

Installation Manual Flexa 4.0





ΕN





Contents

ENVIRC	NMI	ENTAL POLICY	_8
BEFOR	E ST/	ARTING	_9
ELEME	NTS	AND INSTALLATION	_11
>	Air	zone Flexa 4.0 main control board (AZCE8CB1MOT)	_11
	>	Assembly	_11
	>	Connection	_11
>	Air	zone Flexa 4.0 main control board on DIN rail for radiant	
	hea	ting/cooling control (8z) (AZCE8CB1DIN)	_17
	>	Assembly	_17
	>	Connection	_17
>	Air	ם Box in-duct IAQ monitoring and controlling device (AZX6AIQBOXM)_	_21
	>	Elements	_21
	>	Assembly	_21
	>	Connection	_22
>	Air	ם Box in-duct IAQ controlling expansion module (AZX6AIQBOXS)	_23
	>	Elements	_23
	>	Assembly	_23
	>	Connection	_23
>	Air	ي indoor air quality Sensor (AZX6AIQSNSB)	_24
	>	Assembly	_24
	>	Connection	_24
>	Air	zone dehumidifier control module (AZCE8CM1DRY)	_25
	>	Assembly	_25
	>	Connection	_25
	>	Reset	_26
>	Air	zone control module for wireless valves VALR (AZCE8CM1VALR)	_27
	>	Assembly	_27
	>	Connection	_27
	>	Reset	_27
>	Air	zone wireless thermostatic valve actuator VALR for radiators	
	(AZ	X6AC1VALR)	_28
	>	Assembly	_28
	>	Connection	28

>	Airzone control module for wired valves 1	110/230V VALC
	(AZCE8CM1VALC)	29
	> Assembly	29
	> Connection	29
	Configuration	30
>	Airzone wired thermostatic valve actuato	or 110/230V VALC for
	radiant elements (AZX6AC1VALC)	31
	> Assembly	31
	> Connection	32
>	Wired thermostat	33
	> Elements	
	> Assembly	
	> Connection	
>	Wireless thermostats	34
	> Elements	34
	> Assembly	34
>	Webserver Airzone Cloud	35
	> Elements	35
	> Assembly	36
	> Connection	
>	Airzone hydronic production control boai	rd (AZX6CCPGAWI)40
	> Elements	40
	> Assembly	40
	> Connection	41
>	Airzone supermaster controller (AZX6CS	MASTER)45
	> Assembly	45
	> Connection	
>	Airzone KNX integration gateway (AZX6	KNXGTWAY)46
	> Elements	46
	> Assembly	46
	> Connection	46
>	Airzone control gateway 3 speed Fancoil	(AZX6FANCOILZ)47
	> Elements	47
	> Assembly	47
	> Connection	48
>	Airzone control gateway 0-10 V Fancoil (AZX6010V0LTSZ) 49
	> Elements	49
	> Assembly	49
	> Connection	50

>	Airzone control gateway electromechanical unit (AZX6ELECTROMEC)	51
	> Elements	51
	> Assembly	51
	> Connection	52
>	Clamp-on temperature probe (AZX6ACCTPA)	54
>	Temperature probe in sheath (AZX6SONDPROTEC)	54
>	Airzone consumption meter (AZX6ACCCON)	55
	> Assembly	55
	> Connection	55
	> Reset	55
SYSTE	M INSTALLATION	56
>	Control board Installation	56
	> AZCE8CB1MOT	56
	> AZCE8CB1DIN	56
>	Thermostat installation	57
>	Connecting the motorized elements	58
>	Connection to the indoor unit	58
	> Communications gateway option	58
	> Control gateway option	58
	> 01 port option	58
>	Other peripherals	59
>	Power supply to the system	59
CHECK	ING THE INSTALLATION	60
>	AZCE8CB1MOT	60
>	AZCE8CB1DIN	61
INITIA	_ CONFIGURATION	62
>	Airzone Blueface Zero	62
>	Airzone Think	63
>	Airzone Lite	65
>	Checking the initial configuration	66
>	System reset	66
>	Zone reset	66

SYSTEM	M ADVANCED SETTINGS	67
>	Airzone Blueface Zero	67
>	Airzone Think	67
>	Airzone Cloud	67
>	System parameters	68
>	Zone parameters	74
	> HVAC	74
	> IAQ	75
>	Production parameters	
INCIDE	NTS	77
>	Warnings	77
>	Errors	78
NAVIGA	ATION TREES	
>	Airzone Blueface Zero	93
	> Screensaver	93
	> Main screen	93
>	Airzone Think	95
	> Screensaver	95
	> Main screen	95

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 mm² twisted shielded wires for data communications and 2x0.5 mm² 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.
- The room size installation requirements mentioned in the manual of the ducted indoor unit, to which the Easyzone is connected, remain applicable to each and every separate room served by the Airzone unit.
- Ducts connected to Easyzone shall not contain a potential ignition source.
- 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.
 - 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

AIRZONE FLEXA 4.0 MAIN CONTROL BOARD (AZCE8CB1MOT)

For further information, see the technical datasheet.

Assembly

- Locate the control board close to the unit to be controlled.
- Unscrew the cover securing the back part to the wall. Minimum screw dimensions: Ø = 4.5 mm, L = 25 mm.
- 3. Make all the connections and screw the cover again.



Connection



Important: You will have the option of incorporating a zone On/Off control module (AZCE8ACCOFF) on the main control board.

For further information on the On/Off module, see the <u>technical datasheet</u>.



CAN

The CAN bus allows the different modules of the system to be connected to the main control board, enabling communication between them.

To connect the CAN bus, there is one 5-pin terminal. Use $2x0.5 + 2x0.22 \text{ mm}^2$ Airzone cable. Fix the cables with the screws on the terminal, following the color code.



AZ1 - AZ2 - AZ3

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.

To connect the Airzone connection bus, there are three 5-pin terminals. This system allows star and bus connection. Use $2x0.5 + 2x0.22 \text{ mm}^2$ Airzone cable. Fix the cables with the screws on the terminal, following the color code.

Important: For elements with external power supply at 110/230 VAC, it is only necessary to connect poles "A" and "B" of the bus for communications.



SW1

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 SW1; when LED D19 stays red it means that the radio channel is open. For 15 minutes, the system will keep the wireless association channel open.



DM1

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.

To connect the automation 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.



ιυ

The AC unit bus makes it possible to connect various control gateways (AZX8GTC / AZX6GTC / AZX6GADAPT3 / AZX6010VOLTSZ / AZX6FANCOILZ / AZX6ELECTROMEC) to the installed AC unit.

