# Installation Manual

Flexa 25

AIRZONE

2
AZCE8CM1VALC
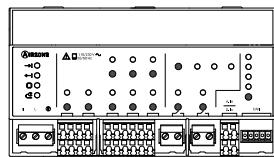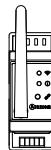
AZCE8CM1VALR   AZAIQSNSOUT
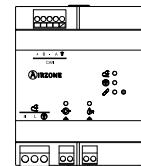
AZCE8CM1DRY
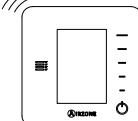
3
AZCE6THINKR   AZCE6LITER
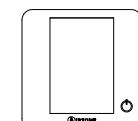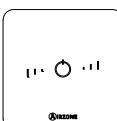
AZCE6BLUEZEROC   AZCE6LITEC

4
AZX6WSPHUB

AZX6CCPGAWI

2 **3**

AIRZONE

AI   CAN

+ B - A   + B + A

O1   O2

N   L   A - B +

1   **4**

AZCE8CB1DIN

| **1** | **2** | **3** | **4** |

	Azul	Blue	Azul	Bleu	Blu	Blau
−	Negro	Black	Preto	Noir	Nero	Schwarz
B	Verde	Green	Verde	Vert	Verde	Grün
+	Rojo	Red	Vermelho	Rouge	Rosso	Rot
	Malla	Shield	Malha	Tresse de blindage	Calza	Schwarzer Kabelschirm

N	Neutro	Neutral	Neutro	Neutre	Neutro	Neutralleiter
L	Fase	Phase	Fase	Phase	Fase	Phase
	Tierra	Ground	Terra	Terre	Terra	Schutzleiter

Contents

Environmental policy

- Never dispose of this equipment with household waste. Electrical and electronic products contain substances that can be harmful to the environment if not properly handled. The crossed-out waste bin symbol indicates separate collection of electrical devices, which must be separated from other urban waste. For correct environmental management, at the end of its useful life the equipment should be taken to the collection centers provided for this purpose.
- The parts that make it up can be recycled. Therefore, please respect the regulations in force regarding environmental protection.
- If you replace the equipment, the original equipment must be returned to your dealer or deposited at a specialized collection center.
- Violations are subject to the penalties and measures stipulated in environmental protection law.

Before starting

- The system must be installed by a qualified technician.
- This product must not be modified or disassembled under any circumstances.
- Do not handle the system with wet or damp hands.
- In the case of any malfunction of this appliance, do not repair it yourself. Contact the sales distributor or service dealer for repair or disposal of the product.

- Check that the HVAC installation has been installed according to the manufacturer's requirements, complies with local regulations in force and is working correctly before you install the Airzone system.
- Place and connect the elements in your installation in accordance with current regulations covering electrical installations.

- All connections must be made with the power supply completely turned off.
- Take care not to short circuit any of the system's connections.
- Please refer carefully to the wiring diagram and these instructions when wiring.
- Connect all wiring securely. Loose wiring may cause overheating at the connection points and is a possible fire hazard.
- Do not locate the Airzone communication bus close to power lines, fluorescent lights, actuators, etc. as this may cause interference in communications.
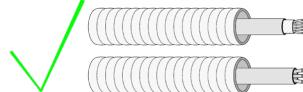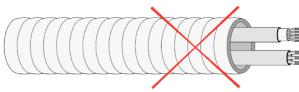
- The connection to the external power supply must include a main switch or other method of disconnection that includes a constant separation for all polarities, in accordance with appropriate local and national regulations. The system will automatically restart if the power supply is turned off. **Use separate circuits for the unit that is to be controlled and the power supply to the system.**
- Check the polarity of each device's connectors. A wrong connection can seriously damage the product.
- To connect to the system, use Airzone cable: four-wire cable (2x0.22 mm^2 twisted shielded wires for data communications and 2x0.5 mm^2 wires for power supply).

- A Blueface Zero thermostat must be used to enable all the Airzone system functionalities.
- Recommendations for the placing of the thermostats:
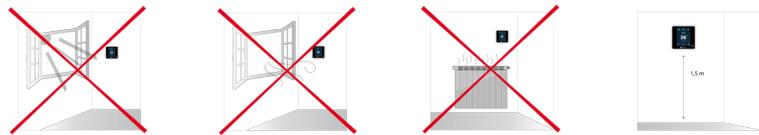
- For equipment using R32 refrigerant, verify the compliance with the local refrigerant regulation.

- Recommendations for placing the AirQ Sensor device:
  - ◊ Install the sensor on the wall at a height between 0.9 and 1.8 m above the ground.
  - ◊ Leave a clear area around the device.
  - ◊ Avoid placing the AirQ Sensor near to polluting sources or where people can breathe on it directly.
  - ◊ Avoid placing the device near to supply grilles, windows or doors. To this end, leave a space of at least 5 m from these elements.
  - ◊ Avoid placing the sensor near to heat sources.
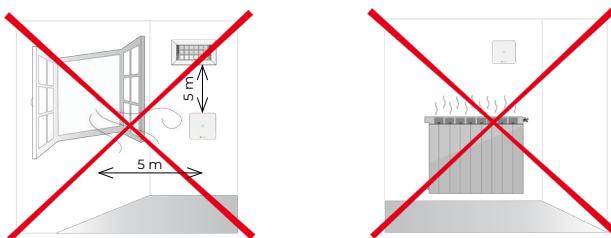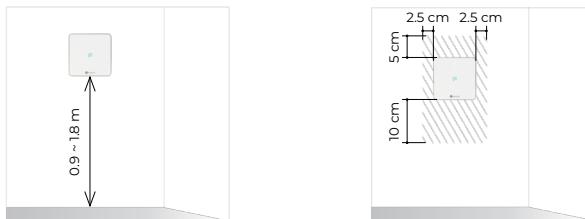
Elements and Installation

BASIC SYSTEM ELEMENTS

Airzone Flexa 25 main control board on DIN rail for radiant heating/cooling control (8z) (AZCE8CB1DIN)

For further information, see the [technical datasheet](#).

Assembly

The main control board is DIN rail or surface mounted. The location and assembly of this module must comply with current electronic regulations.
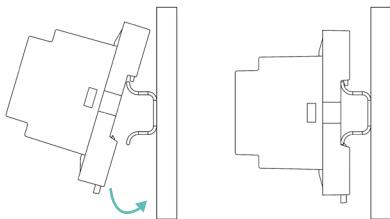
Mounted using DIN rail   Mounted on wall
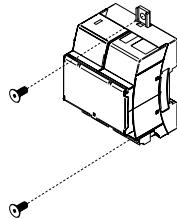
Note: *To remove the module on DIN rail, pull the tab downwards to release it.*
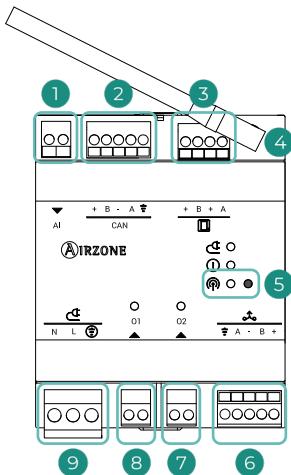
Connection

No.	Description
1	Airzone internal use
2	CAN bus
3	Airzone connection bus
4	Antenna
5	Wireless connection
6	Automation bus
7	Low temperature circuit
8	High temperature circuit
9	Power supply

CAN bus

The CAN bus allows the different system elements to be connected to the main control board, enabling communication between them. The devices that can be connected to this bus are:

- Purification devices (AirQ Box / AirQ Sensor)
- Dehumidifier module (AZCE8CM1DRY)
- Valve control modules (AZCE8CM1VALC / AZCE8CM1VALR)

To connect the bus, there is one 5-pin terminal. Use 2x0.5 + 2x0.22 mm2 Airzone cable. Fix the cables with the screws on the terminal, following the color code.

A	Blue
−	Black
B	Green
+	Red
⏚	Shield
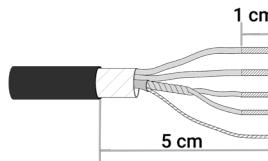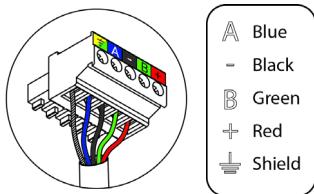
Airzone connection bus (▢)

The Airzone connection bus is used to connect all the internal elements independent of the main control board and can control up to 8 zones. The devices that can be connected to this bus are:

- Wired thermostats (AZCE6BLUEZEROC / AZCE6LITEC)
- Wireless thermostats (AZCE6THINKR / AZCE6LITER)

To connect the bus, there is one 4-pin terminals. This system allows star and bus connection. Use 2x0.5 + 2x0.22 mm2 Airzone cable. Fix the cables with the screws on the terminal, following the color code.

A	Blue
−	Black
B	Green
+	Red
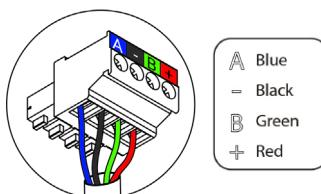
Antenna

Antenna connection for wireless elements.

Wireless connection (📶)

The system main control board has wireless communication for connecting wireless Airzone elements. These devices are associated by opening the association channel on the main control board. To do this, make a short press on the button next to the 📶 icon; when LED stays red it means that the radio channel is open. For 15 minutes, the system will keep the wireless association channel open.
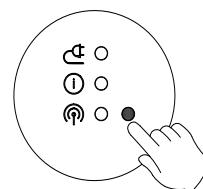
Automation bus (⚲)

The automation bus allows several systems to be interconnected in order to manage all of them, using the control peripherals offered by Airzone or their integration into a higher-level control network. The devices that can be connected to this bus are:

• Airzone Cloud Webserver (AZX6WSC5GER / AZX6WSPHUB)
• Production control board (AZX6CCPGAWI)
• KNX integration gateway (AZX6KNXGTWAY)

To connect to the bus, there is one 5-pin terminal. This system only uses bus connections. Fix the cables with the screws on the terminal, following the color code.
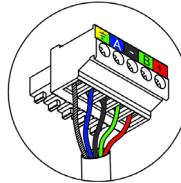
Ⓐ	Blue
-	Black
Ⓑ	Green
+	Red
⏚	Shield

Low temperature circuit (O2)

This output can be configured as "Low temp. circuit demand" (Underfloor heating) (by default) or as "Manual" (see Advanced settings section on the Blueface Zero thermostat → System parameters).

• Low temp. circuit demand configuration: The output must be configured as "Underfloor heating water"* (by default).

Status	Radiant Cooling	Radiant Heating	Radiator
Demand ON	ON	ON	OFF
Demand OFF	OFF	OFF	OFF

* If the output is configured as "Radiant electric", neither the main control board relay nor the CCP relay will be activated.

• Manual configuration (requires Webserver version equal to or later than 4.0.1): ON/OFF control through Airzone Cloud (requires version equal to or later than 4.11).

The technical characteristics of the O2 relays are Imax 1 A at 24-48 V voltage free. To control higher power elements, the use of contactors of the power to be controlled is recommended.

High temperature circuit (O1)

This output can be configured as "High temp. circuit demand" (radiator) (by default) or as "Manual" (see Advanced settings section on the Blueface Zero thermostat → System parameters).

- High temp. circuit demand configuration: The output must be configured as "Radiator/ Ceiling water" (by default).

Status	Radiant Cooling	Radiant Heating	Radiator
Demand ON	OFF	OFF	ON
Demand OFF	OFF	OFF	OFF

- Manual configuration (requires Webserver version equal to or later than 4.0.1): ON/OFF control through Airzone Cloud (requires version equal to or later than 4.11).

The technical characteristics of the O1 relays are Imax 1 A at 24-48 V voltage free. To control higher power elements, the use of contactors of the power to be controlled is recommended.

Power supply (⏚)

This connector supplies power to the system main control board and consequently to the elements connected to it. External power supply at 110/230 VAC.

The power connection to the module is via a 3-pin terminal. Use 3x1.5 mm² cable. Fix the cables with the screws on the terminal, following the color code.
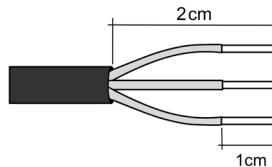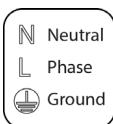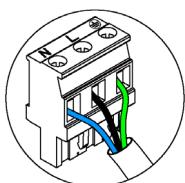
> ⚠ The connection to the external power supply must include a main switch or other method of disconnection that includes a constant separation for all polarities, in accordance with appropriate local and national regulations. The system will automatically restart if the power supply is turned off. **Use separate circuits for the unit that is to be controlled and the power supply to the system.**

Wired thermostats

Airzone Blueface Zero wired thermostat (AZCE6BLUEZEROC)
For further information, see the [technical datasheet](#).

Airzone Lite wired thermostat (AZCE6LITEC)
For further information, see the [technical datasheet](#).

Assembly and connection

Airzone wired thermostats are surface mounted on a support. Remember that the maximum recommended distance for this device is 40 meters.

For wall mounting, follow these steps:

1. Separate the back of the thermostat and fix the cables with the screws on the terminal, following the color code.
   Important: Use the tool provided to press on the fastening tabs.
2. Fix the back of the thermostat to the wall.
3. Connect it to the Airzone connection bus.
4. Place the display over the fixed support.
5. Place the anti-vandalism rods to better hold the thermostat in place (optional).
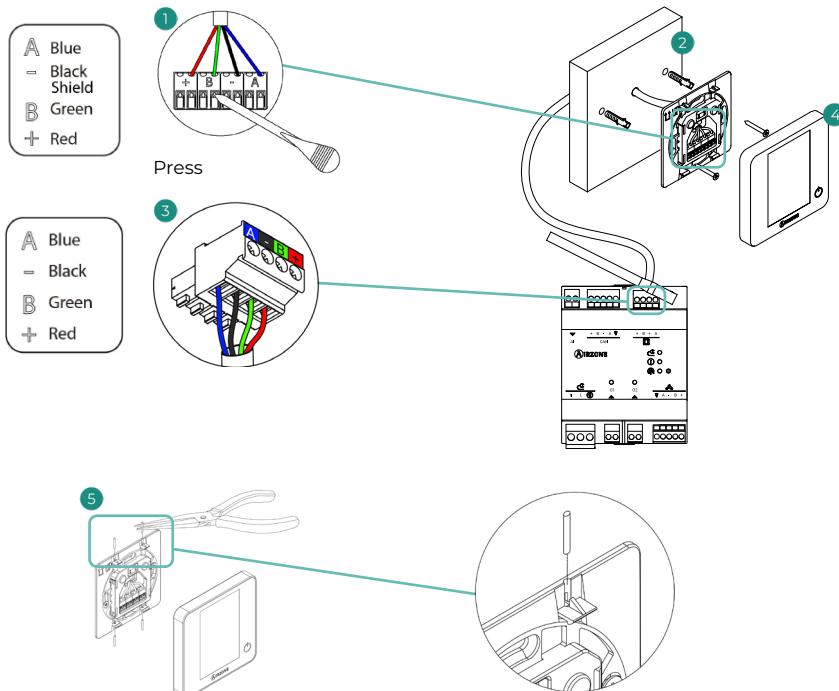
Note: If more than five AZCE6BLUEZEROC thermostats are connected to a main control board, an additional power supply AZX6POWER must be added. For further information, see the [technical datasheet](#).

