining days and the remaining programs.

**N.B.:** if only 3 switch-on times are used, set the fourth with switch-on/off time at 24.

**N.B.:** in automatic functioning conditions (AUTO) the display will show the 24 hour bar indicating the different time phases with Comfort or Economy temperature. The presence of the hyphen on the time bar corresponds to functioning in Comfort mode.
10. DIAGNOSTICS AND ERRORS

10.1 Diagnostics.
The CAR\textsuperscript{V2} continually controls the functioning status of the boiler and signals any anomalies, stating the corresponding error code on the display. The error codes have meaning depending on the boiler to which the CAR\textsuperscript{V2} is connected. Therefore, refer to the boiler instruction book for a complete list of error codes and their relative meaning.

In the case of a fault that cannot be reset, contact a qualified technician (e.g. the Immergas After-Sales Technical Assistance Service).

“ERR>XX” appears on the display in the event of an error, where XX stands for the number that identifies the error code as well as the flashing code.

As well as the error codes referring to the functioning state of the boiler, the CAR\textsuperscript{V2} also checks its own functioning state, indicating any malfunctions.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ERR&gt;CM</td>
<td>Communication error between the Base and the boiler</td>
</tr>
<tr>
<td>ERR&gt;TP</td>
<td>Error in reading the room temperature or value measured off scale (below 0°C or over 50°C)</td>
</tr>
</tbody>
</table>

10.2 Reset errors.
In the event of resettable boiler block, the flashing icon appears on the display. In this case, by acting on the relevant button and holding it down for 5 seconds, it is possible to send a release signal to the boiler that allows to reset correct boiler functioning within a few seconds. If normal functioning conditions are set, it goes back to functioning as previously set.

It is possible to operate up to a maximum of 5 consecutive reset attempts, after which an hour must pass before another 5 attempts are available.

10.3 Reset CAR\textsuperscript{V2} remote control.
Acting on the hole for general rest (ref. 4 Fig. 2-2) the CAR\textsuperscript{V2} hardware can be reset without losing the configurations set by the user, such as the time, date and scheduled times.

If the CAR\textsuperscript{V2} original factory set conditions are to be restored, act as follows.

Press and release the button in the “reset” hole (ref. 4 Fig. 2-2) holding the button down (ref. 2 Fig. 2-2).

At this point, CAR\textsuperscript{V2} will be restored with all factory settings, keeping the current time and day but losing the association with the Base, which must be restored (par. 12.6).
11. SPECIAL FUNCTIONS

By pressing the **MENU** button, a list of options is accessed that allows to customise functioning of the CAR\(^{v2}\) remote control, according to the specific necessities. To scroll the list, press the + / - buttons and press the **OK** button to select the desired function.

11.1 LANGUAGE (language selection).

Allows to set the functioning language of the CAR\(^{v2}\) remote control. It is possible to select from Italian (ITA as per standard) and English (ENG).

11.2 REGOLAZ (Management of regulation parameter).

Allows to customise the functioning parameters of the CAR\(^{v2}\) remote control.

- **MINRIS** (central heating flow minimum temperature), allows to regulate the central heating flow minimum temperature value. Moreover, this value is used to calculate the curves used for the external probe. Values that are too high can cause flow temperatures that are too high on average for room central heating.

- **OFFSET** (regulation constant), constant that can be regulated from -15°C to +15°C and in the presence of the external probe (optional), modifies the set flow temperature (see Fig. 11-1) set to 0°C as per standard.

**N.B.**: if the self-learning function is enabled, the Offset value could be modified automatically.

- **DIMENS** (dimension and building inertia), adjustable from 1 to 20, as per standard set on 10. It establishes the reaction speed of the system depending on the type of system present. For example:

<table>
<thead>
<tr>
<th>Value</th>
<th>System type</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>system with little heat inertia</td>
</tr>
<tr>
<td>10</td>
<td>system with normal dimensions with radiators</td>
</tr>
</tbody>
</table>
- AUTO A (self-learning), defines the activation of self-learning, as per standard set at OFF. This function allows the CAR\textsuperscript{V2} to vary the offset, adapting it to the room in which it is installed.

11.3 VACANZ (holiday program).
From winter functioning mode it is possible to define a number of days (from 1 to 99) during which the system deactivates both the hot water heating function and the room central heating function. The value is decreased every midnight in the day change. At the end of the days set (the meter reaches 0) the previously active functions are restored. The activation of the holiday function is indicated by the flashing of the \textbullet\textcircled{Q} icon and the count of the days remaining. The holiday function can be deactivated by pressing the AUTO \textbullet\textcircled{Q} button. In the event of remote activation from telephone control, the boiler is activated with the settings of the telephone control, omitting the Holiday program.

N.B.: the room anti-freeze function is however guaranteed also in holiday mode.

11.4 LEGION (anti-legionella function).
Allows to activate the Anti-legionella function that takes the temperature of the cylinder to maximum allowed for 20 minutes. It is possible to select between the once a day at 2 in the night (ON 24H), every 7 days on Monday at 2 in the night (ON 7 DAYS) or deactivate it (OFF standard function).