To connect the AC unit bus, there is one 4-pin terminal. The connection of these elements is point to point. Fix the cables with the screws on the terminal, following the color code.

Important: For elements with external power supply at 110/230 VAC, it is only necessary to connect poles "A", "B" and "Shield" of the communications bus. Only use the shield on the connector on the main control board side.



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



M1 ... M8

The 12 V outputs enable connecting the Airzone motorized elements in each zone so that they can be managed through the system's main control board, maximum 8 motorizations per control board, up to 2 motorizations per output.

+ Red - Black

For connecting the actuator outputs, it has eight 2-pin terminals. Fix the cables with the screws on the terminal, following the color code.

DII

(Main control board version equal to or later than 3.6.6)

This configurable digital input allows external sensors to be connected to the system to activate alarms via digital signals.

(Main control board version earlier than 3.6.6)

This input sets the Stop mode on the AC unit, closing all system dampers when an alarm warning is received and blocking the operation mode. This input is configured as normally closed. For proper system operation, this contact is shipped with a bridge from the factory.

All

Allows the return temperature of an AC unit to be measured by means of an external probe. The use of this probe is recommended when working with electromechanical or NON Inverter units, where the return temperature of the AC unit must be controlled.

02

(Main control board version equal to or later than 3.6.0)

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 \rightarrow System parameters).

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

Status	Stop	Ventilation	Air Cooling	Radiant Cooling	Air Heating	Radiant Heating	Radiator
Demand ON	OFF	OFF	OFF	ON	OFF	ON	OFF
Demand OFF	OFF	OFF	OFF	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).

(Main control board version earlier than 3.6.0)

This output can be configured for the control of controlled mechanical ventilation units (CMV) or for the management of a boiler (see Advanced settings section on the Blueface Zero thermostat \rightarrow System parameters).

CMV configuration

Status	Stop	Ventilation	Cooling	Air Heating	Radiant Heating
Demand ON	OFF	ON	ON	ON	ON
Demand OFF	OFF	ON	ON	ON	ON

Boiler configuration

Status	Stop	Ventilation	Cooling	Air Heating	Radiant Heating
Demand ON	OFF	OFF	OFF	OFF	ON
Demand OFF	OFF	OFF	OFF	OFF	OFF

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.

01

(Main control board version equal to or later than 3.6.0)

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

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

Status	Stop	Ventilation	Air Cooling	Radiant Cooling	Air Heating	Radiant Heating	Radiator
Demand ON	OFF	ON	ON	OFF	ON	OFF	ON
Demand OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

*If a communication gateway is connected to the main control board, the output type will be configured automatically as "Direct expansion" and the relay will not 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).

(Main control board version earlier than 3.6.0)

This output is designed for the Stop-Start of AC units, in the event that only this type of control is required. The operation logic of this output is as follows:

Status	Stop	Ventilation	Cooling	Air Heating	Radiant Heating
Demand ON	OFF	ON	ON	ON	OFF
Demand OFF	OFF	OFF	OFF	OFF	OFF

The technical characteristics of the OI 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.

NL÷

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. 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 FLEXA 4.0 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.

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





Mounted using DIN rail



Mounted on wall

Connection



CAN

The CAN bus allows the different modules of the system to be connected to the main control board, enabling communication between them.

To connect the CAN 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.



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.

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



Թ

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 (n) 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.





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.

To connect the automation 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.



02

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 \rightarrow 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.

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 \rightarrow 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 OI 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.

₫

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. 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.

01

AIRQ BOX IN-DUCT IAQ MONITORING AND CONTROLLING DEVICE (AZX6AIQBOXM)

For further information, see the technical datasheet.

Elements

N°	Description
1	Fixing frame
2	AZX6AIQBOXM
3	Spindles
4	Screws



Assembly

Important: This device is only compatible with the AZCE8CB1MOT main control board.

It is recommended to install the device in the initial section of the ventilation duct, near the HVAC unit, following the restrictions in the image. One AZX6AIQBOXM per system. It is externally powered at 110/230 VAC. It should be placed and mounted in accordance with the current electrotechnical regulations.



Follow the steps below to carry out the installation:

- 1. Mark the area where the AirQ Box will be placed using the fixing frame. Ensure that the arrows on the frame are in line with the direction of airflow.
- 2. Using a utility knife, cut the inner outline of the marked area.
- 3. Attach the fixing frame. It is recommended to seal the edges with aluminum adhesive tape to avoid leaks.
- 4. Secure the fixing frame by folding the tabs toward the inside of the duct.
- 5. Position the AirQ Box device on the fixing frame. Ensure that the arrows are in line with the direction of airflow.
- 6. Using the spindles supplied, fix the AirQ Box to the fixing frame in the positions defined for this purpose.
- 7. Secure the installation using the screws supplied.



Connection

Connect the AirQ Box to the CAN bus of the main control board. For this purpose, there is one 5-pin terminal. Use $2x0.5 + 2x0.22 \text{ mm}^2$ Airzone 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.

For the correct operation of this device the following is required:

- Main control board (AZCE8CB1MOT) version equal to or later than 3.6.5.
- Thermostat (AZCE6BLUEZEROC) version equal to or later than 3.6.3.
- Webserver (AZX6WSPHUB / AZX6WSC5GER) version equal to or later than 4.0.4.
- Airzone Cloud App version equal to or later than 4.13.

AIRQ BOX IN-DUCT IAQ CONTROLLING EXPANSION MODULE (AZX6AIQBOXS)

For further information, see the technical datasheet.

Elements

N°	Description	
1	Fixing frame	
2	AZX6AIQBOXS	
3	Spindles	
4	Screws	



Assembly

The expansion modules must be installed in the same section of the ventilation duct where the AZX6AIQBOXM is located, following the restrictions in the image. The AirQ Box installation can be expanded with up to four AZX6AIQBOXS. It is powered by the AZX6AIQBOXM. It should be placed and mounted in accordance with the current electrotechnical regulations.



To carry out the installation, follow the steps described for the AZX6AIQBOXM.

Connection

Connect the expansion modules to outputs IO3 - IO6 of the AirQ Box. For this purpose, there are two 4-pin terminals. Use 2x0.5 mm² Airzone cable. Fix the cables with the screws on the terminal, following the color code.



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.

The AirQ Sensor is surface mounted on a support. For wall mounting, follow these steps:

- Position and screw the support of the device to the embedded box.
- Fit the top of the AirQ Sensor device into the protruding rib on the support; it will be fully secured in its final position by the magnets.
- You can secure the device by a small anti-theft screw located at the bottom (optional).



