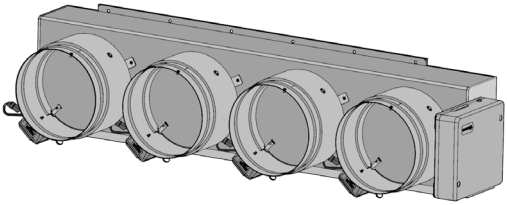
Installation Manual

DZK-4



DZK
DAIKIN ZONING KIT

CONTENTS

EN

EN

WARNINGS, ENVIRONMENTAL POLICY, AND CERTIFICATIONS

EN

WARNINGS

For personal safety and equipment protection, follow these instructions:

- Do not operate the system if it is wet, or handle it with wet hands.
- Connect the power supply cable before connecting the AC power.
- Perform any connection or disconnection with the power supply **OFF.**
- Verify that there is no short-circuited connection in the connectors between different cables or ground.
- Verify there are no abnormalities in the wiring.

- Never dispose of this equipment with household waste. Electrical and electronic products contain substances that can be harmful to the environment if they are not given proper treatment. The symbol of the crossed container indicates separate collection of electronic equipment, unlike the rest of urban garbage. For proper environmental management, the equipment to be disposed must be taken to the proper collection center at the end of its lifespan.

- The components of this equipment can be recycled. Follow the existing regulations on environmental protection in your area.

- The unit must be delivered to your dealer if it is being replaced. If it is to be discarded, it must be sent to a specialized collection center.

EN

FCC REGULATORY NOTICES

Modification statement
Corporación Empresarial Altra S.L. has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment.

Interference statement
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Radiation Exposure Statement
This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Class B digital device notice
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

INTERTEK / UL REGULATORY NOTICES

- The units shall be tested by a Nationally Recognized Testing Laboratory (NRTL) in accordance with ANSI/UL Standard UL 1995/CAN/CSA-C22.2 No. 236-11 – 4th Edition (R2011) – Heating and Cooling Equipment, and will bear the Listed Mark.
- All wiring shall be in accordance with the National Electric Code (NEC)/Canadian Electrical Code (CEC).

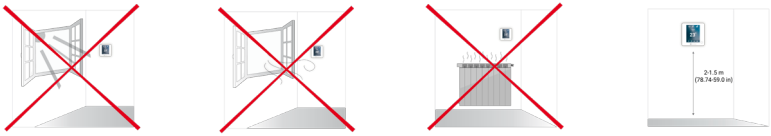
GENERAL RECOMMENDATIONS

EN

Closely follow the instructions on this manual to avoid installation and maintenance issues.

- The system should only be installed by qualified personnel.
- Never use solid wire to install the system. This is a communication device and requires the use of communication cables.
- While connecting the devices, be sure the system is not powered.
- Follow the local installation regulations for low and high voltage installation.
- The recommended specifications for the cable to install this system are: 4 wires, stranded, AWG 20, plenum and shielded.
- When connecting to other systems fed with high voltage, only use the A and B contacts of the communication bus. It is not recommended to connect the + and – contacts, nor the ground.
- Follow the color codes and polarity indications in the system components.
- Do not run the bus cable near high power cables or near electrical motors to avoid electromagnetic interference in the system communications.

- Use the following recommendations to locate the thermostats:
- automatically restart if the power supply is turned off. **Use separate circuits for the unit that is to be controlled and the power supply to the system.**
- Check the polarity of each device's connectors. A wrong connection can seriously damage the product.
- To connect to the system, use Airzone cable: four-wire cable 2x0.22 mm^2 twisted shielded wires for data communications and 2x0.5 mm^2 wires for power supply (2 x 23 AWG + 2 x 20 AWG).
- A Blueface thermostat must be used to enable all the Airzone system functionalities.
- Recommendations for the placing of the thermostats:



- The temperature operating range is: 32 to 122 ˚F (0 to 50 ˚C).
- The humidity operating range is: 5 to 90% (non-condensing).

If upon receiving the unit it is determined that one of the outlets will not be used, take the following actions:

1. Install the unit and wiring required to start with the Wired Thermostat configuration. The unit should have all dampers open.
2. Configure the Wired Thermostat. Once the thermostat is assigned to a zone, all other dampers will close except for the zone that is assigned to the Main Wired Thermostat.
3. At this time, disconnect the motor cable from the outlet that will not be used.
4. Permanently seal the outlet using the supplied plug and follow the local installation recommendations.

SYSTEM DESCRIPTION

The Daikin Zoning Kit (DZK) is an optional accessory that increases the flexibility of the FXMQ, FXSQ, FBQ and FDMQ Indoor Unit fan coils. It allows multiple separate ducts to be connected to a fan coil and supply air to different individually controlled zones in a building.

EN

THERMOSTATS

DZK-4 Wired thermostat

Color graphic interface with capacitive screen for controlling zones in DZK systems. Powered by main control board. Finished in steel and glass. Available in white. Functionalities:

- Available in English, French and Spanish.
- Control of temperature, operating mode (Master thermostat), user mode (Master thermostat) and airflow control (Master thermostat).
- Room temperature and relative humidity measurement of the zone.
- Remote access to other zones of the system.

Wireless Thermostat

Graphic interface with low-energy e-ink screen and capacitive buttons for controlling zones in DZK systems. Finished in steel and glass. Wireless communications. Powered by CR2450 button battery (included). Wall mounted. Functionalities:

- Available languages: English, French and Spanish.
- Control of set point temperature (increment of 1°F/0.5°C).
- Configurable set point range for Cooling and Heating.
- Room temperature and relative humidity sensing and display.
- Timer function.

Wireless Lite Thermostat

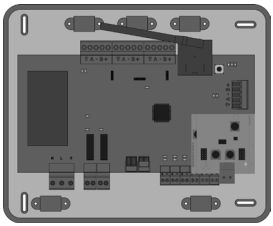
Thermostat with capacitive buttons for controlling the temperature of the zones in the DZK systems. Finished in steel and glass. Wireless communications. Powered by CR2450 button battery (included). Wall mounted. Functionalities:

- On/Off control of the zone.
- Control of base set point temperature with an increment of ± 1°F/0.5°C (default value) or ± 2°F/1°F, up to a limit of ±6°F/3°C. The increments are configurable through Main Wired Thermostat. This base set point temperature can be configured through any Wired Thermostat.
- Room temperature and relative humidity sensing.

EN

DZK CONTROL

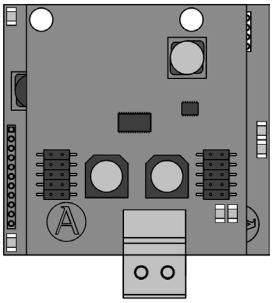
DZK Control Board



This device manages all wired and wireless devices in the system, performing the following functions:

- Controls and manages the status of each thermostat or controller.
- Controls the position of the motorized dampers.
- Control of auxiliary heat (up to two stages).
- Manages communication with the Daikin Interface Board.
- Controls the On/Off status, mode, fan speed, and set point of the Daikin Indoor unit.

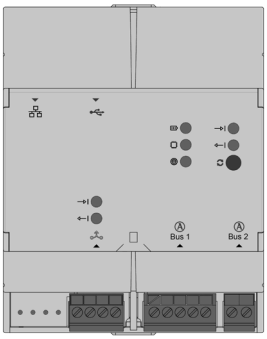
DZK Interface Board



This unit integrates the Daikin indoor unit with the DZK Control Board. The DZK Interface Board includes an energy efficiency control algorithm that is controlled with the Wired Thermostat, including the following functions:

- Automatically changes the indoor unit operation mode (Ventilation, Cooling, Heating, or Dry) from the DZK system's Main Wired Thermostat.
- Temperature setting for the indoor unit based on the overall demand of the DZK zone thermostats
- Reading of warnings and errors of the controlled unit.
- Master control of the unit.

Webserver HUB / BACnet DZK-4



Webserver for controlling DZK systems through Cloud platform. Accessible through Airzone Cloud App (available for IOS and Android). Dual WiFi 2.4/5Ghz or Ethernet connection. Powered through DZK control board. Mounted on DIN rail or on wall. Functionalities:

- Up to 32 Webserver HUB can be daisy chained using the BACnet MS/TP connection. (One DZK system board per each BACnet webserver HUB).
- Configuration and control of zone parameters (Room and set-point temp., operating mode, etc.) and system parameters via Airzone Cloud (Up to 32 DZK system boards per Webserver HUB).
- Associated with router through the app via Bluetooth.
- Multi-user and multisession.
- Port for integration via BACnet MS/TP protocol.
- Allows configuration as Lutron gateway and BACnet IP.
- Integration via local API.
- Remote updates of the Webserver firmware and the systems connected to it.
- Remote error detection and error resolution.

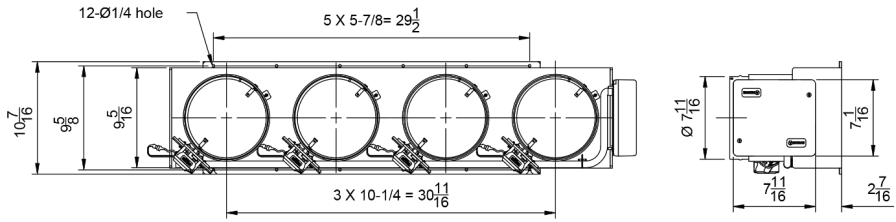
The Webserver HUB / BACnet DZK-4 Interface allows a Building Management System to control all variables of the DZK systems. The Webserver HUB / BACnet gateway uses a standard open protocol based on ASHRAE Standard 135, and its objects are:

- Compatible with BACnet (ANSI /ASHRAE-135)
- Compatible with BACnet/IP (ISO16484-5)