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Wireless thermostats

Airzone Think wireless thermostat (AZCE6THINKR)
For further information, see the technical datasheet.

Airzone Lite wireless thermostat (AZCE6LITER)
For further information, see the technical datasheet.

Assembly

Airzone wireless thermostats are surface mounted on a support. Remember that the maximum recommended distance for this device is 40 meters.

For wall mounting, follow these steps:

1. Remove the back of the thermostat and insert the CR2450 button battery.
2. Fix the back of the thermostat to the wall.
3. Place the display over the fixed support.
4. Place the anti-vandalism rods to better hold the thermostat in place (optional).
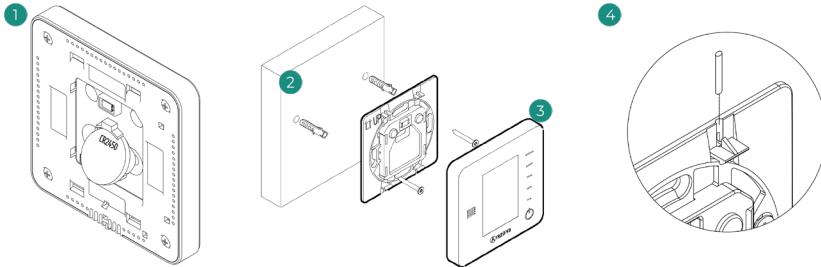
Note: *If you wish to change the battery, please see the User's Manual.*

OPTIONAL SYSTEM ELEMENTS

AirQ Sensor

AirQ indoor air quality Sensor (AZX6AIQSNSB)

For further information, see the [technical datasheet](#).

Assembly

It is recommended to install the device at a height of no more than 2 m above the ground. For residential installations, it is recommended that the location of the device be in daytime or transit rooms (e.g., hallways). The AirQ Sensor is surface mounted on a support.

Follow the steps below to carry out the installation:

1. Position and screw the base of the device to the embedded box.
2. Fit the top of the AirQ Sensor into the protruding rib on the base.
3. Rotate until the device is fully secured by the magnets..
4. You can secure the device by a small anti-theft screw located at the bottom (optional).
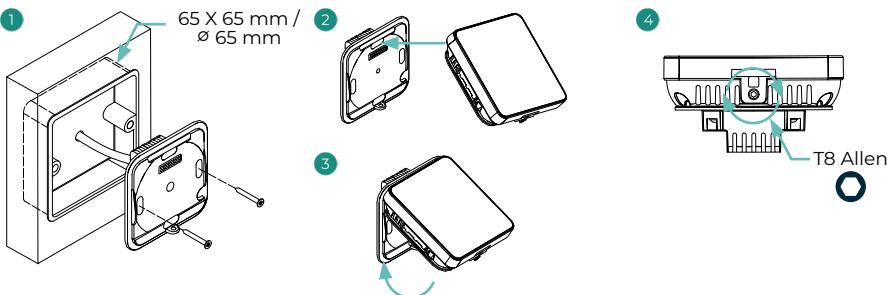
Connection
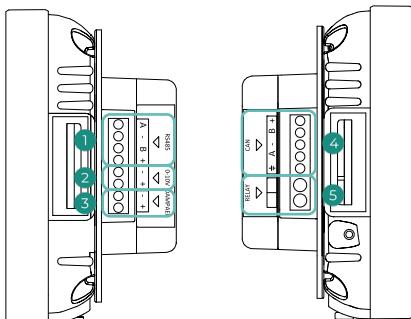
No.	Description
1	Integration bus
2	0-10 V output (CMV)
3	Airzone damper control
4	CAN bus
5	Relay output (CMV remote On/Off)

CAN bus

Connect the AirQ Sensor to the CAN bus of the main control board. To do this, there is one 5-pin terminal. Use 2x0.5 + 2x0.22 mm^2 Airzone cable. Fix the cables with the screws on the terminal, following the color code.

1			2		
Ⓐ	Blue		Ⓐ	Blue	
–	Black		–	Black	
Ⓑ	Green		Ⓑ	Green	
+	Red		+	Red	
⏚	Shield		⏚	Shield	
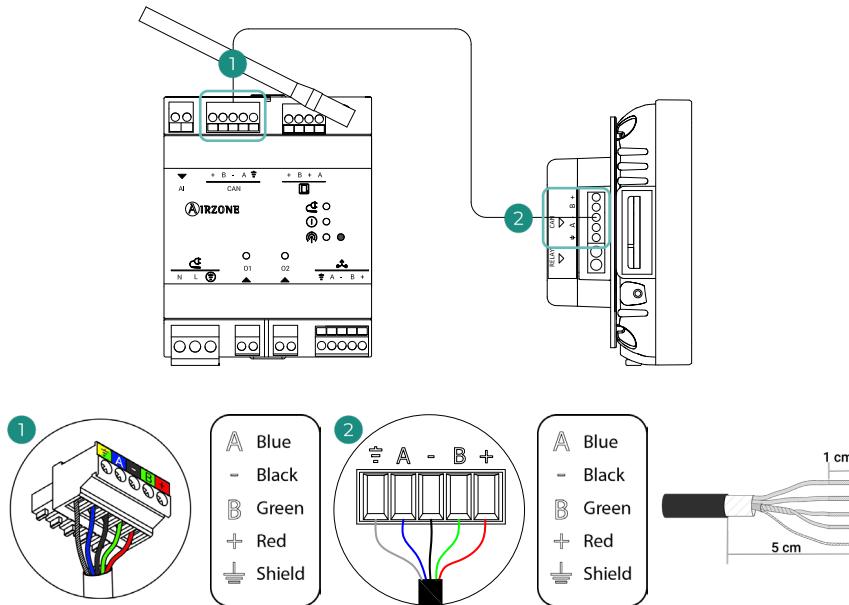
AirQ Sensor withput VMC (AZAIQSNSOUT)

For further information, see the [technical datasheet](#).

Assembly and connection

It is recommended to install the device at a height between 0.9 and 1.8 m above the ground. For residential installations, it is recommended that the location of the device be in daytime or transit rooms (e.g., hallways). The AirQ Sensor is surface mounted on a support.

Follow the steps below to carry out the installation:

1. Separate the back of the AirQ Sensor and fix the cables with the screws on the terminal, following the color code.
   Important: Use the tool provided to press on the fastening tabs.
2. Position and screw the base of the device.
3. Connect it the CAN bus. For increased safety, fix the cables to the main control board using the turrets.
4. Fit the top of the AirQ Sensor into the protruding rib on the base.
5. Rotate until the device is fully secured by the magnets.
6. You can secure the device by a small anti-theft screw located at the bottom (optional).
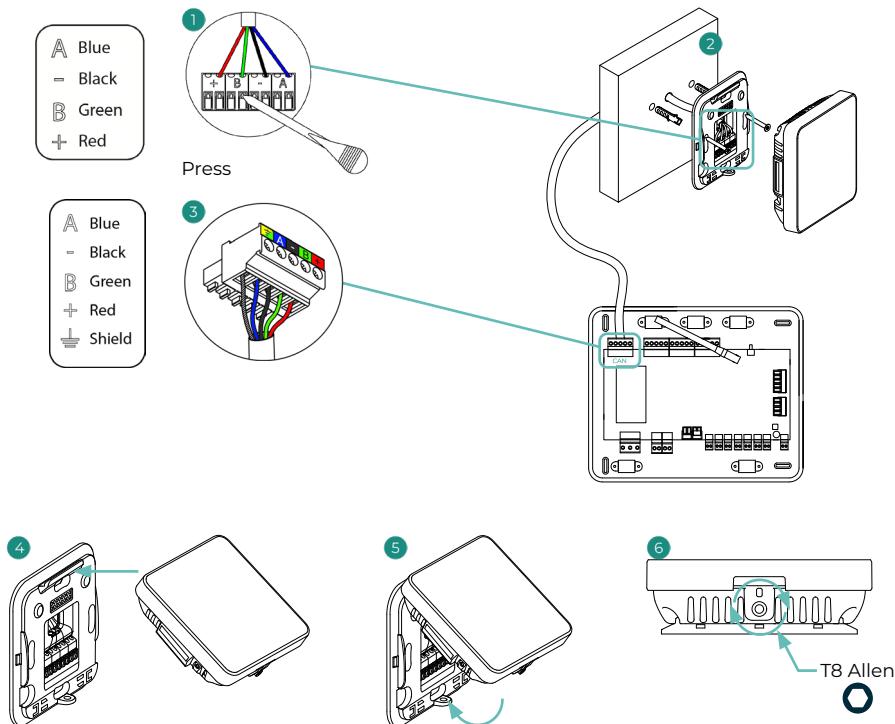
Airzone dehumidifier control module (AZCE8CM1DRY)

For further information, see the [technical datasheet](#).

Assembly

This module is DIN rail mounted. It is externally powered at 110/230 VAC. It should be placed and mounted in accordance with the current electrotechnical regulations.

Note: To remove the module on DIN rail, pull the tab downwards to release it.
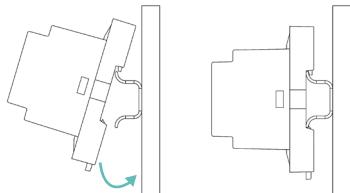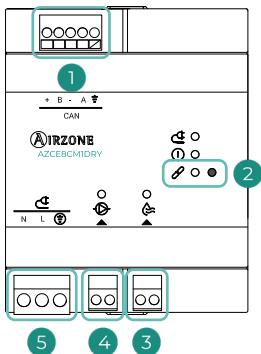
Connection

No.	Description
1	CAN bus
2	Reset
3	Relay output (fan)
4	Relay output (pump)
5	Power supply

CAN bus

Connect the AZCE8CM1DRY module to the CAN bus of the main control board. For this purpose, there is one 5-pin terminal. Use 2x0.5 + 2x0.22 mm^2 Airzone cable. Fix the cables with the screws on the terminal, following the color code.

A	Blue
–	Black
B	Green
+	Red
⏚	Shield
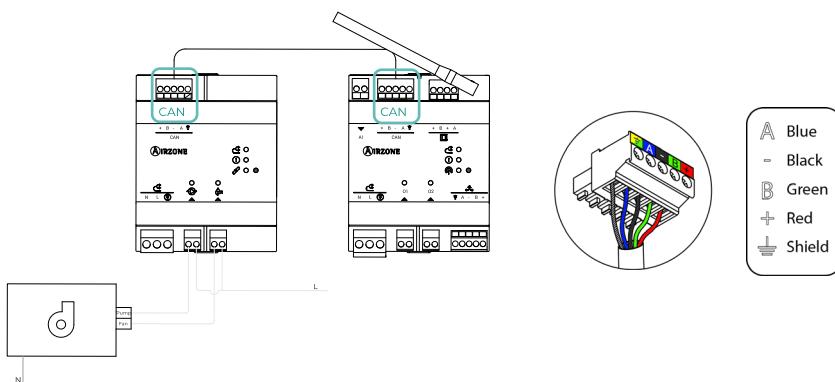
Relay outputs

Relay specs:

⏥ Pump Imax: 12 A at 250 VAC / 12 A at 24 VDC.
⏥ Fan Imax: 5 A at 250 VAC / 3 A at 30 VDC.

Note that to control elements with a greater power, it is recommended to use contactors in accordance with the power required. Remember to connect the neutral connector directly from the circuit to the element to be controlled.

Power supply (⏚)

The dehumidifier module is externally powered at 110/230 VAC. The power connection to the module is via a 3-pin terminal. Fix the cables with the screws on the terminal, following the color code.

	Neutral
Ⓛ	Phase
⏚	Ground

The connection to the external power supply must include a main switch or other method of disconnection that includes a constant separation for all polarities, in accordance with appropriate local and national regulations. The system will automatically restart if the power supply is turned off. **Use separate circuits for the unit that is to be controlled and the power supply to the system.**

Factory reset

If you want to return to factory values, press and hold the button 𝒫 until all LED turn on. Wait for the LED to go back to their normal state before starting with the initial configuration process.

Airzone control module for wireless valves VALR (AZCE8CM1VALR)

For further information, see the technical datasheet.

Assembly

This module is mounted on DIN rail. It should be placed and mounted in accordance with the current electrotechnical regulations.

*Note: To remove the module on DIN rail, pull the tab downwards to release it.*
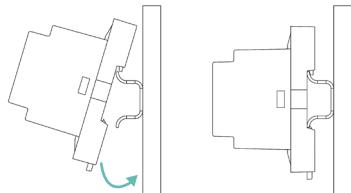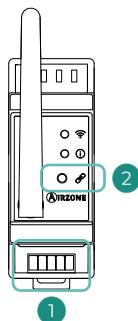
Connection

N°	Description
1	CAN bus
2	Association / Reset

CAN bus

Connect the AZCE8CM1VALR module to the CAN bus of the main control board. For this purpose, there is one 5-pin terminal. Use 2x0.5 + 2x0.22 mm^2 Airzone cable. Fix the cables with the screws on the terminal, following the color code.

A	Blue
−	Black
B	Green
+	Red
⏚	Shield
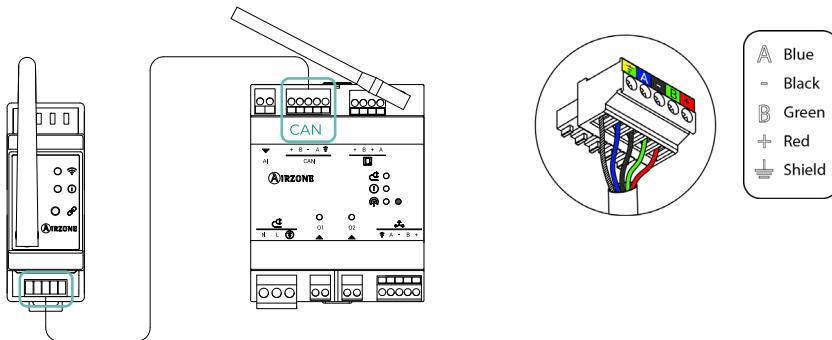
Factory reset

If you want to return to factory values, press and hold the association button 🔗 until LED ⓘ change to searching status (blue). Wait for the LED to go back to their normal state before starting with the initial configuration process.

Airzone wireless thermostatic valve actuator VALR for radiators (AZX6AC1VALR)

For further information, see the [technical datasheet](#).

