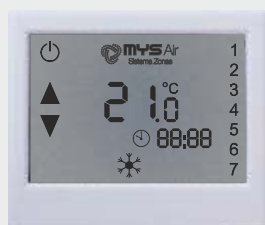




USER MANUAL

MS20 / MS22 / MS25



Before using the thermostat read this instructions carefully.

After reading the instructions, keep this manual in a safe place and hand for future reference.



WARNING

- The system and thermostat must be installed by qualified and authorized personnel.
- The system an thermostat does 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 not sudden temperature charges.
- You must install the thermostat an system whith its dedicated power suply.
- 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 inflamable 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 combustibile 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 combustibile item on the thermostat or system.
- Do not clean the thermostat or other system components with bencene, solvents or other chemicals.
- Do not knock or disassemble the thermostat or other system components..

Enviroumental Policy.

Never throw the equipement with househorl waste. Electrical an electronic products contain substances that can be harmful to the embiroument if it is not given proper treatment. The symbol of the crossed out dustbin indicates separate collection of electricalappliances, differing from normal waste. for proper enviroumental management must be taken to centersn the end of life.

The pieces that are part of it can be recycled. Respect, therefore the current regulations on enviroumental protection. You must deliver your dialer if remplaced by another, or disposed of at an dedicated collection.

Breaching these enviroumental measures are subject to sanctions established by the law on protection enviroument.



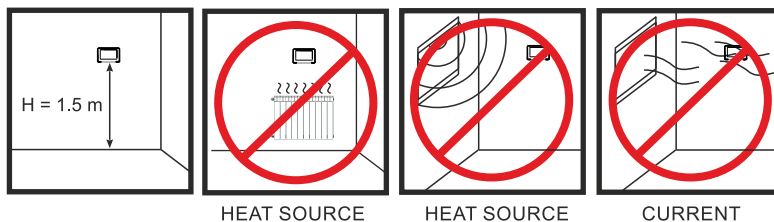
MYS
MATERIALES Y SOPORTES
IND. DEL LEVANTE, S.L.U.

C/ Mayor 27, 30149.
MURCIA (ESPAÑA)
Telf: + 34 966744473
FAX: + 34 966741928
www.mysair.es
www.agfri.com

RECOMENDED LOCATION ON WALL

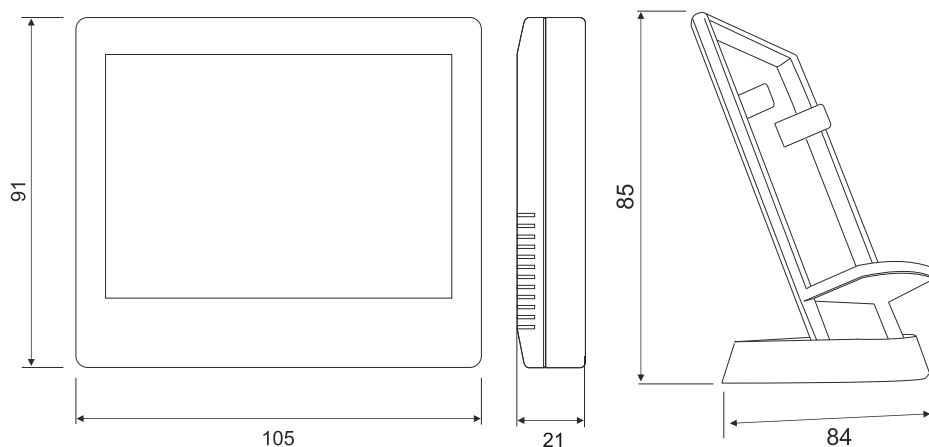
For proper work of the thermostat, it must be installed considering the following recommendations:

- A) Do not place near a heat or cold source.
- B) Do not place near a heat or cold current.
- C) For a better experience installing the thermostat at height of 1.5 metters.



