USER'S MANUAL

IMMERGAS

Instructions and warnings **IE**

COD. 3.028444

MULTI-ZONE KIT

GENERAL WARNINGS.

All Immergas products are protected with suitable transport packaging.
The material must be stored in a dry place protected from the weather.
This instruction manual provides technical information for installing the Immergas kit. As for the other issues related to kit installation (e.g. safety at the workplace, environmental protection, accident prevention), it is necessary to comply with the provisions specified in the regulations in force and with the principles of good practice.
Improper installation or assembly of the Immergas appliance and/or components, accessories, kits and devices can cause unexpected problems for people, animals and objects. Read the instructions provided with the product carefully to ensure proper installation.
Installation and maintenance must be performed in compliance with the regulations in force, according to the manufacturer's instructions and by professionally qualified staff, meaning staff with specific technical skills in the plant sector, as envisioned by the law.

DESCRIPTION OF THE DEVICE.

The Multi-zone kit is a board that can control mixed zone central heating systems (direct zones + mixed zones).

Each board can control:
- 4 direct zones, individually controlled by a dedicated CAR^{V2} (the board can handle up to 4 remote controls);
- 1 direct zone and 1 mixed zone, individually controlled by a dedicated CAR^{V2};

Through serial communication with the boiler P.C.B. and with the individual remote controls, greater comfort can be achieved.

It is possible to use room thermostats to control the zones after the first, while, regardless of the configuration, it is always necessary to use at least one MASTER CAR^{V2}, connected to the multizone interface in the OT-S1 position, for the system operation / functioning.

The CAR^{V2} connected to the OT-S1 can control the zone 1 room request, the boiler DHW (Domestic hot water) set and the operating status (e.g. Summer-Winter) of both the boiler and the zones managed by the multizone board. If 2 multizone boards are used, the DHW (Domestic hot water) set and the boiler operating status is controlled by the CAR^{V2} connected to the multizone board connected to the boiler.

On system configured with mixed zone 1, it is possible to replace the room request of CAR^{V2}, connected to OT-S1, with room thermostat, connected to OT-S4. In these conditions the CAR^{V2} on OT-S1 must have its room adjustment excluded while the zone 1 room request is automatically recognised by the closing of TA OT-S4 contact.

On system configured with direct zones, the zone 1 room control is always related to the sole request from CAR^{V2} connected to OT-S1.

The board supports up to 4 dedicated remote controls, so it is possible to carry out Class VIII temperature control, adding + 5% to the system's energy efficiency.

For zones after zone 1, the board automatically recognises zones controlled from remote controls or room thermostats and manages the request according to the area that requires heat. The connection via bus to the boiler ensures set-point control, as the multi-zone board regulates the flow temperature directly according to the active requests.

It is possible to extend the number of controlled zones using two multi-zone boards.

ATTENTION.
the kit works exclusively with IMG-BUS communication protocol.

For a complete list of matching products, please see the commercial documentation and the Immergas website at the following address: www.immergas.com

TECHNICAL DATA.

Description	Unit of measurement	Value
Power supply	Vac	230 + 10 % / -15 %
Operating temperature	°C	-10 / + 60
Mains fuse (8)	A	3.15 F
Relay output	Vac / A	230 / 0.5 Max
Dimensions (L x H x D)	mm	110 x 175 x 50
Electrical system degree of protection	-	IP20
Minimum cable cross-section	mm^2	0.5

PRODUCT SHEET.

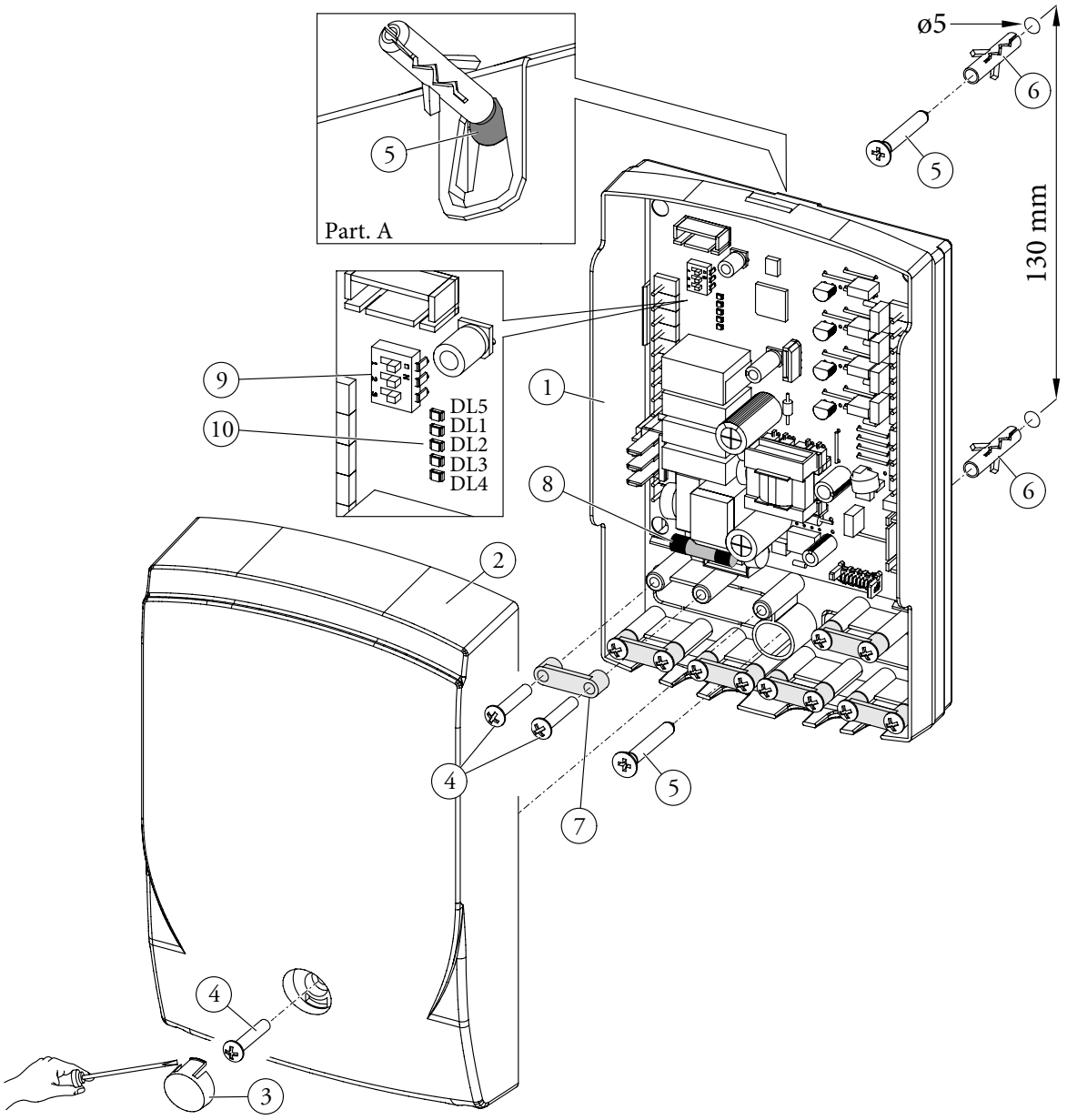
In compliance with Regulation 811/2013, the class of the temperature control device is:

Class	Contribution to room central heating seasonal energy efficiency	Description
VIII	+5%	Multi-zone kit combined with 3 remote modulating controls

CONTROL UNIT FIXING.