Connection

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



For the correct operation of this device, the following is required:

- Main control board (AZCE8CB1MOT / AZCE8CB1DIN) version equal to or later than 3.6.6.
- Thermostat (AZCE6BLUEZEROC) version equal to or later than 3.6.5.
- Webserver (AZX6WSPHUB / AZX6WSC5GER) version equal to or later than 4.0.5.
- Airzone Cloud app version equal to or later than 4.14.

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

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



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.



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.

For the correct operation of this device, the following is required:

- Main control board (AZCE8CB1MOT / AZCE8CB1DIN) version equal to or later than 3.6.2.
- Thermostat (AZCE6BLUEZEROC) version equal to or later than 3.6.2.
- Webserver (AZX6WSPHUB / AZX6WSC5GER) version equal to or later than 4.0.4.
- Airzone Cloud app version equal to or later than 4.12.

Reset

If you want to return to factory values, press and hold the button \mathcal{G}^2 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

Connect the AZCE8CMIVALR module to the CAN bus of the main control board. For this purpose, there is one 5-pin terminal. Use $2x0.5 + 2x0.22 \text{ mm}^2$ Airzone cable. Fix the cables with the screws on the terminal, following the color code.



Reset

If you want to return to factory values, press and hold the association button $\cancel{2}$ until LED 1 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 <u>compatibility table</u>.



Connection

To associate the heads, follow the steps below:

- 1. Open the association channel by pressing the \mathscr{S} 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

Connect the AZCE8CMIVALC module to the CAN bus of the main control board. For this purpose, there is one 5-pin terminal. Use $2x0.5 + 2x0.22 \text{ mm}^2$ Airzone cable. Fix the cables with the screws on the terminal, following the color code.



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.



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 2 s.
- Switch between the different configurations by pressing the same button.



3. Save the configuration by another 2 s pressing in the same button.

Configuration / Relay output	・ Configuration 1 文章 No NC	・ Configuration 2 〇 登意	& Configuration 3 ○ ☆
RI	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.

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 <u>compatibility table</u>.



Connection

Airzone wired thermostatic valve actuators are connected to the Z1-Z8 ports of the AZCE8CM1VALC module. Connect throught 2 wires without polarity.

Important: Use a suitable screwdriver to press in the locking tabs.

Maximum number of valves permitted: 2 for each output (20 valves in total).



AZCE8CB1MOT main control board connection



AZCE8CB1DIN main control board connection

WIRED THERMOSTAT

Elements

Airzone Blueface Zero wired thermostat (AZCE6BLUEZEROC) For further information, see the <u>technical datasheet</u>.

Airzone Lite wired thermostat (AZCE6LITEC)

For further information, see the *technical datasheet*.

Assembly

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:

- Separate the back of the thermostat and make the relevant connections.
- Fix the back of the thermostat to the wall.
- Place the display over the fixed support.
- Place the anti-vandalism rods to better hold the thermostat in place (optional).

Connection

Airzone thermostats are elements that are connected to the Airzone connection bus on the main control board. Fix the cables with the screws on the terminal, following the color code.

Important: Use the tool provided to press on the fastening tabs.



Thermostat connection



AZCE8CB1DIN main control board connection



AZCE8CB1MOT main control board connection



WIRELESS THERMOSTATS

Elements

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

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

Assembly

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

- Remove the back of the thermostat and insert the CR2450 button battery.
- Fix the back of the thermostat to the wall.
- Place the display over the fixed support.
- 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.



WEBSERVER AIRZONE CLOUD

Elements

Webserver Airzone Cloud Wi-Fi Dual 2.4-5G (AZX6WSC5GER) For further information, see the <u>technical datasheet</u>.



Important: This device is only compatible with the AZCE8CB1MOT main control board.

Webserver HUB Airzone Cloud Dual 2.4-5G/Ethernet (AZX6WSPHUB) For further information, see the <u>technical datasheet</u>.



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

Assembly

The Webserver Airzone Cloud Wi-Fi Dual 2.4-5G (AZX6WSC5GER) is integrated in the main control board automation bus or in the outdoor automation bus of the production control board. It has a 5-pin terminal; disconnect the terminal to which you want to connect the Webserver and fit the connector.



AZCE8CB1MOT main control board - AZX6WSC5GER



AZX6CCPGAWI - AZX6WSC5GER

Note: Remove the fixing post from the Webserver for mounting on the CCPGAWI.

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

For connecting the Webserver Airzone Cloud Wi-Fi Dual 2.4-5G (AZX6WSC5GER) to other main control boards, use the 2-pin terminal to connect the Webserver to the main control board's automation bus. Fix the cables with the screws on the terminal, following the color code.



AZX6WSC5GR from a system main control board to other system main control boards (AZCE8CB1MOT)

If the Webserver Airzone Cloud se encuentre conectado a la CCP, is connected to the CCP, use the CCP's indoor automation bus to connect to the system main control board.



AZX6WSC5GR from AX6CCPGAWI to system main control boards (AZCE8CB1MOT)



ROUTER - AZX6WSC5GER

The connection icon (\mathcal{V}) 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).

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

For connection to the main control board automation bus 2, there is one 5-pin terminal. 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.



AZX6WSPHUB from a system main control board to other system main control boards (AZCE8CB1MOT)



AZX6WSPHUB from a system main control board to other system main control boards (AZCE8CB1DIN)

To connect the Webserver HUB o a CCP, use the CCP's outdoor automation bus 2.



AZX6WSPHUB from AX6CCPGAWI to system main control boards (AZCE8CB1MOT)



AZX6WSPHUB from AX6CCPGAWI to system main control boards (AZCE8CB1DIN)



ROUTER (Wi-Fi) - AZX6WSPHUB

ROUTER (Ethernet) - AZX6WSPHUB



All Airzone systems must be connected to the internet to provide technical support.

AZX6WSC5GER / AZX6WSPHUB: It is only necessary to connect one Webserver per installation (control of up to 32 systems).

AIRZONE HYDRONIC PRODUCTION CONTROL BOARD (AZX6CCPGAWI)

Elements

For further information, see the technical datasheet.



Important: This element is not compatible with the supermaster controller (AZX6CSMASTER).

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:

- Locate the production control board close to the AC unit to be controlled.
- Unscrew the cover to fix the rear part to the wall.
- Once all connections have been made, screw the cover back on.



Connection

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.

1 **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.

2 **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.

3) 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.

4) STOP: This input activates the Stop mode in all the systems in the installation.



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 the A domotic bus, there are two 5-pin terminals. This system only uses bus connections. Fix the cables with the screws on the terminal, following the color code.



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).

In the case of the Airzone Cloud Webserver connection, remove the Webserver fixing post and fit the connector on the outdoor domotic bus.