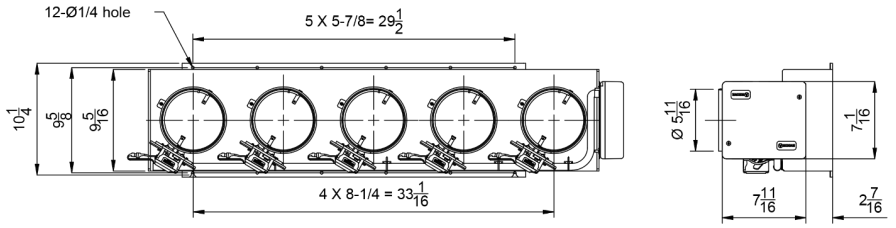
EN

PRODUCT DIMENSIONS

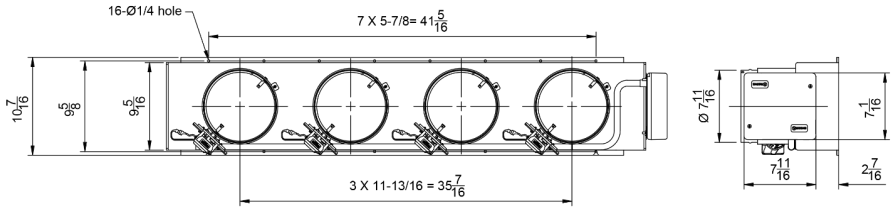
DZK030E4-4



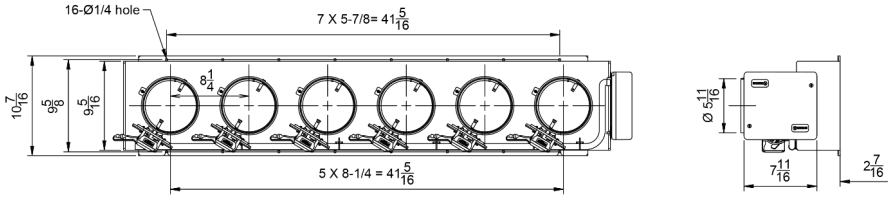
DZK030E5-4



DZK048E4-4

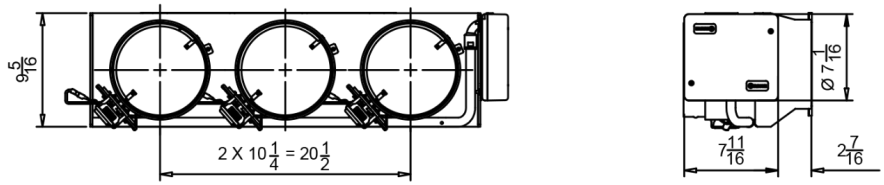


DZK048E6-4

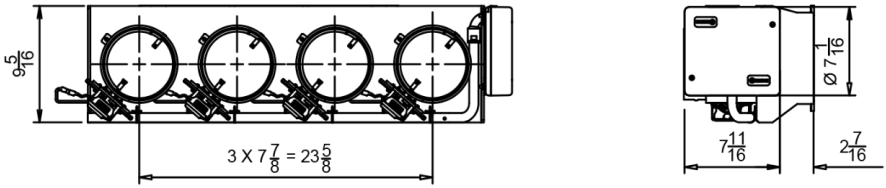


EN

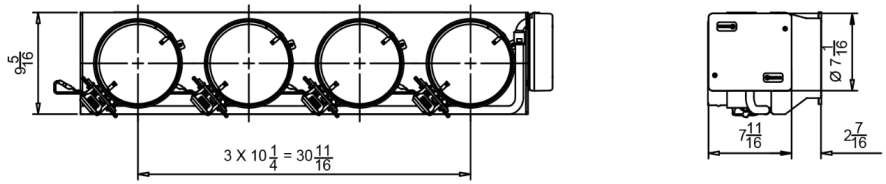
DZKS015E3-4



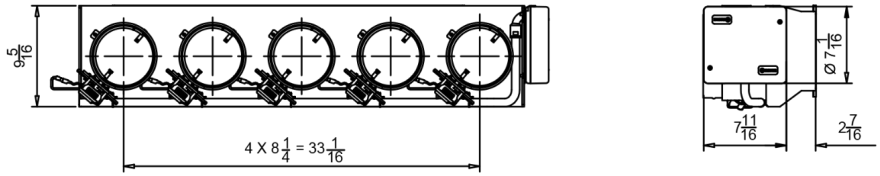
DZKS015E4-4



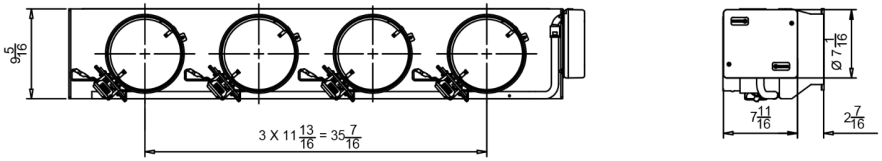
DZKS030E4-4



DZKS030E5-4

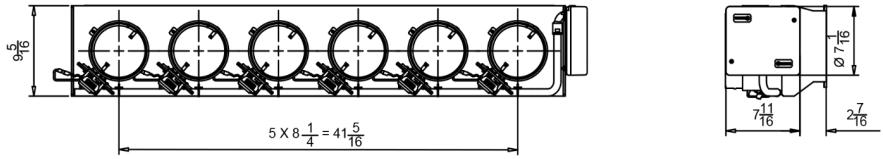


DZKS048E4-4

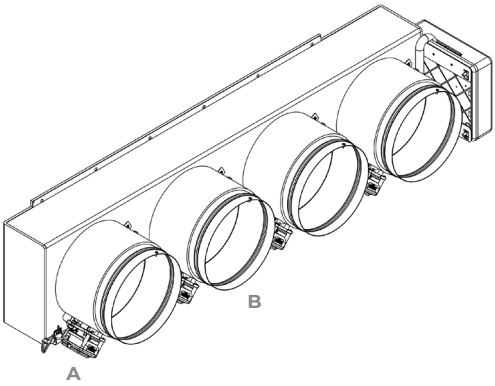


EN

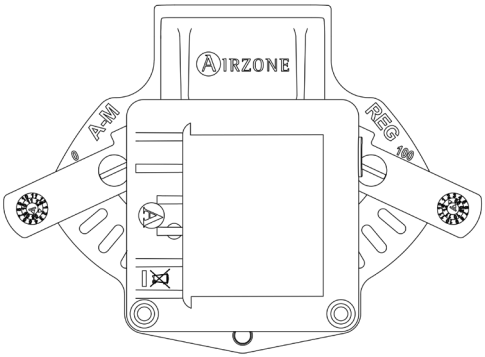
DZKS048E6-4



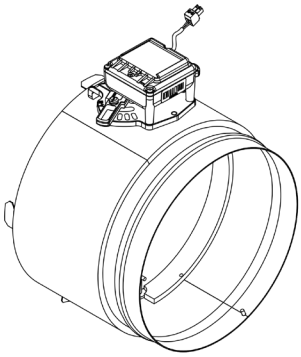
DZK Zoning Box



A - Damper limitation adjustment



B - Motorized damper



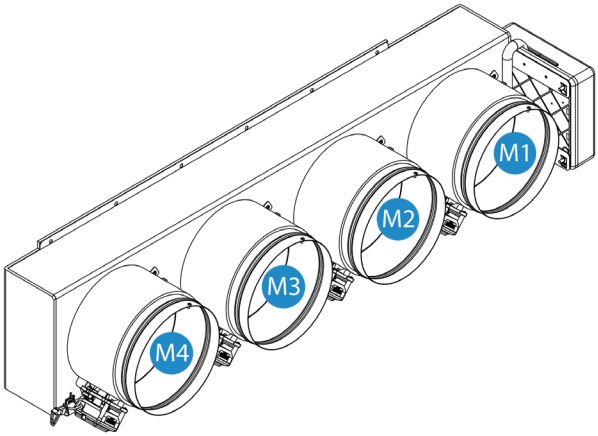
INSTALLATION AND CONNECTION OF THE COMPONENTS

EN

The VRV system (Outdoor and indoor units) should be commissioned prior to the DZK installation or starting up.

DZK ZONING BOX

Dampers are numbered starting with number 1 next to the Zoning box control board.



Assembly

The Zoning Box allows for a fast and simple connection to Daikin indoor units FBQ_P, FMXQ_P and FXSQ_T.

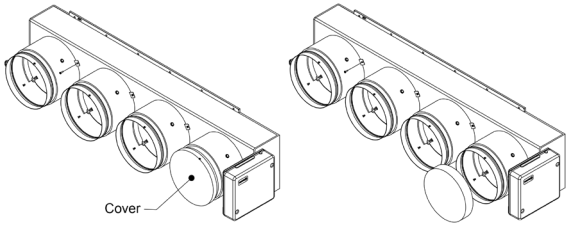
Keep in mind: *make sure that the zoning box is in its correct position. (Actuators at the bottom)*

Models	Damper Size	Number of Dampers
FXSQ 15 TAVJU FDMQ09-12RVJU	6"	4
	8"	3
FBQ 18 - 24 - 30 PVJU FXMQ 15 - 18 – 24 PBVJU FXSQ 18-24-30 TAVJU FDMQ15-24RVJU	6"	5
	8"	4
FBQ 36 - 42 PVJU FXMQ 30 - 36 - 48 - 54 PBVJU FXSQ 36-48 TAVJU	6"	6
	8"	4

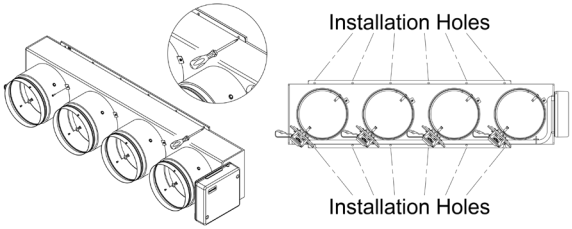
EN

Follow the steps listed below to make an easy and reliable DZK installation:

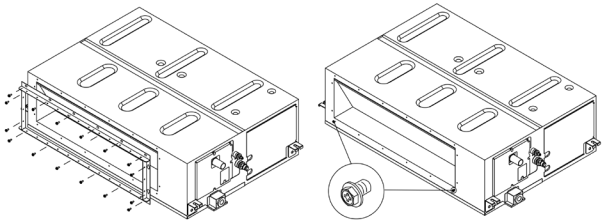
1. The adaptor is shipped with the dampers fully open. One of them includes a cover to be used in case one of the dampers is not used. If the damper is not used, the contractor needs to be sure that the cover will stay in place. If all dampers are used, take the cover off and store it.



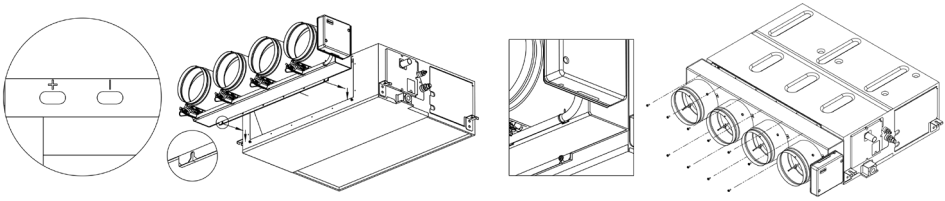
2. Insert a sharp pointed object through the frame holes and the frame sealing to facilitate the location of the setting holes used to assemble the zoning box to the indoor unit.



3. Remove the indoor unit collar. Insert a screw (not fully tightened) in the bottom corners of the indoor unit as shown in the following figure:



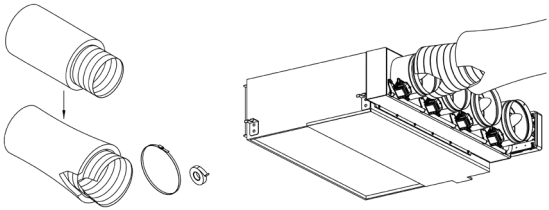
4. Sit the zoning box on the screws as shown below, and then affix the box using the remaining screws.



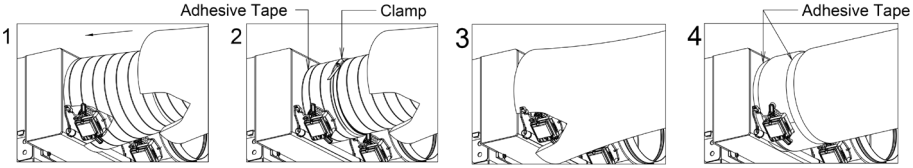
Important: If your DZK has holes marked as "+" or "I", use the holes marked with the "+" symbol

EN

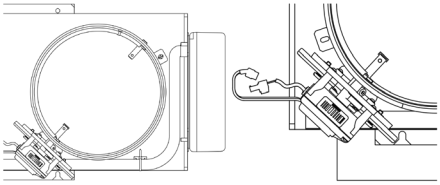
5. Attach each zone's duct with its assigned damper. Follow the local recommendations to insulate and seal the ductwork with the damper. Make a cutout along the duct to keep the motor outside of the insulation.



6. Use of the insulated stopper. If a damper is not used in the installation, proceed as follows:

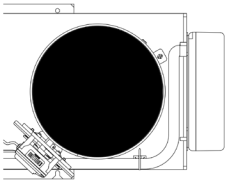


- Make sure the damper is closed before installing the insulated stopper. (The damper will close as soon as the first zone is assigned.)



Keep in mind: *to maximize the air flow for each damper, the best way to disable dampers is to start disabling from the ends to the center, due to the position of the DZK related to the air handler.*

- Check that the power cable is disconnected for the damper motor that will not be used.
- Check that the damper remains airtight with the power ON and the fan running.

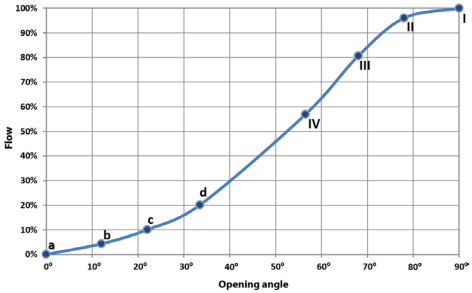


Keep in mind: *when one or more dampers are disabled, it is recommended to adjust the Airflow control parameter to avoid overpressure on the active dampers and ductwork.*

EN

Damper setting

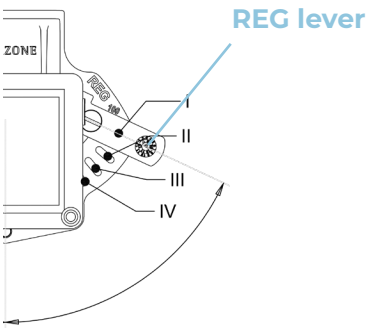
The dampers included in the zoning box have a built-in control system that allows you to manually set the maximum and minimum opening of each damper according to the needs of each installation.