Assembly

Airzone wireless thermostatic valve actuators are mounted on each of the valves of a heater. Check that the thermostatic valve actuator is compatible with the valve body that you are going to equip (M30 x 1.5). See [compatibility table](#).
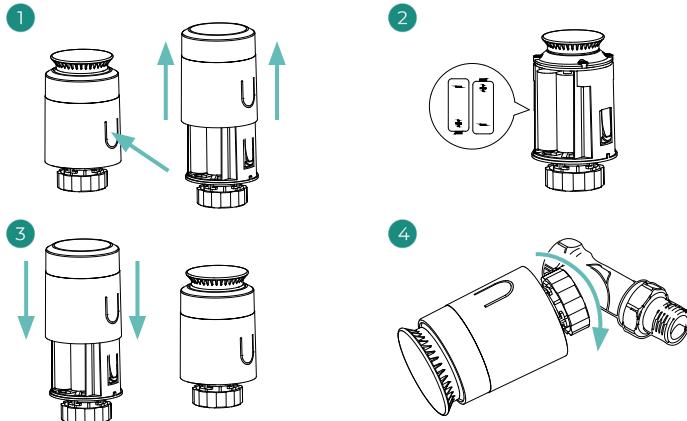
Association

To associate the heads, follow the steps below:

1. Open the association channel by pressing the 🖉 button.
2. Turn the upper wheel of the head until "OF" appears on the screen.
3. Press and hold the upper button until the address of the thermostatic head appears on the display (an address from 01 to 10 is automatically assigned).
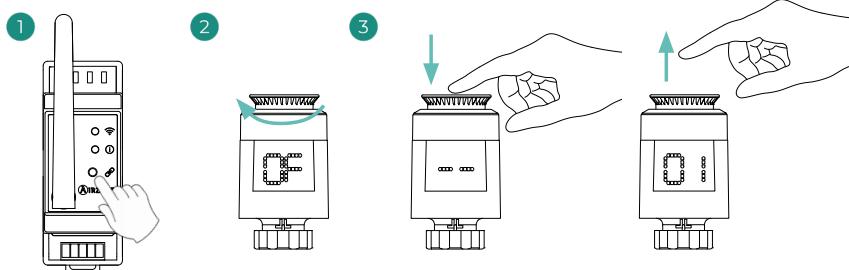
Airzone control module for wired valves 110/230V VALC (AZCE8CM1VALC)

For further information, see the [technical datasheet](#).

Assembly

This module is DIN rail or surface mounted. It is externally powered at 110/230 Vac. It should be placed and mounted in accordance with the current electrotechnical regulations.
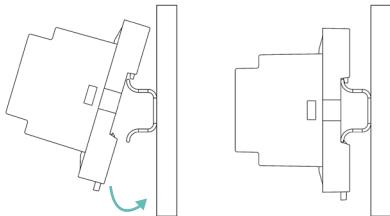
Mounted using DIN rail
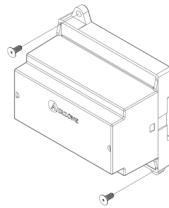
Mounted on wall

Note: *To remove the module on DIN rail, pull the tab downwards to release it.*

Connection
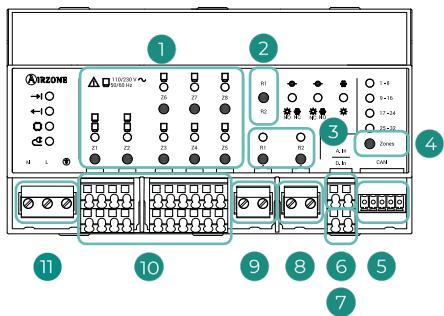
No.	Description
1	Zone relay buttons
2	Operation relay configuration
3	Operation relay buttons
4	Reset
5	CAN bus
6	Analog input
7	Airzone internal use
8	Operation relay R2
9	Operation relay R1
10	Outputs for thermostatic heads
11	Power supply

CAN bus

Connect the AZCE8CM1VALC module to the CAN bus of the main control board. For this purpose, there is one 5-pin terminal. Use 2x0.5 + 2x0.22 mm^2 Airzone cable. Fix the cables with the screws on the terminal, following the color code.

|	
A	Blue
−	Black
B	Green
+	Red
⏚	Shield
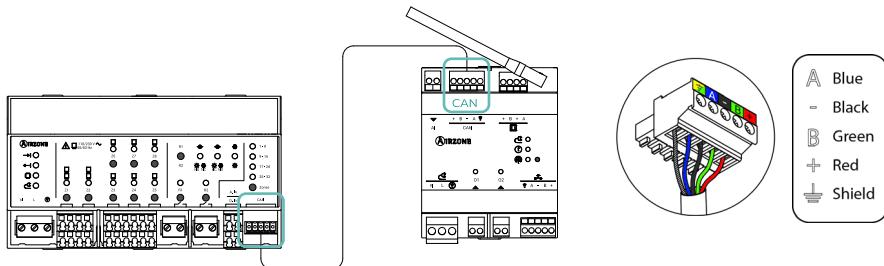
Outputs for thermostatic heads

Control Z1 - Z8 relay specs: Imax = 5 A at 110/250 VAC.

Note that to control elements with a greater power, it is recommended to use contactors in accordance with the power required. Remember to connect the neutral connector directly from the circuit to the element to be controlled.

Power supply (N L ⏚)

The module for wired valves is externally powered at 110/230 VAC. The power connection to the module is via a 3-pin terminal. Fix the cables with the screws on the terminal, following the color code.

N	Neutral
L	Phase
⏚	Ground

The connection to the external power supply must include a main switch or other method of disconnection that includes a constant separation for all polarities, in accordance with appropriate local and national regulations. The system will automatically restart if the power supply is turned off. **Use separate circuits for the unit that is to be controlled and the power supply to the system.**

Configuration

Configure the AZCE8CM1VALC module according to your installation. To do this you must leave the LED that corresponds to your installation on:

1. Press the operation relays configuration button for 5 s.
2. Switch between the different configurations by pressing the same button.
3. Save the configuration by another 5 s pressing in the same button.
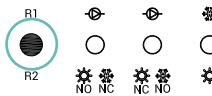
Configuration / Relay output	Configuration 1	Configuration 2	Configuration 3
R1	On/Off **Pump**	On/Off **Pump**	**Cooling Mode**
R2	**Heating Mode:** Normally open **Cooling Mode:** Normally closed	**Heating Mode:** Normally closed **Cooling Mode:** Normally open	**Heating Mode**

The relay R1 is activated when demand is generated in the system with a 3-minute delay.

The relay R2 maintains the last requested mode (cooling or heating), when selecting Stop/Ventilation/Dry mode.

Factory reset

Press and hold ● Zones for 10 seconds to return module to factory settings.

Airzone wired thermostatic valve actuator 110/230V VALC for radiant elements (AZX6AC1VALC)

For further information, see the technical datasheet.

Assembly

Airzone wired thermostatic valve actuators are mounted on each of the valves of a manifold / heater. Check that the thermostatic valve actuator is compatible with the valve body that you are going to equip (M30 x 1.5). See compatibility table.
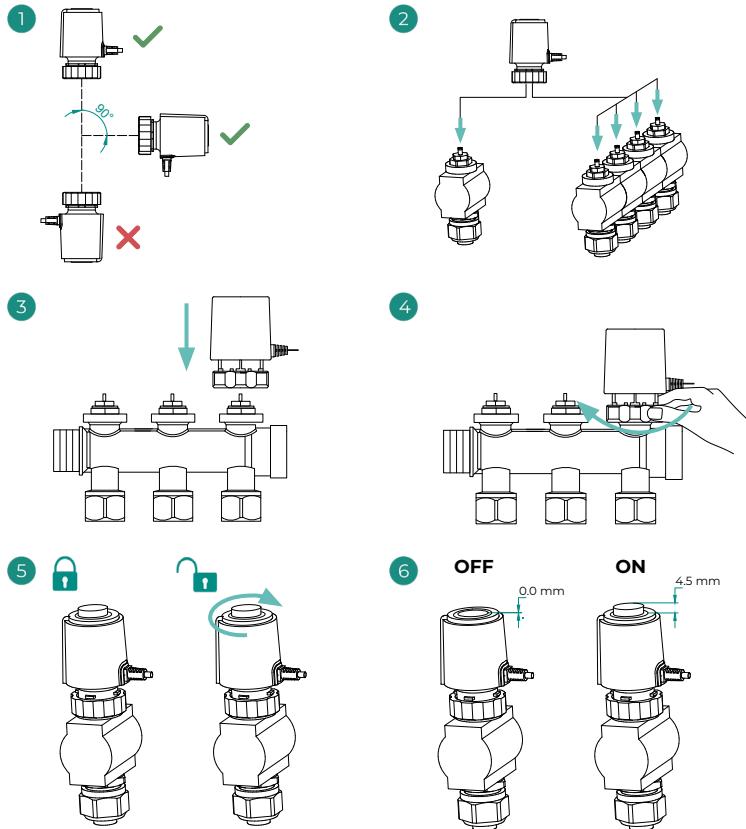
Connection

Airzone wired thermostatic heads are elements that are connected to the Z1 - Z8 outputs on the AZCE8CM1VALC module. Connect throught 2 wires without polarity. Maximum number of valves permitted: 2 for each output (20 valves in total).

Important: Use a suitable screwdriver to press in the locking tabs.
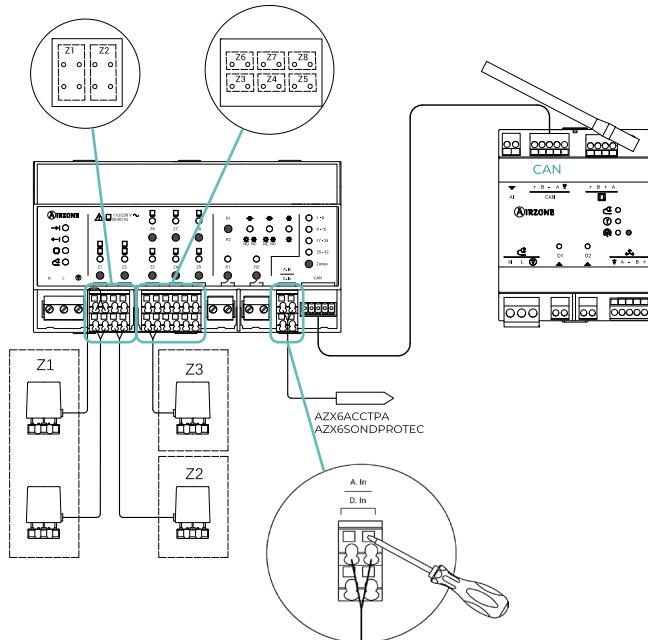
Webserver HUB Airzone Cloud Dual 2.4-5G/Ethernet (AZX6WSPHUB)

For further information, see the [technical datasheet](#).

Assembly

The Webserver HUB (AZX6WSPHUB) is DIN rail or surface mounted. The location and assembly of this module must comply with current electronic regulations.
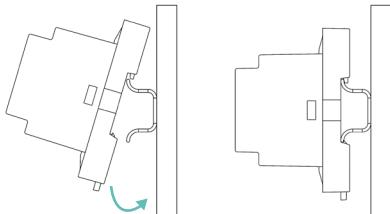
Mounted using DIN rail
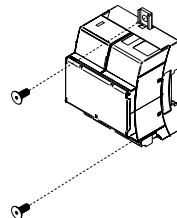
Mounted on wall

Note: To remove the module on DIN rail, pull the tab downwards to release it.
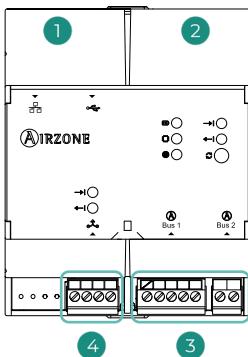
Connection

N°	Description
1	Ethernet
2	Wi-Fi
3	Automation bus
4	Integración output

Ethernet
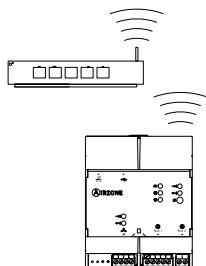
Wi-Fi
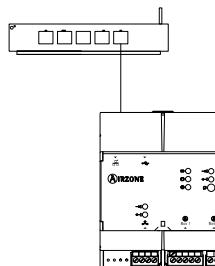
Important: All Airzone systems must be connected to the internet to provide technical support.

Automation bus (DM1 - DM2)

The Webserver HUB is an element that connects to the automation bus on the system's main control board.

For connection to the bus there is one 5-pin terminal (DM1). Fix the cables with the screws on the terminal, following the color code. Only use the shield on the connector on the main control board side. To connect several main control boards, use the 2-pin terminal (DM2).
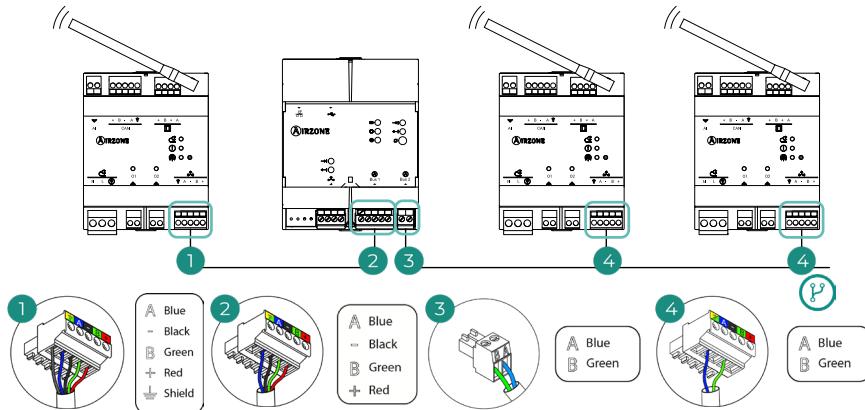
AZX6WSPHUB from a system main control board to other system main control boards

To connect the Webserver HUB to a CCP, use the CCP's outdoor automation bus 2.
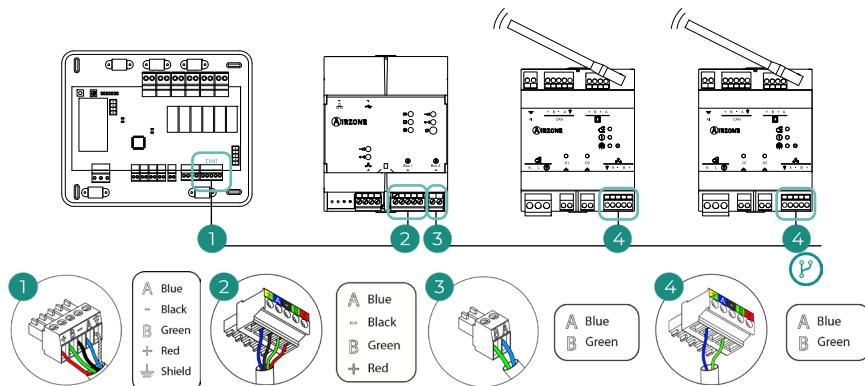
AZX6WSPHUB from AX6CCPGAWI to system main control boards

It is only necessary to connect **one Webserver per installation**. The connection icon ⓟ indicates that the same connection can be made for a total of up to 32 systems.

Note: Remember that, for this module to work correctly, all the main control boards in the installation must be addressed (see System advanced settings section).

