

USER MANUAL

MS23



V.45

PRECAUTIONS AND STANDARDS

Before using thermostat read the instructions carefully. After reading instructions, keep this manual in a safe place and have in hand for future reference.



WARNING

- System and thermostat must be installed by qualified and authorized personnel.
- System and thermostat do not contain parts that can be repaired by the user. For repairs, always consult authorized service personnel.
- Make sure the place you permanently install or fix support the weight of thermostat and will not be sudden temperature changes.
- You must install the thermostat and system with its dedicated power supply.
- In case of malfunctions, a burning smell, etc... stop the system immediately, turn off the switch and consult authorized service personnel.



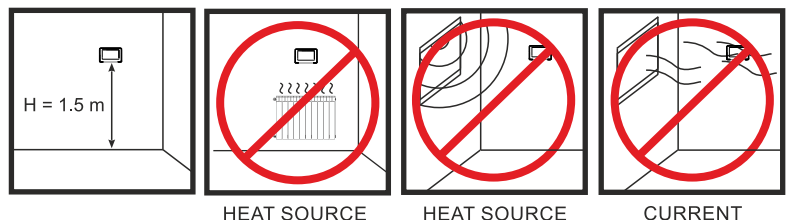
CAUTIONS

- Do not use inflammable gases near the thermostat and system components.
- Do not spill water into the thermostat or system.
- Do not operate the thermostat with wet hands.
- Do not install the thermostat in a place where it is in contact with combustible gases, machine oil, sulphide gas, etc...
- Do not press the screen with sharp elements.
- Do not pull excessively of the thermostat power cord.
- Do not use thermostat or system for other purposes.
- Do not spray insecticide or other combustible item on the thermostat or system.
- Do not clean the thermostat or other system components with benzene, solvents or other chemicals.
- Do not knock or disassemble the thermostat or other system components.

RECOMENDED LOCATION ON WALL

To proper work of the thermostat, it must be installed considering the following recommendations:

- Do not place near a heat or cold source.
- Do not place near a heat or cold current.
- For a better experience, install the thermostat at height of 1.5 meters.

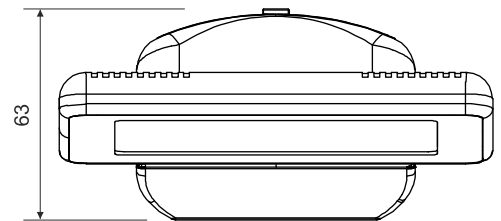
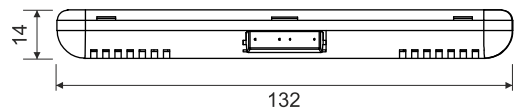
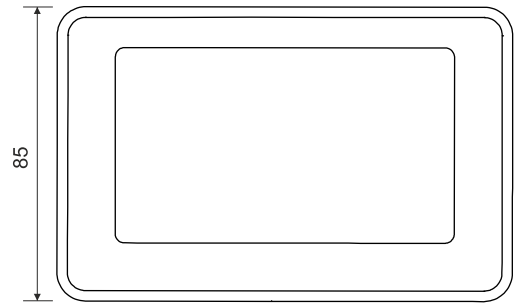


Touch thermostat with **MS23** color screen.

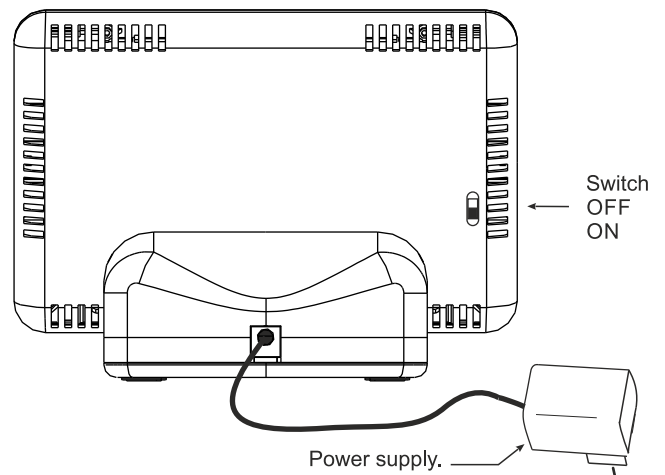
- Wireless communication.
- Control APP management integrated in the thermostat with WIFI-direct communication. *Only compatible models.