- Make 2 holes Ø 5 at a distance of 130 mm on the vertical axis, insert the plugs (6) into the holes and fasten the upper support screw (5).
- Separate the cover (2) from the base (1) by removing the plug (3) using a screwdriver and undo the screw (4).
- Hang the base of the kit (1) to the upper screw (5) (see detail A), then attach the base to the wall with the lower fixing screw (5).
- The kit is equipped with 6 cable ties (7) secured with two screws (4), use them to secure the cables as required according to the connections.

Kit composition		
Ref.	Description	Quantity
1 - 3	Multi-zone control unit	1
4	Screw	13
5	Screws for plug AF 3.9 x 25	2
6	Plug 5 x 25	2
7	Cable tie	6
8	Mains fuse 3.15 AF	1



1

ELECTRICAL CONNECTION.

The kit has an IP20 protection rating; electrical safety of the appliance is achieved only when it is properly connected to an efficient earthing system, as specified by current safety standards.

Attention: the manufacturer declines any responsibility for damage or physical injury caused by failure to connect the kit to an efficient earth system or failure to comply with IEC reference standards.

Important: it is mandatory to prepare two electrical connection lines in order to separate the electrical power supply from all other low-voltage connections, according to the standards in force regarding electrical systems.

Caution: the electrical connection between the devices must be made using cables with a minimum section of 0.50 mm^2 and with a maximum section of 2.5 mm^2; the length of these connections must not exceed 15 metres.

Perform the electrical connection as required and as shown in the following wiring diagrams (Par. "Wiring diagrams").

SYSTEM USE.

- **DHW temperature setting.** The domestic hot water temperature is controlled by the "master" CAR^{V2}, i.e. the one connected to the OT-S1 channel of the kit connected to the boiler. The settings made on the remaining remote controls for domestic hot water are ignored.
- **Flow temperature setting.** The flow temperature intended for the room central heating / C.H. zone can be adjusted on each CAR^{V2} as required. Or in the case of a system controlled from room thermostats, the flow temperature is set on the relative parameters (Par. "Programming the P.C.B.").

The system takes into consideration the highest temperature in order to meet all the active requests.

The system operating status is indicated by LEDs *(Ref. 10 Fig. 1)* according to the relative tables *(Fig. 2)*.

FAULT AND ANOMALY SIGNALS.

The P.C.B. reports a fault by activating the LEDs on the board and by sending a code shown on the CAR^{V2} display, according to the table below and the table in the boiler instruction booklet. Depending on the settings of the relevant parameters, it is possible to decide on which CAR^{V2} the fault is displayed (Par. "Programming the P.C.B.").

2

System with direct zones

LED	Off	On	Slow Flashing
DL5 (Green)	No communication with boiler	Communication with boiler in progress	Boiler in domestic hot water operating mode
DL1 (Red)	No CAR^{V2} communication in OT-S1	CAR^{V2} present on zone 1	Zone 1 active request
DL2 (Red)	Operation with TA2	CAR^{V2} present on zone 2	Zone 2 active request
DL3 (Red)	Operation with TA3	CAR^{V2} present on zone 3	Zone 3 active request
DL4 (Red)	Operation with TA4	CAR^{V2} present on zone 4	Zone 4 active request

System 1 direct zone and 1 mixed zone.

LED	Off	On	Slow Flashing	Fast Flashing
DL5 (Green)	No communication with boiler	Communication with boiler in progress	DHW request in progress	/
DL1 (Red)	No CAR^{V2} communication in OT-S1	CAR^{V2} present in OT-S1	Zone 1 active request	Open safety thermostat
DL2 (Red)	Operation with Room Thermostat	CAR^{V2} present in OT-S2	Zone 2 active request	/
DL3 (Red)	Mixing valve stopped	Mixing valve opening	/	Mixed zone probe fault (simultaneous flashing)
DL4 (Red)	Mixing valve stopped	Mixing valve closing	/	

Note: the DL1 LED must always be on. Lacking communication to CAR^{V2}, the entire board cannot work.

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Anomalies

Error Code	Anomaly signalled	Cause	Boiler status / Solution
36	**IMG Bus communication loss**	Communication between the components is interrupted due to a fault on the boiler, multi-zone kit or IMG Bus.	Disconnect and reconnect the power to the boiler. If the Remote Control is still not detected on re-starting, the boiler will switch to local operating mode, i.e. using the controls on the control panel. In this case, the boiler will not meet the heating requests (1)
68	**Communication failure between remote control and multi-zone kit**	Due to a fault, communication between CAR^{V2} and multi-zone kit is interrupted.	Check the connection between the devices. In this case, the boiler will meet the heating requests according to the settings of the "Emergency Function" parameters (1)
46	**System protection thermostat fault**	The board detects an anomaly on the thermostat system protection (optional).	The requests of the mixed zone are not met (1)
55	**Mixed zone probe anomaly**	The board detects a fault on the mixed zone probe (optional).	The requests of the mixed zone are not met (1)
(1) If the block or anomaly persists, contact an authorised company (e.g. Immergas Technical After-Sales Service)			

PROGRAMMING THE P.C.B.
All functions can only be set from the remote "master" command, i.e. connected to the OT-S1 channel of the board.

To access these functions, the 4-digit code must be entered (code: 9988).

It is recommended to set the parameters after making the appropriate settings on the multizone board switch and all the electrical connections, waiting for the system data to be available to all boards and CAR^{V2} present; for example, wait for the display of the outside temperature value before setting the "K" value.

Press the MENU button and scroll the options present until "CODE" appears, press the OK button and enter the code by selecting the digits using the + / - buttons and confirming them by pressing the OK button.
After which it is possible to display and modify the following functions.

Parameter Number		Description of the Parameter	Values Field	Default	Customised value
TSP001	Zone 1 emergency function Irrelevant selection (**)	With the function active, in the event that communication between the multi-zone kit and CAR^{V2} fails, a room heating request is activated in the zone in question. This request is met at a fixed and preset temperature, it is possible to set the temperature through TSP009, TSP010, TSP011, TSP012. The function is disabled as soon as communication with CAR^{V2} is restored.	0÷1 *	0	
TSP002	Zone 2 emergency function		0÷1 *	0	
TSP003	Zone 3 emergency function		0÷1 *	0	
TSP004	Zone 4 emergency function		0÷1 *	0	
TSP005	Fault display on zone 1 remote control	By enabling this parameter, it is possible to display the system faults on the CAR^{V2}.	0÷1 *	1	
TSP006	Fault display on zone 2 remote control		0÷1 *	0	
TSP007	Fault display on zone 3 remote control		0÷1 *	0	
TSP008	Fault display on zone 4 remote control		0÷1 *	0	
TSP009	Zone 1 emergency set-point Irrelevant selection (**)	System with 4 direct zones: it defines the flow temperature for the "emergency" function on the 4 available zones. System with 1 direct zone and 1 mixed zone: TSP009 and TSP010 define the flow temperature for the "emergency" function on the 2 available zones; parameter TSP011 defines the boiler temperature increase to satisfy the mixed zone and parameter TSP012 defines the maximum temperature on the mixed zone when managed by CAR^{V2}.	20÷90°C	60°C	
TSP010	Zone 2 emergency set-point		20÷90°C	60°C	
TSP011	Zone 3 emergency set-point / mixing valve IN-OUT ΔT		20÷90°C / 5÷30°C	60°C / 10°C	
TSP012	Zone 4 emergency set-point / mixing valve max out		20÷90°C / 20÷70°C	60°C / 50°C	
TSP013	Zone 1 post-circulation timer	At the end of each room heating request, post-circulation is performed on the same zone with set duration.	0÷240 min.	1min .	
TSP014	Zone 2 post-circulation timer		0÷240 min .	1min .	
TSP015	Zone 3 post-circulation timer		0÷240 min .	1min .	
TSP016	Zone 4 post-circulation timer		0÷240 min .	1min .	
TSP017	Zone 2 room thermostat set-point	If zones 2, 3 and 4 are controlled by room thermostats, it is possible to define the system flow temperature on the respective parameters. System with 1 direct zone and 1 mixed zone: TSP019 defines the flow temperature of mixed zone 1 when the request is made by TA connected to OT-S4. Note: the values set on TSP017, 018, 019 are the maximum temperature limits available for each zone when the external probe / external sensor is present.	20÷90°C	60°C	
TSP018	Zone 3 room thermostat set-point		20÷90°C	60°C	
TSP019	Zone 4 room thermostat set-point / mixed zone 1 flow SET when managed by TA ON-OFF ON OT-S4 (max limit if external probe / external sensor present with TA4)		20÷90°C / 20÷70°C	60°C / 50°C	
TSP020	Adjustment K with zone 2 room thermostat	If zones 2, 3 and 4 are controlled by room thermostats, it is possible to define the "K" correction for the flow temperature associated with the external probe (optional). If the mixed zone is controlled by TA4, the mixer set will in any case be limited by TSP019.	0÷90	60	
TSP021	Adjustment K with zone 3 room thermostat		0÷90	60	
TSP022	Adjustment K with zone 4 room thermostat (also for mixed zone 1 controlled by TA4)		0÷90	60	