Connector bus for air to water gateways 🔿

The AC unit bus makes it possible to connect various production unit control 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.



Connection of gateway AZX8GAW / AZX6GAW to AZX6CCPGAWI

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:

				Contro	l relays		
Mode	Demand	8	9	10	11	12	13
Stop	Off	-	-	-	-	-	-
	Air	ON	-	ON	-	-	-
Cooling	Radiant	ON	-	-	ON	-	-
	Off	-	-	-	-	-	-
	Air/ Radiator	-	ON	-	-	ON	-
Heating	Radiant	-	ON	-	-	-	ON
	Off	-	-	-	-	-	-
David	On	-	-	-	-	-	-
Dry	Off	-	-	-	-	-	-
	On	-	-	-	-	-	-
ventilation	Off	-	-	-	-	-	-

Aerothermal

• 2 pipes / 4 pipes

				Contro	l relays		
Mode	Demand	8	9	10	11)	12	13
Stop	Off	-	-	-	-	-	-
	Air	ON	-	ON	-	-	-
Cooling	Radiant	ON	-	-	ON	-	-
	Off	ON	-	-	-	-	-
	Air/ Radiator	-	ON	-	-	ON	-
Heating	Radiant	-	ON	-	-	-	ON
	Off	-	ON	-	-	-	-
Duri	On	ON	-	-	-	-	-
Dry	Off	ON	-	-	-	-	-
Mentiletten	On	-	-	-	-	-	-
ventilation	Off	-	-	-	-	-	-

RadianT

				Contro	Relays		
Mode	Demand	8	9	10	11	12	13
Stop	Off	-	-	-	-	-	-
Casting	Radiant	ON	-	-	ON	-	-
Cooling	Off	ON	-	-	-	-	-
	Radiator	-	ON	-	-	ON	-
Heating	Radiant	-	ON	-	-	-	ON
	Off	-	ON	-	-	-	-
Dew	On	ON	-	ON	-	-	-
Warning Active*	Off	ON	-	ON	-	-	-

* Not available in main control boards versions 3.6.0 or higher.

Important: In order to optimize the production temperature of the air to water units, the following combinations will not generate air demand in the production control board:

- Airzone 3.0 controller gateway (AZX8GTCxxx / AZX6GTCxxx) in the system main control boards.
- Airzone communication gateway (AZX6QADAPT3xxx) in the system main control boards.
- Airzone control gateway Electromechanical unit (AZX6ELECTROMEC) in system main control boards.

Integration bus output (14)

It has a 4-pin terminal for integration. Only available in configurations without webserver.

Power supply (16)

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.

For increased safety, fix the cables to the main control board using the turrets.











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.

sw1 (17

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.



sw2 (18)

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:

	Mea	ning	
1 2	1 2	1 2	1 2
Aerothermal	2 pipes	3/4 pipes	RadianT

Once all the connections have been made, make sure the cover of the main control board is correctly replaced.



AIRZONE SUPERMASTER CONTROLLER (AZX6CSMASTER)

Important: This device is not compatible with the production control board (AZX6CCP).

Assembly

Surface mounted (AZX6CSMASTERS):

- Separate the back of the thermostat from the wall support.
- Attach the support directly to the wall or by fixing to the switch box.
- Place the back part on the already fixed support by passing the cable through the hole. Make sure that it is secured by the tabs on the support. Make the necessary connections.
- Place the display over the back part.

Embedded (AZX6CSMASTERE):



For further information, see the <u>technical</u> <u>datasheet</u>.

The embedded supermaster controller is installed in the wall in 100x100 mm screwed junction boxes. Compatible mounting boxes are:

- Solera 362 (100x100 mm)
- Jangar 2174 (100x100 mm)
- IDE CT110 (100x100 mm)
- Fematel Ct35 (100x100 mm)

For mounting, follow these steps:

- Remove the display frame from the rest of the assembly and make the relevant connections.
- Use the washers and screws to fix the display to the embedded box.
- Replace the frame. Make sure that it is properly For further information, see the <u>technical</u> secured.

Connection

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

For the surface-mounted supermaster, use the tabs on the back of the supermaster. Fix the cables with the screws on each tab, following the color code.

In the case of the embedded supermaster, there is one 5-pin terminal located on the rear of the supermaster. Fix the cables with the screws on the terminal, following the color code.

Note: To configure it, follow the steps in the User's Manual.

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





⊥ Shield

AIRZONE KNX INTEGRATION GATEWAY (AZX6KNXGTWAY)

For further information, see the *technical datasheet*.

Elements



Assembly

This device 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

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.



To configure it, follow the steps described in the KNX Installation Manual.

AIRZONE CONTROL GATEWAY 3 SPEED FANCOIL (AZX6FANCOILZ)

For further information, see the technical datasheet.

Elements



Important: This device is only compatible with the AZCE8CB1MOT main control board.

Assembly

This device is DIN rail or wall mounted. This module is externally powered at 110/230 VAC. The location and assembly of this module must comply with current electronic regulations.





1

Mounted using DIN rail



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

Connection



2-pipe installation

4-pipe installation

The characteristics of the control relays 12345 vare 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.

For connection to the main control board AC unit bus $\boxed{7}$ there is one 4-pin terminal. 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.

The power connection to the module (6) is via a 3-pin terminal. Fix the cables with the screws on the terminal, following the polarity.





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.

AIRZONE CONTROL GATEWAY 0-10 V FANCOIL (AZX6010V0LTSZ)

For further information, see the *technical datasheet*.

Elements



No.	Description
1	Cooling air demand
2	Heating air demand
3	Ventilation demand
4	Control of fan
5	Power supply
6	AC unit bus

Important: This device is only compatible with the AZCE8CB1MOT main control board.

Assembly

This device is DIN rail or wall mounted. This module is externally powered at 110/230 VAC. The location and assembly of this module must comply with current electronic regulations.









Mounted on wall

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

Connection



2-pipe installation

4-pipe installation

The characteristics of the control relays 1/2/3 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.

For connection to the main control board AC unit bus 6 there is one 4-pin terminal. 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.



The power connection to the module (5) is via a 3-pin terminal. Fix the cables with the screws on the terminal, following the polarity.



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.

AIRZONE CONTROL GATEWAY ELECTROMECHANICAL UNIT (AZX6ELECTROMEC)

For further information, see the *technical datasheet*.

Elements



Important: This device is only compatible with the AZCE8CB1MOT main control board.