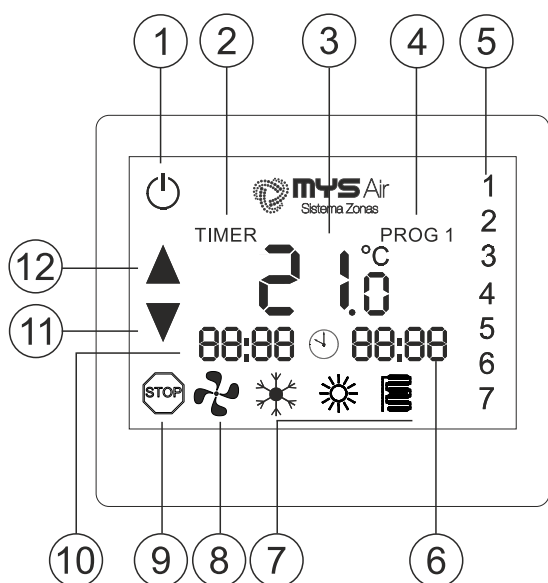
Backlit tactile thermostat with hourly programming **MS20**.

- Wireless communication or Cable (RF or CABLE).
- Multiprogramming hourly or manual control.
- Two installation possibilities, fixed on wall (RF or CABLE) or desktop installed with base (RF).
- Customizable "Sleep" function.
- Customizable menu: Ranges and customizable temperature limits, Master Yes/No selectable by zone, stop total system menu installer/user, adjust aperture grilles...
- Integrated temperature probe.
- Setpoint temperature at 0.5°C intervals.
- Selectable temperature in °C / °F.
- Selection of 5 operating modes between Cold air, Hot air, Underfloor, Cold air + underfloor refreshing and Hot air + Underfloor heating.
- Power supply with 2xAAA 1.5V (RF) or cable system (Fixed wall installation).
- Dimensions 106x91x21mm.



Power supply	
Power	4.2 VDC
Stand-by consumption	100 mW
Temperatures	
Range of Work	15°C a 30°C
Storage Temperature	-20°C a 85°C
Working Temperature	0°C a 70°C

MAIN FUNCTIONS MS20



* Underfloor mode only work when exist a radiant installation.

* Fan speeds only available when a Total Control System module is installed.

1		Turn ON, Turn OFF.
2	TIMER	Hourly programming button.
3		Room Temperature.
4	PROG	Programming. On / Off button.
5	1 2 3. . .	Weekly schedule.
6		Timer (30/60/90/120).
7		Work Mode*.
8		Ventilation* (Modal / 3 speeds / Auto).
9		Total stop system button.
10		Clock / Actual work zone / Indicate Transmit state
		"Ed, rd, CC, Cf...".
11		Temperature Adjustment -0.5°C.
12		Temperature Adjustment +0.5°C.

1 - THERMOSTATE ON AND OFF.

Press  icon to turn ON or turn OFF thermostat.


NOTE:

The thermostat is OFF when “OFF” icon is displayed.

The thermostat is ON when a “WORK MODE” icon is displayed.

2 - WORK MODE CHANGE.

The thermostat can have 2 or 5 working modes depending on whether the installation is only for ventilation or has a combined stage for underfloor heating.


1. Press a  icon to turn on the thermostat and show the available working modes. Usually only appears heat mode and cold mode.
2. Press on the desired work mode icon. Once the icon is pressed, It will start blinking indicating the selected working mode.

The available working modes are:

Hot air Cold air Underfloor* Underfloor+Hot air* Underfloor+Cold air*



NOTE1: *Both underfloor/Refreshing floor modes as well as Combined Floor with Heating or cooling, will only work in facilities with combined heat stage.

NOTE2: To select underfloor only, press  icon repeatedly until appears “C” or “F” icon near the clock icon. “F” indicate underfloor refreshing and “C” indicate underfloor heating.

NOTE3: To select underfloor with combined heating or combined cooling, press first “Hot air Mode” or “Cold air Mode” icon and before 5 seconds press “Underfloor mode” icon.

3 - SETPOINT TEMPERATURE CHANGE.