(*) = 0:disabled, 1:enabled
(**) = the recovery function cannot be activated for the CAR^{V2} connected to OT-S1. Please note that this connection to CAR^{V2} is essential for the correct operation / functioning of the multizone board.
NOTE: on homogeneous zone system, it is possible to unify the temperatures for all the zones controlled by TA with what is set on CAR^{V2} connected to OT-S1 zone by moving SW1 to OFF; in these conditions the TSP017, 018, 019 are irrelevant.

Parameter Number		Description of the Parameter	Values Field	Default	Customised value
TSP023	Zone 1 heat request delay	With thermal system controlled by thermostatic valves, it defines the valve activation time.	0÷255 sec.	0	
TSP024	Zone 2 heat request delay		0÷255 sec.	0	
TSP025	Zone 3 heat request delay		0÷255 sec.	0	
TSP026	Zone 4 heat request delay		0÷255 sec.	0	
TSP027	Mixing valve closing time	It defines the closing time for the mixing valve.	0÷255 sec.	180	

(*) = 0:disabled, 1:enabled
(**) = the recovery function cannot be activated for the CAR[V2] connected to OT-S1. Please note that this connection to CAR[V2] is essential for the correct operation / functioning of the multizone board.
NOTE: on homogeneous zone system, it is possible to unify the temperatures for all the zones controlled by TA with what is set on CAR[V2] connected to OT-S1 zone by moving SW1 to OFF; in these conditions the TSP017, 018, 019 are irrelevant.

DIP SWITCH CONFIGURATION.
The P.C.B. has a dip switch for its adjustment *(Ref. 9 Fig. 1)*, configure as indicated in the table *(Fig. 4)*.

Maximum central heating / C.H. set-point required from boiler with mixed zone 1.

- On systems with mixed zone 1 and only one CAR[V2] connected to OT-S1, it is possible to limit the boiler flow temperature in case of requests from the multizone board. This limit will also be activated with requests from unmixed zones.

It is possible to set the maximum limit of the central heating / C.H. set-point that the boiler accepts.

Procedure:
- Set SW3 to "OFF";
- turn the CAR[V2] heating set-point knob to the desired value;
- Wait for about 30 seconds;
- Set SW3 to "ON";

Attention: when SW3 is set to OFF, the board does not accept heating requests (be careful to reset SW3 to "ON" at the end of the operation).

The procedure can be repeated to set a different value.

- On systems with mixed zone 1 with more than 1 CAR[V2], the maximum central heating / C.H. set-point required from the boiler is determined by the greater set-point set on the two CAR[V2].

Note: on systems with homogeneous or direct zones, the limitation on the maximum central heating set-point through the procedure on sw3 is not used by the system.

PUMP ANTI-BLOCK FUNCTION.
The board has a function that starts the pump at least once every 24 hours for the duration of 10 seconds in order to reduce the risk of the pump becoming blocked due to prolonged inactivity.

MIXING VALVE ANTI-BLOCK FUNCTION.
In order to prevent the mixing valve from blocking, the board has a function that, after 24 hours from the last operation of the system in heating mode, opens and fully closes the valve.

MIXED ZONE ANTIFREEZE FUNCTION.
The board is equipped with an antifreeze function that activates a heating request when the temperature read by the probe on the mixed zone is below 5 °C.
The boiler is switched on at a flow temperature of 40 °C.
The heating request is interrupted when the temperature read by the probe exceeds 8 °C for at least 15 minutes.

AUTOMATIC VENT FUNCTION.
The function is activated simultaneously when the function is activated on the boiler.
- Heating circuit vent valve: the board activates the zone circulator pumps and opens the mixing valve.
- Domestic hot water circuit vent valve: the circulator pumps are switched off and the mixing valve is kept open.

At the end of the function, the mixing valve is closed.

"CHIMNEY SWEEP" FUNCTION.
The function is activated simultaneously when the function is activated on the boiler.
- Chimney sweep in heating mode: the zone circulator pumps are activated, the mixed zone mixing valve is adjusted according to the temperature set from the remote control.
- Chimney sweep in domestic hot water mode: the zone circulator pumps are switched off and the mixing valve is closed.

Dip Switch	OFF	ON
SW1	With SW2 = off the flow set-point for the zones is only set on the CAR[V2] central heating / C.H. knob / selector, univocally for all requesting zones.	With any SW2 selection, the flow set-points for the zones can be set on CAR[V2] and/or on the configuration TSP.
SW2	4 direct zones	1 mixed zone + 1 direct zone
SW3	Maximum central heating / C.H. set-point during operation / functioning with mixed zone. Note: temporary condition, to be used only for parameter setting.	Normal system operation / functioning.

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EXTERNAL TEMPERATURE PROBE (OPTIONAL).

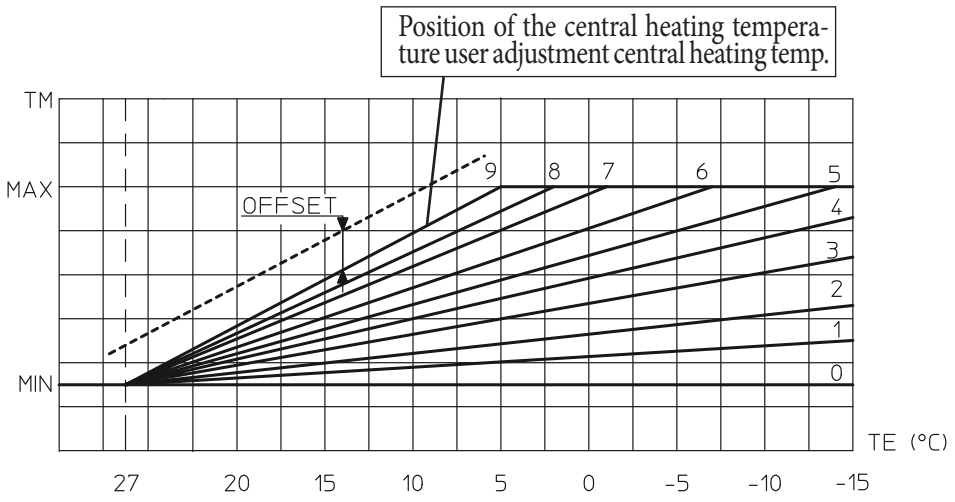
The multi-zone kit is designed to control the external probe, which is available as an optional kit. The probe can be connected directly to the boiler P.C.B. and allows the max. system flow temperature to be automatically decreased when the external temperature increases, in order to adjust the heat supplied to the system according to the change in external temperature. The external probe always operates when connected, regardless of the presence or type of room chrono-thermostat used, and can work in combination with Immergas timer thermostats. The external probe must be connected electrically as indicated in the boiler instructions.