No.	Description
1	Heating mode
2	Ventilation mode
3	Compressor 2
4	Compressor 1
5	Cooling mode
6	Boiler
7	AC unit bus
8	Microswitch
9	Boiler probe
10	Unit probe

Assembly

This device is DIN rail or wall mounted. This module is powered via the AC unit bus of the main control board. The location and assembly of this module must comply with current electronic regulations.



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

Connection



The characteristics of the control relays 12345 are 24/48 VAC voltage free. To control higher power elements, the use of contactors of the power to be controlled is recommended.

For connection to the main control board AC unit bus $\boxed{7}$ there is one 4-pin terminal. 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.





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.

The operation logic of the microswitch (8) is as follows:

	Meaning	
		ON: 4 min
1 2 3 4 5 6 7 8	Compressor start up time	OFF: 10 s
	Steady ventilation	ON: permanently on except when in Stop mode
12345678		OFF: only if there is demand
	l ex 2 stage unit	ON: 2 stages
1 2 3 4 5 6 7 8	i or 2 stage unit	OFF: 1 stage

HVAC	Demand	1	2	3	4	5	6
Stop	-	-	-	-	-	-	-
	Yes	-	ON	-	-	-	-
ventilation	No	-	-	-	-	-	-
	Yes	-	ON	-	ON*	ON	-
Cooling air (I stage)	No	-	-	-	-	ON	-
	lf return temp. < 28°C	ON	ON	ON	ON	ON	-
Cooling air (2 stages)	lf return temp. > 28°C	ON	ON	-	ON*	ON	-
	No	ON	-	-	-	ON	-
	Yes	ON	ON	ON	ON*	-	-
Heating air (I stage)	No	ON	-	-	-	-	-
	lf return temp. < 18°C	ON	ON	ON	ON	-	-
Heating air (2 stage)	lf return temp. > 18°C	ON	ON	-	ON*	-	-
	No	ON	-	-	-	-	-
	Yes	ON	-	-	-	-	-
Radiant neating	No	ON	-	-	-	-	-
	Dif. > Z°C	ON	ON	ON	ON	-	ON
Combined heating	Dif. < Z°C	ON	-	-	-	-	ON
	No	ON	-	-	-	-	-

The operation logic of the relays 123456 is as follows:

Note: The activation of compressor outputs (3) and (4) alternate.

CLAMP-ON TEMPERATURE PROBE (AZX6ACCTPA)

For further information, see the *technical datasheet*.

Connects to the temperature probe (All) connector. Protects the AC unit from the water returning to the boiler.



TEMPERATURE PROBE IN SHEATH (AZX6SONDPROTEC)

For further information, see the technical datasheet.

Connects to the temperature probe (All) connector. Protects the AC unit from the water returning to the boiler.



AIRZONE CONSUMPTION METER (AZX6ACCCON)

For further information, see the technical datasheet.

Assembly

This device is DIN rail mounted. This module is externally powered at 110/230 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

The Airzone consumption meter is an element that is connected by means of an ammeter clamp (1) to the wiring of the outdoor unit to measure the installation's consumption.



The power connection to the module (4) is via a 2-pin terminal. Fix the cables with the screws on the terminal, following the polarity.

To connect to the Airzone system main control board, carry out the following steps:

- 1. Open the system's wireless channel.
- 2. Press \mathscr{P} to associate the consumption meter.
- 3. The LED ① will be displayed in search status (blue) and will change to associated (green). If it doesn't, please refer to the self-diagnostics section.

Reset

If you need to reset the consumption meter to factory settings, press and hold the button \mathscr{P} until the LED changes to search status (blue). Wait for the LED to return to their normal status and then repeat the initial configuration.

System Installation

CONTROL BOARD INSTALLATION

AZCE8CB1MOT

- 1. Locate the control board close to the unit to be controlled.
- Unscrew the cover securing the back part to the wall. Minimum screw dimensions: Ø = 4.5 mm, L = 25 mm.
- 3. Make all the connections and screw the cover again.

AZCE8CB1DIN



The main control board is DIN rail or surface mounted. The location and assembly of this module must comply with current electronic regulations.

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



Mounted using DIN rail



Mounted on wall

THERMOSTAT INSTALLATION

- 1. Remove the back of the thermostat.
- 2. Fix the back of the thermostat to the wall.
- **3.** Connect it to the AZCE8CBIMOT main control board at any of the three terminals **AZ1**, **AZ2** or **AZ3** or to the AZCE8CBIDIN main control board at the terminal. Fix the cables using the turrets in the case of the AZCE8CBIMOT main control board.
- If your thermostat is a wireless thermostat, insert the CR2450 button battery.
- 4. Place the display over the fixed support.
- 5. Place the anti-vandalism rods (optional) to better hold the thermostat in place.

AZCE8CB1MOT

AZCE8CB1DIN





CONNECTING THE MOTORIZED ELEMENTS

Important: This device is only compatible with the AZCE8CB1MOT main control board.

Connect each output (**M1...M8**) to the actuator of its corresponding control zone. Do not connect more than two actuators per output. Use the Airzone cable ($2x0.75 \text{ mm}^2$) for the connection. Highest recommended length 20 m.







CONNECTION TO THE INDOOR UNIT

Communications gateway option

Important: This device is only compatible with the AZCE8CB1MOT main control board.

Connect the communication gateway to the **IU** port of the main control board. Follow the instructions of the gateway datasheet. It is recommended to install the thermostat of the unit.

Control gateway option

Important: This device is only compatible with the AZCE8CB1MOT main control board.

Connect the communication gateway to the $\rm IU$ port using Airzone wire 2x0.22 mm² (use the shield only on the connector of the main control board).

O1 port option

Use the main control board **OI** port to perform the start-stop of the unit following the manufacturer's instructions. Imax 1 A, Vmax 24 / 48 VDC.







OTHER PERIPHERALS

Follow the instructions on their technical data sheet.

Important: For elements with external power supply at 110/230 VAC, it is only necessary to connect poles "A" and "B" of the bus for communications (except for the CCP).

POWER SUPPLY TO THE SYSTEM

Use input power supply to power the main control board at 110/230 VAC as well as any other control elements that require external power supply. Use 3x1.5 mm² cable. For added security, secure the wires using the turret, in the case of the AZCE8CB1MOT main control board.

(i) 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 (AZCE8CB1MOT) is correctly replaced.



Checking the Installation

AZCE8CB1MOT

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. The main control board LED indicating the opening of motorized elements light up in sequence.
- 4. Power supply to wired and wireless thermostats.



AZCE8CB1DIN

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.



Initial Configuration

AIRZONE BLUEFACE ZERO



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 thermostat. single 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.

Confirm



Select the zone associated to this thermostat.