Airzone hydronic production control board (AZX6CCPGAWI)

For further information, see the [technical datasheet.](#)

Assembly

The production control board is delivered in a screwed box for surface mounting. The location and installation of this element must comply with the current electronic regulations.

To mount the production control board, follow these steps:

1. Locate the production control board close to the AC unit to be controlled.
2. Unscrew the cover to fix the rear part to the wall: Ø = 4,5 mm, L = 25 mm
3. Once all connections have been made, screw the cover back on.

Ø = 4,5 mm
L = 25 mm
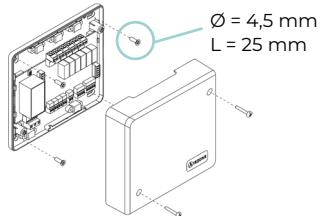
Connection
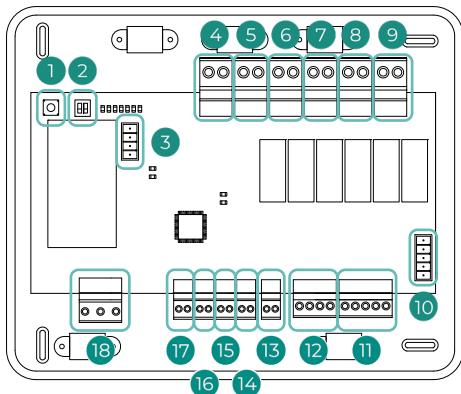
No.	Description
1	System search
2	Configuration
3	Air to water automation bus
4	Cooling mode
5	Heating mode
6	Air demand (cooling)
7	Radiant demand (cooling)
8	Air demand (heating)
9	Radiant demand (heating)
10	Automation bus
11	Automation bus
12	Integration bus
13	Airzone internal use
14	Stop mode
15	Semi-forced cooling mode
16	Semi-forced heating mode
17	DHW mode
18	Power supply

System search (SW1)

A short press on SW1 forces the cloud production control board to search for the systems connected to it and to set the addressing configuration. To reset the CCP, press SW1 for 10 seconds.
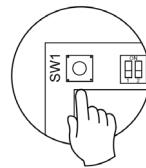
Configuration (SW2)

The SW2 microswitch configures the type of installation to be controlled by the production control board. The operation logic of the microswitch is as follows:

Significado			
1 2	1 2	1 2	1 2
Aerotermia	2 tubos	3/4 tubos	RadianT

Air to water automation bus (IU)

This bus makes it possible to connect various air to water gateways to the installed air-water unit.

To connect these integrated gateways, disconnect the AC unit bus terminal and fit the connector and the gateway fixing post.
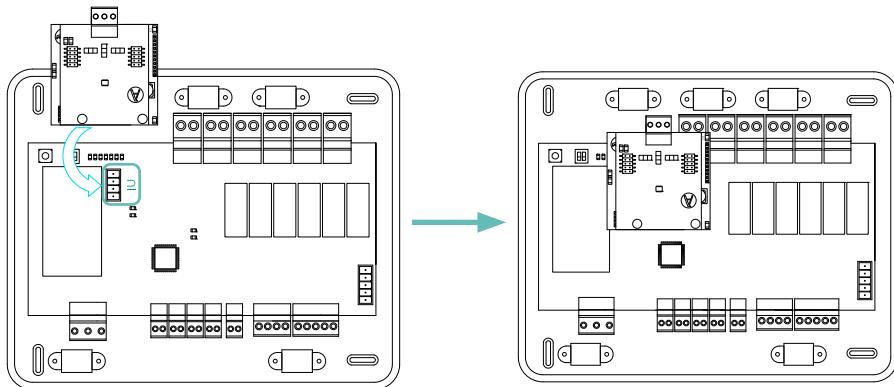
Control relays

This device has 6 relays for controlling the installation. The characteristics of the control relays are Imax 10 A at 110/230 VAC voltage free. To control higher power elements, the use of contactors of the power to be controlled is recommended.

Important: Remember to connect the neutral directly from the circuit to the element to be controlled.

Depending on the type of installation configured, the control relays will have a logic adapted to the installation:

- **Air-to-Water Heat Pump**

Mode	Demand	Control relays					
		MODE_Y	MODE_W	AIR_Y	RAD_Y	AIR_W	RAD_W
Stop	OFF	-	-	-	-	-	-
Cooling	💨	ON	-	ON	-	-	-
	≋	ON	-	-	ON	-	-
	OFF	-	-	-	-	-	-
Heating	💨 ▥	-	ON	-	-	ON	-
	≋	-	ON	-	-	-	ON
	OFF	-	-	-	-	-	-
Dry	ON	-	-	-	-	-	-
	OFF	-	-	-	-	-	-
Ventilation	ON	-	-	-	-	-	-
	OFF	-	-	-	-	-	-

💨 *Air /* ▥ *Radiator /* ≋ *Radiant*

- **2 pipes / 4 pipes**

Mode	Demand	Control relays					
		MODE_Y	**MODE_W**	**AIR_Y**	**RAD_Y**	**AIR_W**	**RAD_W**
Stop	OFF	-	-	-	-	-	-
Cooling	🌬️	ON	-	ON	-	-	-
	🌊	ON	-	-	ON	-	-
	OFF	ON	-	-	-	-	-
Heating	🌬️ ♨️	-	ON	-	-	ON	-
	🌊	-	ON	-	-	-	ON
	OFF	-	ON	-	-	-	-
Dry	ON	ON	-	-	-	-	-
	OFF	ON	-	-	-	-	-
Ventilation	ON	-	-	-	-	-	-
	OFF	-	-	-	-	-	-

🌬️ *Air /* ♨️ *Radiator /* 🌊 *Radiant*

- **RadianT**

Mode	Demand	Control relays					
		MODE_Y	**MODE_W**	**AIR_Y**	**RAD_Y**	**AIR_W**	**RAD_W**
Stop	OFF	-	-	-	-	-	-
Cooling	🌊	ON	-	-	ON	-	-
	OFF	ON	-	-	-	-	-
Heating	♨️	-	ON	-	-	ON	-
	🌊	-	ON	-	-	-	ON
	OFF	-	ON	-	-	-	-

♨️ *Radiator /* 🌊 *Radiant*

Automation bus (DM2)

For the Airzone Cloud Webserver connection, remove the Webserver fixing post and fit the connector on the outdoor domotic bus.
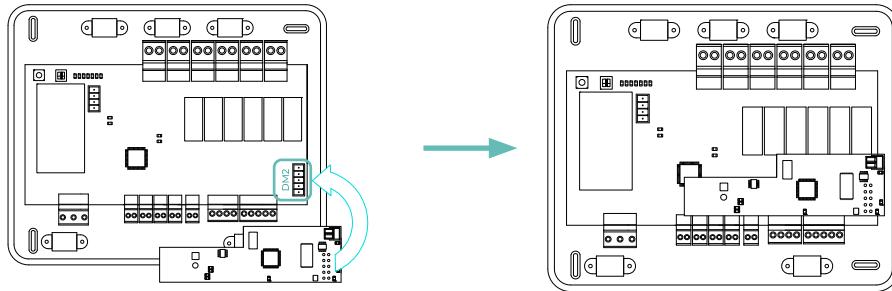
Automation bus (DM1)

The outdoor domotic bus allows several systems to be interconnected in order to manage all of them, using the control peripherals offered by Airzone or their integration into a higher-level control network.

To connect to the bus, there is one 5-pin terminal.This system only uses bus connections. Fix the cables with the screws on the terminal, following the color code.

A	Blue
−	Black
B	Green
+	Red
⏚	Shield
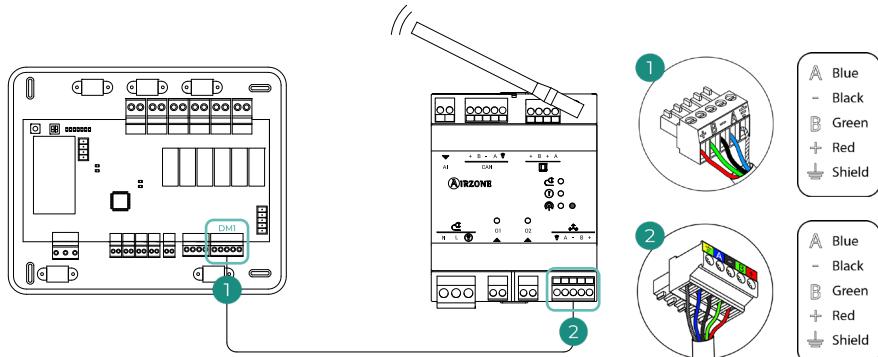
Note: Remember that, for this main control board to work correctly, all the main control boards in the installation must be addressed (up to 32 systems) (see System advanced settings section).

Integration bus (INT)

To connect to the bus, there is one 4-pin terminal for integration. Only available in configurations without webserver.

A	Blue
−	Black
B	Green
+	Red
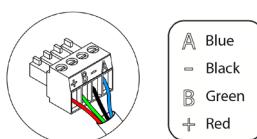
Digital inputs

The production control board is equipped with 4 digital inputs for external control of Airzone systems. These inputs are configured as normally open. For connection, the use of shielded cable is recommended.

- **DHW:** This input activates the DHW mode, whereby all systems that are working in air heating will stop and display the DHW message on the zone thermostats. This function is recommended for air to water installations when the air to water unit starts to produce DHW for the production of heating and air conditioning.
- **Heating:** This input activates the semi-forced heating mode in all the systems in the installation. It allows the selection of the modes: Stop, Heating and Ventilation.
- **Cooling:** This input activates the semi-forced cooling mode in all the systems in the installation. It allows the selection of the modes: Stop, Cooling, Dry and Ventilation.
- **Stop:** This input activates the Stop mode in all the systems in the installation.

Power supply (N L ⏚)

This connector supplies power to the production control board and consequently to the elements connected to it. External power supply at 110/230 VAC.

The power connection to the module is via a 3-pin terminal. Fix the cables with the screws on the terminal, following the color code.

The connection to the external power supply must include a main switch or other method of disconnection that includes a constant separation for all polarities, in accordance with appropriate local and national regulations. The system will automatically restart if the power supply is turned off. **Use separate circuits for the unit that is to be controlled and the power supply to the system.**

Once all the connections have been made, make sure the cover of the main control board is correctly replaced.
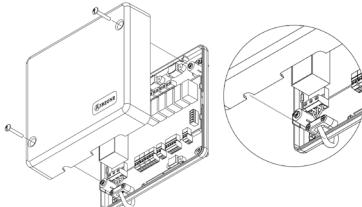
Airzone KNX integration gateway (AZX6KNXGTWAY)

For further information, see the [technical datasheet](#).

Assembly

This gateway is DIN rail mounted. It is powered by the main control board automation bus and the installation's KNX bus. The location and assembly of this module must comply with current electronic regulations.

Note: To remove the module, pull the tab downwards to release it.
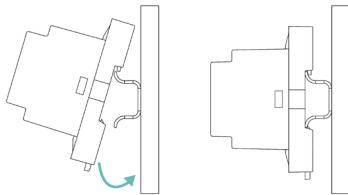
Connection

No.	Description
1	Automation bus
2	KNX bus
3	Programming

Automation bus

The Airzone-KNX integration gateway is connected to the automation bus on the main control board. To do this, there is one 5-pin terminal. Fix the cables with the screws on the terminal, following the color code.

A	Blue
−	Black
B	Green
+	Red
⏚	Shield
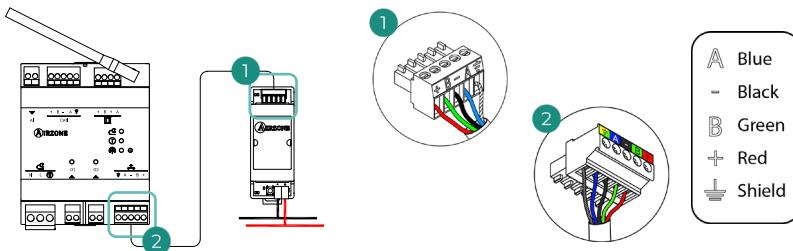
Important: Follow the polarity of the KNX bus: "-" pole black cable; "+" pole red cable.

Configuration

To configure it, follow the steps described in the [KNX Installation Manual](#).

Single-phase/three-phase Wi-Fi electricity consumption meter (AZX8AC1MTW[1/3])

For further information, see the [technical datasheet](#).

Assembly

This device is DIN rail mounted. This module is externally powered at 220 VAC. The location and assembly of this module must comply with current electronic regulations.

Note: To remove the module, pull the tab downwards to release it.
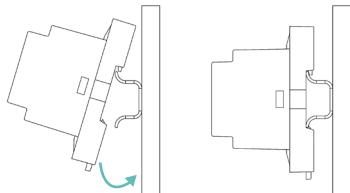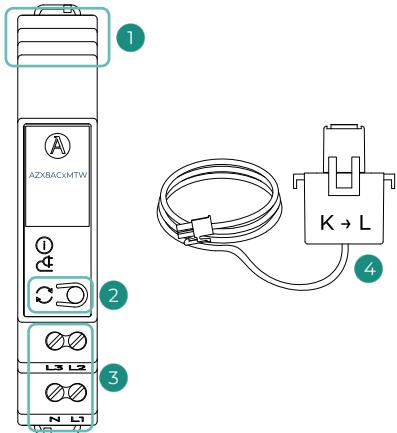
Connection

N°	Description
1	Ix: Signal inputs
2	Reboot / Reset
3	Lx - N: Power supply
4	Clamp for electricity consumption measurement (AZX8ACCMTWC)

Measurement clamp connection

Connect a measuring clamp to each signal input. To measure the consumption of a single unit, connect the clamp to phase 1 (I1).

Note: Place each measuring clamp around a single phase line, checking that the clamp orientation is correct.
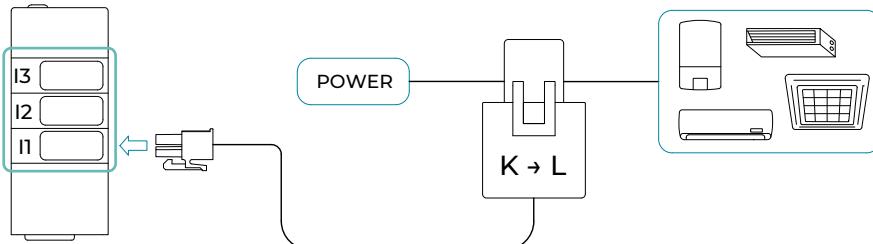
Power supply

The power connection to the module will depend on the network to which it will be connected (single-phase o three-phase):

Single-phase
power supply

Three-phase
power supply

- Single-phase power supply: the meter will always be powered through lines 1 and Neutral.
- Three-phase power supply: the meter will always be powered through lines 1, 2, 3 and Neutral.

Fix the cables with the screws on the terminal, following the polarity.