The correction curve *(Fig. 5)* can be modified from any CAR^{V2} or if the zone in question is controlled by a room thermostat, the curve can be changed from the main CAR^{V2} using the relative parameters (Par. "Programming the P.C.B.").

For the zones managed through CAR^{V2}, refer to the following graph (Fig. 5).

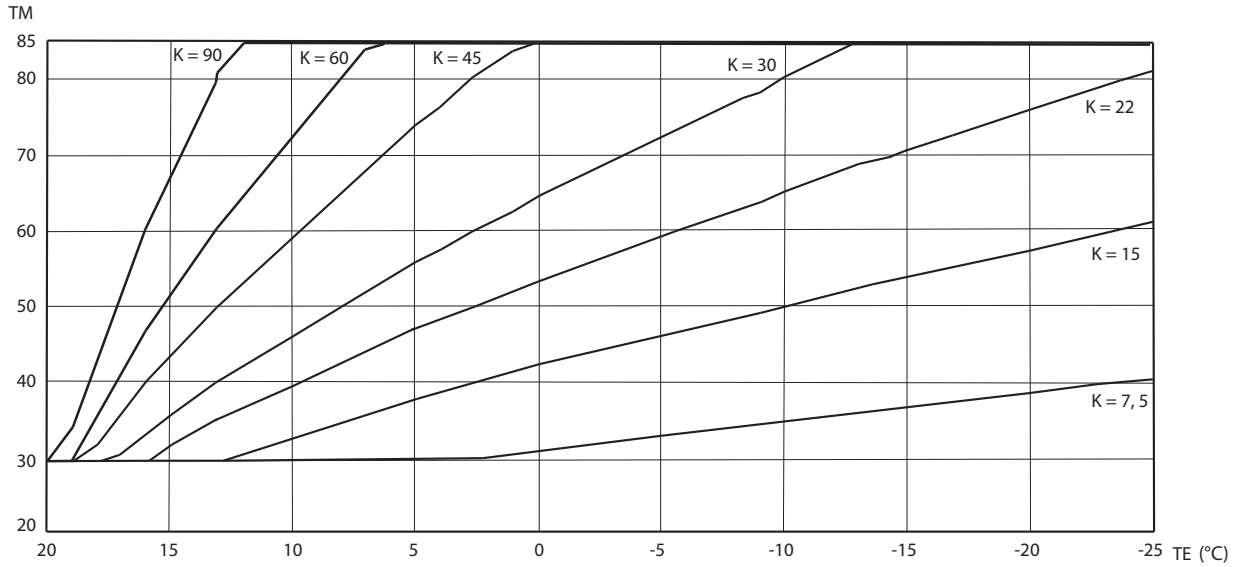
For the zones not managed through CAR^{V2}, the next graph is applied (Fig. 6).

Correction law of the flow temperature depending on the external temperature and user adjustment of the central heating temperature.



TM - MAX/MIN = Selected flow temperature range.
TE = External temperature.

5



TM - MAX/MIN = Selected flow temperature range.
TE = External temperature.

6

SUMMARY OF CONTROLS AND SETTINGS ON THE SYSTEM WITH MIXED ZONE.

Switch selection:
- SW1: irrelevant for mixed zones;
- SW2: ON (mixed zone 1);
- SW3: ON.

Dip Switch	OFF	ON
SW1		
SW2		
SW3		

Flow Set-point for Mixed Zone 1.
When requesting heat for zone 1, the mixer working temperature can be set on:

Without external probe connection	With external probe present
• Central heating / C.H. set-point knob / selector CAR^{V2} -1 connected to OT-S1 or	• Central heating / C.H. set-point knob / selector CAR^{V2} -1 connected to OT-S1 (see graph Fig. 5), or
• On TSP019 when TA present on OT-S4 and mixed zones	• On TSP022 when TA present on OT-S4 and mixed zones (see graph Fig. 6)

NOTE: on TSP012 it is possible a maximum mixer work limit which cannot be exceeded by the temperature set on knob / selector CAR^{V2}
(both with and without external probe); this limitation is not extended to the boiler flow request.
The value on TSP019 sets the maximum mixer work limit active with request from TA4 with external probe present.

Flow Set-point for Zone 2.
When requesting heat for zone 2, the flow temperature foreseen for zone 2 can be set on:

Without external probe connection	With external probe present
• CAR^{V2} -2 Central heating / C.H. set-point knob / selector, or	• CAR^{V2} -2 Central heating / C.H. set-point knob / selector (see graph Fig. 5), or
• On TSP017 when TA present on OT-S2	• On TSP020 when TA present on OT-S2 (see graph Fig. 6)

NOTE: the value on TSP017 sets the maximum limit active for zone 2 flow temperature when the external probe is present.

Boiler Flow temperature.
The flow temperature at which the boiler will operate will be automatically calculated by the multizone board according to the requests from the zones and the foreseen degree of mixing and performed on zone 1. It is possible to set a limit to the temperature required from the boiler by operating on the CAR^{V2} central heating / C.H. set-point knob / Selector with SW3 = OFF (switch temporary position); see Paragraph "Maximum central heating / C.H. set-point required from boiler".

SUMMARY OF CONTROLS AND SETTINGS ON THE SYSTEM WITH DIRECT ZONES.

Switch selection:
- SW1: its position determines the use of a single flow set-point (as set on CAR^{V2} -1) or differentiated for each zone (to be set on TSP);
- SW2: OFF (all direct zones);
- SW3: ON.

Flow Set-point for Zone 1.
When requesting heat for zone 1, the flow temperature foreseen for zone 1 can be set on:

- CAR^{V2} -1 Central heating / C.H. set-point knob / selector. The presence or absence of the external probe determines the possibility of setting the correlation line on the CAR^{V2} central heating / C.H. set-point knob / selector (see graph Fig. 5) or the temperature directly.

Flow set-point extension for zone 1 to all other direct zones.
Through the SW1 position, it is possible to assign a unified set-point to all direct zones with the regulation from the CAR^{V2} connected to OT-S1. To obtain this condition, set SW1 to OFF.

Direct zones with UNIFIED flow set-point for all zones		
Dip Switch	**OFF**	**ON**
SW1		
SW2		
SW3		

With SW1 at ON, the different settings are activated for each zone as described below.

Direct zones with DIVERSIFIED flow set-point for each zone		
Dip Switch	**OFF**	**ON**
SW1		
SW2		
SW3		

Flow Set-point for Zone 2.
When requesting heat for zone 2, the flow temperature foreseen for zone 2 can be set on:

Without external probe connection	With external probe present
• CAR^{V2} -2 Central heating / C.H. set-point knob / selector, or • On TSP017 when TA present on OT-S2	• CAR^{V2} -2 Central heating / C.H. set-point knob / selector (see graph Fig. 5), or • On TSP020 when TA present on OT-S2 (see graph Fig. 6)

NOTE: the value on TSP017 sets the maximum limit active for zone 2 flow temperature when the external probe is present.

