User's Manual





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WARNINGS AND ENVIRONMENTAL POLICY

WARNINGS

For your security, and to protect the devices, follow these instructions:

- Do not manipulate the system with wet or damp hands.
- Disconnect the power supply before making any connections.
- Take care not to cause a short circuit in any of the system connections.

ENVIRONMENTAL POLICY



Do not dispose of this equipment in the household waste. Electrical and electronic equipment contain substances that may damage the environment if they are not handled appropriately. The symbol of a crossed-out waste bin indicates that electrical equipment should be collected separately from other urban waste. For correct environmental management, it must be taken to the collection centres provided for this purpose, at the end of its useful life.

The equipment components may be recycled. Act in accordance with current regulations on environmental protection.

If you replace it with other equipment, you must return it to the distributor or take it to a specialized collection centre.

Those breaking the law or by-laws will be subject to such fines and measures as are laid down in environmental protection legislation.



AIRZONE INTERFACES

Airzone thermostats control the air conditioning and boost the energy efficiency of the AC unit.

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Both main and zone thermostats can be easily configured. From the main thermostat you can select the available operation modes, define the user mode or select the airflow control of the unit.

AIRZONE BLUEFACE



Interface with a 3.5" color touch screen for controlling the zone.

- Control of set point temperature. Displayed in increments of 0.5°C/1° F.
- Configurable set point range for Cooling and Heating.
- Room temperature and relative humidity reading.
- Operation mode, User mode and Airflow control.
- Timer function.
- Zone navigation.

Timer function.

available).

- Time schedules.
- Configurable as main or zone thermostat.

AIRZONE THINK



AIRZONE LITE



Low-energy E-ink interface for controlling the zone through capacitive buttons.

Configurable set point range for Cooling and Heating.

Room temperature and relative humidity reading.

Control of set point temperature. Displayed in increments of 0.5°C/1° F.

Main zone navigation (Only available if there is no Blueface Thermostat

Interface for controlling the air conditioning through capacitive buttons.

- On/Off button.
- Allows adjustment of the base set point temperature in increments of ± 1° C/2° F up to a limit of ± 3° C/6° F. This base set point temperature can be configured only by a Blueface Thermostat.
- Room temperature and relative humidity sensing.



BLUEFACE THERMOSTAT

MAIN SCREEN DISPLAY



Operation Mode. Displays the current mode of temperature control: Cool, Heat, Auto and Emergency Heat (depending on the installation). Direct expansion systems include Dry mode.

User Mode. Allows to quickly change the configuration of the system with preloaded settings adapted to daily situations: Eco, Vacation, Stop, Comfort, Unoccupied or Night time.

Airflow. Depending on the installation, regulates the airflow quantity. Available options: Silence, Standard, Power.

Fan speed. Depending on the installation, sets the operating speed of the AC unit fan: Low, Medium, High and Automatic.

Current Zone/Zone Navigation Menu. Displays the current zone and allows access to zone navigation menu.

Current Room Temperature. Displays the current room temperature where the thermostat is located. Note: The range of measured room temperature goes from 10° C/50° F to 35° C/90° F, if the room temperature is out of these limits, the temperature will be displayed as < 10° C/50° F or > 35° C/90° F.

Relative Humidity. Displays the relative humidity of the zone.

Current Set Point Temperature. The programmed temperature for a zone. Press the set point temperature to switch between heating and cooling set points. Press + or - to manually adjust the set point temperature by increments of $\pm 0.5^{\circ}$ C/1° F.

Zone Demand. This icon will be displayed if the zone is actively cooling or heating the space.

Local Ventilation. Allows the activation or deactivation of the fan mode in the selected zone when the system is no longer actively cooling or heating the zones.

Note: Press the Local Ventilation icon to change its value.

Time Schedule Programming. This menu enables to program the system and to activate/deactivate time schedules.

User Settings. This parameter controls several functions such as the language, screen brightness, etc.