To change the setpoint temperature, press Anywhere on the display while it is into some working mode and the function menu is displayed.

In to the menu, press   icon to increase or decrease temperature.




After 3 seconds without presses any other icon, it will exit from setting temperature.




4 - SETTING TIME AND DATE.

To setting time an date, it is performed from the function menu.

If the thermostat is OFF, press  icon to turn on. Press and hold  icon into the “functions menu” around 5 seconds, Until the display shows only the time and begins to blink.

hh:nn: Set Time pressing   icons. Press  icon to set the time and advance.

dIA: Set day of month pressing   icons. Press  icon to set day and advance.

nnES: Set month pressing   icons. Press  icon to set moth and advance.

Año: Set year pressing   icons. Press  icon to set year and exit.


NOTA:

The thermostat will automatically display the day number of the week it is in after adjusting the date..

To set time automatically in other MS20 thermostats (Only WiFi model) . More info in: www.mysair.es -> Videos.

5 - TIMER.


This function it's for timer or countdown to OFF thermostat.
The thermostat have this timed cycles: 30/60/90/120 minutes.

To set up this function, press  icon in some working mode or directly in "Functions menu".

The display will show "0030", equivalent to 30 minutes, next to the text "TIMER" in the upper left corner. Each press on  icon will increase the timed cycle.


To cancel the Timer, press and hold  icon until the minute digits disappear and the text "TIMER" disappears.

NOTE:

After an established timer and with the thermostat at rest working, if the  icon is pressed again, the timer cycle will increase.

6 - HOURLY PROGRAMMING.

The thermostat allows setting up to 3 work schedules to start and stop automatically. The set up it's:

1. Access the function menu after pressing  icon.
2. Press "TIMER" icon text or on the place where the icon text appears.
3. The "TIMER" icon text disappears and appears "PROG 1" icon text. This icon indicate that its is set temperature, working mode, on/off days and time.
4. Press on "00:00" icon located at left of the clock icon, for set time to start. Press on "00:00" icon located at right of the clock icon for set time to stop.
5. Press on temperature icon to set desired working temperature.
6. Press on working mode icon to set desired working mode.
7. Finally, on the right side, press an hold for 5 seconds on days of week numbers icons to show or hide the days you want work the "program 1". Week starts on Monday and is equal to "1".

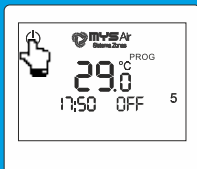
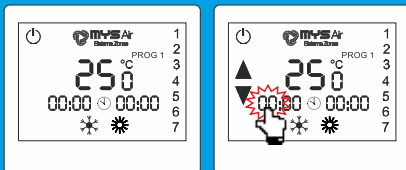
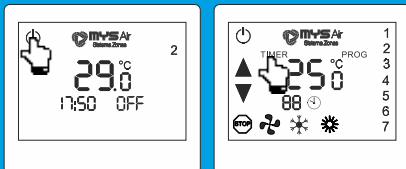
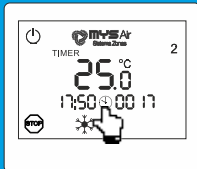
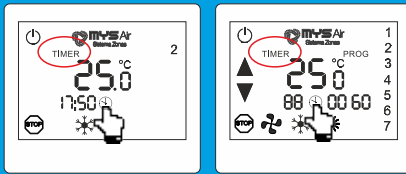
NOTE1: To save and exit programming mode, press  icon.

NOTE2: To cancel a program, set up start time and end time to "00:00".

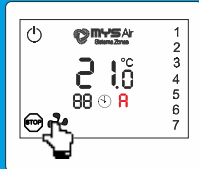
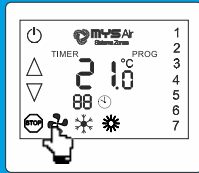
NOTE3: Whith thermostat OFF, if display show "PROG" icon, It means that there is some program configured and will come to work on time.