- Screen size 4.3".
- Multi programming time.
- Two possible installations, fixed on wall or table top mounted on stand (sold separately).
- Dimensions base 85x62x 40mm.
- Function customizable "Sleep".
- Remote control over other thermostats.
- Navigability between different zones.
- Possibility of set all thermostats of the installation and air equipment (if there was) in the same operating mode.
- Customizable menu: Ranges and customizable temperature limits, Master Yes/No selectable by zone, stop total system, menu installer/user, adjust aperture grilles...
- Selection of 5 operating modes between Cold air, Hot air, Underfloor, Cold air + underfloor cooling and Hot air + Underfloor heating.
- Integrated temperature probe.
- Setpoint temperature at 0.5°C intervals.
- Power by built-in rechargeable battery.
- Power supply by direct power supply to the base or source to be embedded in the wall.



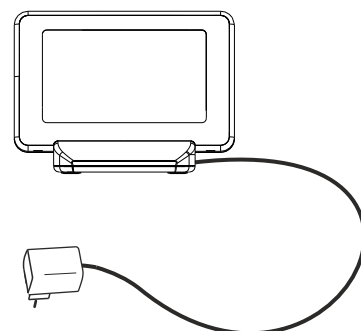
Power supply	
Power	4.2 VDC
Stand-by consumption	100mW
Temperatures	
Range of Work	16°C to 32°C
Storage Temperature	-20°C to 85°C
Working Temperature	0°C to 70°C



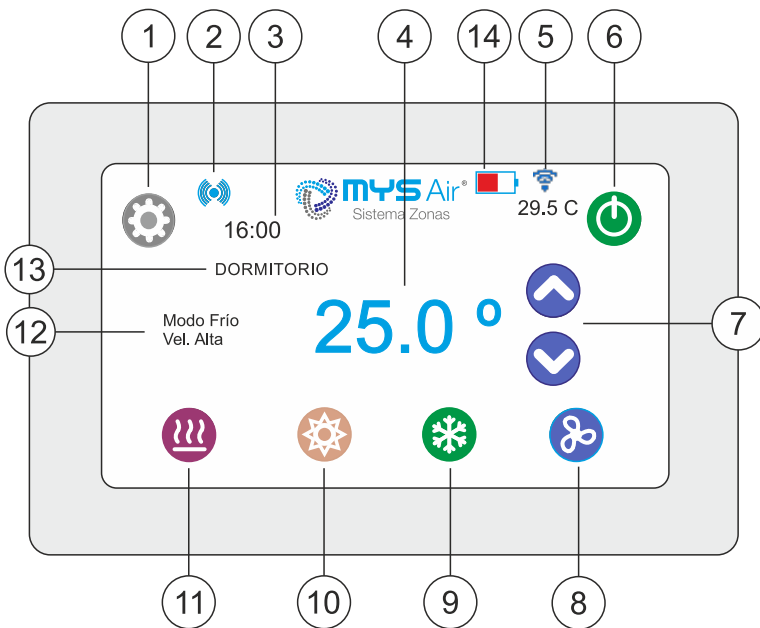
INSTALLATION WITH BASE- MS23

For the version of the thermostat with base or base, the thermostat is attached to the base, being a single element, not being able to separate the thermostat from the base.

Plug the charger from the base to the electrical power.



PRESENTATION MS23



1		Settings menu.
2		Issue-Receive information. Error com.
3	16:00	Thermostat time.
4	25.0°	Setpoint temperature.
5		Wifi thermostat *. Room temperature.
6		Thermostat ON / Thermostat OFF.
7		Raise / lower temperature.
8		Fan Speed. *
9		Cold Mode.
10		Heat mode.
11		Mode underfloor heating-cooling / heating.
12	Modo Frio Vel. Min.	Thermostat working information. *
13	DORMITORIO	Name Thermostat or zone.
14		Icon battery charge interruption.

NOTE:

The icon appears on the screen to indicate that there has been an interruption of power. It will disappear after touching the screen of thermostat or pressing some icon.

* Wifi functions, setting fan speed and mode underfloor heating will only be available at thermostats with these functions enabled previously.




