TILEGRANDTECHNICAL SHEET



Probe with regulation

5739 22 (White) 5739 23 (Magnesium)

Description

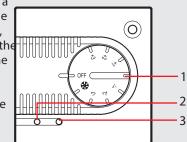
The device can adjust the room temperature in both winter and summer, varying the settings locally with respect to those received from the control unit. The item has a knob for the local temperature selection (limited to \pm 3°C with respect to the value set by the control unit), the antifrost mode and the OFF mode. There are two LED, one green and one yellow, on the front of the item. The green LED indicates that the device is working correctly and the activation of the antifrost mode and OFF of the corresponding area. The yellow LED indicates the actuator state and any faults. OFF mode

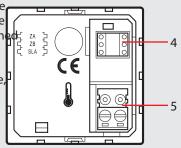
This mode has the maximum priority, whether selected by the sensor or set by the control unit; to quit the OFF mode use the device which set it.

Antifrost/thermal protection mode

In this position if the Temperature control system is set as heating the sensor works in antifrost mode; if it is set as cooling it works as thermal protection. The sensor can also work in collaboration with other sensors in "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 determine with summer or winter setting. If the sensor selects the OFF mode this 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 of the same type, and 8 slave sensors 5739 20/21.





Technical data

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

Dimensional data

Size: 2 modules Depth: 20.7 mm

Legend

- 1. Knob: for manual temperature setting (± 3°C), to select the antifrost/therm protection (mode and the OFF state (forced zone off)
- Green LED: when it shines steadily it indicates that the device is active, who flashes it indicates that the OFF or antifrost modes are set locally
- 3. 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
- 4. Configurator housing
- 5. BUS connector

Configuration

The probe can be remotely configured "virtual configuration". If playsical becoming sink to activate this function a sensor must be configuration. are not connected, a PC with a Virtual Configurator software will be the other sensors must be configured as "Slave" (max 8) sensor calculates the average between its own temperature and the ter

Mode

unit itself.

measured by the slave sensors, and then performs the appropriate action In practice one defines whether the zone manages a heating, cooling Mastern beins dr by connecting to the SLA housing a numerical confic system by "Configure zones" in the "Maintenance" menu. This also is detection by the permber of slave sensors installed inside the room (max 8) of load to be controlled by choosing from: ON/OFF, OPEN/CLOSE, EARNS COULT SWISOR connect the configurator marked with SLA to the MOD To program the Control unit refer to the installation manual supplied with hibe singttol progressively assign a number to all Slave sensors of When performing this number allocation, it is necessary to start from co no. 1, and follow the sequence, ensuring not to miss any numbers. The

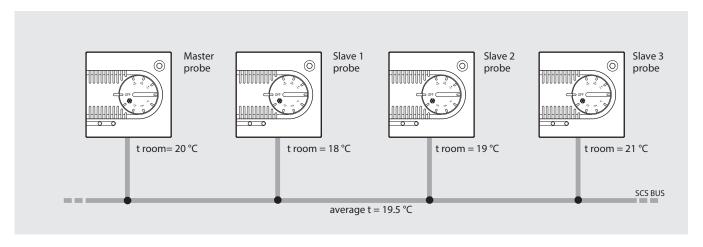
Master and Slave probe

sensor can only operate as "MASTER". Therefore, for the slave function, A sensor may operate together with other sensors, ensuring, with \$7828420 leczonbe used. the calculation of the average temperature values, based on measurements taken in different points.

This function is useful for managing very large rooms, inside which the temperature

Example of configuration of a zone (address 47) with one Master sensor 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 SLA configurator in probes (definition of SLAVE probes). Insert configurator 3 in the SLAVE housing of the MASTER probe (there are three SLAVE probes in thi (progressive number of the probe in the zone) in the SLAVE housing of the three SLAVE probes, respectively.



Master sensor - 5739 22/23		Slave 1 sensor - 5739 20/21		20/21 Slave	Slave 2 sensor - 5739 20/21		Slave 2 sensor - 5739 20/21	
Housing	Configurators	Housing		Configurators	Housing	Configurators	Housing	
[ZA]	4	[ZA]	4	[ZA]	4	[ZA]	4	
[ZB]	7	[ZB]	7	[ZB]	7	[ZB]	7	
		[MOD]	SLA	[MOD]	SLA	[MOD]	SLA	
[SLA]	3	[SLA]	1	[SLA]	2	[SLA]	3	

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5739 22 5739 23

Circulation pump

By selecting "Pumps" in the "Maintenance" menu, it is possible to **Tele-ct.timp zitures**snot need to be controlled in the following cases: which need to be slaved by means of a circulation pump. Basically, **withersystegrasin** which the pump is always in operation (due to water recircuming, a logical bond is performed between the zones and the pump with actions provided by the controlled in the following cases:

The pumps of the pu

- with systems in which the pump is controlled automatically (in other words in order to complete the programming phase, it is also necessary to selectaints matragartiemity when water is needed and stops automatically when all mode of the pump, thus determining if the pump is supplying a heating when all mode of the pump.

or a combined heating and cooling system. Depending on requirements withy slyatthings intentical the pump is simply inexistent (for example, for control have a "single circulation pump" or "several circulation pumps" to serve to serve to the opening of the serve to the opening of the

or zones. If necessary the switching ON the pump delay with respect to the opening of the zone valves can also be controlled.

Pump startup delay

If necessary, it is possible to activate the circulation pump with a **certifairz delay** alve, the sensor will wait 4 minutes before starting up the pump relative to the opening of the zone valve. This choice depends on **the pump** only when the nine minutes at the most and depends on the time needed for valve installed and makes it possible to turn on the pump only when the opening time, refer to the specifications indicated by the completely open.

In order to know the opening time, refer to the specifications indicated by the complete of the complete

If a time equal to 4 minutes is set, after closing the relay which contants fittee urpenfitte solenoid valve.

NOTE or 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 5739 22/23.

Housin	Configurators	
[ZA]	zone address	0 – 9
[ZB]	zone address	0 – 9
[SLA]	Master/Slave mode	0 – 8

Probe calibration

Probes don't normally require calibration; however, in particular in **Befoliation formula** the calibration operation, ensure the following: (perimeter walls, north or south facing walls, when close to heat sources, the ptbles connected and powered with the hydraulic system off for temperature value measured may be corrected using the appropriate and in the cantral unit menu. or closing windows, doors, etc.), and avoid standing near them;

 for the calibration use a calibrated sample thermometer, correctly positione the room.

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