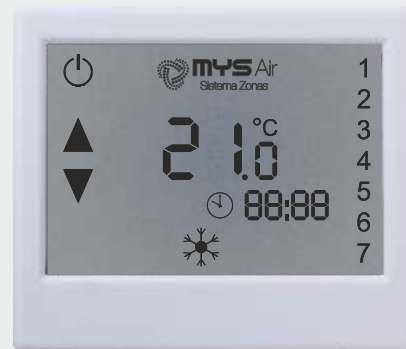


USER MANUAL

MS20



PRECAUTIONS AND STANDARDS

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 and 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 on a 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.



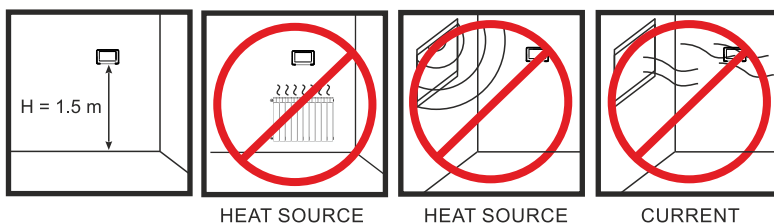
CAUTIONS

- 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

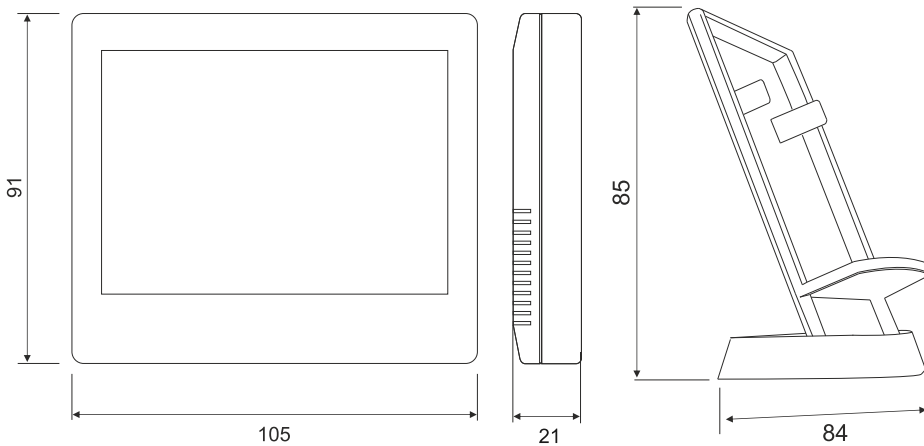
For proper work of the thermostat, it must be installed considering the following recommendations:

- 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 meters.



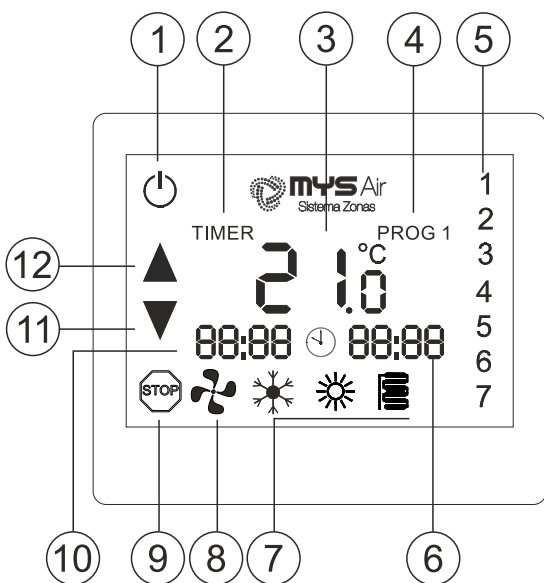
Backlit tactile thermostat with hourly programming **MS20**.

- 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



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.

* Underfloor mode only work when exist a radiant installation.

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

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 prees 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.