SETTINGS MENU (MENU PRINCIPAL)



Navigation Buttons



Nº	Description	Page
1	Thermostat information.	Pag. 4
2	Set Date and Time.	Pag. 4
3	Timer.	Pag. 4
4	Programming.	Pag. 5
5	Display type.	Pag. 5
6	Remote control.	Pag. 6
7	Screen brightness.	Pag. 6
8	Stop Total System.	Pag. 7
9	Name Thermostat.	Pag. 7
10	Wifi communication.	Pag. 7
11	Installer menu.	Pag. 7
12	Firmware version.	Pag. 7

	Cold mode activated.
	Heat mode activated.
	Heating floor mode activated.



MYS Air Sistema Zonas 29.5 C
DORMITORIO
Modo Frio 25.0 °C



Información termostato

Nombre Termostato: Dormitorio	ID: 1096
Nombre Instalación: Casa	ID: 936
Tipo Termostato: Crono-Termostato, Suelo, Relés	Zona: 1



Modificar Fecha y Hora

hh/mm	dd/mm/aaaa
09 15	03 03 2016

Control de la Fecha y Hora del Termostato.



Temporizador

000 min.

OFF 120 min.

Tiempo de Apagado Automático.

WORKING MODES ON MS23.

After select working mode, the wallpaper or background from screen changes to a bluish hue on Cold mode; the same happens with the Heat mode which changes the background screen to a yellow hue and underfloor heating or cooling mode * to a pink hue.

***NOTE: Underfloor heating or cooling mode only available in systems with this specific stage enabled and configured by the installer.**

SELECTION OR CHANGE WORKING MODE.

When thermostat is at rest mode, activate or awaken the screen by pressing any part of the screen and it will show the options or selection buttons.

Click on the icon of the desired mode.

Heat mode Cold mode Underfloor Underfloor + Heat* Underfloor+Cold *



***NOTE:**

To select the Underfloor + heat or Underfloor + cold mode, first select the Underfloor mode and in less than 5 seconds press the combined mode either cold or heat.

1 - (INFORMACIÓN TERMOSTATO) - THERMOSTAT INFORMATION.

It shows the data/information from installation and configuration of your thermostat.

Nombre Termostato.

Name that has been assigned to the thermostat within the current installation .


Nombre de Instalación.

Name that has been assigned to the current installation.

Tipo de Termostato y Zona:

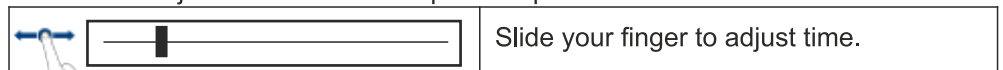
Functions of the thermostat and assigned zone in the installation.


2 - (AJUSTE DE FECHA Y HORA) - SET DATE AND TIME.

hh/mm + -	Modify hour and minutes.
dd/mm/aaaa + -	Modify Date. Day / Month / Year.
	Confirm settings.

3 - (TEMPORIZADOR) - TIMER.

Function to adjust the run back sleep or sleep time. Punctual function.



OFF	Deactivate Timer. Swipe left to OFF.
	Confirm setting.

4 - (PROGRAMACIÓN) - THERMOSTAT PROGRAMMING.

Thermostat allows different customizable work programs. It offers 6 different programs and within each one you can select the desired days, modes, start and end time and temperature.



Fig.1

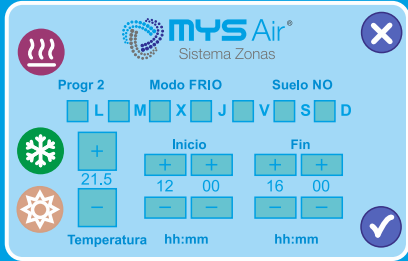


Fig.2



Fig.3

CREATE A PROGRAM	
	Choose program. (fig.1)
	Choose working mode. (fig.2)
	Choose day/s of the week to be programmed. (fig.2)
	Choose the working temperature. (fig.2)
	Choose the start / end time. (fig.2)
	Confirm program.

ACTIVATE PROGRAM	
	Click on the box to leave it black or selected. (Fig. 3)
	Confirm setting.

DISABLE PROGRAM	
	Click on the box to leave it white or deselected. (Fig. 3)
	Confirm setting.

Note1:

To deactivate a program, it is not necessary to delete the program data, just uncheck the small box next to the program number.

Note2:

Week start on Monday: (L) and finish on Sunday (D).