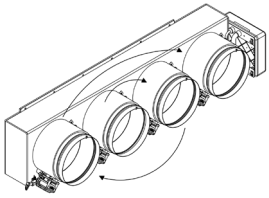
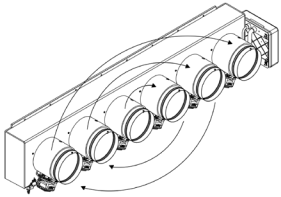
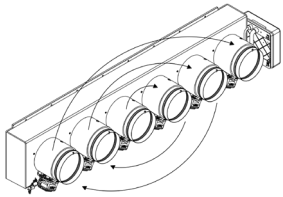
Average Flow (REG)

Due to the unique characteristics of each Daikin indoor unit supply opening with respect to the dampers of the box, the flow distribution is not identical in each damper. The central dampers receive more airflow than the others and the damper in the first and last position receives the least amount of air flow.
This zoning box offers maximum aperture adjustment which balances the flow of each damper to the needs of the installation.
By default, the dampers are configured with a maximum opening at **Position I**. To adjust the control of the dampers proceed as follows:

- The damper must be completely closed to mechanically adjust its flow. To make this adjustment, create demand in all zones so that the indoor unit runs at maximum capacity. Then deactivate the zone to be adjusted, and verify that there is no air supplied to that zone.
- With the damper closed, place the lever marked REG in the actuator to the desired open position. There are 4 position (I, II, III, and IV) with position I being completely open and position IV having the slightest opening. Perform the setting of the dampers by changing the lever REG position, beginning with the central damper opening and ending with damper No. 1 (Closest to the zoning box control board). The reduced flow in the central dampers will increase the flow of the dampers at the ends.



EN

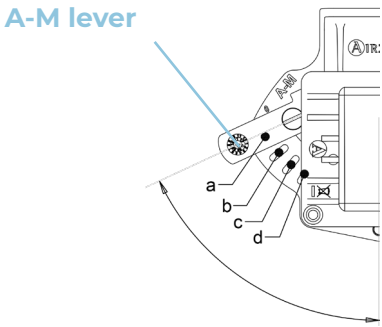




- The use of an anemometer verifies that the flow in each grille is within the installation requirements.

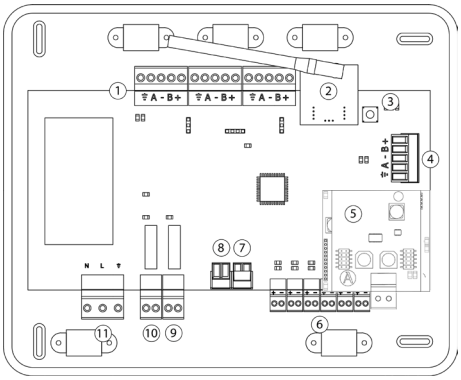
Minimum Air (A-M)

Similarly, the zoning box allows a minimum air opening for each damper, if needed. By default, the Position a damper is configured in the full-close position. To adjust minimum air for any damper, proceed as follows:

- Check that the dampers are wide open. To do so, set the system to Stop user mode, from the Main Wired Thermostat.
- Perform the setting of the dampers by changing the lever A-M position beginning with the central damper opening of the box and ending with damper No. 1. (Closest to the zoning box control board).
- With the damper open, place the handle A-M in the desired open position. It has 4 positions (a, b, c and d) where position “a" is fully closed and is "d" is the fully open.
- The use of an anemometer verifies that the flow in each grille is within the installation requirements.



DZK-4 Connection

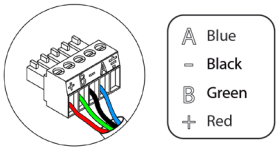


N°	Description
1	DZK-4 thermostat connection bus
2	Wireless Interface
3	System reset button
4	Connection for optional Webserver HUB / BACnet DZK-4
5	DZK Interface board
6	Actuator control outputs
7	Alarm input (normally closed)
8	Protection probe input
9	Heating stage 2 output
10	Heating stage 1 output
11	Power supply

EN

1. DZK thermostat connection bus

The DZK thermostat connection bus allows the connection of up to 6 Wired Thermostats. There are 3 connectors, each one with 5 contacts available, for connecting the expansion bus. The Wired Thermostat is connected to the DZK bus (Maximum of 2 Wired Thermostats per connector).



Connect the cables to the connector contacts following the color code indicated below.

Important: *At least one Wired Thermostat is required for each DZK system, which can control up 6 zones.*

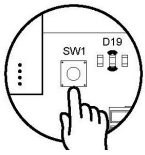
2. Wireless interface

This device provides the communication between the Zoning box control board and Wireless Thermostats and Wireless Lite Thermostats.

Keep in mind: *once this sequence is started it cannot be interrupted and the Quick Setup process should be allowed to finish.*

3. System reset button

If the whole system needs to be reset (normally a replacement board that has been used before, or at the request of the technical support as a last resource to fix a problem), press and hold SW1 until LED 19 stops flashing. A system reset will return all settings to default values and conditions.



4. Connection for optional Webserver HUB / BACnet DZK-4

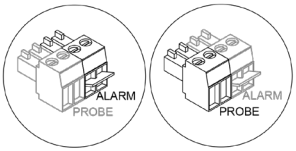
The Webserver HUB / BACnet gateway allows the communication between the DZK zoning box and Cloud platform or the BMS BACnet installation.

EN

5. DZK Interface Board
This Interface provides the communication between the DZK zoning box control board and Daikin Indoor unit, connecting to “P1 P2”.

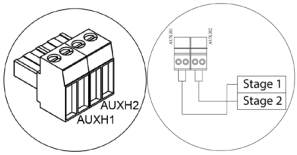
6. Actuator control outputs
These outputs are used to drive the damper actuators with 12VDC control for each damper.

7. Alarm input (normally closed)
When this input is open it will stop the Daikin indoor unit and close all dampers. This input is shipped with a jumper in the connector that should be left in place unless an alarm input is connected

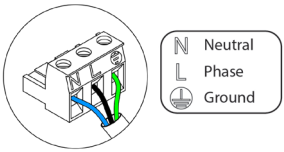


8. Protection probe input
This input is used to connect the supply temperature sensor. Type NTC; Nominal value 10 KΩ 25°C (77 °F); ß 25/85 (K) 3977 ±0,75 %

9 / 10. Heating stages
If the system includes Auxiliary Heat, when required by the heat demand, these outputs enable the first and second stages of Auxiliary Heat.
The technical specifications for the 1st and 2nd Stage Aux. Heat relay are: Imax. =1 A @ 24V, dry contacts.
If higher power is required for control, use external contactors of appropriate capabilities.



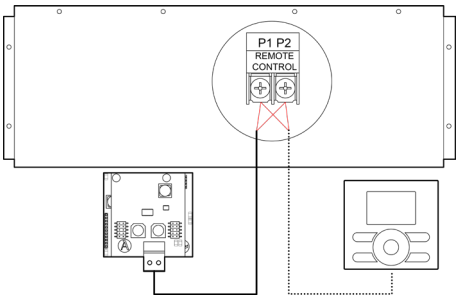
11. Power supply
Power supply 110/230 VAC line. The Zoning box control board is protected by a self-resettable fuse. This is an electronic component that does not require any action other than cycling the power to perform the reset.



DZK Interface board Connection

Complete the connections adhering to the following steps, in this order:

1. Disconnect the power supply from both the Daikin indoor unit and the DZK system.
2. Open the protective cover of the Daikin indoor unit, and locate the P1, P2 connection (to which the Daikin Navigation Remote Controller is connected).
3. Connect a two-wire cable supplied to P1 P2 on the Indoor unit



Important: *The navigation controller can be removed after commissioning the indoor unit as it is not required for the DZK-4 operation.*

4. Close the Daikin indoor unit's protective cover.
5. Power the Daikin indoor unit and the DZK system. Check the gateway LEDs (self-diagnosis).

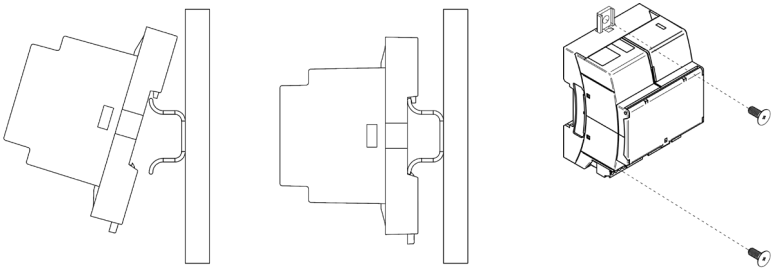
Note: *If the Navigation controller is connected to P1P2, disable the Setback function using the Daikin controllers for a proper operation of the Airzone system.*

EN

WEBSERVER HUB / BACNET GATEWAY DZK-4

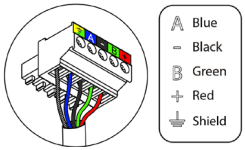
Installation

The Webserver HUB is mounted on DIN rail or on wall. It is should be placed and mounted in accordance with the current electrotechnical regulations.

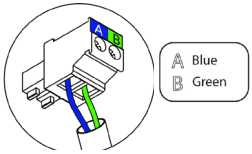


Note: *To remove the module on DIN rail, pull the the tab down to release it.*

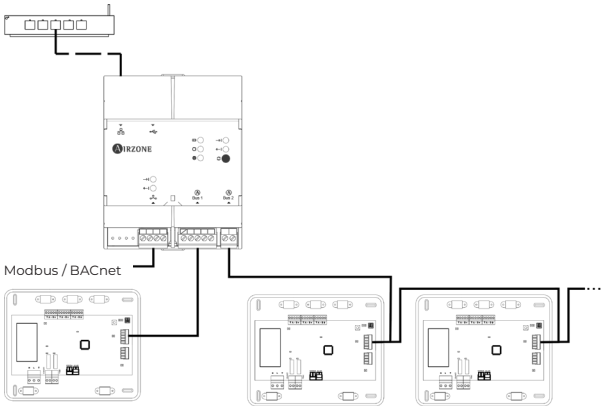
To connect with the first system main board, use the 5-pin terminal to connect the Webserver HUB / BACnet to the automation bus of the main board in order to provide power supply to the Webserver. Use the proper cable: shielded twisted pair 4 wired: 2x0,22 mm2 + 2x0.5 mm2 (2 x 23 AWG + 2 x 20 AWG). Attach the wires with the terminal screws following the color code.



To connect with other DZK system's main boards, use the 2-pin terminal to connect the Webserver Cloud to the automation bus of the other main boards. Use the proper cable: shielded twisted pair 2 wired: 2x0.22 mm2 (23 AWG – 2 wired). Attach the wires with the terminal screws following the color code.