N.B.: the function must only be activated in presence of boiler and eventually a thermostatic valve must be installed at the DHW output to prevent burns.

11.5 REMOTO (telephone control).
Allows the user to set the CAR\textsuperscript{V2} operation in a way that, in the event of remote activation, it works with the automatic time program if set to AUTO. Vice versa, it works at a continuous comfort temperature (without time program) if set to ON. The main selector (fig 2.2) must be set to STAND-BY / ANTI-FREEZE or SUMMER. In the event of activation, it displays the flashing (\textbullet\textcircled{Q}) icon.

\textbf{Warning}: it is possible to switch on the remote CAR\textsuperscript{V2} only if it is set in one of the functioning modalities but Off and cooling mode.

11.6 CODE.
To use this function, see the “Functions protected by code” chapter.
12. FUNCTIONS PROTECTED BY CODE (CODE)

They are advanced character settings (reserved for an enabled technician), a four character code must be entered in order to access them (code: 1122). Press the **MENU** button and scroll the options present until “CODE” appears, press the **OK** button and insert the code by selecting the characters using the + / - buttons and confirming them by pressing the **OK** button. After which it is possible to display and modify the following functions.

12.1 AMB (room probe - On / Off or Modulating functioning mode).

Allows to activate or deactivate the room probe present in the CAR\(^{v2}\) remote control. On the basis of the parameter setting, it will be possible to regulate the following options:

- AMB: ON (standard value); it is possible to select a correction factor of the room probe reading and change the modulating function.
- AMB CR: room probe reading correction, the room probe range reading can be corrected within a range of + 3.0 - 3.0°C.

- MODUL (On / Off or Modulating functioning): allows the user to set the CAR\(^{v2}\) operation to On/Off or Modulating. Set at ON, the flow temperature will be varied depending on the room temperature set. Set at OFF, the flow temperature will be kept constant until the desired room temperature is reached. (Setting to be made on systems with zones control unit).

**N.B.:** if an external temperature probe is present, the flow temperature will be set depending on the relative functioning curve.

- AMB: OFF, the system will not function, regulating the room temperature but only depending on the time program set. In this case the room anti-freeze function is not assured.

12.2 RIDOTT (functioning in reduced mode).

If activated with AMB parameter at “OFF”, it defines how the flow temperature must be in Economy period.

- RIDOTT OFF: in functioning periods in Economy mode, the boiler is switched-off.
- RIDOTT ON: in functioning periods in Economy mode, it reduces the flow temperature by an amount equal to that set (adjustable from \(-1{\degree}C\) to \(-40{\degree}C\)).
12.3 **ANTIGL (anti-freeze level).**
 Allows to set the room temperature for activation of the anti-freeze function. Can be regulated from 0°C to 10°C and is set at 5°C as standard.

12.4 **ZONA (function not present on this model).**

12.5 **MANUTZ (programmed maintenance).**
 Sets the period for periodic maintenance (can be set from 6 to 24 months or “Off”). When the period has been set, the telephone number that the user must contact to perform periodic maintenance is set.

12.6 **Association procedure in RF.**
 To carry out an association in radio frequency between the CAR\textsuperscript{V2} and the relative Base, follow that reported below:

1) Access the protected menu of the CAR\textsuperscript{V2} for RF management (radio frequency): CODE via code “9977”;

2) The Test-RF menu will appear (RF>CHK);

3) By pressing the OK button, the RF>INS association/installation menu will appear (if they are not already associated, otherwise the RF>REM disassociation menu will appear);

4) Within 30 seconds, activate the association stand-by function on the Base by pressing the “test” button for at least 4 seconds until the left LED on the base flashes;

5) Press the OK button on the CAR\textsuperscript{V2} to launch the association request;

6) If the procedure should fail, RF>INS will appear on the CAR\textsuperscript{V2} once again, otherwise, if the procedure is successful, RF>REM will appear and one or more signals will appear on the Base every 2 s;

7) At the end of the association procedure, wait at least 1 minute before regulating for communication between the Base of the CAR\textsuperscript{V2} and the boiler to be established.

12.7 **RF disassociation procedure.**
 To carry out a disassociation in radio frequency between the CAR\textsuperscript{V2} and the relative Base, follow that reported below:

1) Access the protected menu of the CAR\textsuperscript{V2} for RF management (radio frequency): CODE via code “9977”;

2) The Test-RF menu will appear (RF>CHK);

3) By pressing the OK button, the RF>REM disassociation/removal menu will appear (if they are associated, otherwise the RF>INS association menu will appear);
4) Press the **OK** button on the CAR\textsuperscript{V2};

5) **RF>INS** will appear to indicate disassociation/removal has taken place.