NOTE4: To disable all scheduled programs must be the thermostat OFF, and press "PROG" icon displayed and once disappeared this text, will be canceled the established schedules.

NOTE5: Ensure that the scheduled work mode will not conflict with other programs or other thermostats area at the time of commissioning.





5 Seconds.




7 - SPEED FAN FUNCTION.



WARNING.
THIS FUNCTION CAN NOT BE USED IF THE INSTALLATION DOES NOT HAVE THE TOTAL CONTROL MODULE GANGWAY AND THE THERMOSTAT IS NOT CONFIGURED FOR THAT.

With thermostat off, press  icon, or if the thermostat is at rest, press anywhere on display to acces "functions menu". Next to the Cooling icon will appear fan icon .

Each time the  icon is pressed, the fan speed will change between -, 1, 2, 3 y A. To the right of the clock icon, the selected fan speed is marked manually.

Speed clarifications:

"-" : Default speed. Automatic speed set by the control unit according to the area calculation, of the open areas.


"1" : Speed 1. "2" : Speed 2. "3" : Speed 3.

"A" : Automatic speed set by thermostat and changes according to the temperature difference between the ambient temperature and the selected temperature, +3° difference to high speed, 2° difference to mid speed y 1° difference to low speed. **Only use this mode "Auto" when exist only one zone at system or independets Fancoil.**

Note1: The fan speed will be reset to "-" each time the thermostat is reset.

Note2: The control unit will obey the last thermostat in selecting speeds.

Permanent speed lock Fan.


Press and hold  icon for 5 seconds, the fan speed will be blocked regardless of the demand for other open areas or by calculation of open zones.

The display shows "F-" (Velocidad auto sistema), "F1" (Speed 1), "F2" (Speed 2), "F3" (Speed 3) y "FA" (Automatic by thermostat).

Note3: The speed will be blocked even if the thermostat is restart.

Note4: The fan speed lock can only be fixed with radio thermostats and can not be combined in a system with wired thermostats.

Unlocking speed fan permanently.

To unlocking speed fan permanently, press and hold  icon for 5 seconds.

8 - COMMUNICATION STATUS CODES.

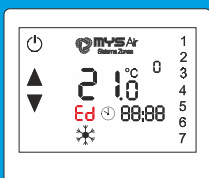
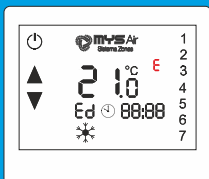
The thermostat's display show information regarding the status of the communication with the Control Unit.

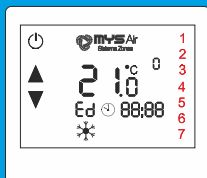
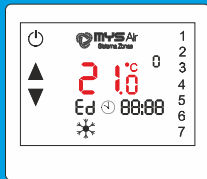
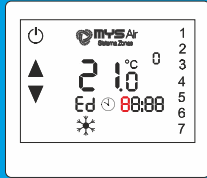
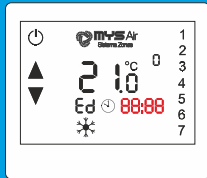
Description of codes in data transmission:

E Error in communication with central control unit (only radio).
C Grid Closed by setpoint.
0 Sending data by radio (only radio).
1,2,3 Into the hourly programming, shows the schedule that is being modified.

BAT Low battery, change batteries (only radio).
Con Enter the setup menu.
ESP Wait, saving data in memory.
Ed Sending data to central control unit.
CC Change to heating mode.
CF Change to cooling mode.

Also shows thermostat zone and thermostat time.





F Only underfloor refreshing.

C Only underfloor heating.

OFF Thermostat off, grill closed.

The remaining minutes are also displayed for the thermostat to turn off automatically when the timer is running.

Speed Fan.

A Automatic.

F Fan speed fixed.

1/2/3 Low speed. Mid speed. Hight speed.

- Modal speed.

OFF Total system stop.

It also shows the setpoint temperature and the actual temperature.

FF1 / FF2 Errors in the mode of operation of the installation.