EN



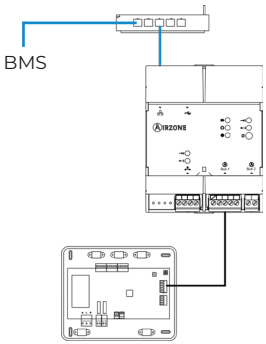
Configuration

To configure it, follow the steps described in the Airzone Cloud Webserver installation manual, available at:

https://doc.airzone.es/producto/Gama_AZ6/DZK/MI_DZK-HUB-4_MUL.pdf

Installation for BACnet/IP integration

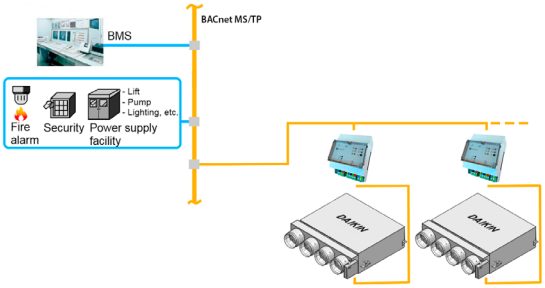
The Webserver HUB can be used for BACnet/IP integrations is connected as follow:



Note: *This BACnet/IP device is connected to the BMS by Ethernet cable.*

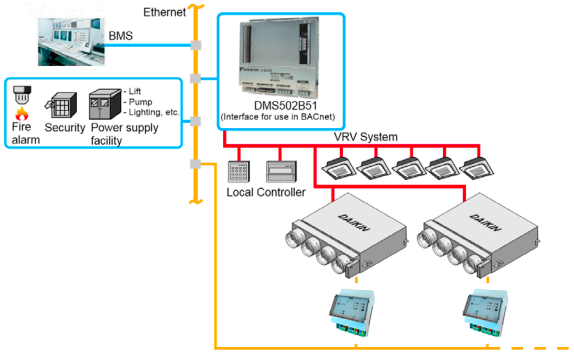
Installation for BACnet MSTP integration

The Webserver HUB can be used for BACnet MSTP integrations is connected as follow:

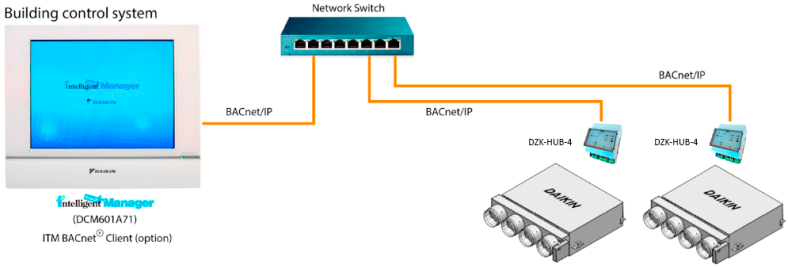


EN

The Webserver HUB can be used for BACnet IP integration as follow:



Note: *check with BMS vendor what device ID should be configured here to avoid conflict within BACnet network.*

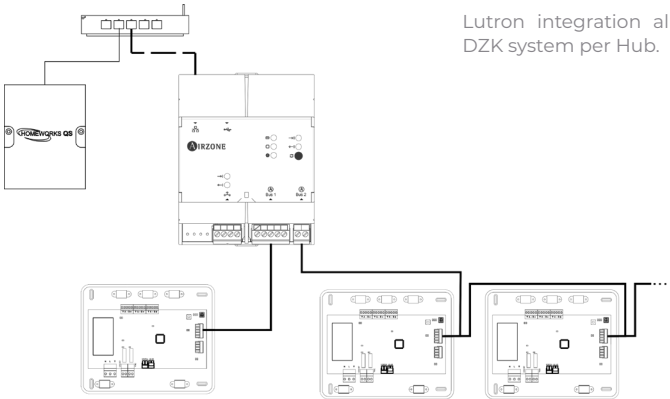


Configuration for BACnet integration

All the configuration parameters are available through Airzone Cloud. To configure it, follow the steps described in the BACnet integration manual, available at:

https://doc.airzone.es/producto/Gama_AZ6/DZK/MI_DZK-HUB-4_BACnet.zip

Installation for Lutron integration



Lutron integration allows up to 32 DZK system per Hub.

All Airzone systems must be connected to internet to offer technical support.
It is only necessary to connect **one Lutron integration gateway per installation** (control of up to 32 DZK systems). All the system control boards must be correctly addressed.

EN

Configuration for Lutron integration

All the configuration parameters are available through Airzone Cloud. To configure it, follow the steps described in the Lutron integration manual, available at:

https://doc.airzone.es/producto/Gama_AZ6/DZK/MI_DZK-HUB-4_Lutron.zip

Other compatible integrations

This device allows integration with:

Open API/Web API/Local API

Modbus

Drivers BMS/HA

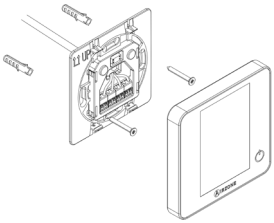
DZK-4 WIRED THERMOSTAT

EN

Installation

The Wired Thermostat is available for wall mount. The wiring should not exceed 130 ft. (40 m) and stranded 20 AWG shielded cable should be used. To mount the thermostat on the wall, take the following steps:

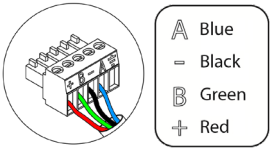
- Separate the back part of the thermostat from the wall support and make all the connections.
- Fix the back part of the thermostat to the wall.
- Place the display on the support once it is fixed.

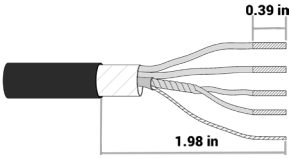


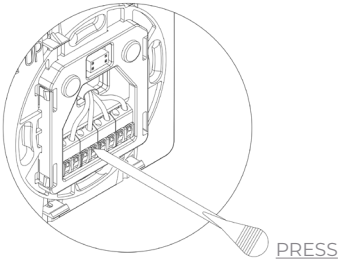
Wiring

The Wired Thermostats are connected to the DZK connection bus of the DZK Control Board. Attach the wires with the terminal screws following the color code.

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





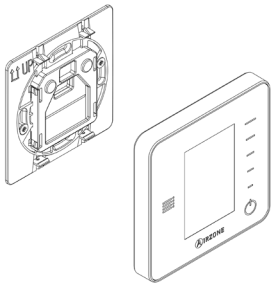


WIRELESS AND WIRELESS LITE THERMOSTATS

Installation

EN

The Wireless and Wireless Lite Thermostats are available for wall mount. The maximum distance between the Zoning box control board and the thermostat in clear line of sight is 130 ft. (40 m). To mount the thermostat on the wall, take the following steps:

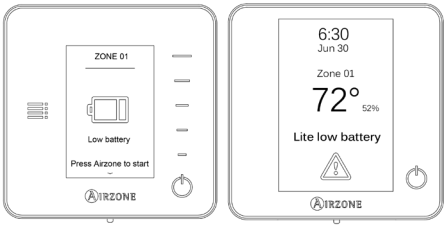


- Remove the back of the thermostat and insert the CR2450 button battery.
- Fix the back part of the thermostat to the wall.
- Place the display on the support once it is fixed.

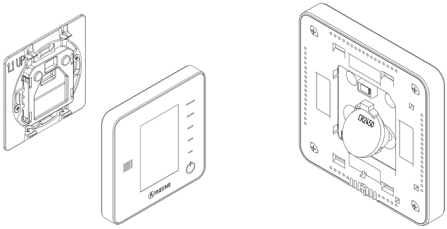
Important: *perform the pairing of thermostat in their final location. Distances less than 18 inches between the thermostat and the control board can saturate the receivers and make the pairing impossible.*

Changing batteries

When a Wireless Thermostat is running out of battery, it displays the icon on the screensaver. In the case of the Wireless Lite Thermostats, a warning message will be displayed on the Wired Thermostat. In order to know the zone of the Wireless Lite Thermostat(s) running out of battery press on the warning icon.



To replace the battery, separate the thermostat from its support and replace the battery (CR2450).Remember to deposit the old battery into an appropriate recycling point.

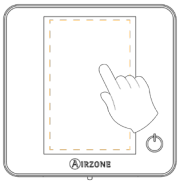


Important: *we recommend the use of top-brand batteries.*
The use of low-quality batteries may reduce the duration of use.

INITIAL CONFIGURATION

DZK-4 WIRED THERMOSTAT

EN

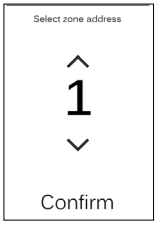


1

Languages:

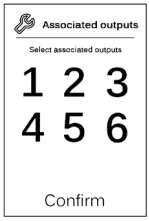
- Spanish
- English
- French

2



Select the zone associated to this thermostat. Each zone has a corresponding control output.

3



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.

4

Main: Allows the control of all installation parameters.

Zone: Only allows the control of the zone parameters

Note: *given that only one thermostat can be configured as the Main thermostat, this parameter will not appear for selection if one thermostat in the system has been already configured as the Main thermostat.temperature setting).*.

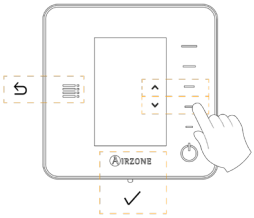
5

Finish the process, access the advanced settings and/or activate the basic function (the latter allows on/off, speed setting, operation mode setting and temperature setting).

Note: *When set to Basic mode, the user can control the following parameters: On/Off, set point, local ventilation and user settings.*

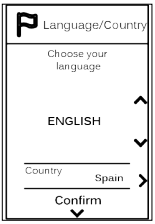
WIRELESS THERMOSTAT

EN



Keep in mind: *to access the main screen from the Wireless Thermostat screensaver, press on Airzone.*

1



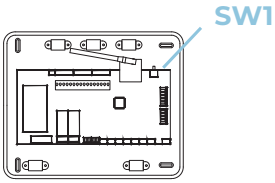
Languages:

- Spanish
- English
- French

2

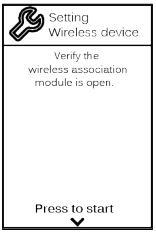
Wireless Think

Open the wireless association channel. To do so, click SW1. Once opened, you have 15 minutes to perform the association. The wireless channel can also be opened from the main stat advance setting menu.

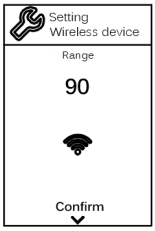


IMPORTANT: Remember not to have more than one channel open in the same installation at the same time.

3



Start the search for the wireless channel.

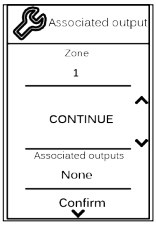


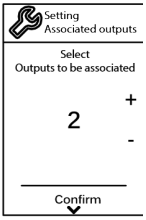
Check that the signal range is optimal (minimum 30%).

4

Select the zone associated to this thermostat. Each zone has a corresponding control output (actuator output or radiant element control relay output).

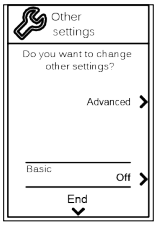
5





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.

6



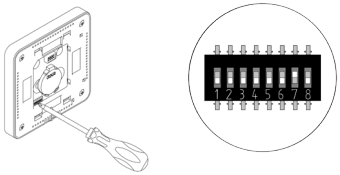
Finish the process, access the advanced settings and/or activate the *basic function (the latter allows on/off, speed setting, operation mode setting and temperature setting).

EN

WIRELESS LITE THERMOSTAT

EN

1

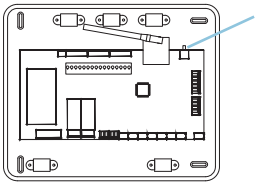


Select the zone associated to this thermostat by raising the microswitch corresponding to the zone.

Remember: if you need to change the zone number, reset the thermostat, and start association process.

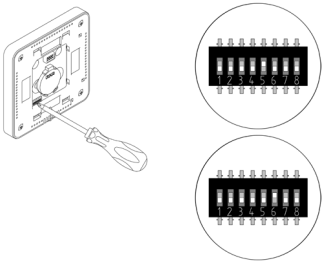
2

SW1



Wireless Lite
Open the wireless association channel. To do so, click SW1. Once opened, you have 15 minutes to perform the association. You can also open the wireless association channel through the Blueface thermostats.
IMPORTANT: Remember not to have more than one channel open in the same installation at the same time.

3



Select other control outputs associated to the zone if necessary. The zone address will be the one with the lowest number selected (for example, associated output 6 to the zone address 5).

4

If you want to configure other thermostat settings you must access the zone advanced settings menu from an Wired thermostat.

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

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

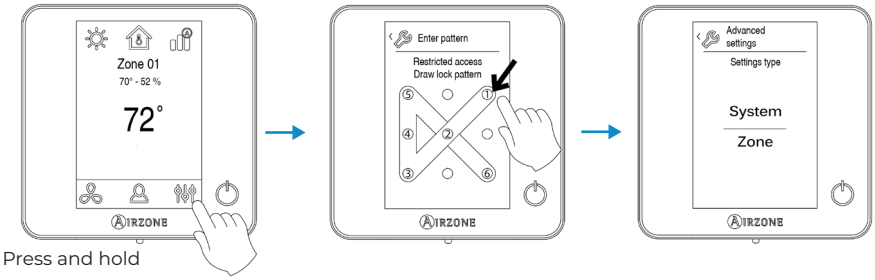
Wireless Lite Thermostat reset

If you want to return your Wireless Lite Thermostat to factory values, pull down all the microswitchs. Press on ⏻ and the LED will flash green twice when the reset process is completed.

