Fan-coil probe with selector

067455 HD4692FAN HS4692FAN N4692FAN
5739 25 (Magnesium) 5739 24 (White) HC4692FAN L4692FAN NT4692FAN

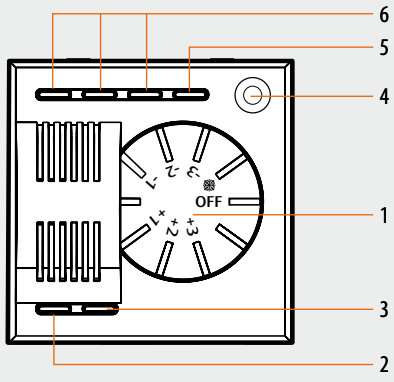
Description

The device can adjust the room temperature in both winter and summer, varying the settings locally with respect to those received from the central unit.
The item has a knob for the local temperature selection (limited to ± 3°C with respect to the value set by the central 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.

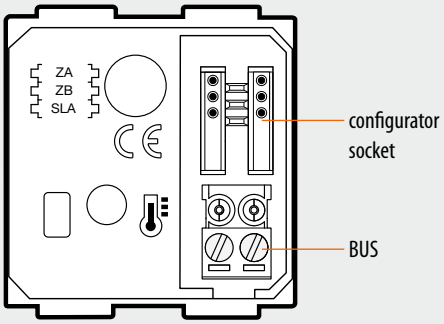
OFF mode
This mode has the maximum priority, whether selected by the probe or set by the central unit; to quit the OFF mode use the device which set it.

Antifrost/thermal protection mode
In this position if the Temperature control system is set as heating the probe works in antifrost mode; if it is set as cooling it works as thermal protection. The probe can also work in collaboration with other probes in "master" configuration to allow the Central 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 central unit, the probe works with the last settings received, thus continuously maintaining the last temperature determined with summer or winter setting.
If the probe selects the OFF mode this has priority even if the central unit is faulty, thus the zone controlled by the probe will remain OFF.
The probe can be used to control a zone with up to 9 actuators of the same type, and 8 slave probes (4693, 573921, 573920 and 067458).

Related articles
682 41 (White cover)
685 41 (Titanium cover)



Front view



Rear view

Legend

1. Knob: for manual temperature setting (± 3 °C), to select the antifrost/thermal protection (❄) mode and the OFF state (forced zone off).
2. Green LED: when it shines steadily it indicates that the device is active, when it 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 devices in the corresponding zone, when it flashes it signals a fault.
4. Key used to enable virtual configuration, and for the switching of the mode and speed of the fan-coil. Use this key to select between "Automatic" (fan speed managed by the probe) and "Manual" (fan speed selected among minimum, medium, and maximum) mode.
5. Red LED: when on, it indicates that "Automatic" mode is active, when off, it indicates that "Manual" mode is active.
6. Red LEDs: they indicate the fan speed settings: from left to right, the speeds are: minimum, medium, maximum.

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Configuration

This probe has been specifically designed to manage 3-speed fan-coils and Climaveneta fan-coils. The probe only has 3 configurator sockets: ZA, ZB, SLA. The ZA and ZB sockets must always be used for the configuration operations, connecting two configurators, identifying the address of the device, and the number of the zone controlled by the probe itself.
The actuators controlled by the probes must be configured with the same zone address.

Socket	Function	Configurators
ZA	zone address	0 – 9
ZB	zone address	0 – 9
SLA	Master mode	0 – 8

The probe can be configured remotely with "Virtual Configuration".
When no physical configurators are available, a PC with Virtual Configurator software version 2.1 must be used.

Programming

Using the "Configure zones" item of the "Maintenance" menu of the temperature control system central unit, it will be possible to define if the zone should manage a heating system, a cooling system, or a combined one.

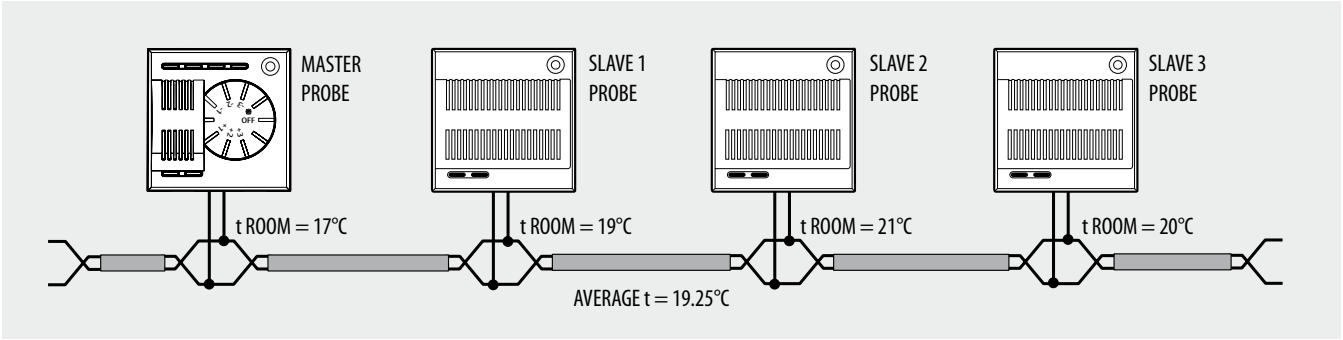
Using the same menu item, also select the type of load to control, among the following: ON/OFF, OPEN/CLOSE, 3SP FAN-COIL and GATEWAY. When performing programming operations from the central unit, refer to the installation manual supplied with the central unit itself.