5 - (TIPO VISUALIZACIÓN) - DISPLAY TYPE.

Option that allows to visualize the main screen of the thermostat in two different ways.

Extendida - Extended. (Default)

Smaller icons Visible Main menu icon from standby screen.

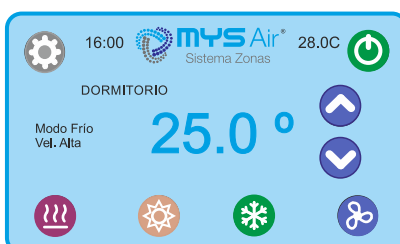
Básica - Basic.

Largest icons Hidden Main Menu icon from standby screen.

¿How access to (Menú Principal) Settings Menu from Basic display type?

At the upper left corner of the screen, press and hold for 20 seconds. After this time the icon will appear

Extended.



Basic.





6 - (CONTROL REMOTO) - REMOTE CONTROL.

Function that allows from MS23 remote control of other zones or thermostats.

The steps to follow would be to select function nº 6 from Settings Menu (Menú Ajustes).

Once inside the function, screen will be displayed the different thermostats that exist within the same installation.

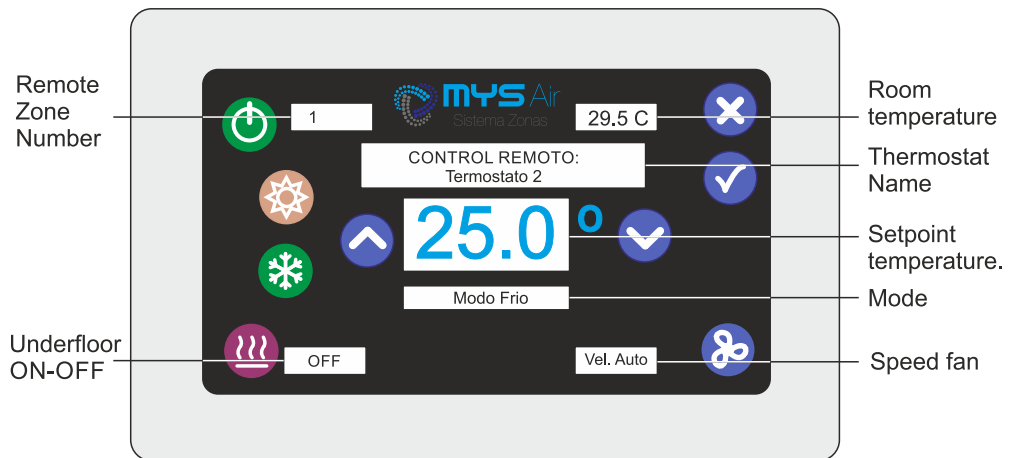
- 1) Select the ZONE or thermostat that you want to control and press the button . Screen will change as shows at the below image. At this time you will start to control the selected thermostat remotely as if you were in that zone.
- 2) Select operation/s to be performed and press the button  to confirm and exit.

NOTE1: All the thermostats of the system have to be started at least once time to be recognized by the Switchboard (Centralita).

NOTE2: Each time that MS23 is restarted, all thermostats on system must be restarted at least once time in order to be recognized again by the just reset MS23 thermostat and be able to work remotely with them.

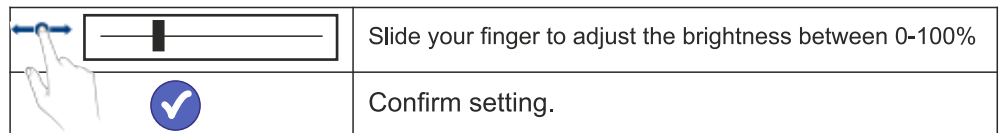
NOTE3: The fan speed control is not operational from this remote mode. It will always work at zonal speed (see page 8 explanation of speeds).

NOTE4: On the wired thermostats, a total and interactive remote control is performed on the same remotely thermostat screen. But at wireless thermostats, the remote control is partial, since it acts on the area but not on the thermostat itself, so if the zone thermostat is at rest and there is a temperature variation reaching the limits set manually on it, you can change state to previously selected remotely from an MS23.



7 - (BRILLO PANTALLA) - SCREEN BRIGHTNESS.