SYSTEM ADVANCED SETTINGS

EN

WIRED THERMOSTAT



SYSTEM PARAMETERS

- **System ID.** *(Not available on systems with BACnet gateway).* 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.

Operation mode of system 1	Available operation modes of the other systems
STOP	STOP
❄	STOP, fan, ❄, droplets
droplets	STOP, fan, ❄, droplets
☀	STOP, fan, ☀
fan	STOP, fan

- **Temperature range (Stages).** *(Only available through Airzone Cloud or Wired thermostat)* This menu allows you to change the maximum set point temperature for heating mode (66 °F to 86 °F / 18 °C to 30 °C, by default 86 °F/30 °C) and minimum set point temperature in cooling mode (64 °F to 78 °F / 18 °C to 26 °C, by default 64 °F/18 °C).

EN

- **Global ventilation.** *(Only available through Airzone Cloud) This menu allows you to activate/deactivate the fan mode in all zones when the system is not actively heating or cooling any zones. By default, the global ventilation is deactivated. When activated, the following settings are used to configure Global Ventilation:*

  - **Every (min).** *Configure the length of the interval (in minutes) between periods of ventilation. Configurable from 5 to 40 minutes, in 5 minutes increments (by default, 15 minutes).*

  - **Run For (min)**. Configure the time duration that ventilation is activated (in minutes). Configurable from 5 to 20 minutes, in 5 minutes increments (by default, 10 minutes).

  ***Note:** when global ventilation is activated, a warning message will appear on the screensaver.*

- **Type of opening*.** *(Only available through Airzone Cloud or Wired thermostat)* 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, the dampers are set for Modulating.

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

- **Radio channel. (***Only available through Wired thermostat* This allows you to enable/disable the system's wireless association channel.

  ***Note:** when the radio channel is opened, it will remain open for 15 minutes.*

- **Away Mode Settings.** *(Only available through Airzone Cloud)* This option configures the following parameters of the unoccupied user mode and the vacation user mode:

  - **Hysteresis.** If the set point temperature is surpassed by the differential defined, the zone will cease demand. Range: 2 to 7˚F / 1 to 3.5˚C in steps of 1˚ / 0.5˚C. By default, 6˚F / 3˚C.

  - **Override Time.** Sets time that the zone will resume the selected away mode when the user touches the thermostat screen during an away period. Values: 10 to 120 minutes in steps of 10 minutes. By default, 60 minutes.

EN

- **Auxiliary Heat.** *(Only available through Airzone Cloud)* This menu is used to enable/disable the auxiliary heat. By default, the auxiliary heat is disabled. When auxiliary heat is enabled, the following parameters are used to configure the operation of the auxiliary heat:

  Configuration Menu

  - **Available Stages.** Defines how many stages of auxiliary heat a system has.
  - **First Supply Heat.** If the setting for Auxiliary heat is 1 or 2, then the first system to supply heat must be defined as either: Heat Pump or Aux. Heat.
    - **Fan Configuration.** Select between Electric (Fan on) or Furnace (Fan off) option. If you select Electric option, define:
    - **Fan Delay (s).** Defines the delay time (in seconds) to turn off the fan when there is no demand from the Auxiliary Heater. Possible values are 0, 45, 60 and 120 seconds

  First stage Menu

  - **First Stage Differential**. Temperature that the system has to surpass to activate the first stage of auxiliary heat. Values: 2 to 10˚F/1 to 5˚C in increments of 1˚F/0.5˚C. By default, 2˚F/1˚C.
  - **First Stage Hysteresis.** Defines the hysteresis for the operation of the first stage. Values: 1-2˚F/0.5-1˚C in increments of 1˚F/0.5˚C. By default, 1˚F/0.5˚C.
  - **Min. Time Exhausted.** Minimum time that the Heat Pump must be active before the first stage of auxiliary heat can be activated. Possible values are 0, 45, 60 and 120 minutes. By default, 45 minutes.

  Second stage Menu

  - **Second Stage Differential**. Temperature that the system has to surpass to activate the second stage of auxiliary heat. Values: 2 to 10˚F/1 to 5˚C in increments of 1˚F/0.5˚C. By default, 2˚F/1˚C.
  - **Second Stage Hysteresis.** Defines the hysteresis for the operation of the second stage. Values: 1-2˚F/0.5-1˚C in increments of 1˚F/0.5˚C. By default, 1˚F/0.5˚C.
  - **Min. Time Exhausted.** Minimum time that the first stage must be active before the second stage of auxiliary heat can be activated. Possible values are 0, 45, 60 and 120 minutes. By default, 45 minutes.

  ***Note:** if the auxiliary heat is electrical and the installation is heat pump type, then the first one to supply heat must be Heat Pump in the DZK master system.*

- **Automatic time change** *(Only available through Airzone Cloud)* This option allows change automatically winter/summer time.

EN

- **Autochange.** *(Only available through Airzone Cloud)* This option allows the user to configure the three values that define the auto-changeover operation that sets the mode of the indoor unit.

    - **Setpoint Differential.** Defines the minimum differential between heating and cooling set points. For example, if set to 2˚F, the system will force the cooling set point at least two degrees higher than the heating set point. Values: 0 to 7˚F / 0 to 3.5˚C in increments of 1˚F / 0.5˚C, by default 2˚F / 1˚C.

    - **Mode Switching Protection (min).** Defines the minimum run time before allowing a mode change. Possible values are 15, 30, 60 and 90 minutes. By default, 30 minutes.

    - **Heat OVR Temp.** If a zone has a higher heating demand than this temperature, the system reverts heating operation even if the cooling global demand exceeds the global heat demand. Possible values are: Off, 3 to 8˚F / 1.5 to 4˚C in increments of 1˚F / 0.5˚C. Default value: Off.

- **BACnet.** *(Only available through Airzone Cloud).* 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

- **Room temperature.** *Only available through Airzone Cloud)* This option allows the room temperature and relative humidity to be shown/hidden. By default, the room temperature is shown.

- **Lite step. (***Only available through Airzone Cloud and Wired thermostat)* This option configures the temperature increments (2˚F/1˚C or 1˚F/ 0.5˚C) of the base set-point for the Wireless Lite Thermostat. By default, 1˚F/0.5˚C.

- **Remote assistance. (***Only available through Wired thermostat)* This option enables/disables remote assistance. By default, remote assistance is disabled.

  ***Note:** the Remote Assistance parameter enables a qualified technician the remote access to your installation in order to perform a diagnose of it.

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

  ***Note:** in case of system reset, it will return to default values.

ZONE PARAMETERS

- **Linked zones.** Displays the linked zones and allows you to select the secondary control dampers associated with the thermostat.

- **Thermostat type** 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.*

- **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.

- **User mode setpoint.** This option is used to configure the set point temperature of each user mode for each zone.

  - **Comfort.** Heating mode: 59 to 86˚F/ 15 to 30˚C, by default 68˚F / 20˚C. Cooling mode: 64 to 86˚F/ 18 to 30˚C, by default 75˚F / 24˚C.

  - **Eco.** Heating mode: 59 to 86˚F / 15 to 30˚C, by default 66˚F / 19˚C. Cooling mode: 64 to 86˚F / 18 to 30˚C, by default 84˚F / 29˚C.

  - **Unoccupied.** Heating mode: 59 to 72˚F/ 15 to 22˚C, by default 63˚F/17.5˚C. Cooling mode: 75 to 86˚F/ 24 to 30˚C, by default 81˚F/27˚C.

  - **Vacation.** Heating mode: 50 to 61˚F/ 10 to 16˚C, by default 50˚F/10˚C. Cooling mode: 84 to 96˚F/ 29 to 35.5˚C, by default 95˚F/35˚C.

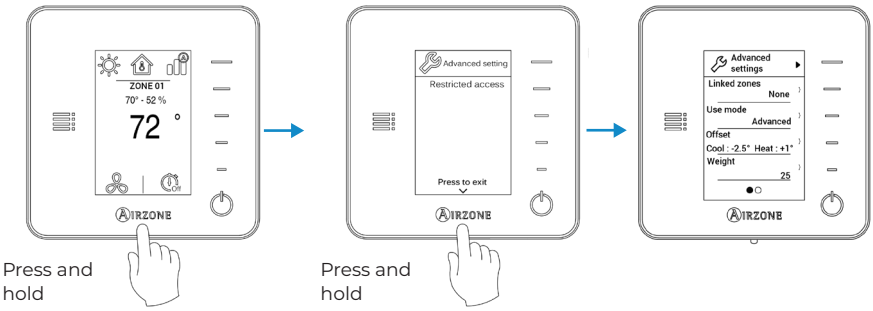
- **Weight.** This option is used to set the weight of each zone for purposes of determining system operation. The weight of the zone will be used for calculating the mode (auto-change over) or for calculating heat demands when using auxiliary heat. It is an indicator of the size / importance of the zone. Possible values range from 0-100. By default, the weighting is set to Auto and each zone's weight is automatically generated based on the number of zones. For example, if there are four zones, each zone's weight is automatically set to 25. If this option is disabled, the weight of the zone can be set manually.

- **Reset thermostat.** *(Only available through Wired thermostat).* This option resets the thermostat and returns it to factory values.

- **Basic mode** (Only available through Airzone Cloud) This allows you control the setpoint, the fan speeds and on/off.

EN

WIRELESS THERMOSTAT



***Keep in mind:** to access the main screen from the Wireless Thermostat screensaver, press on Airzone.

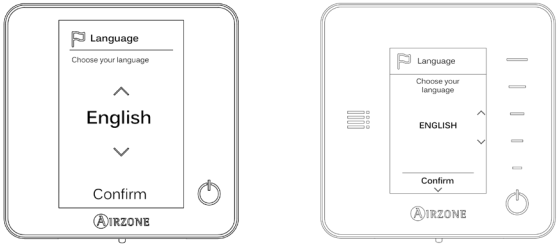
- **Linked zones.** Displays the linked zones and allows you to select the secondary control dampers associated with the thermostat.
- **Menu mode.** The thermostats can be set in Basic or Advanced mode. They are set in Advanced mode by default. These are the parameters you can control in Basic mode: On/Off, set-point temperature and local ventilation.
- **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.
- **Weight.** This option is used to set the weight of each zone for purposes of determining system operation. The weight of the zone will be used for calculating the mode (auto-change over) or for calculating heat demands when using auxiliary heat. It is an indicator of the size / importance of the zone. Possible values range from 0-100. By default, the weighting is set to Auto and each zone's weight is automatically generated based on the number of zones. For example, if there are four zones, each zone's weight is automatically set to 25. If this option is disabled, the weight of the zone can be set manually.
- **Reset thermostat.** This option resets the thermostat and returns it to factory values.

COMMISIONING STEPS

EN

TURN ON POWER TO ALL SYSTEM

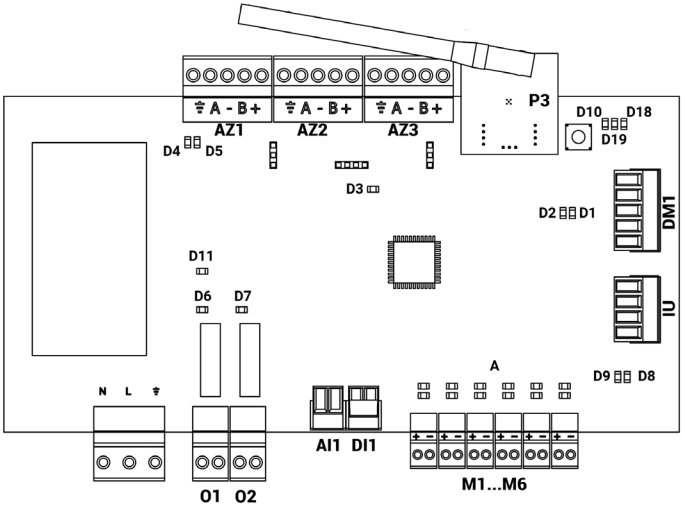
Verify that the first configuration screen is displayed on the Wired and Wireless thermostats.



