# Temperature central unit

## Description

This central unit can manage temperature control systems up to 99 zones, set the system and modify the system operating mode.
It can manage the magnetic contacts installed on the window frames to activate the energy-saving function (switching OFF the zones affected by any changes of air).
Equipped with management software with guided menus shown on the display, it allows the user to chose the operating mode, display the temperatures of the various zones and display and modify the daily temperature profiles and the weekly programs, while the maintenance menu, reserved for the installer (password protected), allows access to the system settings (zone configuration, system test, total reset, etc.).
The central unit can provide both heating and/or cooling and can manage up to 99 different zones (with one Master sensor for each zone plus possible Slave sensors) and up to 9 circulation pumps.
A contact can be connected in input for remote control by means of a telephone actuator to switch from the antifreeze mode to the automatic mode and vice versa.
By using the serial connector and the supplied software, it is possible to program the unit from a PC.
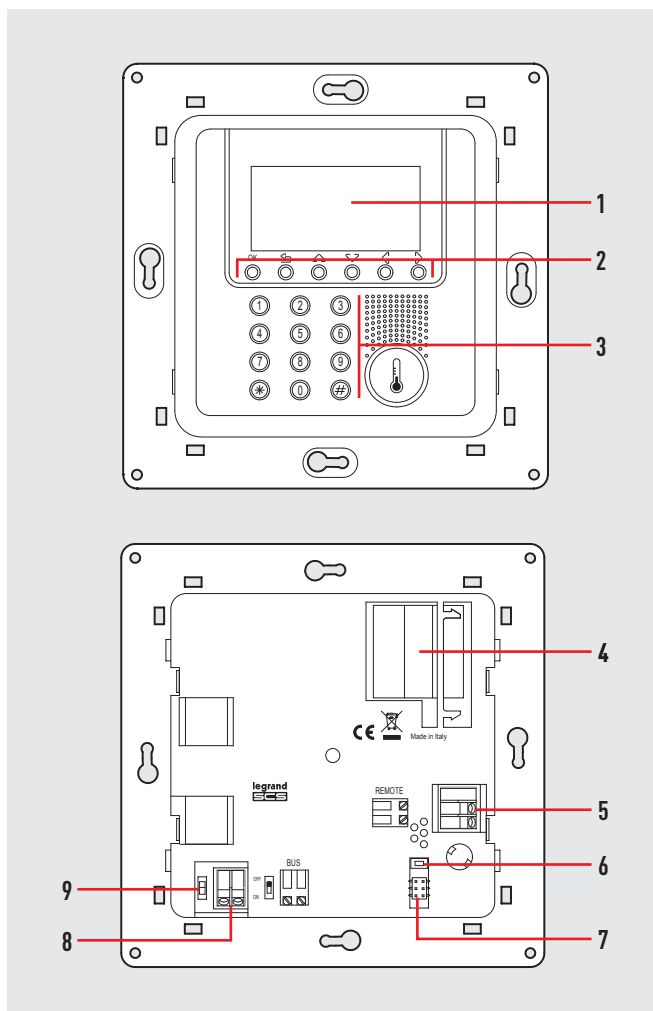
## Related articles

801 24 (Flush mounting box)

## Technical data

| | |
|---|---|
| Power supply from SCS BUS: | 18 – 27 Vdc |
| Maximum absorption: | 75 mA |
| Degree of protection: | IP30 |
| Operating temperature: | 0 – 40 °C |
| Temperature setting: | 3 – 40 °C ± 0.5 °C |

## Dimensional data

Size of flush mounting box (801 24):
H=142 mm
L=142 mm
W= 50 mm

Size of cover plate:
H=159 mm
L=175 mm
W=8,5 mm



## Legend

1. Graphic display: shows the messages which guide the programming operations and the system state
2. Navigation keypad: allows navigation within the menus and confirms or deletes programming operations
3. Alphanumeric keypad: allows manual entry of all those programming operations which require the use of numbers and/or symbols
4. Battery compartment: housing for battery item 685 18
5. Remote control: connection terminal
6. Reset pushbutton: pushbutton to reset the hardware
7. Serial connector: connects to a PC via cable 492 34 (for USB).
8. BUS: BUS connection terminal
9. Switch ON/OFF

Graphic display

In normal working conditions the Control unit display shows the following information on the initial page:



Operating mode

Weekly
Example
Winter

Name of the
program being run

State:
Winter (heating)
Summer (Cooling)

Wed. 01 Oct.    00 : 01

Date    Hour

Software supplied

As an alternative to the display and keypad on the temperature control units, it is possible to use the supplied program. This application is included in the package of the control units and enables you to confi gure and program the unit or, for specifi c maintenance requirements, to update its firmware.
Maintenance parameters can be programmed, for example:
- the customisation of zones (¨rename¨ function)
- the confi guration of zones
- the selection of the loads to be controlled (type of solenoid valve, fan-coil, etc.)
- the management of the circulation pumps
When programming, it is possible to set up and customise all the functional parameters of the unit and of the system and later on, by using the data downloading function via the serial port, it will be possible to transfer them automatically from the PC to the unit; It is also possible to upload all the data from the unit to the PC, i.e. to make changes for a previously achieved project.

NOTE: for more information concerning the application, please refer to the manual supplied with the products.