Stages to be controlled:

- Air
- Radiant
- Combined

If one of the stages is deactivated, the corresponding previously selected control output will be disabled.

3	A Thermostat settings
	Select settings
	Master
	Zone
	Confirm

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



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

AIRZONE THINK



Languages:

- Spanish Italian
- English Portuguese German
- French •

Open the wireless association channel. To do so, click SW1 (AZCE8CB1MOT) or (AZCE8CB1DIN). 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.



Start the search for the wireless channel.



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



Select the zone associated to this thermostat.



Master: Allows the control of all installation parameters.

Zone: Only allows the control of the zone parameters.

Heat Cool >	7	Setting Control s	tages	
AIR 🗸		Heat	Cool	>
AIR V				^
		AI	R	~
		Conf	firm	

*Stages to be controlled:

- Air
- Radiant
- Combined

If one of the stages is deactivated, the corresponding previously selected control output will be disabled.

Associated output	Associated output
Zone 1	Zone 1
	ASSOCIATE
Associated outputs	Associated outputs
2	2
Confirm	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.

8	Conther settings	
	Do you want to change other settings?	
	Advanced	>
	Basic	
	Off	>
	End V	

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







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

3

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

Wired Lite

Go to step 3.

Wireless Lite

Open the wireless association channel. To do so, click SW1 (AZCE8CB1MOT) or (AZCE8CB1DIN). 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.

(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 \bigcirc 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. Verify that the mode imposed on the master thermostat (only AZCE8CB1MOT) appears on the indoor unit thermostat and that the set point temperature changes on the same.
- 2. AC unit-system communication: Set the Airzone system to Stop mode and verify that the AC unit turns off and dampers open (only AZCE8CB1MOT).
- 3. 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.
- 4. Check that the static pressure in the ducted AC unit is in accordance with the conditions of the airflow distribution network in which it is installed (see the manufacturer's manual for the AC unit if you need to modify this parameter) (only AZCE8CB1MOT).

SYSTEM RESET

If you need to return the system to factory settings, press and hold **SW1** until **LED D19** stops blinking (AZCE8CB1MOT) or the (1) button (AZCE8CB1DIN) 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 \bigcirc icon will blink twice in green confirming that the reset has been completed.

System Advanced Settings

AIRZONE BLUEFACE ZERO



AIRZONE THINK



AIRZONE CLOUD

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

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 <u>Airtools - Bluetooth Programming</u>).



SYSTEM PARAMETERS

• 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:

Operation mode of system 1	Available operation modes of the other systems
STOP	STOP
*	∞ & ≭ %
° °	☞ & 🗰 😚
÷Ċ:	🕾 % 🔆
~	(STOP) 🔗

- Temperature range¹. This allows you to select the maximum temperature for heating mode (19 – 30 °C) and minimum temperature for cooling mode (18 – 26 °C), in steps of 1 °C. If you want, you can disable any of the modes. By default, the maximum heating temperature is set to 30 °C and the minimum cooling temperature to 18 °C.
- **Type of opening***. (Only in installations with AZCE8CB1MOT main control board) This allows you to enable/disable the proportionality of the system dampers. Proportionality scales the opening or closing of the damper in 4 steps according to the temperature demand of the zone, adjusting the zone airflow rate. By default, it is set to All/Nothing.

***Note:** Changing this parameter affects all motorized dampers in the installation. It is not recommended for RINT and RIC smart grilles.

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

¹ Parameters not available in Airzone Blueface Zero thermostats

- Easyzone mode¹. (Only for Airzone Cloud and installations with AZCE8CB1MOT main control board) Allows you to modify the behavior of the motorized elements when all zones are set to Off. This mode is disabled by default.
 - Enabled: all motorized elements remain open when the zones are set to Off.
 - Disabled: the last zone set to Off will keep the motorized element open for 4 minutes. After this time, all zones are kept closed.
- Standby mode¹. (Only for Airzone Cloud and installations with AZCE8CB1MOT main control board) With this function activated, the unit remains switched on in low consumption mode once the cooling/heating demand has been met. The configuration options available are:
 - Standby mode for cooling: allows you to activate/deactivate Standby in cooling mode.
 - Standby mode for heating: allows you to activate/deactivate Standby in heating mode.
- Standby hysteresis¹. (Only for Airzone Cloud and if Standby mode is enabled) Allows you
 to add a hysteresis value to the set point temperature applied by the system when Standby
 mode is activated (it is activated at 16 °C by default in Heating mode and at 30 °C in Cooling
 mode). The initial setting for hysteresis is 0 °C.
 - Heating hysteresis: sets a hysteresis value in heating mode (by default 3°C).
 - Cooling hysteresis: sets a hysteresis value in cooling mode (by default 1°C).
- **OI relay settings.** This allows you to change the operation logic of the relay depending on the main control board version. By default, it is set to:
 - "High temp. circuit demand" (version equal to or later than 3.6.0).
 - "On/Off" (version earlier than 3.6.0).

(Version equal to or later than 3.6.0) 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)
- **O2 relay settings.** This allows you to change the operation logic of the relay depending on the main control board version. By default, it is set to:
 - * "Low temp. circuit demand" (version equal to or later than 3.6.0).
 - "CMV" (version earlier than 3.6.0).

(Version equal to or later than 3.6.0) 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)

¹ Parameters not available in Airzone Blueface Zero thermostats

- Basic mode config. (Only available in version equal to or later than 3.6.9 of the main control board and version equal to or later than 3.6.5 of AZCE6BLUEZEROC) 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:
 - **Environment info:** displays/hides information related to the room temperature and humidity on both the main screen and the screensaver.
 - Mode: enables/disables the change of the operation mode.
- DII input configuration¹. (Only for Airzone Cloud in version equal to or later than 4.14 and installations with AZCE8CB1MOT main control board in version equal to or later than 3.6.6) Allows you to modify the operation logic of the digital input. The configurations available are:
 - Deactivated: keeps the alarm input disabled, so that no action is taken when opening/ closing the contact.
 - Alarm (NC) (by default): when an alarm warning is received, the Stop mode is set on the AC unit, so all system dampers are closed and the operation mode is blocked.
 - Acoustic alarm (NC)*: alarm to connect the refrigerant leakage sensor (normally closed behavior). When the contact is opened, the "refrigerant leakage" error is activated.
 - Acoustic alarm (NO)*: alarm to connect the refrigerant leakage sensor (normally open behavior). When the contact is closed, the "refrigerant leakage" error is activated.

***Note:** If this alarm is activated, the "Silence alarm" parameter will appear in the Airtools Bluetooth information menu. This will stop the acoustic warning of the thermostats (AZCE6BLUEZEROC in version equal to or later than 3.6.5 and AZCE6LITEC in version equal to or later than 3.6.9), but will not eliminate the error.