Zone Settings:

Timer. Automatically switches off the zone after 30, 60 or 90 minutes. Heating stages. Select the stage to be controlled in heating and cooling: Air, Radiant or Air+Radiant. Lite Settings. Available when navigating to a Lite Thermostat from a Blueface Thermostat.



SCREENSAVER

The screensaver activates after about 10 seconds of inactivity, displaying the following information:



Time and Date. This information can be edited from the user settings menu.

Current Zone. Displays the current zone.

Current Room Temperature. Displays the current (measured) temperature where the thermostat is located.

Relative Humidity. Displays the humidity of the zone.

Operation Mode. Displays the current operation mode of the system.

On/Off. Switches On/Off the zone.

Touch the screen of the interface to go from the screensaver to the home screen.

BASIC USE OF THE BLUEFACE THERMOSTAT

Adjusting the temperature

 $^{\circ}$ On/Off. Press to switch on/off the zone.

23°Temperature Control. Displays the current set point temperature. Adjust the set point temperature on the Blueface Thermostat following the next instructions:

Press the set point temperature to switch between heating and cooling set points. Press + or - to manually adjust by increments of 0.5° C/1° F.

The permitted temperature range is:

- Heating mode: 15° C/59° F 29° C/84° F.
- Cooling mode: 18° C/64° F 30° C/86° F.

There is a minimum difference allowed between heating and cooling set point temperatures. The system will prevent setting a temperature within the protection range.



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Operation Mode.

To change the Operation Mode from the Home Screen, press the Operation Mode icon and select the desired operation mode:

*Cool. In this mode, the conditioning unit will start a cooling cycle any time that any zone is in cool demand (T_{set-Point} < T_{room}).

 $\dot{\Sigma}$ Heat. Enables the heating cycle whenever a zone is in heating demand (T_{set-Point} > T_{room}).

*Auto. The Auto mode allows automatic switching between cool and heat, depending on the global demand.

b Dry. Only available in direct expansion systems. The system works in dry mode, refreshing the zone (reducing the humidity) when any of the zones is generating demand (T_{set-Point} < T_{room}).

Note: Dry mode decreases humidity in the room by entering the dehumidification cooling cycle.

* Emergency Heat. This mode activates the Auxiliary Heat to provide heated air in case of a mechanical failure in the system. Note: This mode is only visible when the installation includes an auxiliary heating device.

User Mode

To change the User Mode from the Home Screen, press the User Mode icon and select the desired mode:

- Comfort. Default and standard user mode. The desired set point temperature can be selected using the predefined temperature ranges.
- arnothing Eco. The range of available set point temperatures change for more efficient operation.
- Night time. The system automatically changes the set point temperature 0.5° C/1° F every 30 minutes in up to 4 increments of 2° C/4° F in 2 hours. When cooling, the system increases the set point temperature; when heating, the system decreases the set point temperature.
- X Unoccupied. To be used when there is no presence detected for short periods of time. A more efficient set point temperature will be set. If the thermostat is activated, the zone will start running in comfort mode.

D Vacation. This mode feature saves energy while the user is away for extended periods of time.

Stop. The air-conditioning system will remain switched off regardless of the demand status of any zone, all the motorized dampers will remain opened.

Airflow

Select the control algorithm that best fits the installation. The available options are:

Silence. The fan speed is lower than in standard mode to reduce the noise.

- Standard. Default setting. The system automatically regulates the fan speed based on the number of zones calling for cooling or heating.
- Power. The fan speed is higher than in standard mode to increase the flow.

Fan Speed

It is used to set the airflow control of the AC unit fan. The airflow control is set in automatic mode by default, imposing the flow depending on the number of zones in demand:

High speed.



Automatic speed.

Low speed.



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Local Ventilation

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This option enables the activation so of the ventilation in the selected zone when the system is not actively cooling or heating any of the zones.

Important: In Heat Pump installations, it is recommended not to activate the global and local ventilation in an Airzone system connected to the master indoor unit. It may cause the Stop user mode to turn off the rest of the Airzone system.

ADVANCED USE OF THE BLUEFACE THERMOSTAT

O Time Schedule

Access the time schedules menu by pressing the time schedule icon. Press on the days to access to the available schedules. To create a new schedule, **press "Add new" and** follow the next steps.