12.8 **Check the RF signal.**  
The RF signal level can vary from 0 (none) to 4 (excellent). Proceed as follows to verify the signal level:

1) Access the protected menu of the CAR\textsuperscript{V2} for RF management (radio frequency): **CODE** via code “9977”;

2) The **Test-RF** menu will appear (**RF>CHK**) indicating the signal level.

13. **CAR\textsuperscript{V2} BASE TEST PROCEDURE**  
The heating request can be forced directly from the CAR\textsuperscript{V2} Base. To do so, press the button (ref. 2 Fig. 2-1) for 2 seconds. The request at the appliance has duration of 30 seconds, after which the Base will go back to normal functioning status.
14. **DISABLING THE CHRONO-THERMOSTAT**

If CAR\(^v2\) must be used as a boiler control only (simple remote control function), proceed as follows:
- deactivate the room probe (para. 12.1);
- exclude the 4 time periods of the “PR RIS” in the “Mon - Sun” group of days, setting the On and Off of all 4 time periods (on1, off1, on2, off2, on3, off3, on4, off4) to 24.00;
- press the AUTO button to set the automatic mode.

**N.B.**: for the boiler to work in heating mode, the room thermostat contacts (40-41) on the boiler board must be closed.

15. **REPLACE THE BATTERIES**

When \(\text{\small{\text{\(\leq\)}}}\) appears fixed together with “LOWBAT” on the display of the CAR\(^v2\), the CAR\(^v2\) batteries must be replaced. Proceed as follow to make this replacement:
- Open the door (ref. 1 Fig.1-8), remove the battery compartment lid (ref. 2 Fig.1-8) and replace the batteries (ref. 5 Fig. 1-8).
16. TECHNICAL CHARACTERISTICS

16.1 Base CAR v2.
- Dimensions (LxHxD): .................................................................................................................. 105 x 82 x 26 (mm)
- Base Power Supply: .................................................................................................................. 18 V nominal via twin-wire communication BUS
- RF communication: .......... backbone 868.4 MHz, GFSK modulation, cover 30-100 m (depending on the environment)
- Power and duty cycle: ................................................. Power Tx < 10 dBm, duty cycle < 0.1% in one hour (in normal functioning mode)
- Functioning room temperature: .................................................................................................. 0 - +50°C (recommended < 40°C)
- Connection technique: .............................................................................................................. 2 non-polarised wires
- Connection cable max. length: .......................................................... 50 m (with cable of 2x0.75mm²) (0.5 ÷ mm² min - 1.5 mm² max)

16.2 CAR v2.
- Dimensions (LxHxD): .................................................................................................................. 142 x 103 x 31 (mm)
- CAR v2 power supply: .............................................................................................................. 2 x 1.5 V, AA batteries
- Duration of the batteries: ........................................................................................................... 1 year (with normal use)
- IMG_BUS protocol maximum input: .......................................................................................... 23 mA - 250 mW.
- Functioning room temperature: .................................................................................................. 0 - +40°C
- Warehouse temperature: ........................................................................................................... -10 - +50°C
- Protection rating according to EN 60730: .................................................................................... II
- Protection rating according to EN 60529: ..................................................................................... IP 20
- Connection technique: .............................................................................................................. 2 polarised wires
- Precision indication room temp.: ................................................................................................... +/- 0.5°C a 25°C*
- NTC room temp. sensor: ............................................................................................................ 50 k at 25°C
- Clock indication diversion .......................................................................................................... +/- 15 minutes/year

* = the indication of the room temperature can be affected by the point of installation of the CAR v2 (e.g. hot wall, cold wall, height from the ground, etc.)
### 16.3 Product specifications.
In accordance with Regulation 811/2013 the temperature control device class is:

<table>
<thead>
<tr>
<th>Class</th>
<th>Contribution to the environmental heating seasonal energy efficiency</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>V</td>
<td>+3%</td>
<td>Wireless Modulating Remote Control</td>
</tr>
<tr>
<td>VI</td>
<td>+4%</td>
<td>Wireless Modulating Remote Control coupled to outer sensor</td>
</tr>
</tbody>
</table>
17. FACTORY SETTING

- Functioning state: Off
- Functioning program: Manual
- Central heating Comfort temperature: 20.0°C
- Central heating Economy temperature: 16.0°C
- Cooling Comfort temperature: 25.0°C
- Cooling Economy temperature: 40.0°C
- Room temperature in manual: 20.0°C
- Anti-freeze: 5.0°C
- Holiday Program: VACANZ = OFF
- Offset: OFFSET = 0°C
- Building inertia dimension: DIMENS = 10
- Self-learning: AUTO A = OFF
- Room Probe: AMB = ON
- Reading Correction: AMB CR = 0.0°C
- Reduction: RIDOTT = OFF
- Modulation: MODUL = ON
- Telephone control: REMOTE = ON
- Antilegionella: LEGION = OFF
- Language: LANGUAGE = ITA (Italian)
Immergas S.p.A.
42041 Brescello (RE) - Italy
Tel. 0522.689011
Fax 0522.680617

Certified company ISO 9001