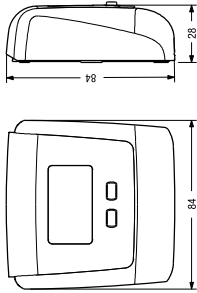
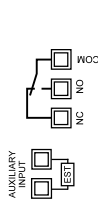
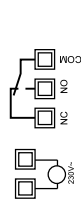




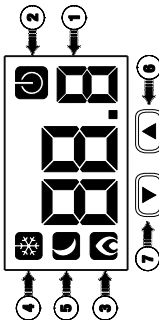
2 DIMENSIONS



3 WIRING DIAGRAMS



4 LEGEND



- 1 "Room temperature" field
- 2 "Heating activation" field
- 3 "Cooling activation" field
- 4 "Active night reduction" field
- 5 Key "▲" increases the selected field
- 6 Key "▼" decreases the selected field

5 INSTALLATION

- Install the thermostat at a height of about 1.5 m above the floor, away from direct sunlight, away from doors, windows, heat sources, locations with excess or total lack of ventilation.
- Remove the front shell acting in accordance with the picture on the right.
- Make the connections by respecting the diagrams described in this manual.
- Insert the batteries in the compartment (for Klima LCD only)
- Fix the instrument to the wall.
- Reposition the front shell, by mating first the teeth on the upper side.

1

User Manual WALL-MOUNTING ELECTRONIC THERMOSTATS Read all instructions carefully

Wall-mounting electronic thermostats for temperature control both in heating and cooling. They perform actions of type "B" and are intended for operating in rooms with Pollution Degree 2 and Overvoltage Category III (EN60730-1).

- **Klima LCD**, with battery power supply and has an auxiliary input for a temperature probe configuration or of an external contact to reduce setpoint of 3 °C.
- **Klima LCD 230** with mains power supply.

Code	Model	Description
VF729000	Klima LCD	Battery thermostat with auxiliary input
VF730800	Klima LCD 230	230V Thermostat

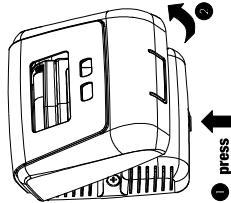
SAFETY WARNINGS

- During product installation and operation it is necessary to observe the following instructions:
- 1) The instrument must be installed by a qualified person, in strict compliance with the connection diagrams.
 - 2) Do not power or connect the instrument if any part appears to be damaged.
 - 3) After installation, inaccessibility to the connection terminals without appropriate tools must be guaranteed.
 - 4) The instrument must be installed and activated in compliance with current electric systems standards.
 - 5) Before accessing the connection terminals, verify that the leads are not live.
 - 6) In the electrical system of the building where the instrument must be installed, a protection device from the overcurrents must be present (for Klima LCD 230 model only).

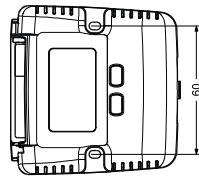
TECHNICAL SPECIFICATIONS

- Power supply Klima LCD:
 - 2 alkaline batteries 1.5V (AAA type)
 - battery life: 12 months
 - depleted batteries indication
- Power supply Klima LCD 230:
 - 230Vac (+15% ÷ +10%) 50/60Hz
 - max absorption: 2.5 VA / 230Vac
- Terminals Klima LCD:
 - 3 terminals for 1.5 mm² cables for output relay 5A / 250 Vac
 - 2 terminals for 1.5 mm² cables for auxiliary input (to connect a temperature probe or an external contact to reduce setpoint of 3°C)
- Terminals Klima LCD 230:
 - 3 terminals for 1.5 mm² cables for output relay 5A / 250 Vac
 - 2 terminals for 1.5 mm² cables for power supply
- Operating mode: summer/winter/off (with antifreeze)
- Password protected lock keypad
- Type of command:
 - on/off with settable differential (0.1 ÷ 1°C)
 - P8 proportional with 0.8°C band (-0.3 ÷ +0.5°C) and period 8 minutes
 - P15 proportional with 1.5°C band (-0.7 ÷ +0.8°C) and period 15 minutes
- Measurement temperature resolution: 0.1 °C
- Setpoint range: 2°C ÷ +35°C
- Operating temperature: 0 °C ÷ +50 °C
- Storage temperature: -10 °C ÷ +65 °C
- Operating humidity: 20-90% non condensing
- Protection degree: IP40
- Insulation: reinforced among accessible parts (frontal) and all other terminals