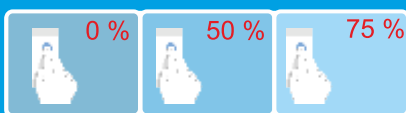
Function that allow adjust the brightness of the MS23 screen.



NOTE: ADJUST BRIGHTNESS ONLY WHEN DISPLAY IS IN STATE OF REST.

In the resting mode status, when the screen is showing in black with the logo and time, you can adjust the brightness. The steps would be:

- 1) Wait into thermostat is into rest mode.
- 2) Press and hold at any point on the screen until you see that the brightness begins to adjust in a staggered way.
- 3) Once you have the desired brightness, stop pressing the screen.





8 - (NOMBRE TERMOSTATO) - NAME THERMOSTAT.

Function to assign a name to the thermostat and differentiate it inside the installation.

ABC	Write the desired name.
⬆	Write capital letters.
✓	Confirm setting.



9 - (COMUNICACIÓN WIFI) - WIFI COMMUNICATION.

Menu with the information and configuration of the Wifi connection for the MS23.
*** Only enabled for thermostat with Wifi communication function. (See Installer manual).**

10 - (MENÚ INSTALADOR) - INSTALLER MENU.

Menu used by the system installer at the initial setup and configuration of the MS23 together the whole system.
 Access is blocked to avoid unintentional modifications.



11 - (VERSIÓN FIRMWARE) - FIRMWARE VERSION.

Displays the current version of your MS23 thermostat.

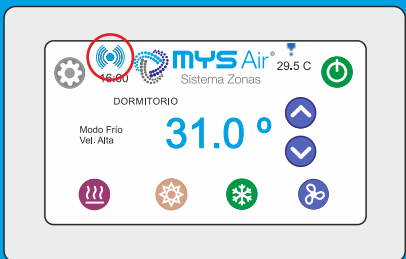
✕	Press to exit.
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LOW BATTERY INDICATOR.



The MS23 thermostat with base has a rechargeable internal battery and when it is low, the battery symbol and the indication to connect to the charger or stand is showed, since it is not possible to work with the thermostat because it has a low battery charge.


In order to continue working with it, you must wait at least 5-10 minutes with the charger plugged in so that it charges the minimum and allows to perform the functions correctly.








FUNCTION TO ADJUST THE INDOOR FAN SPEED.





ATTENTION.
YOU CAN NOT MAKE USE OF THIS FUNCTION IF THE INSTALLATION DOES NOT HAVE THE MODULE "CTOTAL" INSTALLED ALONG WITH THE SYSTEM OF ZONES.

Possibility of selection the fan speed by clicking on the icon .
 Zonal Speed / Low Speed / Medium Speed / High Speed / Auto.

-  Zonal Speed: Default speed. Automatic Speed fixed by the Switchboard and Ctotal according to the calculation by area of open areas.
-  Low Speed.
-  Medium Speed.
-  High Speed.
-  Auto Speed: Automatic Speed set by the thermostat and will vary according to the differential of room temperature and selected temperature, remaining +3°C difference at high speed, +2°C difference at medium speed and +1°C difference at low speed. **Only use this "Auto" mode when there is only one zone in the system or independent Fancoil.**

Permanent fan speed lock.

To permanently lock the fan speed until the next start-up, keep pressed the icon  for more than 5 seconds and it will change its status to red .


To unlock the permanent speed, keep pressing the same fan button for 5 seconds until it changes to blue again.



Note1: Fan speed will be restored to "Zonal speed" once again restart the thermostat.

Note2: The Switchboard and Ctotal will obey the last thermostat in selecting permanent speeds.

Note3: Fan speed lock can not be combined in systems with wired thermostats, since the wired thermostats will prevail.

COMMUNICATION STATE CODE WITH CONTROL UNIT / SWITCHBOARD.

Each time the MS23 thermostat communicates wirelessly with the Switchboard, the communication identification symbol is shown on the screen (top left corner) .

If there is a problem related to the bidirectional communication, the icon  will be displayed instead, warning that the thermostat is not properly configured or outside the communication range with the Switchboard. If the communication is successful and the thermostat receives a response from the Switchboard the icon  is displayed on the thermostat.

In case the icon  appears on display, check the configurations below:

1. Distance to Switchboard and obstacles.
2. Name of thermostat.

If the communication is not restored, contact the installer or technical service.



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