- **Q-Adapt.** (Only in installations with AZCE8CB1MOT main control board)
 - **1.** In direct expansion units. This allows you to define the airflow control algorithm that best fits the duct installation. The options available are:
 - Maximum: the system operates at maximum speed regardless of the number of zones.
 - Power: the system operates at a higher speed than in Standard mode to ensure airflow is increased.
 - Standard (by default): the system changes speed depending on the number of zones.
 - Silence: the system operates at a lower speed than in Standard mode to improve noise reduction.
 - Minimum: the system operates at minimum speed regardless of the number of zones.
 - 2. In fancoil units 0-10V. This allows you to set the minimum (1.5 V by default) and maximum (10 V by default) working voltage of the fan of the controlled AC unit, in 1 V steps. The minimum voltage will correspond to the desired minimum speed of the AC unit and the maximum voltage will correspond to the maximum speed. The average speed will correspond to the two.

¹ Parameters not available in Airzone Blueface Zero thermostats

- Filter maintenance¹. (Only for Airzone Cloud) It is used to enable or disable the warning, edit hours of operation or reset the filter maintenance count.
- Return temperature¹. (Not available on AZCE6THINKR version equal to or later than 3.5.0) (Only available in installations with AZX6SONDPROTEC/AZX6ACCTPA protection probe and AZCE8CB1MOT main control board) This allows you to define the system's cut-off temperatures for the protection of the AC unit in heating mode (32 °C, 34 °C and 36 °C) and cooling mode (6 °C, 8 °C and 10 °C). By default, the system's heating cut-off temperature is set to 34 °C and the cooling cut-off temperature is set to 8 °C.
- **Radio channel.** This allows you to enable/disable the system's wireless association channel. If an AZCE8CMIVLAR module is connected, its association channel will also be opened.
- Condensation protection¹. (Only in installations with AZCE8CMIVALC 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 control¹. (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.

- Forced mode change¹. (Only available in installations with AZCE8CM1VALC modules, version equal to or later than 3.6.5, and main control board in version equal to or later than 3.7.2) 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 Ventilation / Dry / Stop mode.
- Semi-forced heating mode: can be changed to Ventilation / Stop mode.

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

¹ Parameters not available in Airzone Blueface Zero thermostats

- Automatic mode change according to supply temperature*1. (Only available in installations with AZCE8CMIVALC modules, version equal to or later than 3.6.5, with a temperature probe and main control board in version equal to or later than 3.7.2) 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 Ventilation / Dry / Stop mode.
- Semi-forced heating mode: can be changed to Ventilation / 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".

- Information. This allows you to display information about:
 - Zone: firmware, zone, association, actuator (only AZCE8CB1MOT) 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.
- BACnet¹. (Only in installations with Webserver configured as BACnet and AZCE8CB1MOT main control board) This parameter shows the device ID, uplink port, IP address, subnet mask and gateway IP and allows you to modify them. Click on the desired value, modify the parameters and click on the option to confirm. The default values are:
 - Device ID: 1000
 - Port: 47808
 - IP address: DHCP
- **Protection mode**¹. (Only for Airzone Cloud and installations with AZCE8CB1MOT main control board) This allows you to disable the delay in the closing of the motorized elements.
- **IAQ ranges'.** (Only for Airzone Cloud and installations with AZCE8CB1MOT main control board) Allows you to define the IAQ measurement ranges (upper and lower).

¹ Parameters not available in Airzone Blueface Zero thermostats
- Purifiers¹. (Only for Airzone Cloud and installations with AZCE8CB1MOT main control board and AZX6AIQBOXS expansion modules) For the correct operation of the system, the number of expansion modules installed must be indicated. The number of purifiers activated will depend on the zones on demand.
- Working PM sensor¹. (Only for Airzone Cloud and installations with AZCE8CB1MOT main control board, AZX6AIQBOXM and AZX6AIQSNSB) Allows you to select the particle sensor you want to use to act on the ionization. The options available are:
 - AirQ Box
 - AirQ Sensor
- Heating mode phases¹. (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:
 - "Air only preparation" phase: (Only available if there is an air stage in any of the zones) This allows you to initiate the "Heating" phase only with the air stage until the selected differential between the room temperature and the set point temperature has been reached. Once this differential has been reached, the combined stage (air + radiant) is activated. This phase is only available and activated (by default) in systems with an air stage in any of their zones.
 - "Heating" phase: This allows you to initiate the combined stage by configuring the activation/deactivation of the following parameters:
 - » Air supply: (Only available if there is an air stage 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 air stage. It will be available when there is an air stage in any zone. By default 0.5°C.
 - » 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.
- **Cooling mode phases**¹. (Only for Airzone Cloud and if there is an air stage in any of the zones) This allows you to define the phases that act in the Cooling Mode stages in order to carry out different combinations according to the needs of the system. The following phases are available:
 - "Air only preparation" phase: This allows you to initiate the "Cooling" phase only with the air stage until the selected differential between the room temperature and the set point temperature has been reached. Once this differential has been reached, the combined stage (air + radiant) is activated. This phase is only available and activated (by default) in systems with an air stage in any of their zones.
 - "Cooling" phase: This allows you to initiate the combined stage by configuring the activation/deactivation of the following parameters:
 - » **Air supply:** This enables the configuration of a temperature differential with respect to the set point temperature that marks the deactivation of the air stage. It will be available when there is an air stage in any zone. By default 0.5°C.

¹ Parameters not available in Airzone Blueface Zero thermostats

ZONE PARAMETERS

HVAC

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

- **Use 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.

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

¹ Parameters not available in Airzone Blueface Zero thermostats

IAQ

- **Controlled mechanical ventilation**¹. (Only for Airzone Cloud and installations with AZX6AIQSNSB) 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*1. (Only for Airzone Cloud and installations with AZX6AIQSNSB, version equal to or later than 1.0.5, and main control board in version equal to or later than 3.7.2) 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.

- Variables¹. (Only for Airzone Cloud and installations with AZX6AIQSNSB) Allows you to define the ranges and weights of the different variables available for the calculation of the IAQ index. The measurements available are:
 - Relative humidity (HR)
 - CO₂ levels
 - Particles measuring less than 2.5 µm in diameter (PM2.5)
 - Particles measuring less than 10 µm in diameter (PM10)
 - Volatile organic compounds (TVOC)

¹ Parameters not available in Airzone Blueface Zero thermostats

PRODUCTION PARAMETERS²

- **Operation logic.** This allows you to configure the operation logic of the control relays of the CCP:
 - Aerothermal unit (default preset)
 - 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 (default preset to 3 minutes).
- Water outlet temperatures. (Only in installations with AZX8GAWXXX / AZX6GAWXXX 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 / AZX6GAWXXX gateways) Select "Auto" if you have mixing valves for cooling in your installation. It is set to "Manual" by default.