N Neutral
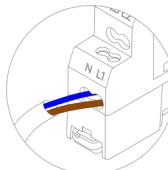
L Phase
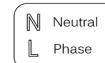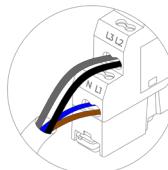
Reboot

To reboot the device, briefly press the button ↻.

Factory reset

If you need to reset the consumption meter to factory settings, press and hold the button ↻ for 10 seconds. Wait for the LED to return to their normal status and then repeat the initial configuration.

Checking the Installation

Check the following items:

1. Status of the main control board LED. Consult the Self-diagnostics section on the technical datasheet.
2. LED status of the control elements connected. Consult the Self-diagnostics section on each element's technical datasheet.
3. Power supply to wired and wireless thermostats.
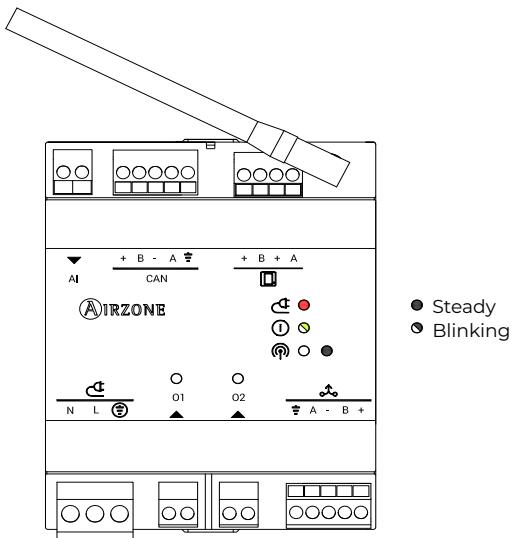
● Steady
◐ Blinking

LED	Meaning	Status	Color
	Power supply to main control board	Steady	Red
	Correct operation	Blinking	Green
	Communication error	Blinking	Red
	Association channel active	Steady	Red
O1/O2	Relay activated	Blinking	Green

Initial Configuration

AIRZONE BLUEFACE ZERO

1

🏳 **Lang./Country**

Choose your language

English

Choose location

España

Confirm

Languages:
- Spanish
- English
- French
- Italian
- Portuguese
- German

2

🔧 **Zone address**

Select zone address

∧
1
∨

Confirm

Select the zone associated to this thermostat.

3

🔧 **Thermostat settings**

Select settings

Master

Zone

Confirm

Master: Allows the control of all installation parameters.
Zone: Only allows the control of the zone parameters.

4

🔧 **Associated outputs**

Select associated outputs

1 **2** **3**
4 **5** **6**
    7 **8**

Confirm

The system allows you to associate more than one control output to a zone if needed. It is therefore possible to manage several control outputs from a single thermostat. By default, the first free output will be selected. If no output is selected, the warning "Zone without associated outputs" will be displayed upon confirmation, allowing you to go back.

5

🔧 **Control stages**

❄ ☼

🌫 Radiant ◗

Confirm

Stages to be controlled:
- Radiant

6

🔧 **Others settings**

Access Airzone Cloud > Setup Wizard for advanced settings

[QR code]

Basic function   Off ◗

End

Finish the process. Access the setup Wizard for advanced settings from Airzone Cloud and/or activate the basic function (the latter allows on/off, speed setting, operation mode setting and temperature setting).

AIRZONE THINK

1 Language/Country

Choose your language

ENGLISH

Country

Spain

Confirm

2
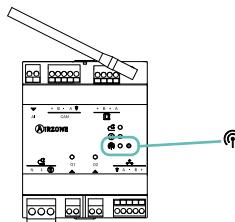
Languages:
- Spanish
- English
- French
- Italian
- Portuguese
- German

Wireless Think

Open the wireless association channel. To do so, click 📶. Once opened, you have 15 minutes to perform the association. You can also open the wireless association channel through the Blueface Zero thermostats.

IMPORTANT: Remember not to have more than one channel open in the same installation at the same time.

3 Setting Wireless device

Verify the wireless association module is open.

Press to start

Start the search for the wireless channel.

Setting Wireless device

Range

99

Confirm

Check that the signal range is optimal (minimum 30%).

4 Zone address

Select Zone address

1 +
-

Confirm

Select the zone associated to this thermostat.

5

Setting Thermostat

Select Setting

MASTER

Confirm

Master: Allows the control of all installation parameters.

Zone: Only allows the control of the zone parameters.

6
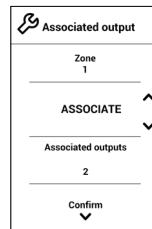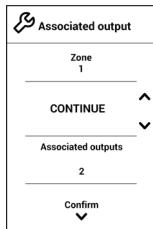
Associated output

Zone
1

CONTINUE

Associated outputs
2

Confirm

Associated output

Zone
1

ASSOCIATE

Associated outputs
2

Confirm

The system allows you to associate more than one control output to a zone if needed. It is therefore possible to manage several control outputs from a single thermostat. By default, the first free output will be selected. If no output is selected, the warning "Zone without associated outputs" will be displayed upon confirmation, allowing you to go back.

7

Setting Control stages

Heat   Cool >

AIR

Confirm

Stages to be controlled:
• Radiant

8

Other settings

Do you want to change other settings?

Advanced >

Basic

Off >

End

Finish the process. Access the setup Wizard for advanced settings from Airzone Cloud and/or activate the basic function (the latter allows on/off, speed setting, operation mode setting and temperature setting).

AIRZONE LITE

1

2
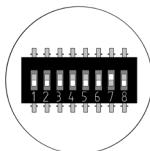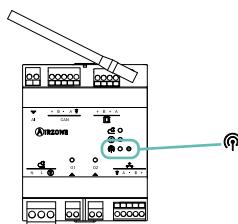
Select the zone associated to this thermostat by raising the microswitch corresponding to the zone.

Wired Lite
Go to step 3.

Wireless Lite
Open the wireless association channel. To do so, click 📶. Once opened, you have 15 minutes to perform the association. You can also open the wireless association channel through the Blueface Zero thermostats.

IMPORTANT: Remember not to have more than one channel open in the same installation at the same time.

3 Select other control outputs associated to the zone if necessary. This association must be carried out from the configuration wizard (through Airzone Cloud).

4 If you want to configure other thermostat settings you must access the zone advanced settings menu from an Airzone Blueface Zero thermostat.

The icon ⭕ will blink 5 times in green to indicate that the association is correct. If the icon blinks once in red, this indicates that the zone is occupied, and if it blinks twice in red, it means that the thermostat is not in signal range.

Remember: Should it be necessary to change the zone number, first reset the thermostat and initiate the association sequence.

CHECKING THE INITIAL CONFIGURATION

Check the following items:

1. **AC unit-system communication:** Set the Airzone system to an operation mode other than Stop and turn on the zone to generate demand.
2. **Opening/Closing of the dampers and/or control outputs:** Turn on and generate demand in all the zones. Then turn each zone off and on to check that the associated control outputs are correct.

SYSTEM RESET

If you need to return the system to factory settings, press the 📶 button until its **LED** stops blinking. Wait for the LED to return to their normal status and then repeat the initial configuration.
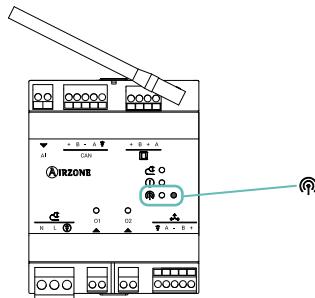
ZONE RESET

For Blueface Zero and Think thermostats, follow the steps indicated in the Advanced settings menu, Zone parameters.

For Lite thermostats, lower the zone microswitch and replace the thermostat in its base. The ⏻ icon will blink twice in green confirming that the reset has been completed.

System Advanced Settings

AIRZONE BLUEFACE ZERO

Press and hold

AIRZONE THINK

Press and hold

Press and hold
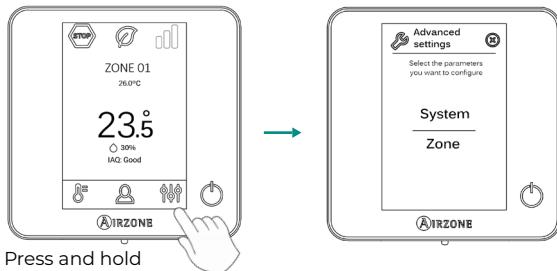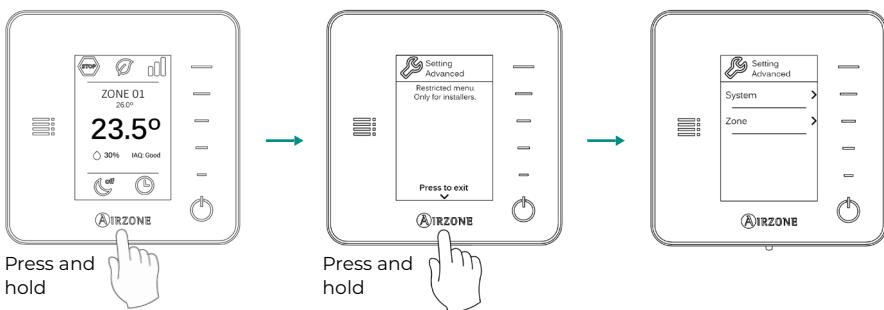
AIRZONE CLOUD

Advanced system configuration can be performed from the Airzone Cloud application (see Airtools section of the Digital Support).

The following parameters can be configured:

- System parameters
- Zone parameters
- Production parameters
- Bluetooth programming*

In case there is no webserver available, you can perform programming through Bluetooth (see section Airtools - Bluetooth Programming).

SYSTEM PARAMETERS

System

- **System address.** *(Not available on systems with Webserver configured as BACnet) (Only available via Bluetooth from the main control board)* This allows you to define the number of the system in your installation. By default, it displays the value 1. The system will show the free address values with a maximum value of 99.

  If you have address 1 and have an Airzone production control board (AZX6CCPGAWI) in the installation, you can use the Supermaster function, which imposes the operation mode of system 1 on the other systems connected to the AZX6CCPGAWI in a semi-forced way:

Modo de funcionamiento del Sistema 1	Modos de funcionamiento disponibles del resto de Sistemas
(STOP)	(STOP)
❄	(STOP) � ❄ ☷
☷	(STOP) ✧ ❄ ☷
☀	(STOP) ✧ ☀
✧	(STOP) ✧

- **Radio channel.** This allows you to enable/disable the system's wireless association channel. If an AZCE8CM1VLAR module is connected, its association channel will also be opened.

- **Condensation protection[1].** *(Only ın installations with AZCE8CM1VALC modules with cooling radiant controles zones)* Enables to select the protection level* against condensation: Very high, high, medium (by default), low and very low. If necessary, it can be activated for 1h.

  *Note: In Very Low configuration, the humidifier (If one is installed) will be automatically activated if the relative humidity level is higher than 55% in any active zone.

- **Humidity control[1].** *(Only available in installations with AZCE8CM1DRY modules) Allows you to set a maximum humidity value* for all zones (default 50%) in steps of 5%.*

  *Note: The dehumidifier will automatically activate whenever the maximum humidity limit, plus 5%, of any active zone is exceeded. It will be deactivated when: no zone is above this value minus 5%, there are no active zones or it is switched to Stop mode.

[1] *Parameters not available in Airzone Blueface Zero thermostats*

- **Forced mode change[1].** *(Only available in installations with AZCE8CM1VALC modules)* Imposes the operation mode of the system according to the working mode of the centralized water production, detected through the digital input of the module. The options available are:

    ◊ Disabled (by default)
    ◊ Open: Forced heating. Closed: Forced cooling
    ◊ Open: Forced cooling. Closed: Forced heating

    While forced mode change is enabled, it is possible to change the operation mode of the system, provided that it is compatible with the mode imposed by the production:

    ◊ Semi-forced cooling mode: can be changed to Stop mode.
    ◊ Semi-forced heating mode: can be changed to Stop mode.

    In installations with AZX6CCPGAWI, forced mode inputs will have priority over this function.

- **Automatic mode change according to supply temperature*[1].** *(Only available in installations with AZCE8CM1VALC modules and with a temperature probe)* Imposes the operation mode of the system according to the supply temperature measured by the temperature probe of the module. The temperature limits that will determine the mode change must be configured:

    ◊ Cooling supply temperature: Value below which cooling mode will be imposed on the system. Range available: 10 - 21°C (by default, 18°C).
    ◊ Heating supply temperature: Value above which heating mode will be imposed on the system. Range available: 33 - 45°C (by default, 30°C).

    While automatic mode change is enabled, it is possible to change the operation mode of the system, provided that it is compatible with the mode imposed by the temperature probe reading:

    ◊ Semi-forced cooling mode: can be changed to Stop mode.
    ◊ Semi-forced heating mode: can be changed to Stop mode.

    In installations with AZX6CCPGAWI, forced mode inputs will have priority over this function.

    *Note: The "Forced mode change" parameter must be set to "Disabled".

- **Automatic time change[1].** *(Only for installations with Webserver)* Allows you to update the system time automatically. This parameter is disabled by default.

[1] *Parameters not available in Airzone Blueface Zero thermostats*

- **Filter maintenance warning[1].** *(Only for Airzone Cloud) It is used to enable or disable the warning, edit hours of operation or reset the filter maintenance count.*

- **Centralized controller[1].** Enables bi-directional communication of all parameters of the AC unit with the Airzone system. By default, it will be disabled.

Stages[1]

- **Cooling mode.** Allows you to select the minimum temperature for cooling mode (18 - 26°C), in steps of 1°C. By default, the minimum cooling temperature is set at 18°C.

- **Combined cooling mode.** Allows you to enable the combined cooling stage.

- **Heating mode.** Allows you to select the maximum temperature for heating mode (19 - 30°C), in steps of 1°C. By default, the maximum heating temperature is set at 30°C.

- **Combined heating mode.** Allows you to enable the combined heating stage.

Basic mode

- **Basic mode.** Allows you to configure which parameters you want to display or control when selecting "Basic mode" as the thermostat use mode. The configuration options available are:

  - ◊ **Zone information:** displays/hides information related to the room temperature and humidity on both the main screen and the screensaver.
  - ◊ **Mode switching:** enables/disables the change of the operation mode.

Input/Output

- **Output O1.** This allows you to change the operation logic of the relay depending on the main control board version.

  The configuration options available are as follows:

  - ◊ High temp. circuit demand
  - ◊ DHW (On/Off control visible from Airzone Cloud)
  - ◊ CMV (On/Off control visible from Airzone Cloud)
  - ◊ Manual control (On/Off control visible from Airzone Cloud)

  If the output is configured as "High temp. circuit demand," stage selection is enabled to activate relay O1 of the main control board. The available activation options are:

  - ◊ Radiators

[1] *Parameters not available in Airzone Blueface Zero thermostats*

- **Output O2.** This allows you to change the operation logic of the relay depending on the main control board version.