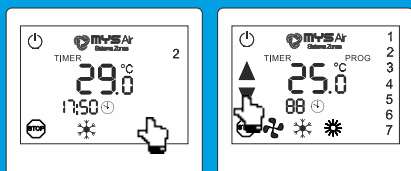
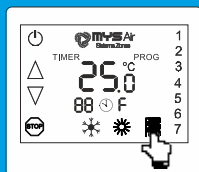
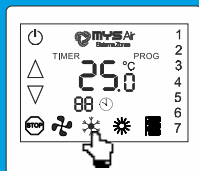
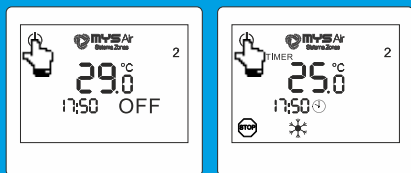
If the thermostat is OFF, press icon to turn on. Press and hold icon into the “functions menu” around 5 seconds, Until the display shows only the time and begins to blink.

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.

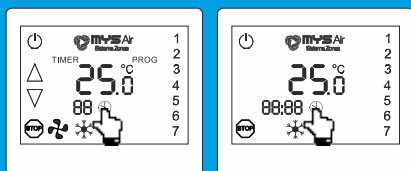
NOTA:

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 Seconds.



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 a 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".

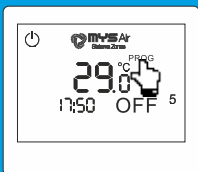
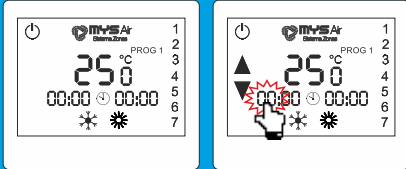
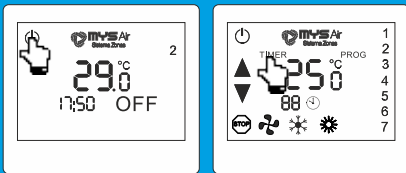
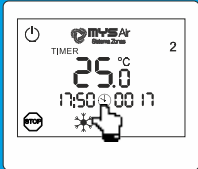
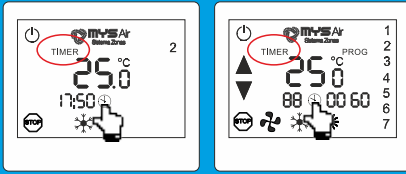
NOTE1: To save and exit programming mode, press  icon.

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

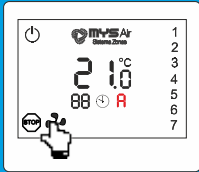
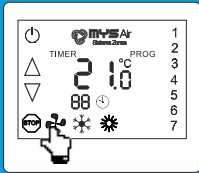
NOTE3: With thermostat OFF, if display show "PROG" icon, It means that there is some program configured and will come to work on time.

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.

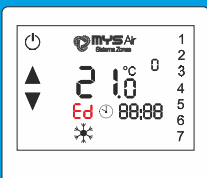
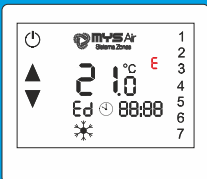
The thermostat's display show information regarding the status of the communication with the Control Unit.

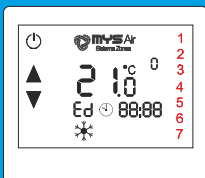
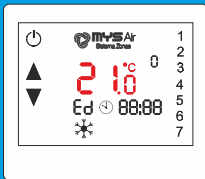
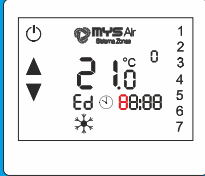
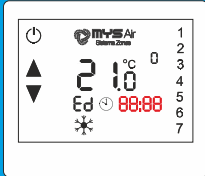
Description of codes in data transmission:

- 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. High 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 Wednesday.
 4 Thursday.
 5 Friday.
 6 Saturday.
 7 Sunday.

MYS

**MATERIALES Y SOPORTES
 IND. DEL LEVANTE, S.L.**



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