FF3 / FF4

FF5

Day of the week:

1 Monday.

2 Tuesday.

3 Wenesday.

4 Thursday.

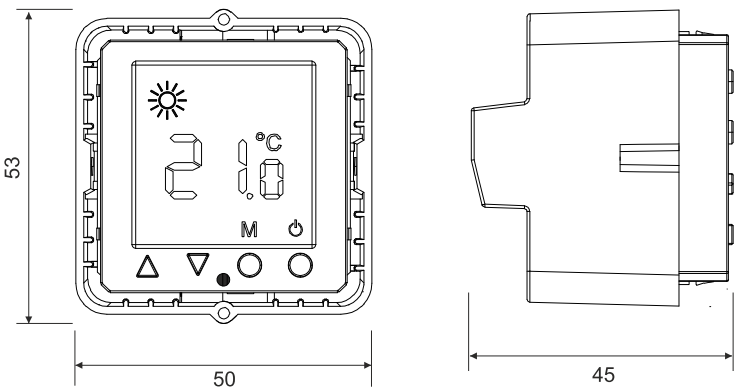
5 Friday.

6 Saturday.

7 Sunday.

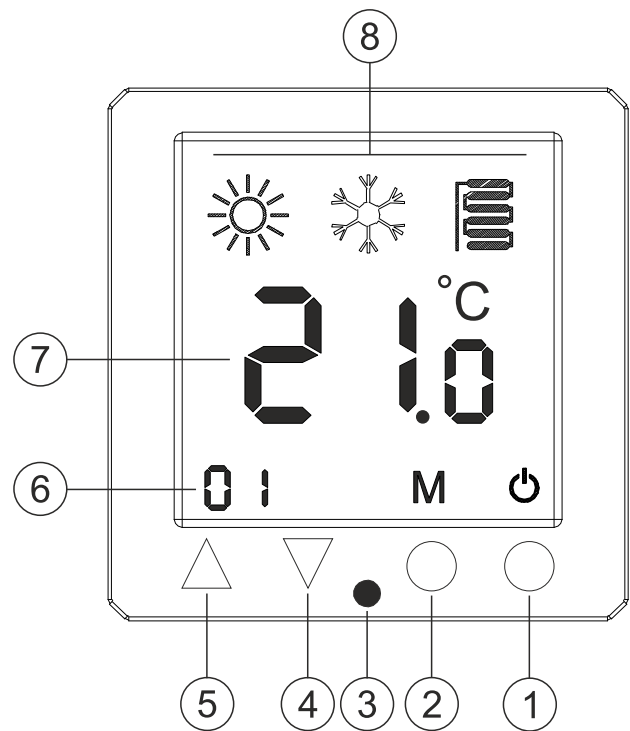
Thermostat with digital display and keys **Ms22**.

- With cable comunication.
- Can be placed in 70 mm. universal box.
- Customizable menu: ranges and customizable temperature limits, teacher Yes/No selectable by zone, system total stop, system menu Installer/User, adjust aperture grilles, ...
- Selection of 5 operating modes between Cold Air, Hot air, underfloor heating, Cold Air + underfloor refreshing and Hot air + underfloor heating.
- Adapt aesthetically with all the mechanisms of the market, factory order.
- Built in temperature probe.
- Setpoint temperature at 0.5°C intervals.
- Selectable temperature °C / °F.



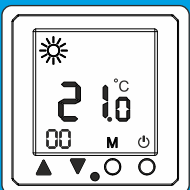
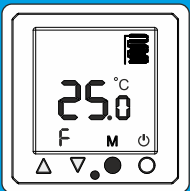
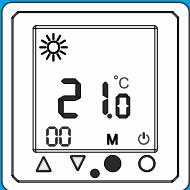
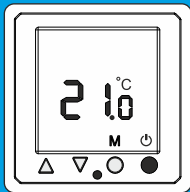
Power supply	
Supply	4.2 VDC
Stand By consumption	100 mW
Temperatures	
Range of work	15°C a 30°C
Storage temperature	-20°C a 85°C
Working temperature	0°C a 70°C

MAIN FUNCTIONS MS22



1		Turn On / Turn Off.
2	M	Working mode seleccion.
3		Temperature probe.
4		Temperature Adjustment -0.5°C.
5		Temperature Adjustment +0.5°C.
6	01	Current working area / Indicate Transmit
		estate Ed, rd, CC....
7	21.0 °C	Room Temperature.
8		Actual Working mode*.