Flow Set-point for Zone 3.
When requesting heat for zone 3, the flow temperature foreseen for zone 3 can be set on:

Without external probe connection	With external probe present
• CAR^{V2} -3 Central heating / C.H. set-point knob / selector, or • On TSP018 when TA present on OT-S3	• CAR^{V2} -3 Central heating / C.H. set-point knob / selector (see graph Fig. 5), or • On TSP021 when TA present on OT-S3 (see graph Fig. 6)

NOTE: the value on TSP018 sets the maximum limit active for zone 3 flow temperature when the external probe is present.

Flow Set-point for Zone 4.
When requesting heat for zone 4, the flow temperature foreseen for zone 4 can be set on:

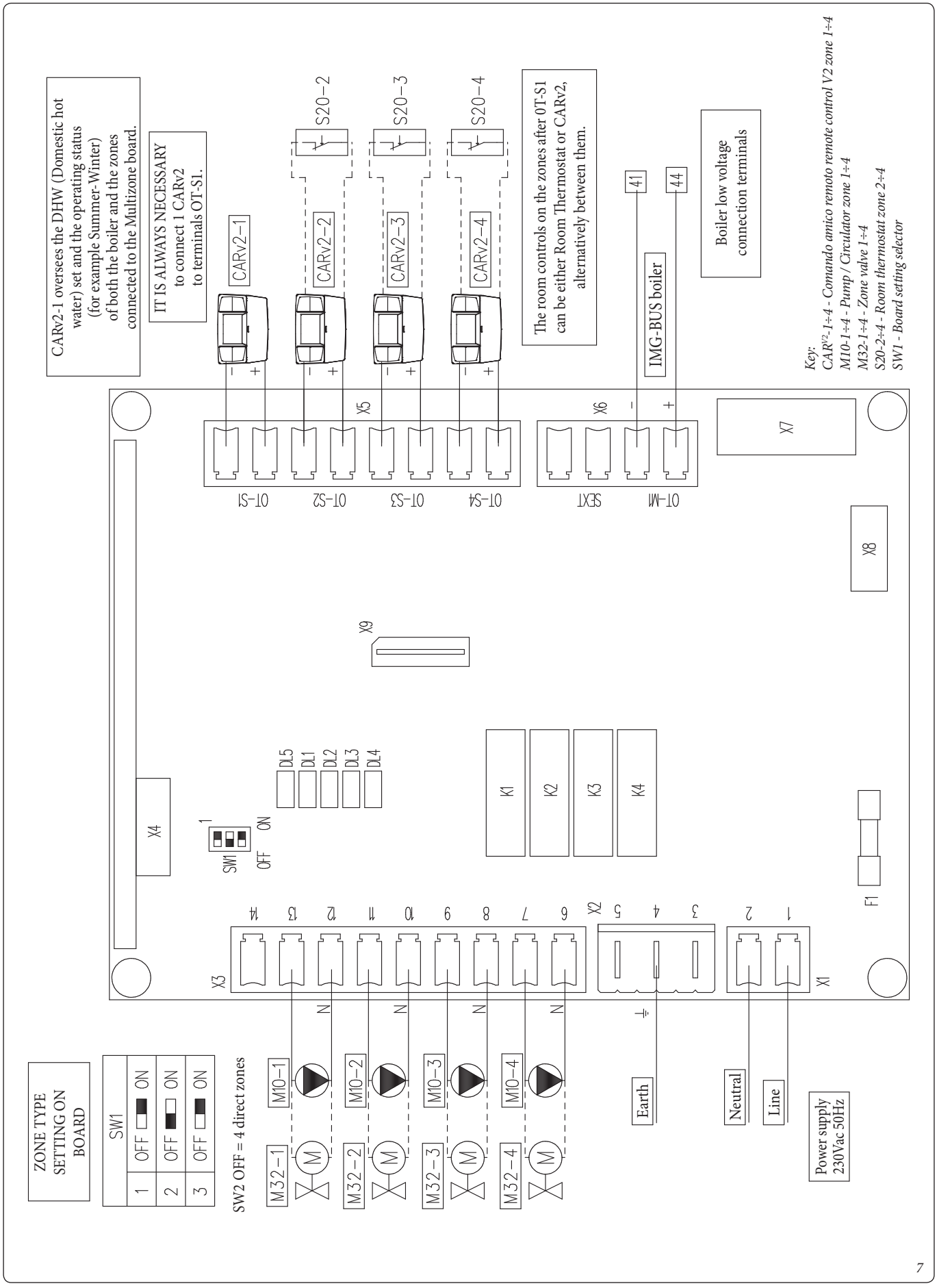
Without external probe connection	With external probe present
• CAR^{V2} -4 Central heating / C.H. set-point knob / selector, or • On TSP019 when TA present on OT-S4	• CAR^{V2} -4 Central heating / C.H. set-point knob / selector (see graph Fig. 5), or • On TSP022 when TA present on OT-S4 (see graph Fig. 6)

NOTE: the value on TSP019 sets the maximum limit active for zone 4 flow temperature when the external probe is present.

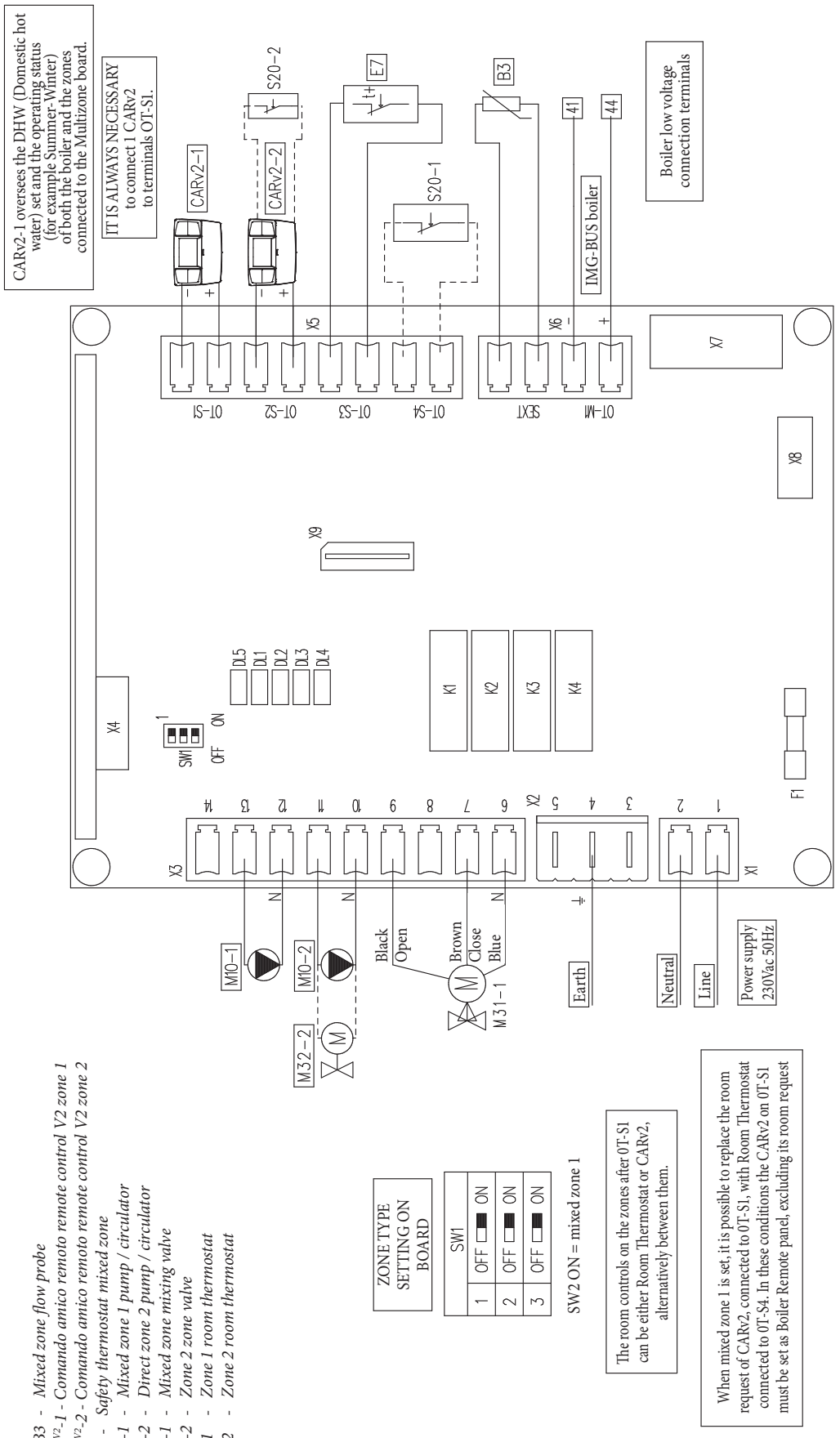
Boiler Flow temperature.
The flow temperature at which the boiler will operate will be automatically calculated by the multizone board according to the requests from the zones.