- 1. Change the name of the schedule by pressing and holding on it.
- 2. Select the zone/zones where the schedule applies.
- 3. Select the desired days of the week.
- 4. Select the type of time schedule to apply. There are three types of schedules:

User Mode: Allows to choose the user mode and ventilation of the selected zones. Temperature: Allows to choose the temperature of the zone for cooling and heating mode. On/Off: Turns on and off the zone.

- 5. Once the type of schedule is selected, select the time to start the schedule.
- 6. Finally, press the right arrow icon > to access to the summary of the schedule and confirm or go back if it is necessary to modify any parameter.

Note: The schedules will activate when pressing the confirm button.

To activate/deactivate or modify a schedule, press the desired schedule to access the edit setting and then press the On/Off selector or parameters to modify. Press and hold on any schedule to see all the available settings:

Edit: Changes the name of a schedule.

To edit the name of a schedule, press and hold the name of the zone to access the name editor. Then, change the name. Keep in mind: If a wireless zone is renamed, the name will be displayed in the wireless thermostat after 5 minutes of inactivity or after the first touch, whichever occurs first.

Delete: Deletes an existing schedule.

Copy: Copies a schedule to apply it in any other zone.



Cone Navigation

After pressing on the name of the zone, a list with all the zones and their status will be displayed. This screen enables the control of all the zones at the same time or individually, it is also possible to switch on/off the zones from this screen, press < and > to see the rest of the zones.



The "All zones" option gives access to the control of all the zones at the same time, broadcasting the changes to all of them. Press on the zone's name to access to all the parameters of the zone and control them from your main thermostat. When the system detects a temperature error on a specific zone, the zone displays the error code instead of the room temperature (see section *Warnings and errors*).

A User Settings

These settings control and edit all the basic functionalities. Touch once to display the shortcuts. Press on each icon to access the parameters.

- P Language. Select the language.
- $^{m Q}$ Brightness. Adjust the brightness, and enable or disable the screen brightness when the screen saver is active.
- Date and time. Press on the clock to set the time and the format type (12 or 24 hours). Press on the calendar to set the date. Installations with webserver enable automatic time change.
- ⁽¹⁾ Information. This parameter provides information on:
 - Zone: firmware, zone, association, actuator or status of the communications.
 - System: firmware, settings and information about the system controllers.
 - Devices: It displays the elements connected to the system.
 - Webserver: firmware, IP address, gateway, MAC and PIN.
 - Warnings and errors on system.

 $\ref{eq: Clean screen: Select this option to clean the screen. The touch screen will lock for a few seconds.$



% Zone Settings

Press on the icons to access the parameters.

Timer. It is an auto power-off timer of the zone:

Off. Timer is not activated.

 \mathbf{G} 30. It activates the timing and switches off the zone after 30 minutes.

60. It activates the timing. After 30 minutes, the zone varies one degree its temperature. After 60 minutes, the zone will switch off.

90. It activates the timing. After 30 minutes, the zone varies one degree its temperature. After 60 minutes, the zone varies another degree the temperature. Finally, after 90 minutes, the zone will switch off.

Heating stages. The available parameters are:

♣ Air: Only uses air stage.

Radiant: Only uses radiant air.

✓ Air+Radiant: The system combines both stages to reach comfort quickly and efficiently.

Note: For security reasons, the zone will turn off after changing any setting.

Lite Settings. This parameter defines the base set-point temperature for zones with an Airzone Lite Thermostat and enables to turn off the wired Lite Thermostat after some seconds (indicated in the zone status).
Note: To access the Lite settings, go to a zone controlled by a Lite thermostat through the zone navigation menu.



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WARNINGS AND ERRORS

⁽ⁱ⁾ Warnings

Unoccupied Override. A zone has been activated while the user mode is set on Unoccupied. The system will start using the Comfort Mode during the selected override time. When the override time has expired, the system returns to its previous status.

Window. The air conditioning of the zone has been suspended due to open window. Only available if the window contact of the system is activated.

