

5739 20 (White) 5739 21 (Magnesium)

TECHNICAL SHEET

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Description

Basic probe

The device can control the room temperature according to the daily rates, both during winter and summer. There are two LEDs at the front: a green one and a yellow one. The green LED indicates that the device is functioning properly. The yellow LED indicates the state of the actuators as well as their possible anomalies. Apart from the LEDs, there are no adjustment controls at the front. This feature is ideal for installations in rooms containing people so as to avoid improper interventions. The antifrost/thermal protection and OFF modes can be selected only from the Unit according to the guide-lines below.

OFF mode

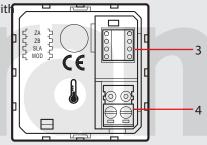
This mode turns off the associated zone.

Antifrost/thermal protection mode

When this mode is selected, if the Temperature control system is set to heating mode, the sensor will operate in antifrost mode; if it is set to cooling mode, it will operate in thermal protection mode. The sensor can also work in collaboration with other sensors of the same type in "slave" or "master" configuration to allow the Control unit to calculate an average of the temperature over several measuring points. This function is useful for managing very large rooms, inside which the temperature can vary appreciably.

If there is a fault on the control unit, the sensor works with the last settings received, thus continuously maintaining the last temperature determined with summer or winter setting. The OFF mode has priority even if the control unit is faulty, thus the zone controlled by the sensor will remain OFF. The sensor can control a zone with a maximum of 9 actuators and 8 "slave" sensors of the same type.

t ns. Unit



Technical data

Power supply from SCS BUS: 18 – 27 Vdc Maximum absorption6 mA Operating temperatu@e: 40 °C Installation height: 150 cm from ground

Dimensional data

Size: 2 modules Depth: 20.7 mm

Legend

- 1. Green LED: when it shines steadily it indicates that the device is active
- 2. Yellow LED: when it shines steadily or it is OFF it signals the state of the act in the corresponding zone, when it flashes it signals a fault
- Configurator housing
- 4. BUS connector



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Configuration

Mode

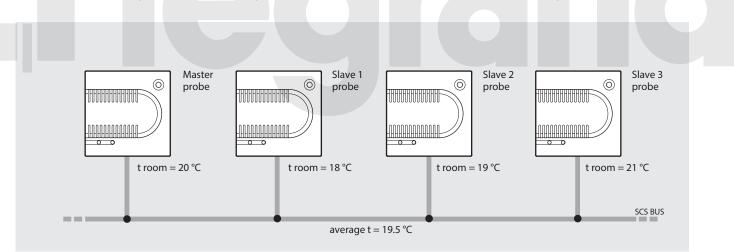
and then carries out the correct actuations. To tell the Temperature con In practice one defines whether the zone manages a heating, cooling bat one based and the based and the second sec by "Configure zones" in the "Maintenance" menu. This also selects the type werse sead to size the zone, up to eight, in the [SLA] housing. To config controlled by choosing from: ON/OFF, OPEN/CLOSE, FAN-COIL 3V. housing insert the configurator marked SLA in the [MOD] housing. To program the Control unit refer to the installation manual supplied Weith the cost All hoursing number all the zone Slave sensors progressive itself. numbering start from configurator 1 and respect the sequence without numbers.

Master and Slave probe

A sensor can work in collaboration with other sensors to allow, inside the same zone, the average calculation of the temperatures at several measurement points. This function is useful for managing very large rooms, inside which the temperature can vary appreciably. To actuate the function one sensor must be configured as "Master" and one or more sensors as "Slave" (max. 8). The Master sensor calculates the average between its temperature and the temperature measured by the Slave sensor

Example of configuration of a zone (address 47) with one master sensor 5739 22/23 and three slave sensors

To assign the probes to zone 47, insert configurators 4 and 7 in the ZA and ZB housings of the four devices. Insert the O configurator in the MOE SLAVE configurator in the MOD housing of the three SLAVE probes (definition of slave probes). Insert configurator 3 in the SLAVE housing of the in this zone); insert configurators 1, 2 and 3 (progressive number of the probe in the zone) in the SLA housing of the three SLAVE probes, respec



Master sensor - 5739 20/21		Slave 1 se	Slave 1 sensor - 5739 20/21		/e 2 sensor - 5739 20/	21 Slave 3 s	Slave 3 sensor - 5739 20/21	
Housing	Configurators	Housing	I	Configurators	Housing	Configurators	Housing	
[ZA]	4	[ZA]	4	[ZA]	4	[ZA]	4	
[ZB]	7	[ZB]	7	[ZB]	7	[ZB]	7	
[MOD]	0	[MOD]	SLA	[MOD]	SLA	[MOD]	SLA	
[SLA]	3	[SLA]	1	[SLA]	2	[SLA]	3	

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Circulation pump

By selecting "Pumps" in the "Maintenance" menu, it is possible to selec**Tthepromas dot** shoe ended to be controlled in the following cases:

to be slaved by means of a circulation pump. Basically, when programming, la system bind with the pump is always in operation (due to water recircul performed between the zones and the pump which supplies them hydray birally ic systems or three-way valves);

In order to complete the programming phase, it is also necessary to select it select it he pump is controlled automatically (in other words mode of the pump, thus determining if the pump is supplying a heating stystem automatically style when all or a combined heating and cooling system. Depending on requirements ally estratic classes in can

have a "single circulation pump" or "several circulation pumps" to serve onit los yeteras growps ch the pump is simply inexistent (for example, for contro of zones. If necessary the "switching ON the pump delay" with respect to all the toget of the air-conditioners).

zone valves can also be controlled.

Pump startup delay

If necessary, it is possible to activate the circulation pump with a **centularized lay** alve, the sensor will wait 4 minutes before starting up the pump relative to the opening of the zone valve. This choice depends on **delety gae b**fe nine minutes at the most and depends on the time needed for valve installed and makes it possible to turn on the pump only where **bfee** valve is

completely open. In order to know the opening time, refer to the specifications indicated by the a time equal to 4 minutes is set, after closing the relay which contaolsflueurpeofitige solenoid value.

NOTEFor details concerning the programming operations from the Unit, please refer to the installation manual supplied with the unit thereof.

Configurator summary table

The following table includes the housings and the configurators used with the sensor item 5739 20/21.

Housing	Function	Configurators
[ZA]	zone address	0 - 9
[ZB]	zone address	0 - 9
[MOD]	Master/Slave mode	0 SLA
[SLA]	Master/Slave mode	0 - 8

Probe calibration

Probes don't normally require calibration; however, in particular iBefalletiterfoitming the calibration operation, ensure the following: ations (perimeter walls, north or south facing walls, when close to heatestherees) bes connected and powered with the hydraulic system off for etc.), the temperature value measured may be corrected using the appropriateing this time, avoid any changes in the room temperature (e.g. calibration function, which can be found in the central unit menu. opening or closing windows, doors, etc.), and avoid standing near them; - for the calibration use a calibrated sample thermometer, correctly position inside the room.

NOT For more details on the calibration procedure and the programming operations using the central unit, refer to the installation manual of the central unit.