AUTODIAGNOSTICS

Verify that the LEDs status of every device is correct according to the Autodiagnostic.

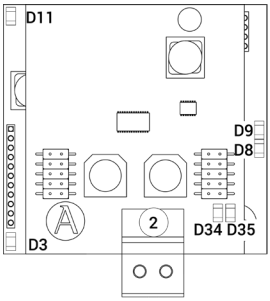
DZK-CB-4A



EN

N°	Description		
D1	Data reception from automation bus	Blinking	Green
D2	Data transmission from automation bus	Blinking	Red
D3	Main control board activity	Blinking	Green
D4	Data transmission from connection bus	Blinking	Red
D5	Data reception from connection bus	Blinking	Green
D6	1st stage auxiliary heat activated	On	Green
D7	2nd stage auxiliary heat activated	On	Green
D8	Data transmission from AC unit bus	Blinking	Red
D9	Data reception from AC unit bus	Blinking	Green
D10	Wireless data packets reception	Switches	Green
D11	Main control board power	Fixed	Red
D18	Associated wireless thermostat	On	Green
D19	Association channel for wireless thermostat: active	On	Red
A	Open dampers	On	Green
	Close dampers	On	Red

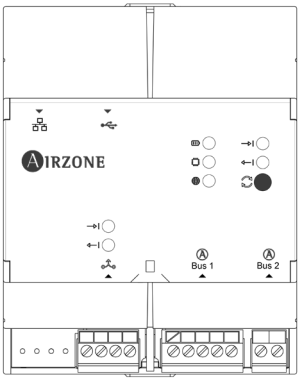
DZK Interface Board



N°	Description		
D3	Micro controller activity	Blinking	Green
D8	Data transmission to the system	Blinking	Red
D9	Data reception from the system	Blinking	Green
D11	Gateway power supply	Fixed	Red
D34	Data transmission to the indoor unit	Blinking	Green
D35	Data reception from the indoor unit	Blinking	Green

EN

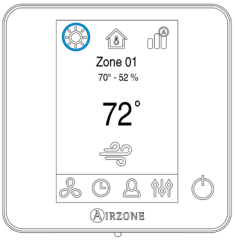
Webserver HUB/BACnet DZK-4



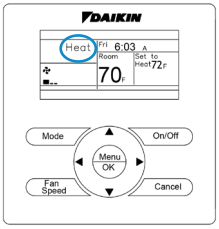
Description			
	Power	Fixed	Red
	Microswitch performance	Blinking	Green
	Connected to the Internet	Blinking	Green
	Data transmission from DZK bus	Blinking	Red
	Data reception from DZK bus	Blinking	Green
	Data transmission from integration bus	Blinking	Red
	Data reception from integration bus	Blinking	Green

COMMUNICATIONS WITH THE INDOOR UNIT - MODES / TEMPERATURE

Check that the Navigation Remote Controller receives the operation mode change from the zoning system. To verify that, change the operation mode on the Main Wired Thermostat and verify that the new mode appears in the Navigation Remote Controller.



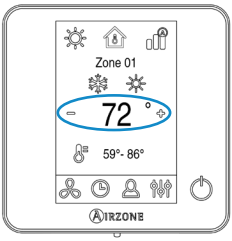
DZK-4 Wired Thermostat



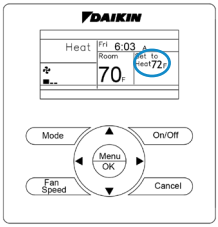
Daikin Navigation Remote Controller

Check that the Daikin Navigation Remote Controller receives the temperature changes from the zoning system. To do this, deactivate all thermostats but the Main Wired Thermostat. Change the Main Wired Thermostat set point, and verify that the set point in the Daikin Navigation Remote Controller follows the specified set point changes.

EN



DZK-4 Wired Thermostat



Daikin Navigation Remote Controller

ZONE ASSIGNMENT

Activate each thermostat, one at a time, and set it for demand by Zone Navigation menu (see the section Zone Navigation from the User's Manual). Verify that the zone where the thermostat is located is receiving air. Change the set point to eliminate the demand, and verify that the airflow stops.

AIRFLOW CONTROL SELECTION

- Check the change of the fan speed depending on the number of demand zones with the Standard mode.
- Remember that the Airflow control function is available in the Main Wired Thermostat to adapt the velocity map according to the installation requirements.

2 speeds indoor unit

	Total weight (Zones calling demand)		
Speed	**Silence**	**Standard**	**Power**
LOW	**1-70**	**1-50**	**1-29**
HIGH	**71-100**	**51-100**	**30-100**

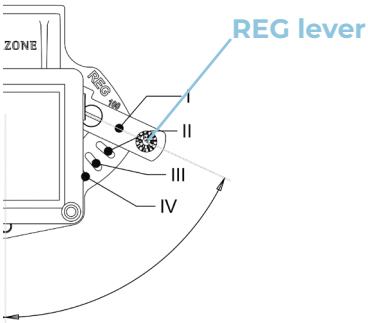
3 speeds indoor unit

	Total weight (Zones calling demand)		
Speed	**Silence**	**Standard**	**Power**
LOW	**1-57**	**1-33**	**1-18**
MEDIUM	**58-81**	**34-66**	**19-41**
HIGH	**82-100**	**67-100**	**42-100**

EN

- Check with an anemometer that the air supply to each zone is the desired amount. Verify the airflow with all zones open, and also with each zone individually open.

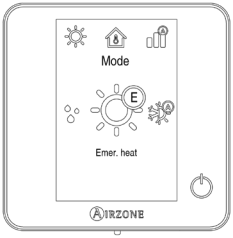
- Before mechanically adjusting the maximum opening (REG), ensure that the zone damper is closed. To do this turn off the zone to be adjusted while keeping any other zone calling demand.



OTHER CONFIGURATION PARAMETERS

- If the installation has Auxiliary Heat (the Webserver Hub must be connected) verify that it is correctly installed and configured. Verify that the Operation Mode menu displays Emergency Heat as an option.

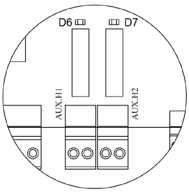
Note: In Auxiliary Heat installation, the Webserver hub must be added and All Auxiliary Heat configuration are set from the Airzone Cloud App.



- If you use Auxiliary Heat, check the relay operation in the zoning box control board to ensure it is working properly (first Aux H1, then Aux H2). To verify, set the system calling demand for heat and keep in mind that there is an action delay.

- Turn off the system and verify that Aux H1 and Aux H2 are disabled.

	MEANING	Aux.Heat status	Normal status	Color
D6	1st Stage Auxiliary heat	ON	ON	GREEN
		OFF	OFF	
D7	2nd Stage Auxiliary heat	ON	ON	GREEN
		OFF	OFF	



EXCEPTION CODES

EN

If there is any warning or error, it will be displayed on the screensaver. In case of Wired Thermostat, it also will be displayed on the main screen, press on ⚠ to access the Error menu.

WARNING

Unoccupied Override. A zone has been activated while the user mode is set to Unoccupied. The system will start working in Comfort Mode, and the zone will be active for the configured Override time (configured in the Away mode settings, see section System parameters). When the override time has finished, the system returns to its previous status.

Global Ventilation. (*only Main Wired Thermostat).* The global ventilation is activated. To set the activation intervals of the global ventilation and the duration of them (see section System parameters, Global ventilation).

Lite Low Battery *(only Wired Thermostat).* The battery (CR2450) of a Wireless Lite Thermostat has approximately 2 weeks of life left. Check which Wireless Lite Thermostat is affected by this warning through the zone number displayed in the Warnings menu.

Low battery. (only Wireless Thermostat). The battery (CR2450) has approximately 2 weeks of life left.

ERRORS

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

1 Communication error with the DZK Control Board.
5 Temperature sensor is open.
6 Temperature sensor is short circuited.
8 (Only Wired Thermostat). Wireless Lite Thermostat not found.
9 Communication error between the DZK Interface Board and the DZK Control Board.
10 (Only Wired Thermostat). Communication error between the Webserver HUB / BACnet DZK-4 and the DZK Control Board.
11 Communication error between the DZK Interface Board and the AC indoor unit.
AC unit error (only Wired Thermostat).

See the section Errors in Wired and Wireless Thermostats, to know the actions to be taken in these cases.

TROUBLESHOOTING

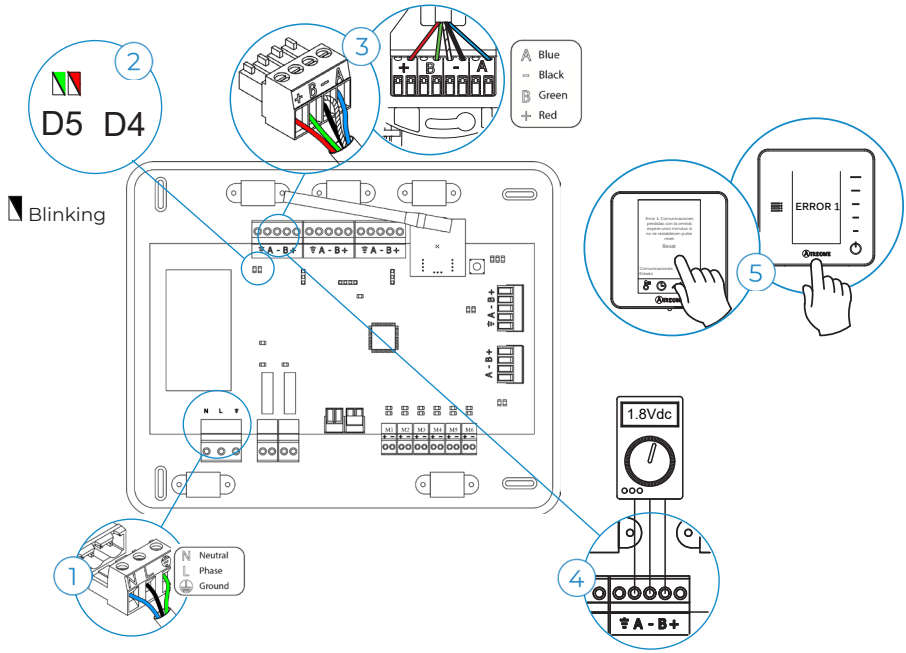
ERRORS IN WIRED AND WIRELESS THERMOSTATS

EN

Error 1: Thermostat (wired) - Communication error with the DZK 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. Status of the main control board: Check that the power supply is correct.
2. Status of the main control board: Correct operation of the connection bus LEDs.
3. Connections: Check that the polarity of the connections to the DZK 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: Press on Reset to restart the device. If the error persists, press and hold on and reset the thermostat.
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.



EN

Error 1: Thermostat (wireless) - Communication error with the DZK Control Board

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

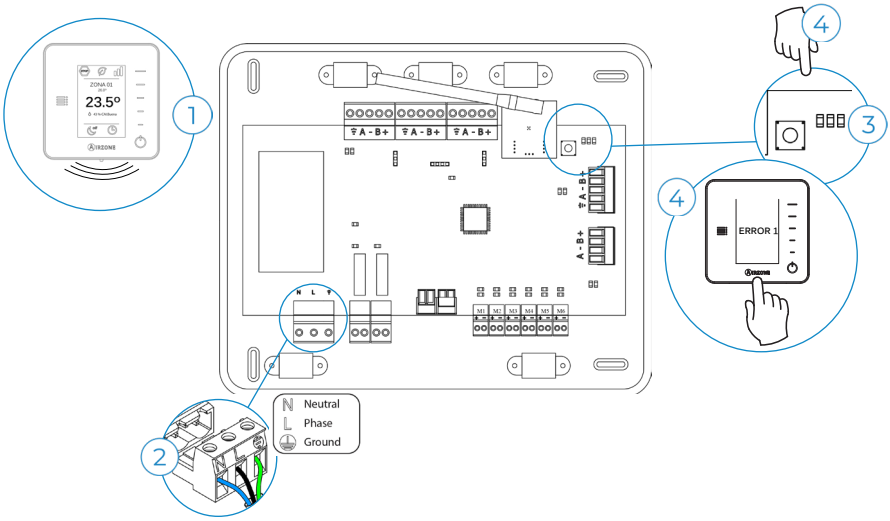
1. Thermostat status: Check the thermostat's signal range from the main control board by checking the Information parameter (see the section System advanced settings, System parameters), or by bringing the thermostat closer to the main control board. If it re-establishes communication, it will be necessary to relocate the thermostat because it was not in signal range.