    The configuration options available are as follows:

    ◊ Low temp. circuit demand
    ◊ DHW (On/Off control visible from Airzone Cloud)
    ◊ CMV (On/Off control visible from Airzone Cloud)
    ◊ Manual control (On/Off control visible from Airzone Cloud)

    If the output is configured as "Low temp. circuit demand," stage selection is enabled to activate relay O2 of the main control board. The available activation options are:

    ◊ Floor
    ◊ Radiators*

    Note: This option is only available if Output O1 activation (when the operating logic is set to "High temp. circuit demand") is configured as "Air."

- **Activation delay.** Allows you to select a delay time for the activation of the main control board's relays, from 0 to 7 minutes. The default setting is 3 minutes.

Heating mode phases[1]

- **Heating mode phases.** *(Only for Airzone Cloud)* This allows you to define the phases that act in the Heating Mode stages in order to carry out different combinations according to the needs of the system. The following phases are available:

    ◊ **"Heating" phase:** This allows you to initiate the combined stage by configuring the activation/deactivation of the following parameters:

        » **Radiator supply:** *(Only available if there are radiators in any of the zones)* This enables the configuration of a temperature differential with respect to the set point temperature that marks the deactivation of the combined stage. It will be available when there are radiators in any zone. By default 0.5°C.

Thermostat

- **Information.** This allows you to display information about:

    ◊ **Zone:** firmware, zone, association or communications status.
    ◊ **System:** firmware, settings and information on system and installation controllers.
    ◊ **Devices:** indicates the elements connected to the system.
    ◊ **Webserver:** firmware, IP address, gateway, MAC and PIN.

- **Reset system.** *(Only available for Airzone Blueface Zero master thermostats)* This allows you to reset the system by returning it to factory settings. To reconfigure the thermostats, go to the "Initial configuration" section.

[1] *Parámetros no disponibles en el termostato Airzone Blueface Zero*

ZONE PARAMETERS

HVAC

- **Basic mode.** This allows you to configure the thermostat for the system's different zones in Basic or Advanced mode. By default, it is set to Advanced. The parameters that can be controlled in Basic mode are:

  ◊ On/Off
  ◊ Set point temperature
  ◊ Operation mode (only if this is the master thermostat)

  If a Lite thermostat is configured in Basic mode, no type of control will be permitted, acting only as a zone temperature probe. You can control this zone from Blueface Zero or Airzone Cloud.

  If you need to reset the thermostat to Advanced mode, access the Advanced settings menu and activate Advanced use mode.

- **Master*.** This allows you to set up a thermostat as Master or Zone.

  *Note: It cannot be configured as Master if there is already another thermostat configured as such.

- **Output configuration.** *(Only for Airzone Cloud)* This displays and allows you to select the control outputs associated to the thermostat.

- **Thermostat offset.** This allows you to correct the room temperature measured in the different zones or in all of them, due to deviations produced by sources of heat/cold nearby, with a correction factor between - 2.5 °C and 2.5 °C in steps of 0.5 °C. By default, it is set to 0 °C.

Thermostat

- **Control stages.** This allows you to configure the heating and cooling stages in the selected zone or all zones in the system. The options to configure are:

  ◊ **Air:** enables heating/cooling by air in the zone selected.
  ◊ **Radiant:** enables radiant heating/cooling in the zone selected.
  ◊ **Combined:** enables air and radiant heating/cooling in the selected zone and allows the user to select the stage desired in that zone: Air, Radiant or Combined (see Zone settings section on the Blueface Zero thermostat, Stages).
  ◊ **Off:** disables the heating/cooling stage in the zone selected.

- **Reset thermostat.** *(Not available in remote zones)* This allows you to reset the thermostat by returning to the initial settings menu.

IAQ[1]

Only for Airzone Cloud and installations with AZX6AIQSNSB.

- **Controlled mechanical ventilation.** Allows you to control a ventilation unit through the relay or the 0-10 V output. It is enabled by default.

  ◊ **Steady ventilation*.** Allows you to act on the ventilation in the zone, regardless of whether it is in demand or not. If this parameter is enabled and the IAQ in the zone is "Good", ventilation will remain activated according to the value defined in Vmin. If it is disabled and the IAQ in the zone is "Good", ventilation will stop.

  ◊ **Vmin/Vmax*** Allows you to define the minimum and maximum voltage values for the 0-10 V output.

  *Note: This option will be visible provided that the "Controlled mechanical ventilation" parameter is enabled.

- **Humidity control*.** Allows you to activate the ventilation unit if the humidity limits established in the *Variables* section are exceeded. This is disabled by default.

  ◊ **High humidity.** Ventilation will only be activated if the humidity value is above the upper limit of the range defined as "Good". This is disabled by default.

  ◊ **Low humidity.** Ventilation will only be activated if the humidity value is below the lower limit of the range defined as "Good". This is enabled by default.

  *Note: This option will be visible provided that the "Controlled mechanical ventilation" parameter is enabled.

- **Variables.** Allows you to define the ranges and weights of the different variables available for the calculation of the IAQ index.

  ◊ **Ranges.** Allows you to configure the "Good/Medium/Low" status limits for each variable according to the user's criteria.

  ◊ **Weighting.** Allows you to select the weight of each variable in the calculation of the Indoor Air Quality index. The weight is selected in a drop-down menu with 10 % intervals from 0 % to 100 %. If a weight of 0 % is selected, the variable will not be taken into account in the calculation of the IAQ index. The default values are:

    » Temperature (Tª): Weight assigned by default 0 %.
    » Relative humidity (RH): Weight assigned by default 0 %.
    » CO_2 levels (CO_2): Weight assigned by default 80 %.
    » Particles measuring less than 2.5 μm in diameter ($PM_{2.5}$): Weight assigned by default 30 %.
    » Particles measuring less than 10 μm in diameter (PM_{10}): Weight assigned by default 30 %.
    » Volatile organic compounds (TVOC): Weight assigned by default 20%.

  ◊ **Reset to default values.** Resets the default range and weight configuration.

[1] *Parameters not available in Airzone Blueface Zero thermostats*

PRODUCTION PARAMETERS

Parameters available in installations with AZX6CCPGAWI. Control from Airzone Cloud.

- **Installation type.** This allows you to configure the operation logic of the control relays of the CCP:

    ◊ Air-to-Water Heat Pump (by default)
    ◊ 2 pipes
    ◊ 4 pipes
    ◊ RadianT

- **Activation delay.** This allows you to set a delay time in the power on of the production unit, configurable in minutes, from 0 to 7 minutes. The default setting is 3 minutes.

- **Water outlet temperatures.** *(Only in installations with AZX8GAWXXX gateways)* This allows you to set the water outlet temperatures for the heating and cooling modes of the aerothermal unit. Selectable values depends on each particular aerothermal unit. Default presets are:

    ◊ Air in cooling mode: 10 °C
    ◊ Radiant in cooling mode: 18 °C
    ◊ Air/Radiator in heating mode: 50 °C
    ◊ Radiant in heating mode: 35 °C

- **DHW function.** Allows you to configure the behavior of the system when there is production of DHW. By default it is enabled.

    ◊ Enabled: It does not allow air demand alongside DHW production.
    ◊ Disabled: It allows there to be air demand alongside DHW production.

- **Cooling mixing valve.** *(Only in installations with AZX8GAWXXX gateways)* Allows you to select the mode in which the dew point is calculated. Select "Auto" if you have mixing valves for cooling in your installation. It is set to "Manual" by default.

    ◊ **Manual:** Adjusts the dew point to 19 °C.
    ◊ **Auto:** Uses the cold water supply temperature to calculate the dew point.

Incidents

In the case of Airzone Blueface Zero and Think thermostats, a warning (i) will appear on the display screen.

WARNINGS

Anti-freezing. This is displayed if the function is enabled.

DHW. Domestic hot water activated. If your system integrates DHW management control in its production unit and this is activated, this message will appear on your Blueface Zero and the air conditioning in that zone will be suspended.

Active dew protection. It indicates there is a risk of condensation in the radiant stage and the air stage has been activated to avoid its creation.

Active dew. This alert warns of a risk of water condensation and the zone has been shut off, turning on the dehumidifier, if it has been installed. Only available in systems with radiant stages in cooling mode.

Dew protection Lite. *(Only in Blueface Zero thermostats)* It indicates there is a risk of condensation in the radiant stage and the air stage has been activated to avoid its creation in the Lite zone.

Dew Lite. *(Only in Blueface Zero thermostats)* It indicates there is a risk of condensation and the zone where the Lite thermostat is located has been turned off. Press the icon to know which zone is affected.

Humidity. *(Only in installations with module AZCE8CM1DRY)* This warning indicates that the maximum humidity has been exceeded in some zone and the dehumidifier has been activated.

Low battery. *(Only in Think wireless thermostats)* Low battery warning.

Battery Lite. *(Only in Blueface Zero thermostats)* Low battery warning. Informs about the involved zone when the icon is pressed.

Low valve battery. *(Only in installations with AZCE8CM1VALR modules)* Low battery warning for valve.

ERRORS

In the case of any of the following errors ⚠, please contact your installer:

Communication errors

1. Thermostat – Main control board
8. Lite thermostat – Main control board
10. BACnet gateway – Main control board
12. Webserver – Airzone system
13. Control module of radiant elements – Main control board
17. Lutron gateway – Airzone system
18. Dehumidifier module – Main control board
C-02. Production control board – Main control board
C-09. Air to water gateway – Production control board
C-11. Air to water gateway – Air to water unit
V01. AZCE8CM1VALR module – Main control board
V02. AZCE8CM1VALR module – AZX6AC1VALR head

Other errors

R05. Open circuit in Control module of radiant elements temperature probe
R06. Short circuit in Control module of radiant elements temperature probe

Purification errors

IAQ0. AirQ Sensor not detected
IAQ7. Loss of communication between the AirQ Sensor and the main control board

Lite errors

In the case of Airzone Lite thermostats, if the On/Off icon ⏻ blinks rapidly in red, it means communication with the main control board has been lost.

Error 1. Thermostat (Wired) - Main control board

This issue does not allow the zone to be controlled. Check whether the error appears on all thermostats; if it does, check that the main control board is operating properly. To resolve this issue, make the following checks:

1. Main control board status: Check that the power supply is correct.
2. Main control board status: Correct operation of the Airzone connection bus ⓘ LED.
3. Connections: Check that the polarity of the connections to the main control board and the thermostat is correct.
4. Wiring: Check that the voltage between poles (A/-) and (B/-) is 1.8 VDC.
5. Restart the zone and reassociate it to the system:
   • Blueface Zero thermostats: Press on the word Reset to restart the device. If the error persists, press and hold the icon and reset the thermostat. Carry out the initial configuration of the system.
   • Think thermostats: Press and hold on **AIRZONE** and perform the initial system configuration process.
6. Restart the system: If you restart the system, this error may appear on the thermostats due to the restart. This message should disappear in approximately 30 seconds once the restart has been completed.
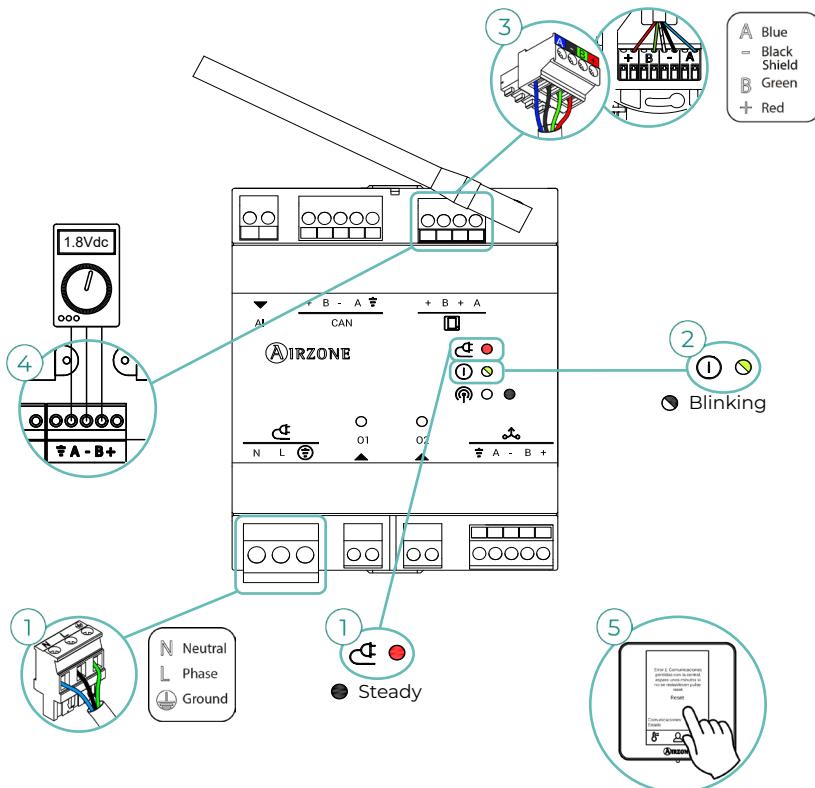
Error 1. Thermostat (Wireless) - Main control board

This issue does not allow the zone to be controlled. Check whether the error appears on all thermostats; if it does, check that the main control board is operating properly. To resolve this issue, make the following checks:

1. Thermostat status: Check the thermostat's signal range from the main control board by checking the Information parameter (see the section System advanced settings, System parameters), or by bringing the thermostat closer to the main control board. If it re-establishes communication, it will be necessary to relocate the thermostat because it was not in signal range.
2. Main control board status: Check that the power supply is correct.
3. Main control board status: Check the correct functioning of the wireless communication ⓘ LED.
4. Restart the zone and reassociate it to the system. To do this, press and hold on 🅰IRZONE and perform the initial system configuration process. Remember that, in order to associate wireless devices, you should first open the wireless association channel, either through the 📶 button on the main control board or from any thermostat in the Radio channel parameter of the System advanced settings menu, Zone parameters.
5. Restart the system: If you restart the system, this error may appear on the thermostats due to the restart. This message should disappear in approximately 30 seconds once the restart has been completed.