WIRING DIAGRAMS.

Multi-zone kit wiring diagram, configuration of 4 direct zones.



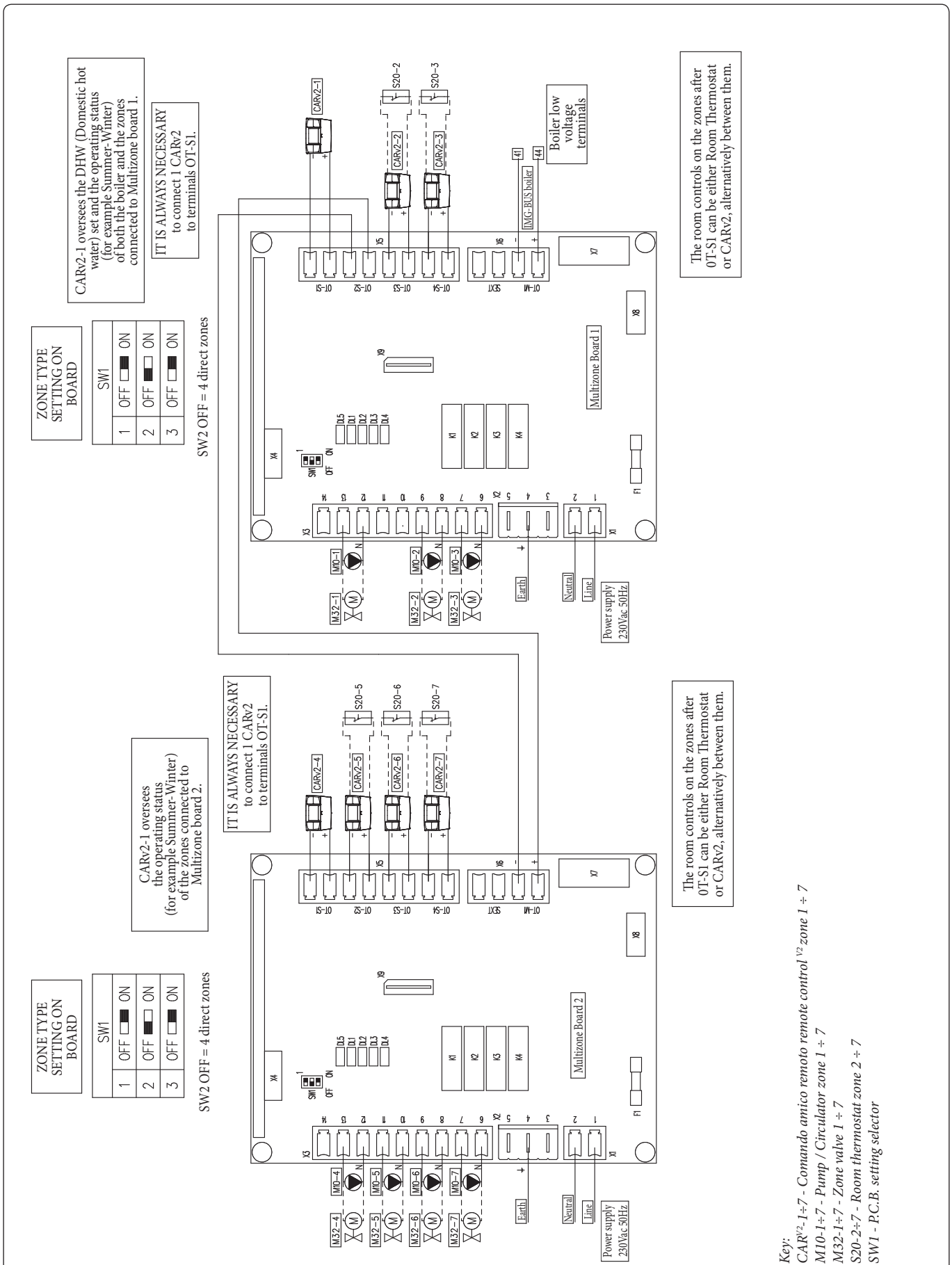
Multi-zone kit wiring diagram, configuration of 1 direct zone - 1 mixed zone.



Key:

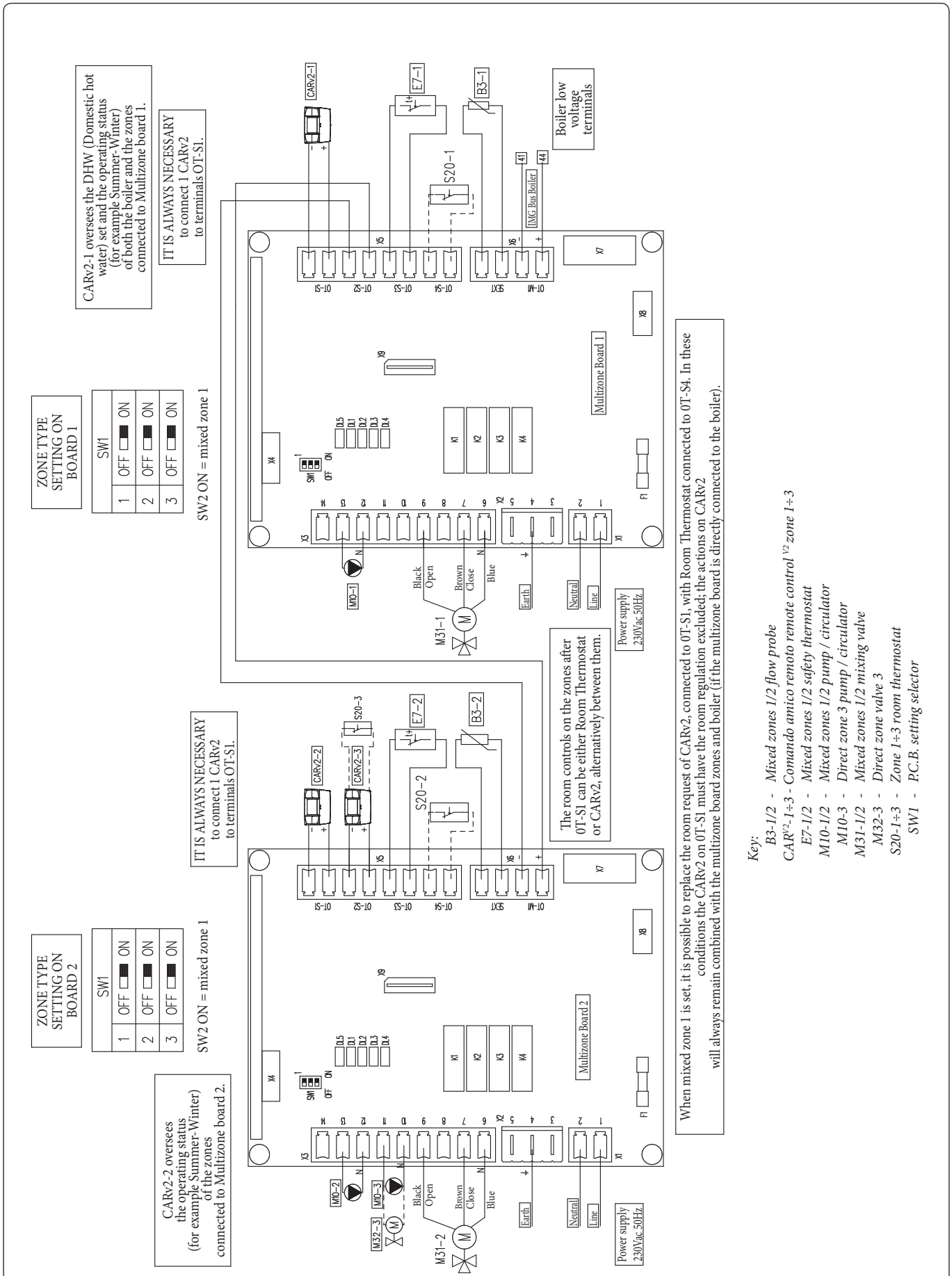
B3 - Mixed zone flow probe
CARV2-1 - Comando amico remoto remote control V2 zone 1
CARV2-2 - Comando amico remoto remote control V2 zone 2
E7 - Safety thermostat mixed zone
M10-1 - Mixed zone 1 pump / circulator
M10-2 - Direct zone 2 pump / circulator
M31-1 - Mixed zone mixing valve
M32-2 - Zone 2 zone valve
S20-1 - Zone 1 room thermostat
S20-2 - Zone 2 room thermostat

Multi-zone kit 2 wiring diagram, configuration of 7 direct zones.



Key:
CAR^{V2}-1÷7 - Comando amico remoto remote control ^{V2} zone 1 ÷ 7
M10-1÷7 - Pump / Circulator zone 1 ÷ 7
M32-1÷7 - Zone valve 1 ÷ 7
S20-2÷7 - Room thermostat zone 2 ÷ 7
SW1 - P.C.B. setting selector

Multi-zone kit 2 wiring diagram, configuration of 2 mixed zones - 1 direct zone.

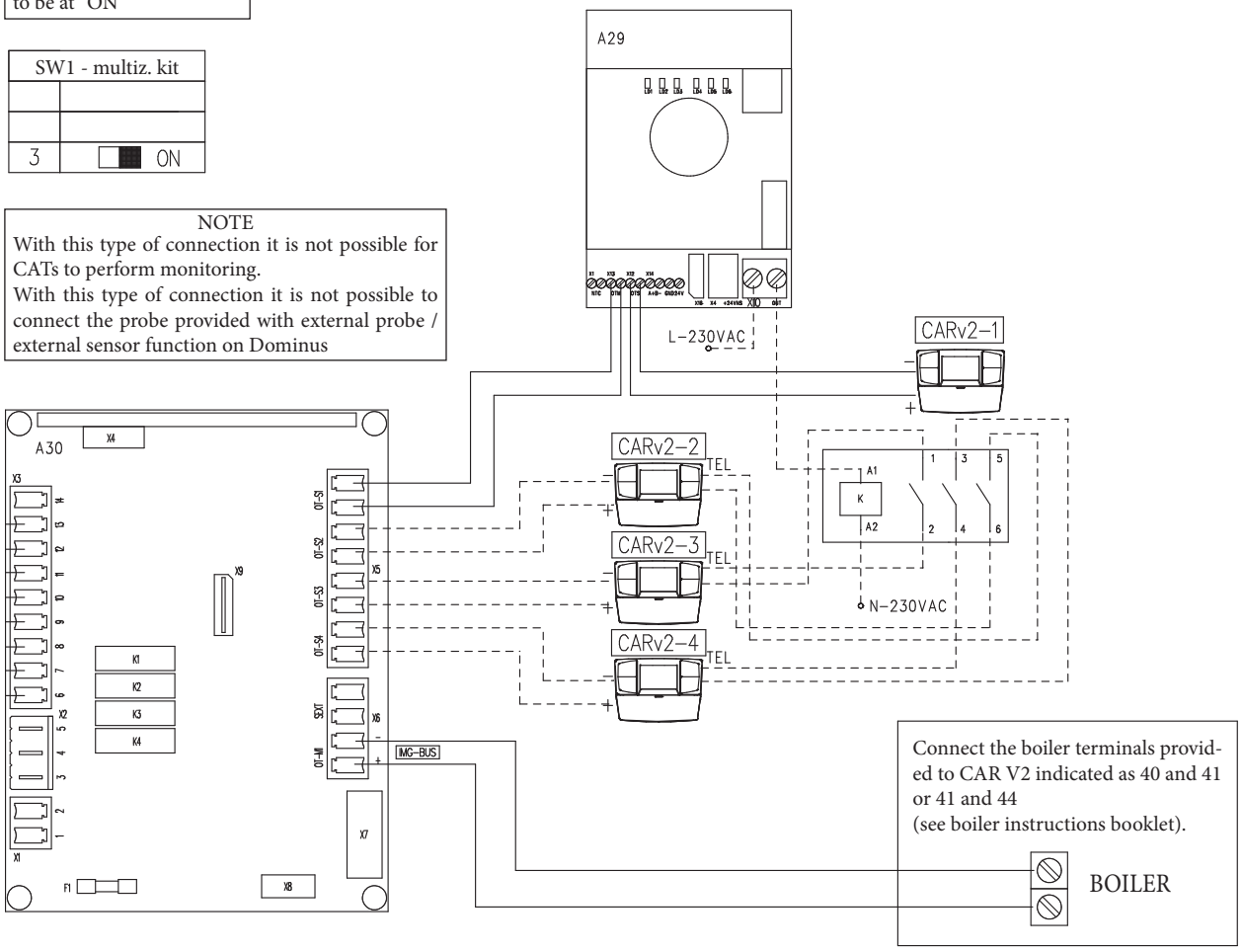


Wiring diagram Dominus coupling with Multizone Kit.