Master and Slave probe

A probe can operate in conjunction with other probes so that an average temperature calculation can be performed, based on measurements taken from several points within the same zone. This function is useful for the management of very large areas, throughout which the temperature may change consistently. To activate this function, one probe must be configured as "Master", and one or more probes must be configured as "Slave" (max 8). The Master probe calculates the average between its own temperature, and the temperatures measured by the Slave probes, and then performs the appropriate operations. The 4692FAN probe can only operate as Master. Therefore only probe 4693 may be used as Slave. To configure the Master probe, in addition to the zone address, it will be sufficient to connect to the SLA socket a numeric configurator indicating the number of Slave probes installed within the zone (max 8). To configure a Slave probe, connect the configurator marked as SLA to the MOD socket. Use the SLA socket to progressively assign a number to all Slave probes of the zone. During this numbering procedure, it is essential to start from no. 1, and that the sequence is respected, without missing any numbers.

Example of configuration of a zone (address 59), with one Master, and three Slave probes.

To define the probes as belonging to zone 59, connect configurators 5 and 9 to the ZA and ZB sockets of the 4 devices. Connect configurator no. 3 to the SLA socket of the Master probe (there are three Slave probes inside the zone). The SLA configurator must be connected to the MOD sockets of the three Slave probes (definition of Slave probes). Connect configurators no. 1, 2, and 3 respectively to the SLA socket of the three Slave probes (progressive number of the probe within the zone).



Master Probe (HC/HS/L/N/NT4692FAN, 573924, 573925 and 067455)		**Slave 1 probe (HC/HS/L/N/NT4693, 573921, 573920 and 067458)**		**Slave 2 probe (HC/HS/L/N/NT4693, 573921, 573920 and 067458)**		**Slave 3 probe (HC/HS/L/N/NT4693, 573921, 573920 and 067458)**	
Socket	Configurators	Socket	Configurators	Socket	Configurators	Socket	Configurators
ZA	5	**ZA**	5	**ZA**	5	**ZA**	5
ZB	9	**ZB**	9	**ZB**	9	**ZB**	9
SLA	3	**MOD**	SLA	**MOD**	SLA	**MOD**	SLA
		SLA	1	**SLA**	2	**SLA**	3

Circulation pump

When programming the operating mode of the circulation pumps is not necessary to connect any special configurators: it will be sufficient to use the temperature central unit. Through the "Pump" item, inside the "Maintenance" menu, select the zones that must be served by a circulation pump. Using the programming procedure, set a logic link between the zones, and the pump that hydraulically supplies them. To complete the programming procedure, the pump management mode must also be selected, thus defining if the pump supplies a heating, a cooling, or a combined system. Depending on the needs of the hydraulic system, one "circulation pump" or "several circulation pumps" may be installed, to supply one or more zone groups. If necessary, it is also possible to set a "pump switch-on delay", in relation to the opening of the zone valves.

Probe calibration

Probes don't normally require calibration; however, in particular installation situations (perimeter walls, north or south facing walls, when close to heat sources, etc.), the temperature value measured may be corrected using the appropriate calibration function, which can be found in the central unit menu.

Before performing the calibration operation, ensure the following:

- leave the probes connected and powered with the hydraulic system off for at least 2 hours. During this time, avoid any changes in the room temperature (e.g. by opening or closing windows, doors, etc.), and avoid standing near them;
- for the calibration use a calibrated sample thermometer, correctly positioned inside the room.

Note: For more details on the calibration procedure and the programming operations using the central unit, refer to the installation manual of the central unit.

In the following cases, pump control is not necessary:

- in systems where the pump is always in operation (thanks to water recirculation hydraulic systems, or the presence of three-way valves);
- in systems where the pump is managed automatically (it comes on by itself when water is required, and turns off again when all valves are closed);
- in systems where the pump has simply not been installed (for example for air conditioning units or electric heating control).