² Parameters available in installations with AZX6CCPGAWI. Control from Airzone Cloud.

Incidents

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





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

Active window. Indicates that the air conditioning has been suspended in the zone due to an open window. Only available in systems that have enabled the control of windows.

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 AZCE8CMIDRY) 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 AZCE8CMIVALR modules) Low battery warning for valve.

NTC2 alarm. Measurement error in the temperature probe.

Filter maintenance. This indicates that filter maintenance should be performed.

ERRORS /

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

Communication errors

Thermostat – Main control board
 Lite thermostat – Main control board
 Gateway – Airzone system
 BACnet gateway – Main control board
 Gateway – Indoor unit
 Webserver – Airzone system
 Control module of radiant elements – Main control board
 Consumption meter – Main control board
 Consumption meter – Main control board
 Lutron gateway – Airzone system
 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. AZCE8CMIVALR module – Main control board
 V02. AZCE8CMIVALR module – AZX6ACIVALR head

AC unit error. Anomaly in the AC unit AC unit error. Refrigerant leakage

Other errors

5. Open circuit in temperature probe
6. Short circuit in temperature probe
16. Measuring error in consumption meter
19. Alarm jumper error
R05. Open circuit in Control module of radiant elements temperature probe
R06. Short circuit in Control module of radiant elements temperature probe

Purification errors

IAQ1. Loss of communication between the ionization controller and the main control board IAQ2. Loss of communication between the particle sensor and the main control board IAQ7. Loss of communication between the AZX6AIQSNSB 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 OIRZONE 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 reestablishes 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 AIRZONE 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 SW1/ A 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.



Error 5. Open circuit in temperature probe

The zone loses the room temperature measurement, leaving the zone unable to generate demand. In the event of such an incident, the device must be replaced or sent for repair.

Error 6. Short circuit in temperature probe

The zone loses the room temperature measurement, leaving the zone unable to generate demand. In the event of such an incident, the device must be replaced or sent for repair.

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 9. Gateway - Airzone system

Systems with AZCE8CB1MOT main control board

The system loses communication with the gateway and therefore with the AC unit. The system will open all its zones and disable control from the system's thermostats, thus allowing the AC 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 main control board's IU port.
- If the gateway is a DIN rail format, check that the polarity of the connectors of the gateway and the main control board's IU port is correct.
- 3. 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 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 $(DM1/s_{0}^{2})$.



Error 11. Gateway - Indoor unit

Systems with AZCE8CB1MOT main control board

The gateway loses communication with the AC unit. The system will open all its zones and disable control from the system's thermostats, thus allowing the AC unit to operate from the manufacturer's thermostat. To resolve this issue, make the following checks:

- 1. Check that the AC unit is powered. To do this, check that the AC unit's thermostat is switched on.
- Check whether the AC unit operates properly independently of the system. To do so, disconnect the AC unit from the Airzone system and activate the unit from the AC unit's thermostat.
- Connections: Check that the polarity of the connections to the gateway and indoor unit is correct. Consult your gateway's technical fact sheet.
- 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 12. Webserver - Airzone system

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

- 1. Check that the Webserver is properly connected to the main control board's automation port.
- 2. Check that the polarity of the connectors of the Webserver and the main control board's automation port is correct.
- 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.
- Control module of radiant elements and main control board status: Correct operation of the CAN bus (a) / () (b) 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.



Error 15. Consumption meter - Main control board

This incident doesn't allow you to measure the AC unit's consumption. To resolve this issue, make the following checks:

- Signal range of the device: Check the signal range of the meter with the main control board; to do so, check the LED ? on the meter. If it is not in signal range (red LED), bring the meter closer to the main control board. If it recovers communications, it will be necessary to relocate it because it was out of range.
- 2. Status of the consumption meter: Check that the power supply is correct.

Error 16. Measuring error in consumption meter

This incident doesn't allow you to measure the AC unit's consumption. To resolve this issue, make the following checks:



Check that the ammeter clamp is properly connected to the AC unit wiring.

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 $(DM1/a_{c})$.





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.
- **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 19. Alarm jumper error

Systems with AZCE8CB1MOT main control board

The system detects that the alarm jumper is not connected and forces it into Stop mode. Check to be sure that the alarm jumper is properly connected.



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.
- 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:

- 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:

- AZCE8CMIVALR module 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 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 IAQ1. Loss of communication between the ionization controller 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 Box status: Check that the power supply is correct.
- 2. AirQ Box and main control board status: Correct operation of the CAN bus LED.
- 3. Connection: Check that the polarity of the connections to the main control board and the AirQ Box is correct.



Error IAQ2. Loss of communication between the particle sensor and the main control board

This warning indicates the non-detection of the particle sensor and means that Indoor Air Quality cannot be measured. Once a sensor is connected, the error disappears.

Check that the particle sensor of the AirQ Box is properly connected.



Error IAQ7. Loss of communication between the AZX6AIQSNSB 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/() LED.
- 2. Connection: Check that the polarity of the connections to the main control board and the AirQ Sensor is correct.



AC unit error. Anomaly in the AC unit

Consult the type of incident on the AC unit's thermostat and perform the repair actions indicated by the manufacturer.

AC unit error. Refrigerant leakage

Systems with AZCE8CB1MOT main control board

This incident indicates that the existence of a refrigerant gas leak in the indoor unit controlled by the system has been confirmed (in the case of a VRF system, the warning will also be given).

The Airzone system will give control to the indoor unit, so control of the air stage will be lost momentarily. Neither the radiant stage nor CCP production will be affected by the blocking.

To exit this leakage error protection mode, the incident on the indoor unit must first be resolved. Once the error disappears, control of the system will be restored.

Navigation Trees

AIRZONE BLUEFACE ZERO

Screensaver



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



Main screen

****Note:** Only in installations with AZCE8CB1MOT main control board.



Use mode Offset Reset thermostat System address** Radio channel Reset system Centralized control Reset Webserver Relays settings Basic mode config

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

AIRZONE THINK

Screensaver



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

Main screen





****Note:** Only in installations with AZCE8CB1MOT main control board.



Use mode Control stages** Offset Reset thermostat System address** Temperature range Combined stage** Type of opening Q-Adapt Relays settings Centralized control Return temperature Radio channel Information Reset Webserver

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



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