2. Status of the DZK main control board: Check that the power supply is correct.

3. Status of the DZK main control board: Check the correct functioning of the wireless communication LEDs.

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 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.

EN

Error 6: Short circuit in temperature probe

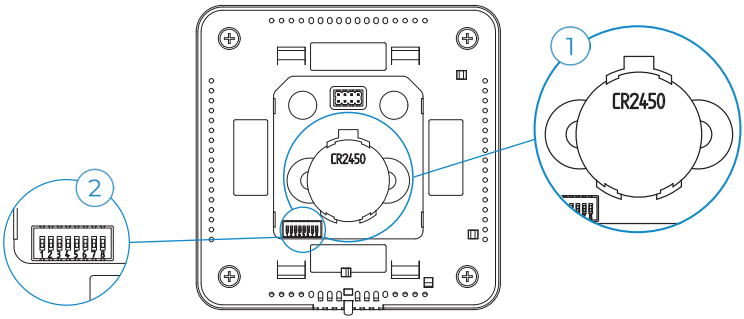
The zone loses the room temperature measurement, leaving the zone unable to generate demand. In the event of such an incident, the device must be replaced or sent for repair.

Error 8: Thermostat Lite (wireless) - Wireless Lite Thermostat not found

The zone loses the room temperature measurement of an associated wireless Lite thermostat, leaving the zone disabled and unable to generate demand. From your wired 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.*



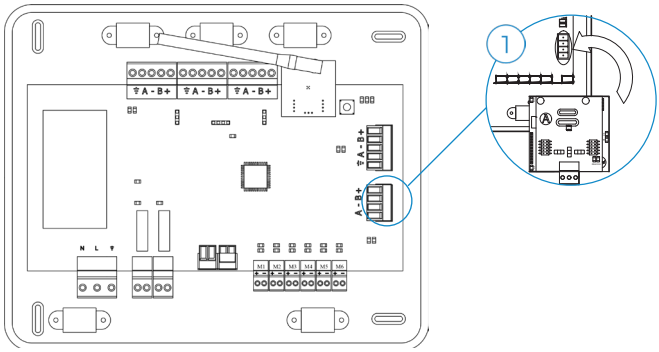
EN

Error 9: Communication error between DZK Interface Board and the DZK Control Board

The system loses communication with the AC unit. The system will open all the zones and deactivate the control from the thermostats, only allowing the operation of the unit from the Daikin thermostat. To solve this incident check:

1. Check that the DZK interface Board is properly connected to the main control board's AC Unit port.

2. Check that the status of the connected DZK interface Board LEDs is correct. To do so, make use of the troubleshooting section or your gateway's technical fact sheet.

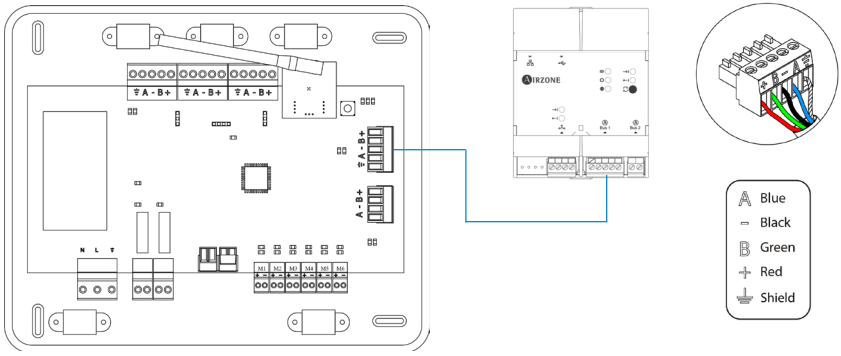


Error 10: Communication error between the Webserver HUB / BACnet Gateway and the DZK Control Board

The system loses communication with the Webserver HUB / BACnet Gateway. To solve this incident check:

1. Verify the Webserver HUB / BACnet Gateway is properly connected to the AC unit port of the DZK Control Board.

2. Check the status of the LEDs of the Webserver HUB / BACnet Gateway (see section Webserver HUB / BACnet Gateway auto diagnose).

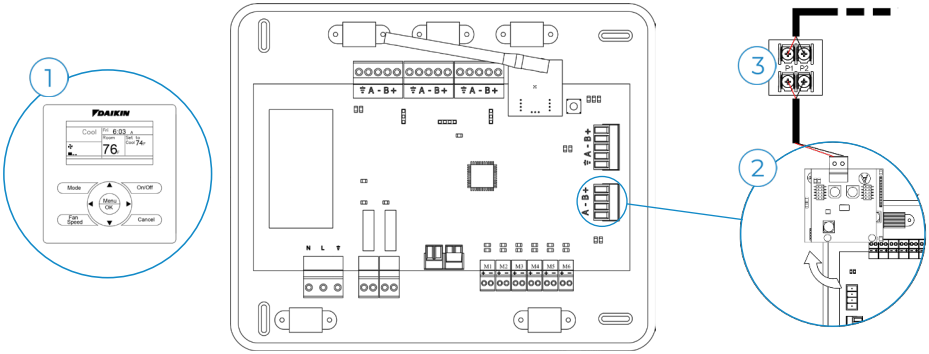


EN

Error 11: - Communication error between the DZK Interface Board and the AC indoor unit

The system 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 Daikin thermostat. To resolve this issue, make the following checks:

1. Verify if the AC unit is powered. To do this, check that the AC unit's thermostat is switched on.
2. Verify if the AC unit operates properly by itself. To do this, disconnect the AC unit DZK system and select the unit from the thermostat from the AC unit.
3. Connections: Check that the polarity of the connections to the gateway and indoor unit is correct.
4. Check the status of the LEDs of the DZK Interface Board



AC unit error

Check the type of error displayed on the Daikin Navigation Remote Controller and follow the instructions provided by the manufacturer.

ERRORS IN WIRELESS LITE THERMOSTATS

Status LED blinking red quickly - Communication error with the Zoning box Main controller

This incident blocks the control of the zone. Check that "Error 1" is not displayed on all thermostats. If so, verify the proper operation of the main board. To solve this incident check:

EN

1. Thermostat status: Check the signal range of the thermostat. Move the thermostat closer to the Main control board. If communication is reestablished, it means that the thermostat was out of range and must be permanently relocated within range.

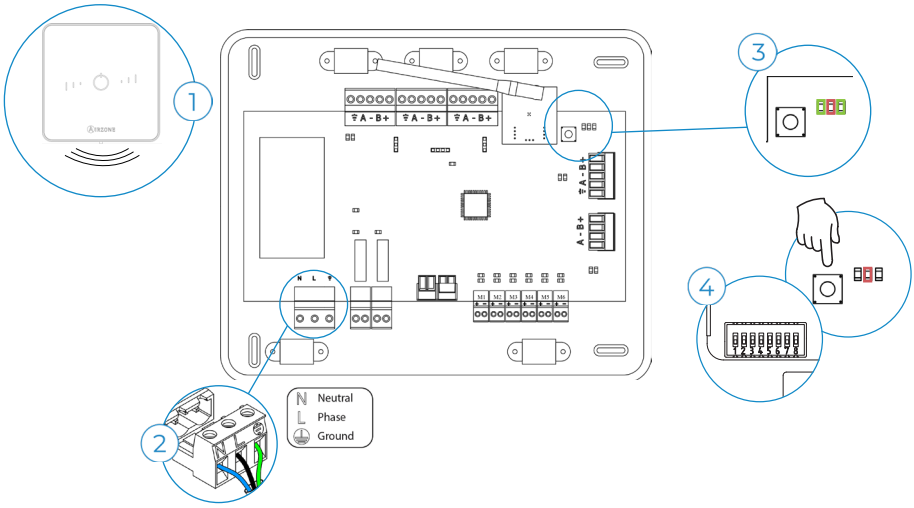
2. DZK Control Board status: Correctly powered.

3. DZK Control Board status: Proper operation of the LED of wireless communication.

4. Restart the zone and re-associate it with the system. To do this, pull down all the microswitchs, reinsert the thermostat in its base and press on the thermostat. The LED will flash green twice when the reset process is completed.

   Keep in mind: *To associate the thermostat, first open the association radio channel pressing the SW1 at the DZK Control Board or from any Wired Thermostat, activating the Radio channel parameter inside Advanced Settings, system parameter.*

5. Restart system: If you restart the system, this error may be displayed in the thermostats at the beginning of the process. This message should disappear after around 30 seconds.



EN

MORE SYSTEM INCIDENCES

Wired Thermostat does not light up

1. Verify the cable connection between the Wired thermostat and the DZK Control Board (see section Wired Thermostat, Wiring). Never use solid wire for this connection.

2. Verify that voltage between the poles (A/ -) and (B/ -) is correct (1.8 Vdc).

3. The zone controlled from the Wired Thermostat cannot be remotely accessed. After 45 minutes, its damper(s) will open and remain open until the problem is fixed.

4. From any other zone thermostat, accessing the remote zones by selecting All zones will allow you to change the Operation Mode until the Wired Thermostat returns to normal operation. See the User manual.

5. If the thermostat is replaced, only perform the initial configuration (see section Initial configuration). All other parameters and settings will be recovered automatically from the Control Board.

Wireless Thermostat does not light up

1. Check the battery and replace it if necessary.

2. The zone controlled from the Wireless Thermostat cannot be remotely accessed. After 45 minutes, its damper(s) will open and remain open until the problem is fixed.

3. If the thermostat is replaced, only perform the initial configuration (see section Initial configuration). All other parameters and settings will be recovered automatically from the DZK Control Board.

The AC unit does not start even if everything is OK. After setting any mode, the Wired Thermostat shows User mode STOP

1. Verify that there is a jumper between the contacts of the Alarm connector (see section DZK Zoning box, Connection).

When accessing Remote zones, one of them is not listed

1. Verify that the thermostat of the zone missing is working correctly. To this end, activate/ deactivate the zone and check that the damper opens/closes correctly.

2. The zones controlled for Wireless Thermostats or Wireless Lite Thermostats. After a power supply failure, it can take up to 4 minutes to have all the zones remotely accessible.

EN

On activating the zone, no air is supplied to its grille(s) if the fan coil is on

1. Verify that the damper assigned to the thermostat is not blocked by the insulation stopper (see section DZK Zoning box, Assembly).

2. Verify that the motor is electrically connected properly. There is a connection at about 4 inches from the actuator (see section DZK Zoning box, Connection).

3. Verify in the actuator connection indicated above, that when demand is created from the thermostat, there are 12VDC between the contacts indicated above. This voltage will be present for about 5 seconds (see section DZK Zoning box, Connection).

4. Verify that the zone assigned to the thermostat is the correct one. If it is not the correct damper, proceed to reset the incorrectly assigned thermostats and reassign to the correct zones.

   To reset the thermostats, follow these steps:

   - Wired Thermostat: Advanced configuration menu > Wired Thermostat > Zone parameters.
   - Wireless Thermostat: Advanced configuration menu > Wireless Thermostat.
   - Wireless Lite Thermostat: Wireless Lite Thermostat reset.

   In order to re-configure the thermostats, see section Initial configuration.

If one or more zones do not control the temperature

1. Verify that the User mode is not Stop.

2. Verify room and set point temperatures in the non-working zone thermostat to see if it is creating demand.

3. Verify that the damper actuator is connected properly at about 4 inches from the actuator (see section DZK Zoning box, Connection).

4. Verify that the LEDs D5 and D6 located in the DZK Interface Board mounted over the Control Board are blinking (see section DZK Interface Board auto diagnosis). If D5 and D6 do not display normal behavior (constant blinking), verify the wiring between the DZK Interface Board and the Indoor Unit (see section DZK Interface Board, Connection and configuration).