*Underfloor heating mode will only work when there is radiant stage installation.



1 - TURN ON / TURN OFF. THE THERMOSTAT

Turn On / Turn off the thermostat.

Press key to turn On or Off the thermostat.

2 - CHANGE WORKING MODE.

The thermostat can have 2 or 5 working modes depending on whether the installation is only for ventilation or has a combined stage for underfloor heating.

1. Press key to turn on the thermostat.
2. "00" It is the thermostat current working area.
3. The display shows the last selected working mode, press "**M**" key to select other working mode. **Usually only show Heating mode and cooling mode.**

The available working modes are:

Hot air Cold air Underfloor* Underfloor+Hot air* Underfloor+Cold air*



NOTE1: *Both the Underfloor heating/ Underfloor refreshing modes autonomously as underfloor combined with cold air or hot air, will only work in installations with combined heat stage.

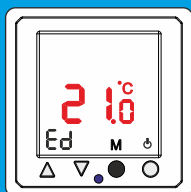
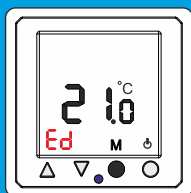
NOTE2: After selecting "Underfloor" autonomously, "C or F" may appear on the display, indicating whether it is Underfloor heating "C" or Underfloor refreshing Floor "F".

3 - CHANGE SETPOINT TEMPERATURE.

To change setpoint temperature, press keys.

At that time, the setpoint temperature will flash, next to the zone number of the thermostat "00".

After about 3 seconds without touching any key, it will exit from temperature setting.



4 - COMMUNICATION STATUS CODES.

The thermostat's display show information regarding the status of the communication with the central control unit.

Description of codes in data transmission:

- OF Thermostat OFF. Grill closed.
 - C Only underfloor heating.
 - F Only underfloor refresing.
 - CO Entry in the configuration menu.
 - ES (Wait) Saving data.
 - Ed Sending data to central system control.
 - Rd Receiving data from the system control unit.
 - FF Write error in memory.
 - 00 Grill closed by setpoint.
 - CC Change thermostat to heating working mode.
 - CF Change thermostat to cooling working mode.
- The display show the thermostat zone every time it starts.

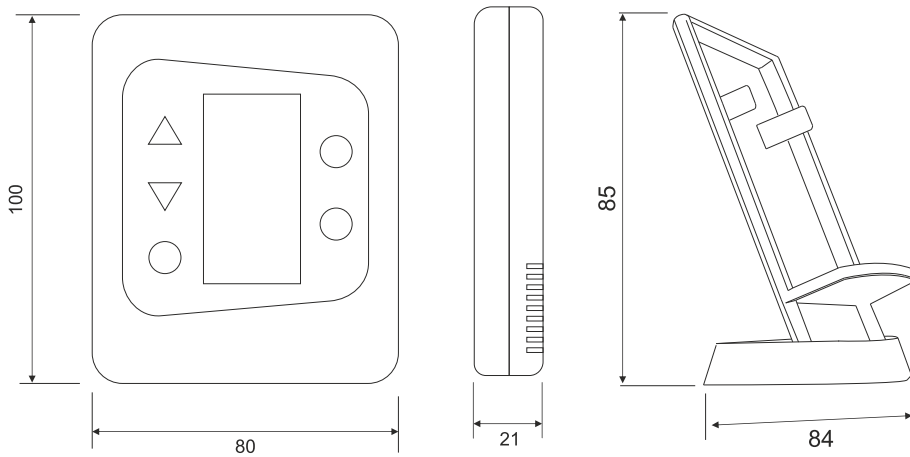
OFF Total System Stop.