Blinking

Steady

ERROR 1

N Neutral
L Phase
Ground
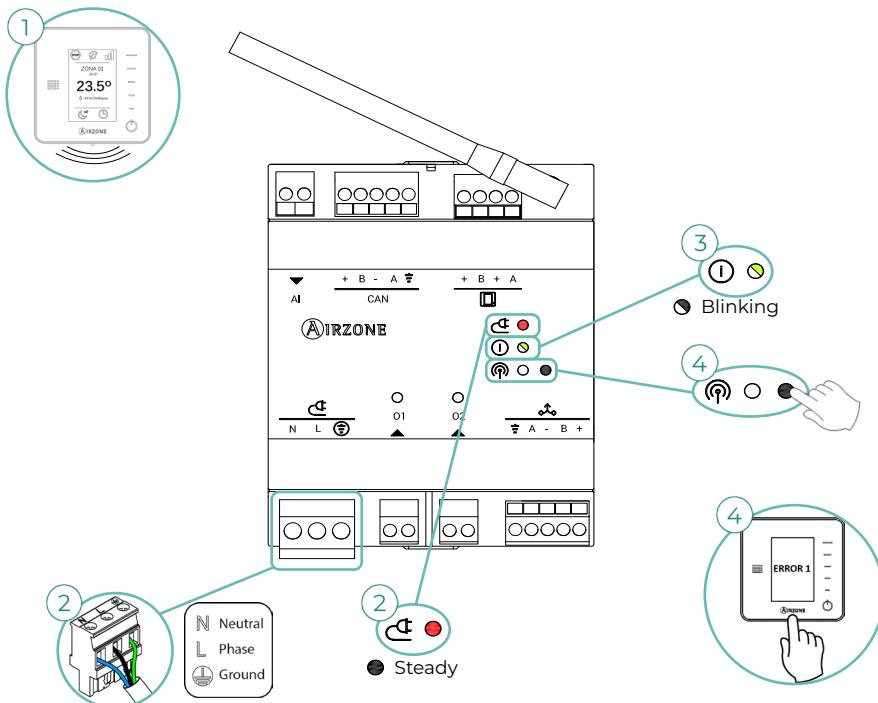
Error 8. Lite thermostat (Wired) - Main control board

The zone loses the room temperature measurement of an associated wired Lite thermostat, leaving the zone disabled and unable to generate demand. From your Blueface Zero thermostat, check whether the Lite thermostat has lost communications. To resolve this issue, make the following checks:

1. Connections: Check that the polarity of the connections to the main control board and the sensor is correct.
2. Wiring: Check that the voltage between poles (A/-) and (B/-) is 1.8 VDC.
3. Check whether the thermostat in question has the microswitch that corresponds to the associated zone selected. If not, activate it by pulling up the switch to the desired value.

Remember: Should it be necessary to change the zone number, first reset the thermostat and initiate the association sequence.
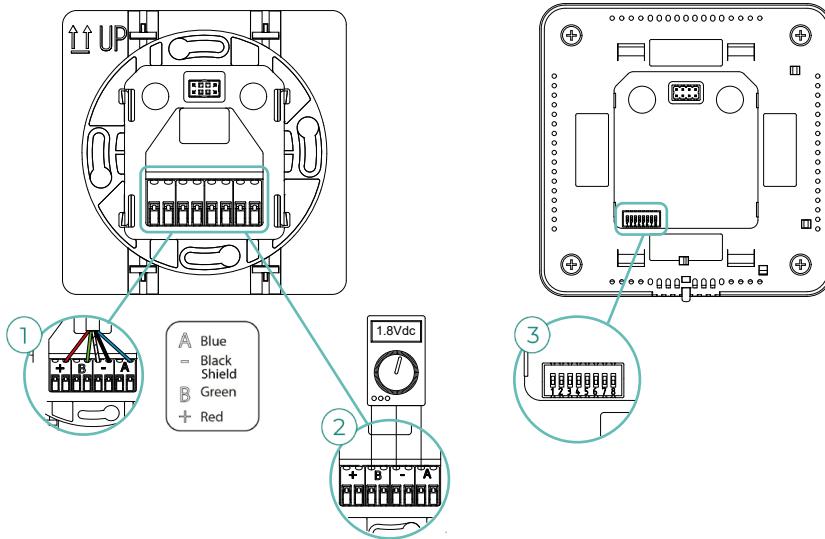
Error 8. Lite thermostat (Wireless) - Main control board

The zone loses the room temperature measurement of an associated wireless Lite thermostat, leaving the zone disabled and unable to generate demand. From your Blueface Zero thermostat, check whether the Lite thermostat has lost communications. To resolve this issue, make the following checks:

1. Power supply: Check the battery's status and, if in doubt, replace it with a new battery.
2. Check whether the Lite thermostat in question has the microswitch that corresponds to the associated zone selected. If not, activate it by pulling up the switch to the desired value. Remember that, in order to associate wireless devices, you should first open the wireless association channel, either through the SW1 button on the main control board or from any thermostat in the Radio channel parameter of the System advanced settings menu, Zone parameters.

Remember: Should it be necessary to change the zone number, first reset the thermostat and initiate the association sequence.
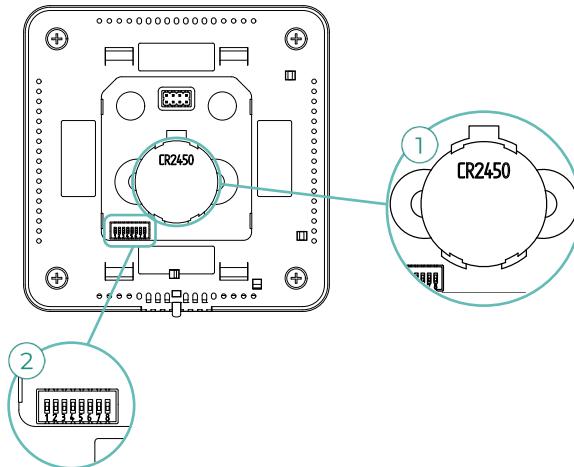
Error 10. BACnet gateway - Main control board

Webserver configured as BACnet

The system loses communication with the Webserver. Check that the Webserver is properly connected to the main control board's automation port ( ).
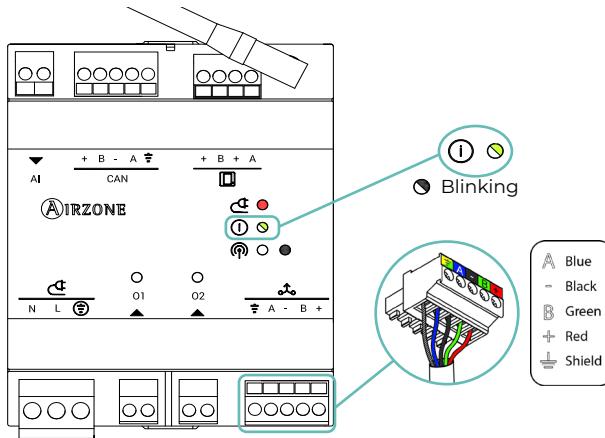
Error 12. Webserver - Airzone system

The system loses communication with the Webserver. To resolve this issue, make the following checks:

1. That the polarity of the Webserver connectors and the main control board's automation port is correct.
2. Check that the status of the Webserver's LED is correct. To do so, make use of your Webserver's self-diagnostics section or technical fact sheet.
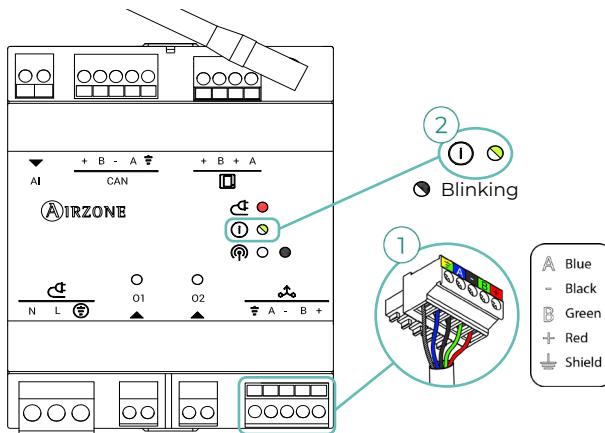
Error 13. Control module of radiant elements - Main control board

This issue does not allow the system to control the device. To resolve this issue, make the following checks:

1. Control module of radiant elements status: Check that the power supply is correct.
2. Control module of radiant elements and main control board status: Correct operation of the CAN bus ⓘ LED.
3. Connections: Check that the polarity of the connections to the main control board and the control module of radiant elements is correct.
4. Wiring: Check that the voltage between poles (A/-) and (B/-) is 1.8 VDC.

Blinking
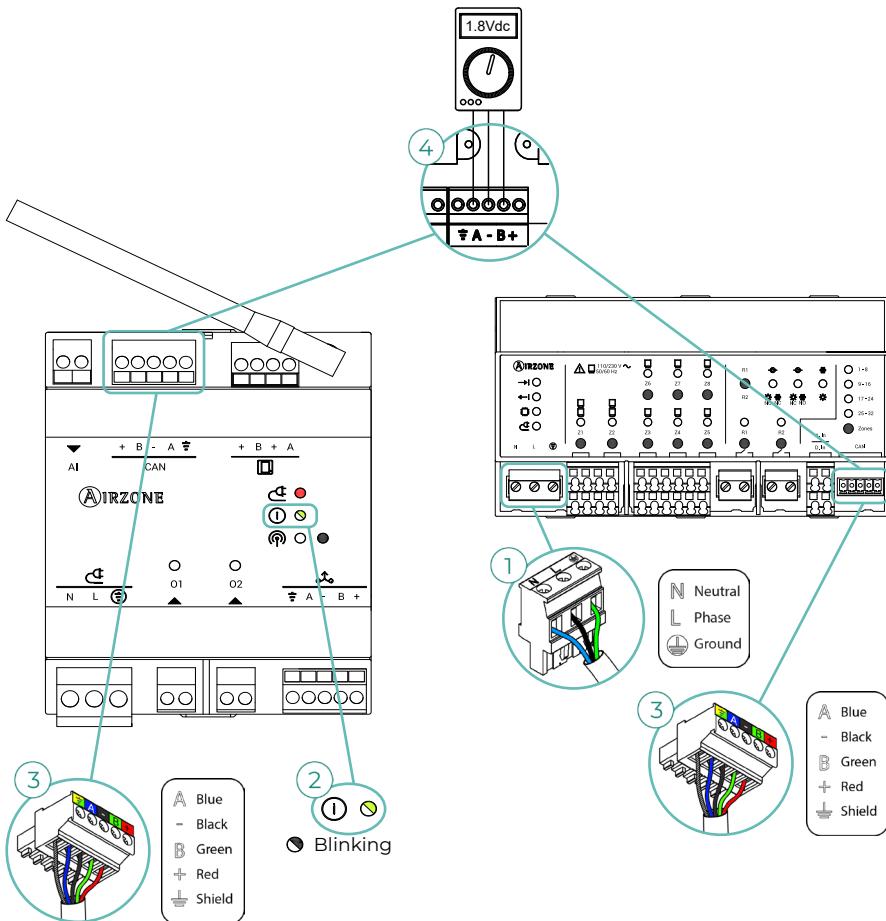
Error 17. Lutron gateway - Airzone system

Webserver configured as Lutron

The system loses communication with the Webserver. Check that the Webserver is properly connected to the main control board's automation port (⚛).
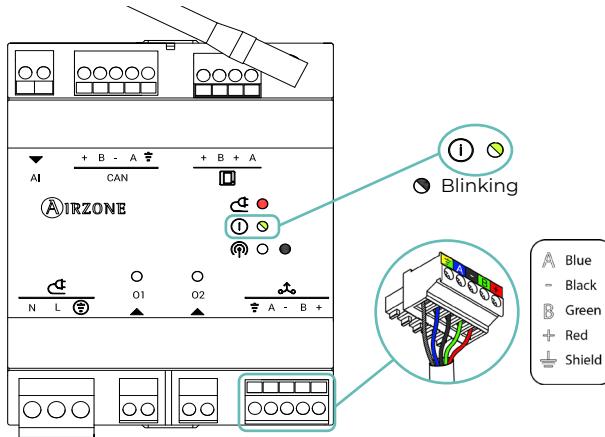
Error 18. Dehumidifier module - Main control board

This issue does not allow the system to control the device. To resolve this issue, make the following checks:

1. Dehumidifier module status: Check that the power supply is correct.
2. Dehumidifier module and main control board status: Correct operation of the CAN bus LED ($\bigcirc$).
3. Connection: Check that the polarity of the connections to the main control board and the dehumidifier module is correct.
4. Wiring: Check that the voltage between the poles (A/-) and (B/-) is about 0.65 VDC.
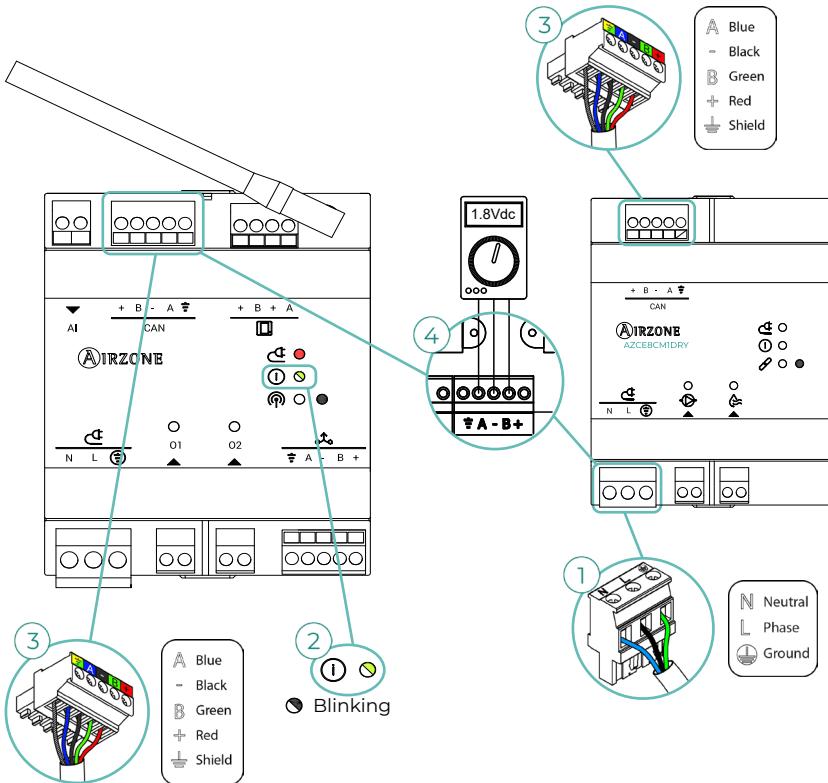
Error C-02. Production control board - Main control board

This issue does not allow the zone to be controlled. To resolve this issue, make the following checks:

1. CCP status: Check that the power supply is correct.
2. Status of the main control board: Check the correct functioning of the automation bus LED (Ⓘ).
3. Connections: Check that the polarity of the connections to the CCP and the main control board are correct.
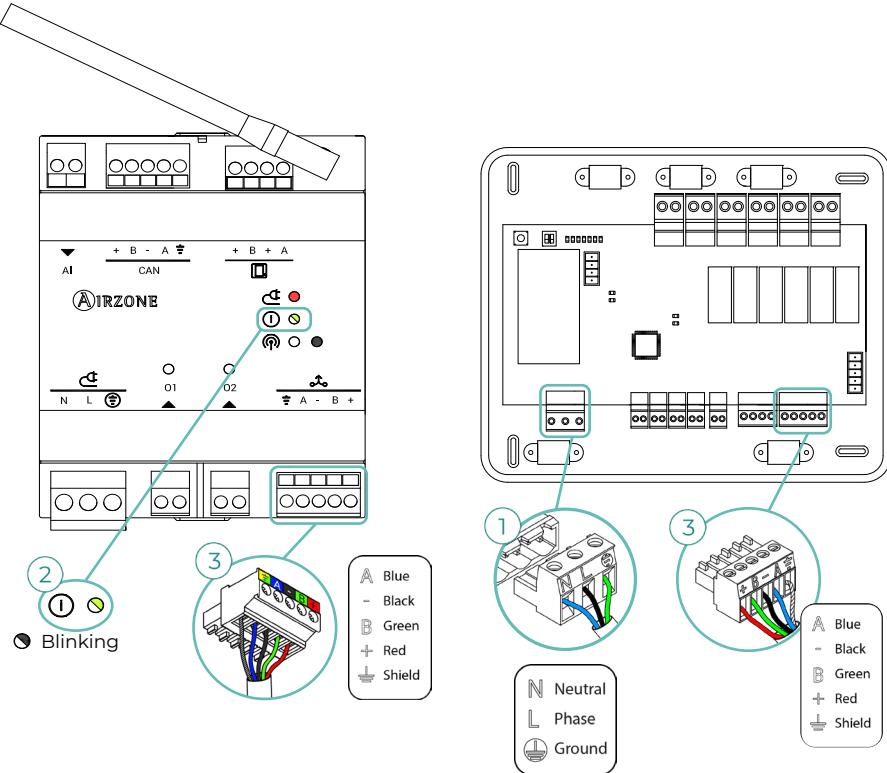
Error C-09. Air to water gateway - Production control board

The gateway loses communication with the air to water unit. Control of the system will be disabled, thus allowing the air to water unit to operate from the manufacturer's thermostat. To resolve this issue, make the following checks:

1. Check that the gateway is properly connected to the production control board's AC unit port.
2. Check that the status of the connected gateway's LED is correct. To do so, make use of the troubleshooting section or your gateway's technical fact sheet.
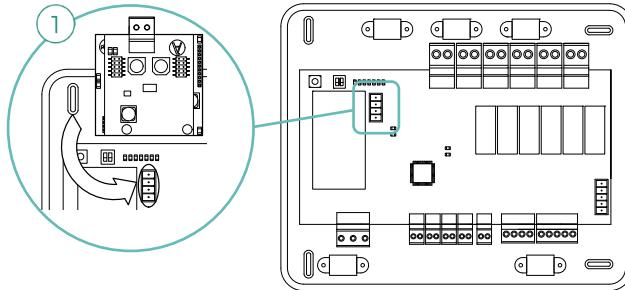
**Error C-011. Air to water gateway - Air to water unit**

The gateway loses communication with the air to water unit. Control of the system will be disabled, thus allowing the air to water unit to operate from the manufacturer's thermostat. To resolve this issue, check that the gateway is properly connected to the CCP's automation bus and the connection between it and the indoor unit. For more information on the connection between your gateway and the indoor unit, refer to your gateway's data sheet.
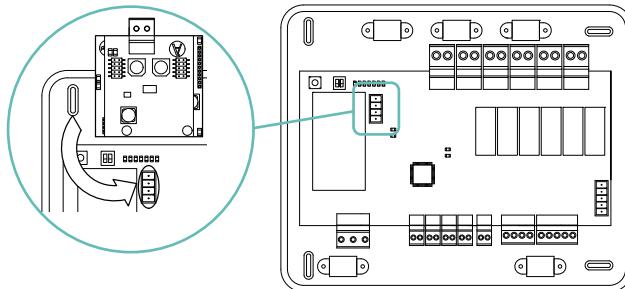
Error R05. Open circuit in Control module of radiant elements temperature probe

The system loses the temperature measurement of the radiant manifold. Proceed to replace it of the device or sent it for repair.

Error R06. Short circuit in Control module of radiant elements temperature probe

The system loses the temperature measurement of the radiant manifold. Proceed to replace it of the device or sent it for repair.

Error V01. AZCE8CM1VALR module - Main control board

This issue does not allow the system to control the device. To resolve this issue, make the following checks:

1. AZCE8CM1VALR module and main control board status: Correct operation of the CAN bus/ ⓘ LED.
2. Connection: Check that the polarity of the connections to the main control board and the module is correct.
3. Wiring: Check that the voltage between the poles (A/-) and (B/-) is about 1 VDC.
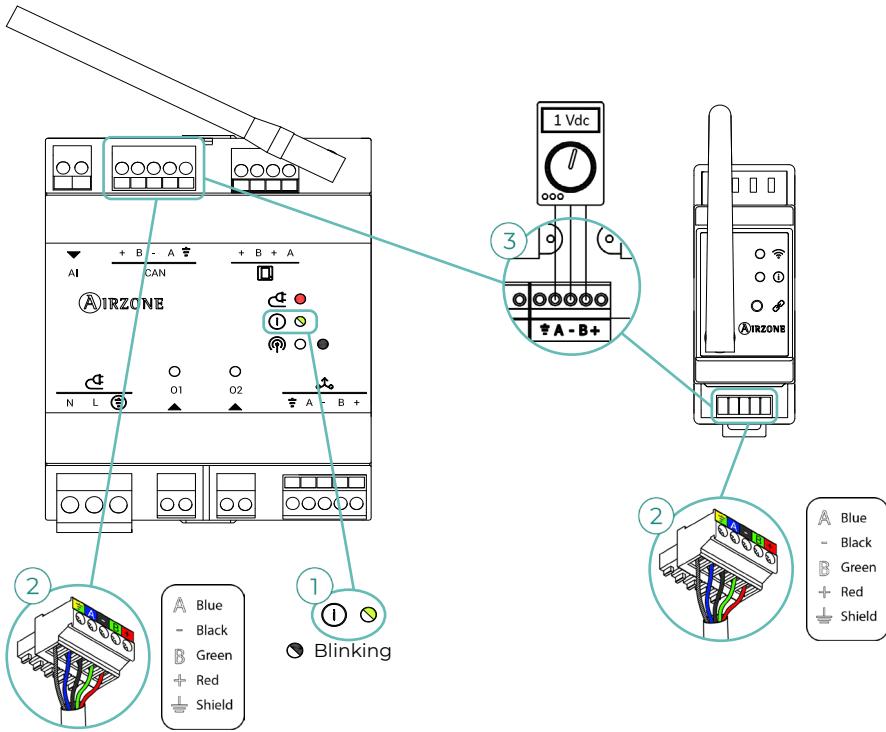
**Error V02. AZCE8CM1VALR module - AZX6AC1VALR head**

This issue does not allow the system to control the device. To resolve this issue, make the following checks:

1. Communication between AZCE8CM1VALR module and AZX6AC1VALR head.
2. Appropriate distance to ensure signal range between head and module. Maximum distance in open space: 40 m.

Error IAQ0. AirQ Sensor not detected

This warning indicates that the AirQ Sensor has not been detected and, therefore, Indoor Air Quality cannot be measured. Once an AirQ Sensor is connected, the error disappears.

Error IAQ7. Loss of communication between the AirQ Sensor and the main control board

This issue does not allow the system to control the device. To resolve this issue, make the following checks:

1. AirQ Sensor and main control board status: Correct operation of the CAN bus (①) LED.
2. Connection: Check that the polarity of the connections to the main control board and the AirQ Sensor is correct.
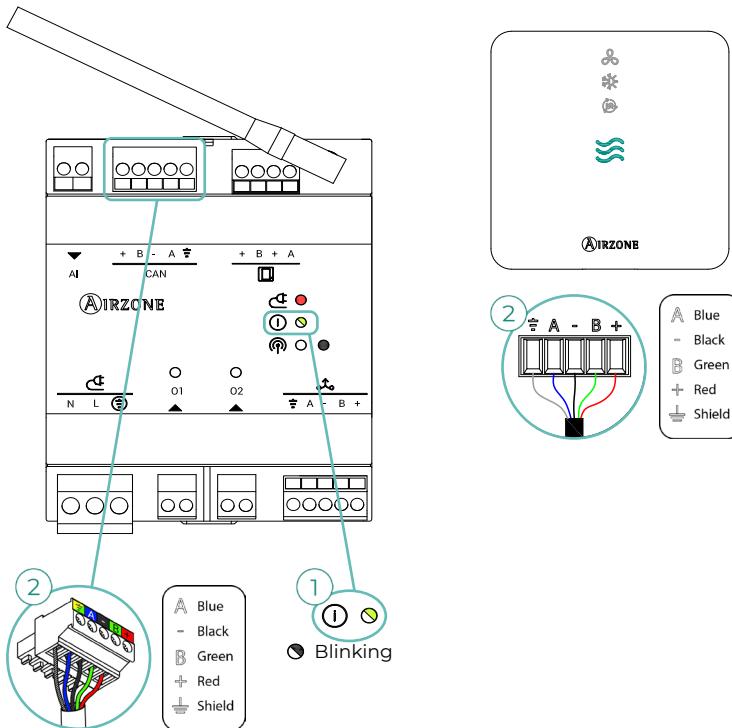
Navigation Trees

AIRZONE BLUEFACE ZERO

Screensaver

Zone name

Relative humidity

Zone status, warnings or errors

4:29
Wednesday 21 october
ZONE 01
26.0°
30%
IAQ: Good
Off

Time and date*

Room temperature

Indoor air quality

On/Off

Note: If the system has Webserver, weather information will also appear.

Main screen

Operation mode

Room temperature

Relative humidity

HVAC control

User settings

ZONE 01
26.0ºC
23.5°
30%
IAQ: Good

Eco-Adapt function

Zone navigation

Set-point temperature

Indoor air quality

On/Off

Zone settings
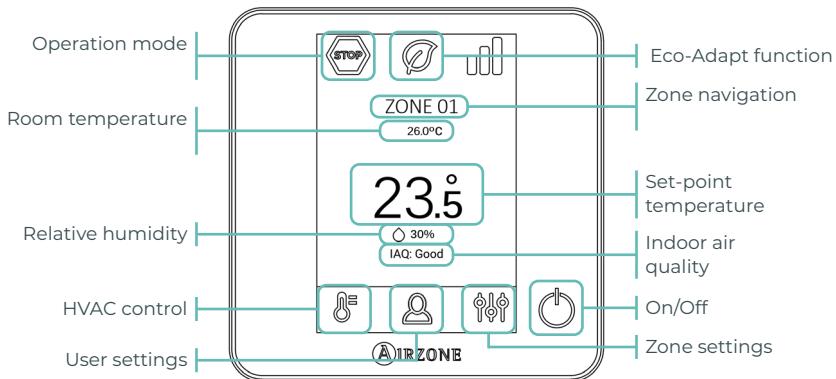
Screensaver

- Time and date*
- Current zone
- Room temp.*
- Relative humidity*
- Zone status
- Weather information

*Configurable values

↓ Touch any place on the screen

Main screen

Operation mode

❄ Cooling
☀ Heating
⬡ Stop

ECO-Adapt

🌿 Off
🌿 A
🌿 A+
🌿 A++

Current zone

Room temp.

Set point temp.

+ Temperature
- Temperature

Relative humidity

Indoor air quality

HVAC control

User settings

⚑ Lang./Country
💡 Brightness
ⓘ Information

Configuración de zona

🌙 Sleep mode
❄ Anti-freezing
❄ Control stages**
🔧 Lite settings

ON / OFF

↓ Press and hold on the zone settings Icon

Advanced settings

Zone

Thermostat settings
Control stages**
Use mode
Offset
Reset thermostat

System

System address**
Radio channel
Reset system
Reset Webserver
Relays settings
Basic mode config

** Available in function of the installation type and the system settings.

AIRZONE THINK

Screensaver

Date*	Wednesday 21/10/2015
Zone status	
	🌿 Off
	Control bar
	Press to start ⌄
Main screen/ confirm	AIRZONE
	On/Off
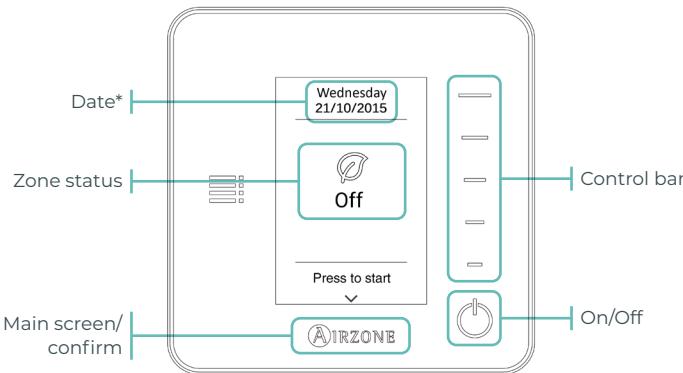
Note: If the system has Webserver, weather information will also appear.

Main screen

Access the main screen by pressing AIRZONE from the screensaver:

Operation mode	STOP 🌿 ‖‖
	Eco-Adapt function
Room temperature	ZONE 01
	26.0º
	Zone
Settings menu	
	23.5º
	Set-point temperature
Relative humidity	◇ 30% IAQ: Good
	Indoor air quality
Sleep mode	🌙off 🕐
	On/Off
	AIRZONE
	Time schedules
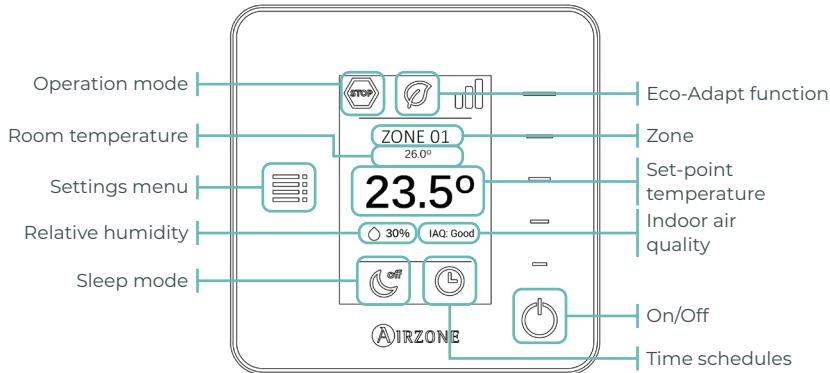
Screensaver

- Date*
- Current zone*
- Zone status
- Weather information*
- Airzone

*Depending on the devices connected

Press on AIRZONE

Main screen

Informative icons

Operation mode

❄ Cooling
☀ Heating
⬡ Stop

ECO-Adapt

Off
A
A+
A++

Current zone

Room temp.

Set point temp.

Sleep mode

Relative humidity

Indoor air quality

Time schedules

Capacitive buttons

Settings menu

Mode**
Sleep mode
Zone navigation

Control bar

ON / OFF

Airzone

Press and hold twice on AIRZONE

Advanced settings

Zone

Thermostat settings
Use mode
Control stages**
Offset
Reset thermostat

System

System address**
Temperature range
Relays settings
Radio channel
Information
Reset Webserver

** Available in function of the installation type and the system settings
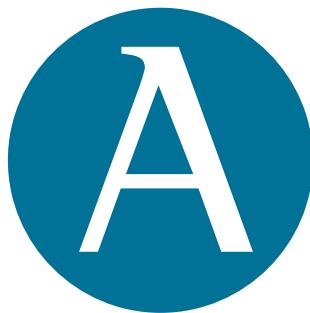
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