NOTE
To set the TSP parameters of the Multizone Kit, it is necessary for Dip Switch 3 to be at "ON"

SW1 - multiz. kit	
3	ON

NOTE
With this type of connection it is not possible for CATs to perform monitoring.
With this type of connection it is not possible to connect the probe provided with external probe / external sensor function on Dominus

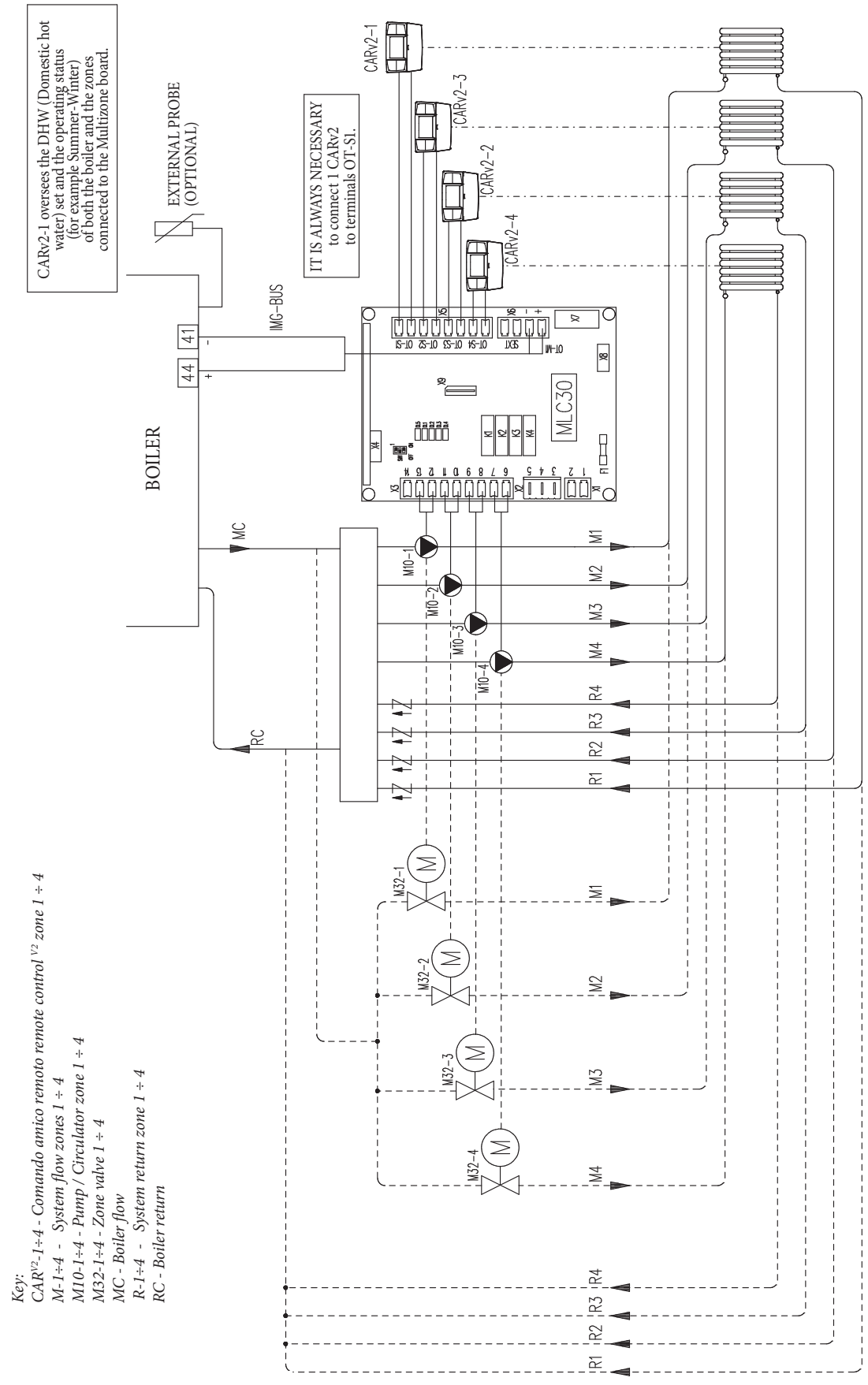


Key:

A29 - Dominus
A30 - Multi-zone Kit

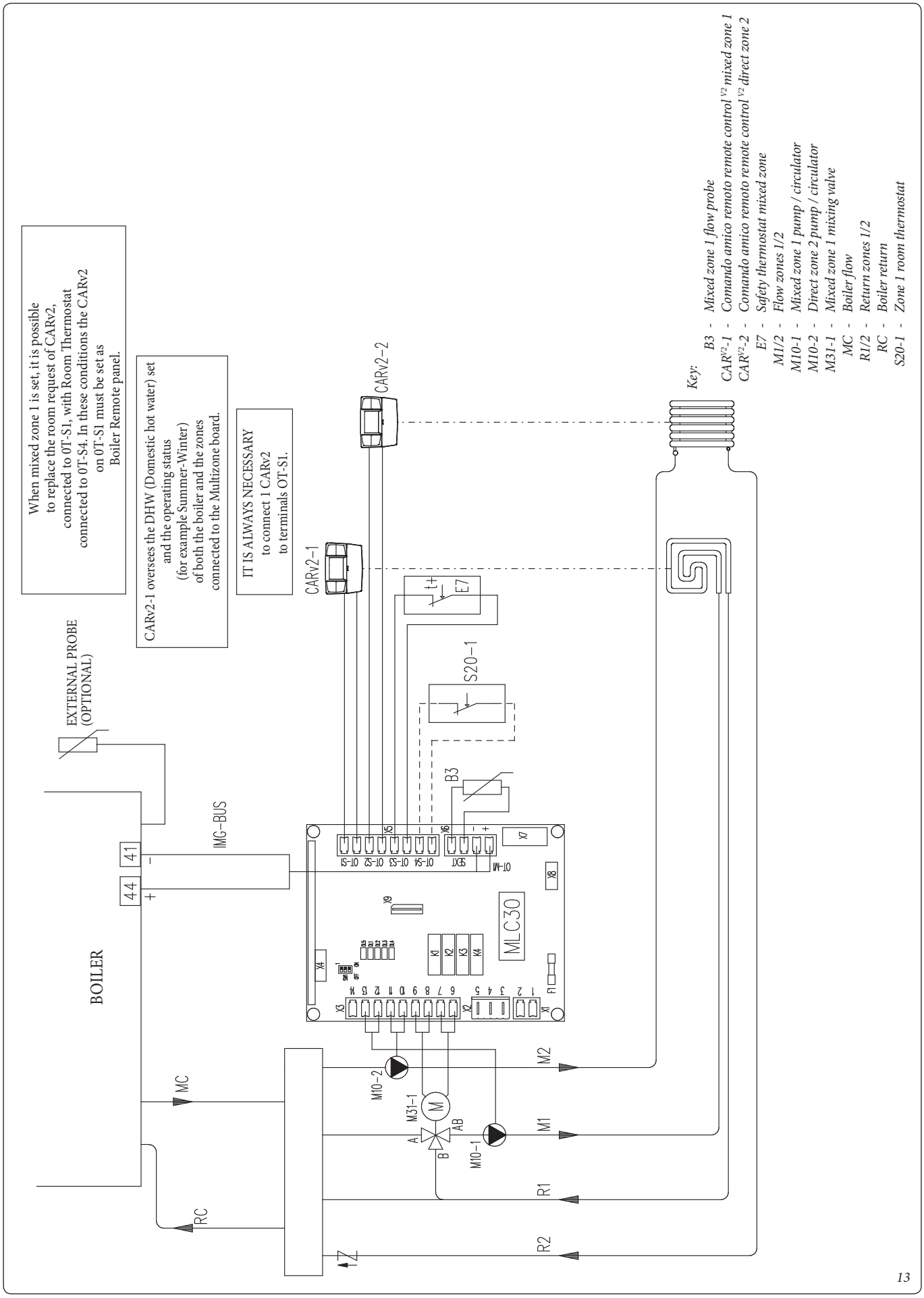
PLUMBING DIAGRAMS.

Multi-zone kit hydraulic diagram, configuration of 4 direct zones.



12

Multi-zone kit hydraulic diagram, configuration of 1 direct zone - 1 mixed zone.



13

During the service life of the products, performance is affected by external factors, e.g. the hardness of the DHW, atmospheric agents, deposits in the system and so on. The declared data refers to new products that are correctly installed and used in accordance with applicable regulations.
NOTE: correct periodic maintenance is highly recommended.

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