Ini Starting thermostat.

The display show the room temperature and setpoint temperature.

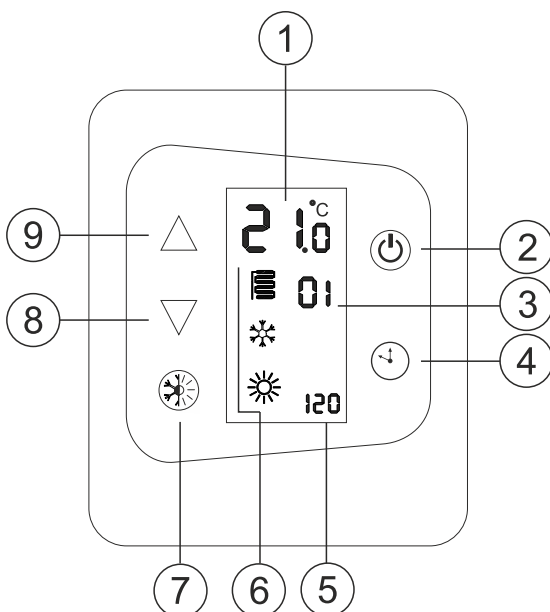
Thermostat with keys and digital display **MS25**.

- Cable or wireless communication (RF or CABLE).
- Two installation possibilities, fixed on wall (RF or CABLE) or desktop installed with base (RF).
- Customizable “Sleep” function by user 30/60/90/120 minutes.
- Customizable menu: Ranges and customizable temperature limits, Master Yes/No selectable by zone, Total System Stop, system menu Installer/User, adjust aperture grilles...
- Integrated temperature probe.
- Setpoint temperature at 0.5°C intervals.
- Selectable temperature °C / °F.
- Selection of 5 operating modes Cold Air, Hot Air, Underfloor heating, Cold Air + Underfloor refresing and Hot Air + underflorr heating.
- Power supply with 2xAAA 1.5V. (RF) or cable system (Fixed wall installation).
- Dimensions 100x80x21mm.



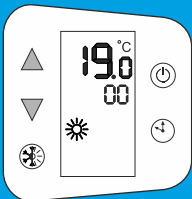
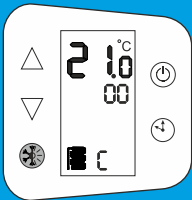
power supply	
Supply	3 VDC
Stand By Consumption	10 mA
Temperatures	
Range of work	15°C a 30°C
Storage	-20°C a 85°C
Work temperature	0°C a 70°C

MAIN FUNCTIONS MS25



1	21.0°C	Room Temperature.
2	⏻	Turn ON / Turn OFF.
3	01	Current working zone N°
4	⌚	Timer(30/60/90/120).
5	120	Timer time /“OFF” indicator.
6	☀️❄️🌀	Working mode*.
7	☀️❄️	Working mode key.
8	▼	Temperature ajustement -0.5°C.
9	▲	Temperature ajustement +0.5°C.

* Underfloor mode will only work when exist a radiant stage installation.



1 - TURN ON / TURN OFF THERMOSTAT.

Turn On / Turn Off thermostat.

Press key to turn ON or turn Off the thermostat.

2 - CHANGE WORKING MODE.

The thermostat can have 2 or 5 working modes depending on whether the installation is only for ventilation or has a combined stage for underfloor heating/refreshing.

1. Press key to turn on the thermostat.
2. Momentarily the display shows "00", It is the thermostat current working area.
3. The displays shows the last selected working mode, press key to select other working mode. **Usually only show Heating mode and cooling mode.**

The available working modes are:

Hot air Cold Air Underfloor* Underfloor+Hot air Underfloor+Cold air*

NOTE1: *Both the Underfloor Heating / Refreshing modes autonomously as Underfloor combined with Cold air or Hot air, will only work in installations with combined heat stage.