Occupancy. No occupancy has been detected in the zone for the last 5 minutes. Therefore, the Sleep mode is activated (the zone will switch off after 90 minutes). Only available if the presence contact is activated.

Lite Low Battery. Displayed when Lite interfaces have low battery. It has 2 weeks of life left in normal conditions.

▲ _{Errors}

Error 1. Communication error with the control module.

Error 2. Communication error with the main control board.

Error 3. Motorized element not connected to the actuator output.

Error 4. Motorized element blocked.

Error 5. Temperature sensor is opened.

Error 6. Temperature sensor is short circuited.

Error 8. Lite thermostat not found.

Error 9. Communication error between the communications gateway and the system.

Error 10. Communication error between the BACnet interface and the main control board.

Error 11. Communication error between the communications gateway and the indoor unit.

Error 12. Communication error between the webserver and the main control board.

Error 13. Communication error between the main control board and the control module of radiant elements.

AC Unit error. Direct expansion unit error.







THINK THERMOSTAT

MAIN SCREEN DISPLAY



Navigate through the Think Thermostat by pressing the side buttons on the control bars.

Operation Mode. Displays the operation mode selected from the Main thermostat or from the Think thermostat if it is configured as Main: Cool, Heat, Auto and Emergency Heat (depending on the installation). Direct expansion systems include Dry mode.

User Mode. Displays the User Mode selected from the Main thermostat or from the Think thermostat if it is configured as Main: Eco, Vacation, Stop, Comfort, Unoccupied or Night Time.

Airflow. Depending on the installation, displays the Airflow Control selected from the Main thermostat or from the Think thermostat if it is configured as Main: Silence, Standard or Power.

Fan speed. Depending on the installation, sets the operating speed of the AC unit fan: Low, Medium, High and Automatic.

Zone. Displays the current zone.

Current Room Temperature. Displays the current temperature in the room where the Think thermostat is located. Note: The range of measured room temperature goes from 10° C/50° F to 35° C/90° F, if the room temperature is out of these limits, the temperature will be displayed as < 10° C/50° F or > 35° C/90° F.

Relative humidity. Indicates the relative humidity of the zone.

Control Bar. Adjusts (by pressing or by sliding) all the parameters controlled by the Think Thermostat. Note: Press once to adjust the set point temperature by a single degree. Slide to adjust the set point temperature in larger steps.

Setting Parameters. Press to access to Mode, User mode, Airflow control/Fan speed, Local ventilation, Timer, Heating stages and Information parameters.

Current Set Point. Displays the temperature set point from the Think Thermostat control bar.

Zone Demand. This icon will be displayed if the zone is calling for demand.

Local Ventilation. This option allows activation or deactivation of the ventilation in the selected zone during system inactivity periods.

Timer. Automatically switches off the zone after 30, 60 or 90 minutes.

On/Off. Turns On and Off the zone where the thermostat is located.

Airzone. Button used to confirm, return to home screen and to switch between the heating set point and cooling set point.



SCREENSAVER



The screensaver activates after about 10 seconds of inactivity, displaying the following information:

Date. Displays the date of the system. It is defined by the Main Thermostat in user settings.

Zone Status. It displays information about the status of the zone: the state (on/off) and the user mode. In case of failure, it also displays all the errors.

Airzone. Returns to the home screen.

When the screensaver is active, press the Airzone icon to get to the home screen.

BASIC USE OF THE THINK THERMOSTAT

Adjusting the temperature

On/Off. Press to turn the zone on/off.

23°Temperature Control. The temperature displayed on the screen is the current set point temperature. Adjust the set point temperature on the Think Thermostat following the next instructions:

Select the set point temperature using the control bar (by pressing or sliding) to manually adjust by increments of 0.5° C/1° F. Press once to adjust the set point temperature by increments of 0.5° C/1° F, slide to adjust the set point temperature in larger steps.

The permitted temperature range is:

- Heating mode: 15° C/59° F 29° C/84° F.
- Cooling mode: 18° C/64° F 30° C/86° F.