5. Verify that no ERROR number is shown on the screen (see section DZK Exception codes, Errors and section Errors in Wired and Wireless Thermostats).

The damper-modulating functionality does not work as expected

1. Verify that the damper REG level is located as configured in the Type of opening parameter (see section Damper setting and section System parameters).

In Heat mode, when trying to change to Cool mode, the thermostat returns to Heat mode

1. The operation mode in the installation is controlled by the Daikin master indoor unit. The operation mode can only be changed from the DZK Main Wired thermostat connected to Daikin master indoor unit.

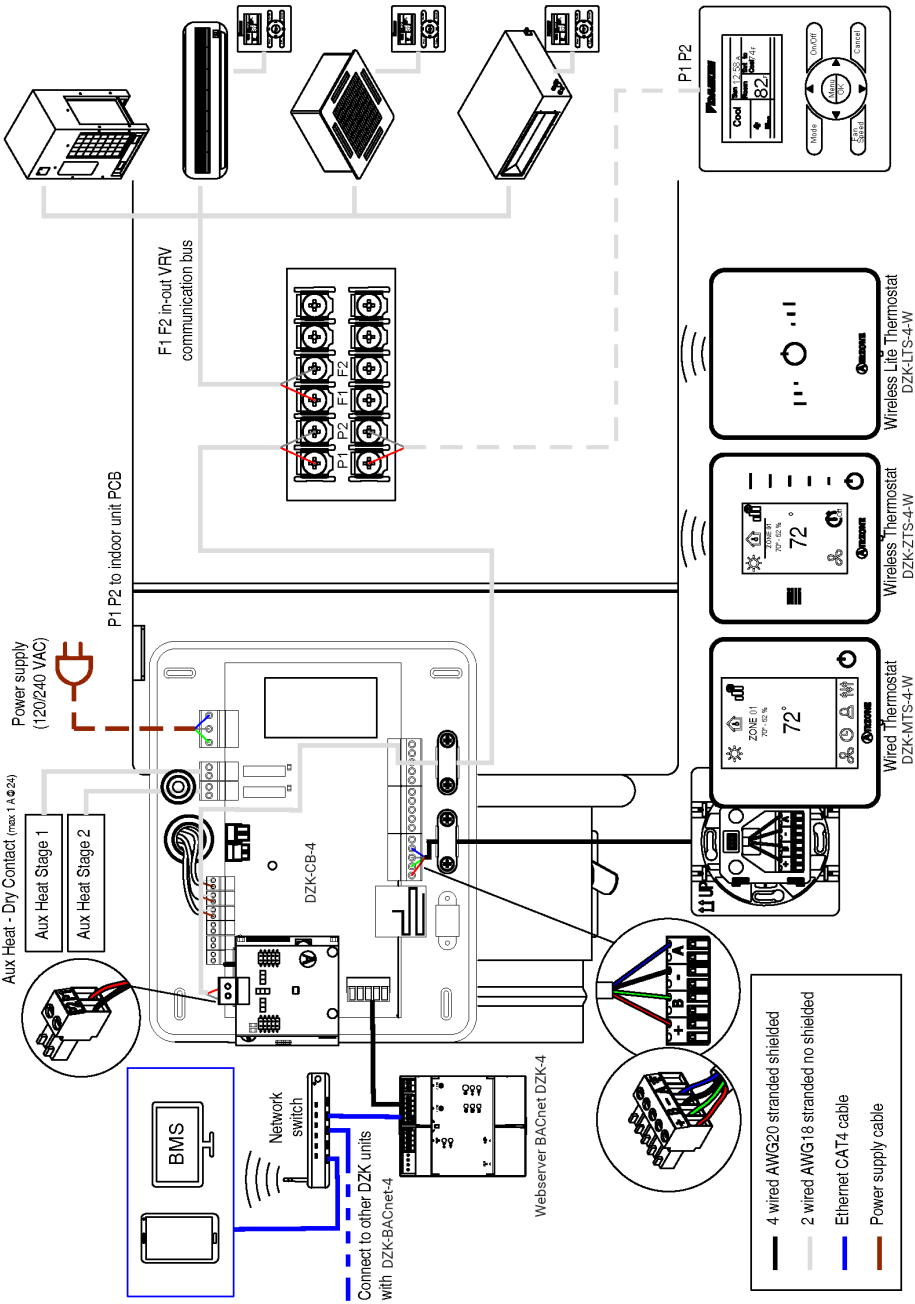
In Heat Pump installations, the DZK zoning box connected to a slave indoor unit, changes to Stop mode

1. This is caused by the incompatibility between the subordinate unit mode and the master unit. Check the master unit is not operating in Fan mode (see User manual).

The indoor unit starts with the system set on off (off or user mode on Stop)

1. Verify that the Setback field setting on the Daikin indoor unit is disabled (see section DZK Interface Board, Connection and configuration).

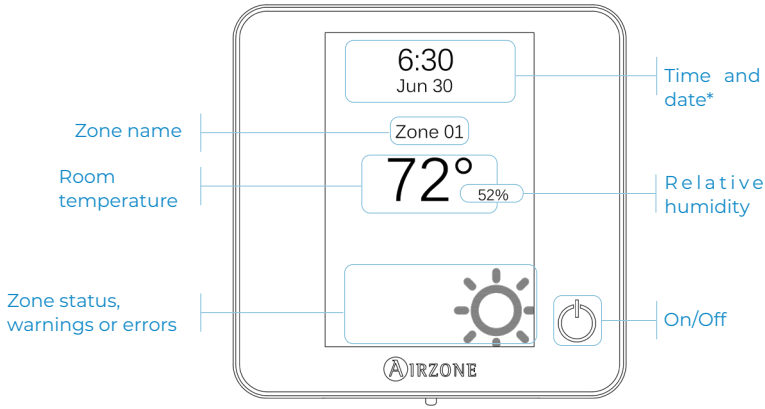
EN


F1 F2 in-out VRV communication bus
P1 P2
P1 P2 to indoor unit PCB
Power supply (120/240 VAC)
Aux Heat - Dry Contact (max 1 A @ 24)
Aux Heat Stage 1
Aux Heat Stage 2
DZK-CB-4
Wireless Lite Thermostat DZK-LTS-4-W
Wireless Thermostat DZK-ZTS-4-W
Wired Thermostat DZK-MTS-4-W
BMS
Network switch
Connect to other DZK units with DZK-BACnet-4
Webserver BACnet DZK-4
4 wired AWG20 stranded shielded
2 wired AWG18 stranded no shielded
Ethernet CAT4 cable
Power supply cable

NAVIGATION TREES

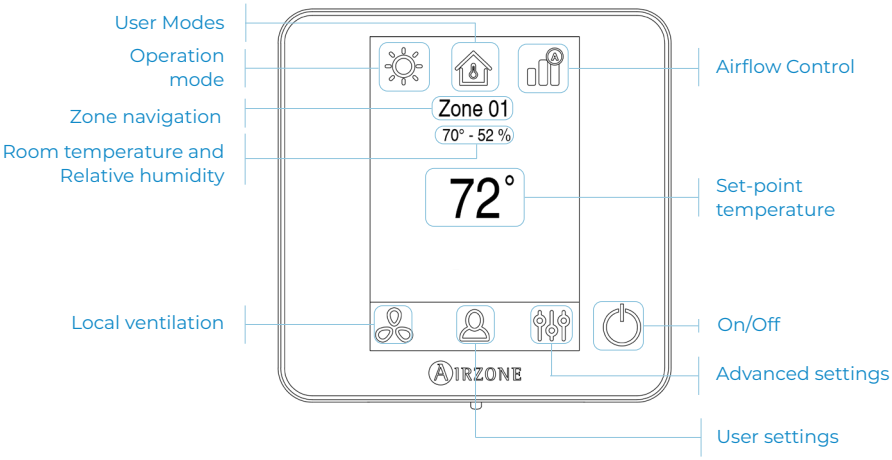
WIRED THERMOSTATS

Screensaver



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

Main screen



EN

Screensaver

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

*Configurable values

Touch any place on the screen.

Main screen

Operation mode
- Cool
- Heat
- Auto
- Dry
- Ventilation
- Emergency Heat

User modes
- ECO
- Vacation
- Stop
- Comfort
- Unocuppied
- Night time

Airflow Control
- Power
- Standard
- Silence

User settings
- Units
- Language
- Brightness
- Information

Current zone

Room temp.

Set-point temp.
+Temp.
-Temp.

Relative humidity

Local ventilation

ON/OFF

Press and hold on the zone settings Icon.

Advanced settings

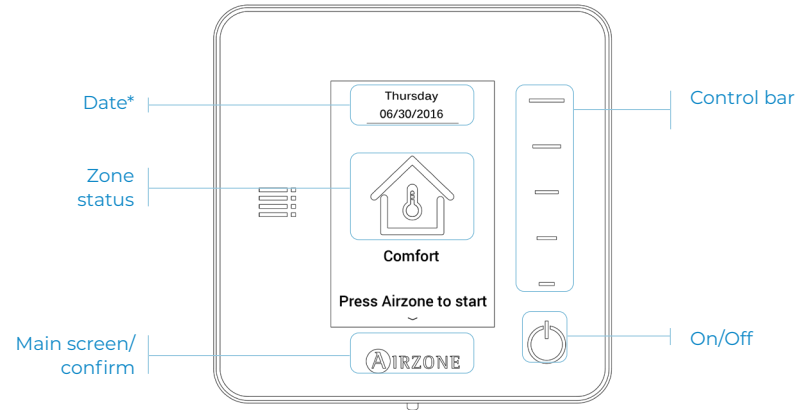
Zone
- Linked zones
- Thermostat type
- User mode setpoint
- Control stages**
- Offset
- Weight
- Reset thermostat

System
- System ID**
- Temperature range
- Type of opening
- Radio channel
- BACnet**
- Lite step
- Remote assistance
- Reset system

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

WIRELESS THERMOSTATS

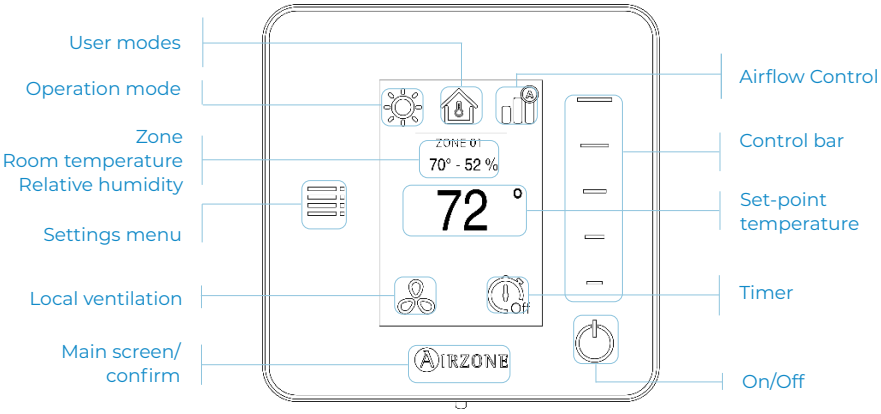
Screensaver



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

Main screen

Access the main screen by pressing "Airzone" from the screensaver:



EN

Screensaver

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

*Depending on the devices connected

Press on Airzone.

Main screen

INFORMATIVE ICONS

Operation mode
- Cool
- Heat
- Auto
- Dry
- Ventilation
- Emergency Heat

User modes
- ECO
- Vacation
- Stop
- Comfort
- Unocuppied
- Night time

Airflow Control
- Power
- Standard
- Silence

Relative humidity and Room temperature

Current zone

Set-point temp.
+Temp.
-Temp.

Timer

CAPACITIVE BUTTONS

On/Off

Airzone

Settings menu
Local ventilation
Timer
Information
*Zone navigation
*Only available if no Master wired thermostat.

Control bar

Press and hold twice on Airzone.

Advanced settings

Linked Zones
Menu Mode
Offset
Weight
Reset Thermostat

DZK

DAIKIN ZONING KIT

MIAZDZKEN400

Phone: (855) 770-5678

http://www.daikinac.com