Remove the front shell



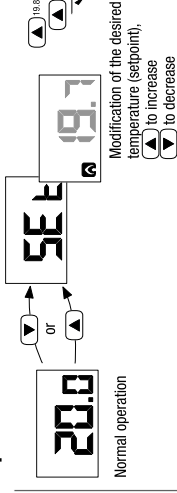
View wheelbase hole



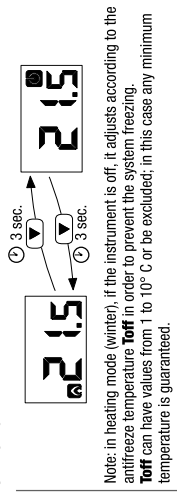
6 OPERATION

During the normal operation the thermostat displays the measured temperature value and the relay status is identified by the symbol (heating) or the symbol (cooling).

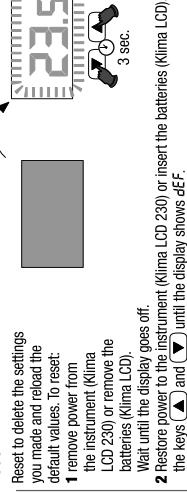
Setpoint modification



Switch off



Reset

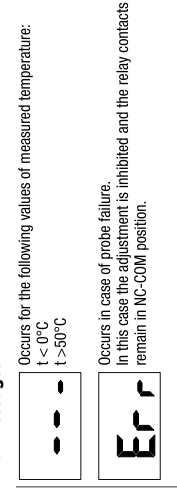


Advanced programming

To enter menu Advanced programming keep simultaneously pressed for 3 seconds the keys (up/down) until 'Pr.' will appear. The items of the menu are displayed in succession. For each item is displayed an identification abbreviation and its relative blinking value. Use the keys (up/down) to modify the value. The passage to the next parameter occurs after 3 seconds without pressing any key. Once all parameters are set the writing 'End' is displayed and the thermostat returns to normal operation saving the effected modifications.

L0	Minimum settable setpoint - L0 It's the minimum value settable as setpoint. Settable values: 2 ÷ h !
H1	Maximum settable setpoint - H1 It's the maximum value settable as setpoint. Settable values: L0 ÷ 35°C
E-1	Operating mode - E-1 If connected to the boiler (heating) or connected to a cooling system
06.0	Antifreeze temperature - Toff (only in heating) Minimum temperature maintained with instrument off (see box "Switch offs") Settable values: 1 ÷ 10 °C or --- (excluded function)
rEG	Type of command - rEG (only in heating) = on/off with settable differential
d0.3	P8 = proportional with band 0.8°C and period 8 minutes P15 = proportional with band 1.5°C and period 15 minutes Differential - d0.3 (only on/off regulation) Differential (or hysteresis) for temperature regulation. Settable values: 0.1 ÷ 1°C
ES1	Input configuration - ES1 (only Klima LCD battery model) - d f c for one temperature probe connection - d f c for connection of an external contact to reduce setpoint (see "Auxiliary input configuration")
PR5	Password for keypad lock - PR5 Set a value between 001 and 999 to activate the keypad lock. Set "----" to disable the lock. If the keypad lock is active, pressing one key L o c appears and the password is required. If it's properly inserted the keyboard is unlocked for the next 30 seconds.

Error messages



Default values

Heating setpoint	21 °C
Cooling setpoint	25 °C
Minimum settable setpoint - L0	2 °C
Maximum settable setpoint - H1	35 °C
Operating mode	(heating)
Antifreeze temperature	6 °C
Type of command	On /Off
Differential	0.3°C
Auxiliary input	DIG
Password	--- (disabled)

Auxiliary input configuration (only Klima LCD battery model)

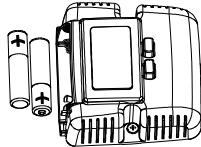
Models battery powered have a digi auxiliary ia/ input that can be configured for connection instead of:
 - an auxiliary temperature probe. In this case display shows the temperature measured by the auxiliary probe.
 - an external contact for the set-point temperature reduction.
 Closed external contact allows setpoint reduction of 3 °C than the set one. Display shows the symbol **L0**.
 For auxiliary input configuration, see "Advanced programming" on this manual.

Depleted batteries signal (only Klima LCD battery model)

Replace the batteries as soon as possible!
 Dispose of batteries in the appropriate recycling containers.

Batteries replacement

- Remove the front shell.
- Insert the batteries in the appropriate compartment (attention to the polarity).
- Reposition the front shell.



REFERENCE STANDARDS

Compliance with Community Directives
 2006/95/EC (Low voltage)
 2004/108/EC (E.M.C.)
 is declared with reference to the following harmonized standards:
 • EN 60730-2-9