Note: Press the Airzone button to switch between heat and cool set point temperatures.

There is a minimum difference allowed between heating and cooling set point temperatures. The system will prevent setting a temperature within the protection range.



Battery replacement

The Airzone Think Thermostat will display a battery alert on its screen when the batteries are low. To replace the battery, please remove the thermostat from its back plate and then replace the battery (CR2450).



Important: We recommend the use of top-brand batteries. Using low-quality batteries may reduce the duration of use.

ADVANCED USE OF THE THINK THERMOSTAT

E Setting Parameters

Press the Setting Menu icon to access the parameters.

Operation Mode. This parameter is only available when the Think thermostat is configured as main, the available modes are:

- Cool. The conditioning unit will start a cooling cycle any time that any zone is in cool demand (T_{set-Point} < T_{room}).
- $\dot{\Sigma}$ Heat. Enables the heating cycle whenever a zone is in heating demand (T_{set-Point} > T_{room}).
- stAuto. The Auto mode allows automatic switching between cool and heat, depending on the global demand.
- ⁶ Dry. In this mode, the air-conditioning unit will start a dehumidification cooling cycle any time that any zone is under demand (T_{set-Point} < T_{room}).

Note: Dry mode decreases humidity in the room by entering the dehumidification cooling cycle.

CEmergency Heat. This mode activates the Auxiliary Heat to provide heated air in case of a mechanical failure in the system.

Note: This mode is only visible when the installation includes an auxiliary heating device.

User Mode. This parameter is only available when the Think thermostat is configured as main, the available modes are:

Comfort. Default and standard user mode. The desired set point temperature can be selected using the predefined temperature ranges.

arphi Eco. The range of available set point temperatures change for more efficient operation.

- Sight time. The system automatically changes the set point temperature 0.5° C/1° F every 30 minutes in up to 4 increments of 2° C/4° F in 2 hours. When cooling, the system increases the set point temperature; when heating, the system decreases the set point temperature.
- X Unoccupied. To be used when there is no presence detected for short periods of time. A more efficient set point temperature will be set. If the thermostat is activated, the zone will start running in comfort mode.

🔲 Vacation. This mode feature saves energy while the user is away for extended periods of time.



Stop. The air-conditioning system will remain switched off regardless of the demand status of any zone, all the motorized dampers will remain opened.

Airflow control. This parameter is only available when the Think thermostat is configured as main of a zoned system, selects the control algorithm that best fits the installation. The available options are:

Silence. The fan speed is lower than in standard mode to reduce the noise.

Standard. Set by default. The system automatically regulates the fan speed based on the number of zones calling for cooling or heating.

Power. The fan speed is higher than in standard mode to increase the flow.

Fan Speed. This parameter is only available on Fancoil installations, it is used to set the airflow control of the AC unit fan. The airflow control is set in automatic mode by default, imposing the flow depending on the number of zones in demand:

Image: High speed.Image: Medium speed.Image: Low speed.Image: Automatic speed.

Heating stages. This option is only available if the zone is configured as air+radiant configuration and enables to choose the stage of the zone. The available parameters are:

Air: Only uses air stage.

Radiant: Only uses radiant air.

e Air+radiant: The system combines both stages to reach comfort quickly and efficiently.

Note: For security reasons, the zone will turn off after changing any setting.

Local Ventilation. This option enables the activation \clubsuit or deactivation % of the ventilation in the selected zone when the system is not actively cooling or heating any of the zones.

Important: In Heat Pump installations, it is recommended to not activate the global and local ventilation in an Airzone system connected to the master indoor unit. It may cause the Stop user mode to turn off the rest of the Airzone system.

Timer. It is an auto power-off timer of the zone:

🖸 Disable. Timer is not activated.

 ${igoplus}$ 30 min. It activates the timing and switches off the zone after 30 minutes.

360 min. It activates the timing. After 30 minutes, the zone varies one degree its temperature. After 60 minutes, the zone will switch off.

90 min. It activates the timing. After 30 minutes, the zone varies one degree its temperature. After 60 minutes, the zone varies another degree the temperature. Finally, after 90 minutes, the zone will switch off.