NOTE2: After selecting Underfloor autonomously, "C or F" may appear on the display, indicating whether it is Underfloor heating "C" or Underfloor refreshing "F".

3 - CHANGE SETPOINT TEMPERATURE.

To change setpoint temperature, press keys.


At that time, the setpoint temperature will flash, next to the zone number of the thermostat "00".


After about 3 seconds without touching any key, it will exit from temperature setting.



4 - TIMER.


This function is for timer or countdown to OFF thermostat.
The thermostat have this timed cycles: 30/60/90/120 minutes.

To activate "Timer" function, Press  key, in some working mode.

The display will show "030", equivalent to 30 minutes.
Each press on  key will increase the timed cycle.

To cancel the Timer, press and hold  key until the minute digits disappear.

NOTE:

After an established timer and with the thermostat at rest working, if the  key is pressed again, the timer cycle will increase.

5 - COMMUNICATION STATUS CODES.

The thermostat's display show information regarding the status of the communication with the Central Control Unit.

Description of codes in data transmission (cable or radio):

- rd Receiving data from Central control Unit. (cable).
- E Receive error, no communication with the central control unit (radio).
- Ed Sending data to Central control Unit.
- 00 Grill closed by setpoint.

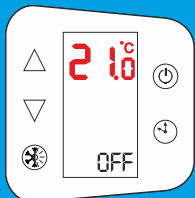
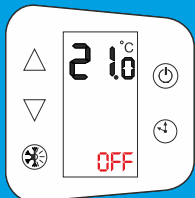
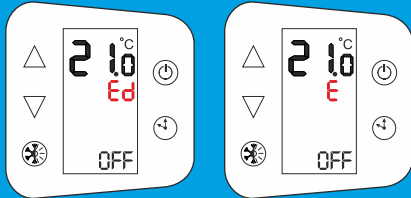
The display show the thermostat zone every time it starts.

- OFF Thermostat OFF, grill closed.
- C Only underfloor heating.
- F Only underfloor refresing.
- Con Entering the Thermostat Configuration Menu.
- ESP (Wait) The thermostat saving data in memory (After modifying parameters in the menu).
- CC Change thermostat to heating working mode.
- CF Change thermostat to cooling working mode.
- BAT Low battery, change battery (Only Radio).

The remaining minutes are also displayed for the thermostat to turn off automatically when the timer is running.

OFF Executing "Total system stop".

The display show the room temperature and setpoint temperature.



GENERAL TERMS OF WARRANTY.

By means of the present, Materials and Industrial Supports of Levante S.L. (Hereinafter referred to as "MYS") grants to the Products a warranty for defects in workmanship or materials used for two (2) years; to be counted from the date of invoice, in the event of any lack of conformity with the contract for the sale of the products in the terms set forth in article 116 of Royal Decree 1/2007, dated November 16, which approves the consolidated text Of the General Law for the Defense of Consumers and Users and other complementary laws, or regulations that replace it.

A. General conditions.

During the warranty period, MYS, in relation to Products that have manufacturing defects or materials used, will replace or repair (at MYS 'discretion) the product or its defective parts in accordance with the conditions specified then without charge for their own labor or parts repair.

MYS may replace defective components or products with new or recycled products. All products or components of the replaced products are owned by MYS.

Shipping and delivery conditions between buyer and MYS. If the purchase occurs outside the peninsula or European Union, MYS not in charge of transporting the material to the seller's premises or customer delivery after reviewing the product.

This warranty does not cover, under any circumstances, the costs of moving the uninstallation and assembly of the product or material.

In order to request the delivery of a material under warranty MYS should be contacted, once the product anomalies have been observed, the after sales service of MYS will confirm how to proceed in the replacement directly in the distributors or making a new shipment by courier.

The Purchaser receives the "standard warranty" mentioned by default. Upon request, a "warranty extension" or "custom project guarantee" may be agreed upon after evaluation of the specific conditions of the application, installation or use.

This document reflects the General Terms of Warranties. For more information you can order the complete warranty policy document at agfri@agfri.com.



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