Information. This parameter provides information about:

- Zone: firmware, zone, association, actuator or communication status.
- System: firmware, settings and information about the system controllers.
- Devices: displays the elements connected to the system.
- Webserver: firmware, IP address, gateway, MAC and PIN.

Main zone. This parameter is only available when the group Main zone is lost and there isn't any available main Blueface thermostat. Enables to access and to modify the operation mode of the group.



WARNINGS AND ERRORS

(i) Warnings

Unoccupied Override. A zone has been activated while the user mode is set on Unoccupied. The system will start using the Comfort Mode during the selected override time. When the override time has expired, the system returns to its previous status.

Window. The air conditioning of the zone has been suspended due to open window. Only available if the window contact of the system is activated.

Occupancy. No occupancy has been detected in the zone for the last 5 minutes. Therefore, the timer is activated (the zone will switch off after 90 minutes). Only available if the presence contact is activated.

Low Battery. Displayed when the interface has low battery. It has 2 weeks of life left in normal conditions.



▲_{Errors}

If any of these errors occurs, please contact with your installer.

Error 1. Communication error with the control module.

Error 2. Communication error with the main control board.

Error 5. Temperature sensor is opened.

Error 6. Temperature sensor is short circuited.

Error 8. Lite thermostat not found.

Error 9. Communication error between the communications gateway and the system.

Error 10. Communication error between the BACnet interface and the main control board.

Error 11. Communication error between the communications gateway and the indoor unit.

Error 12. Communication error between the webserver and the main control board.

Error 13. Communication error between the main control board and the control module of radiant elements.



LITE THERMOSTAT



On/Off. Turns On and Off the zone. In addition, it indicates the operation mode with color codes.

Temperature Settings. Allows adjustment of the base set point temperature in increments of \pm 1° C/2° F up to a limit of \pm 3° C/6° F. This base set point temperature can be configured by any Blueface Thermostat.

Important: After 10 seconds of inactivity, the Lite Thermostat will turn off the LEDs. The first press on $^{\circlearrowright}$ displays the status of the Lite Thermostat (On or Off, Operation Mode and Set Point Temperature). After the first pulsation, turn On/Off or increase/reduce the set point Temperature of the Lite Thermostat.

Important: After 10 seconds of inactivity, the Wireless Lite Thermostat will turn off the LEDs to save battery. The first press on ⁽¹⁾ displays de status of the zone (On/Off, Operation Mode and Set Point Temperature). This pulsation enables the modification of the desired parameters (On/Off or Temperature).

USE OF THE LITE THERMOSTAT

Adjusting the temperature

On/Off. Press the On/Off button to turn on or off the zone. This button also displays the operation mode. It follows a color code system:

- 🖰 Purple: Stop User mode.
- ORed: Heating mode/Emergency heat.
- U Blue: Cooling and Dry mode.
- U Green: The set point temperature has been reached.

If the button remains solid, the thermostat is ON.

If the button is blinking, the thermostat is OFF.

The button remains solid for 10 seconds to show the status, then turns off.



I Temperature Control. Raise or lower the base set point temperature configured by any Blueface Thermostat (through remote zones on the Lite settings parameter) in increments of ± 1° C/2° F up to a limit of ± 3° C/6° F using the buttons. The LEDs indicate the steps above or below the base set temperature.

Once the three-step limit has been reached, the temperature control icons will blink.

Battery replacement

The Airzone Blueface Thermostat will display a battery alert on its screensaver when the battery of a Lite Thermostat is low. To know the zone of the Lite thermostat running out of battery, press on the warning icon.

To replace the battery, please remove the thermostat from its back plate and then replace the battery (CR2450).



Important: We recommend the use of top-brand batteries. Using low-quality batteries may reduce the duration of use.

WARNINGS AND ERRORS

▲ _{Errors}

On/Off blinking purple quickly. Lite thermostat - control module communication error. On/Off blinking red quickly. Control module – main control board communication error.



AIR CONDITIONING

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