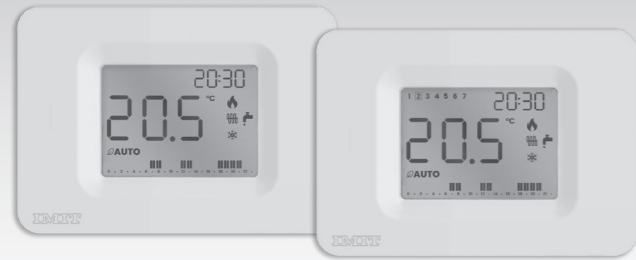


ORION DAY/WEEK



Wall Programmable Thermostat Daily/Weekly



IMIT CONTROL SYSTEM s.r.l.
Via Varallo Pombia,19 - Castelletto Sopra Ticino (NO)
Tel (+39)0331941600 - Fax (+39)0331973100
www.imit.it - info@controlsyst.it

ORION D/W RL - Rev. 0623 - ENG

PRODUCT DESCRIPTION AND TECHNICAL SPECIFICATIONS

This product is manufactured according to the EN 60730-2-9, EN 60730-2-7 standards, in accordance with the applicable EC directives and is entirely manufactured in Italy.

TECHNICAL SPECIFICATIONS

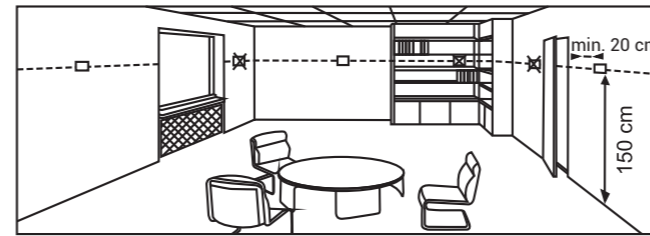
Power supply: Alkaline Batteries 2x1.5V LR6 (Type AAA)
Battery life > 1 year
ErP class = IV (-2%) in ON/OFF mode with TPI
ErP class = I (-1%) in traditional ON/OFF mode
Maximum contact capacity: 5A(1A) 250VAC
Programming: Daily/Weekly (second model)
Operation Mode: Manual / Automatic / Antifreeze
Minimum time slot programming: 0.5 h
Programming on two temperature levels
Temperature regulation range: 5.0÷35.0°C
Temperature display range: 0.0÷50.0°C
Temperature differential: adjustable from 0.1 to 2.0 K (standard 0.2 K)
Maximum ambient temperature: 50°C
Temperature probe: NTC 100KΩ@25°C
Degree of protection: IP20
Insulation class: Type II (double insulation)
Type of action: 1B
Pollution degree: 2
Software: class A
Resistance to heat and fire: Category D
Storage temperature: -25 ÷ 60°C
Type of system: Heating/Air Conditioning
Assembly: Wall-mounted

WARNING!

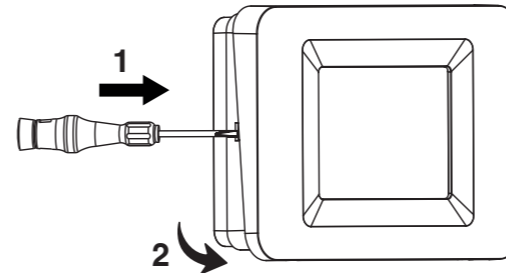
The installation of the programmable thermostat must be performed by a qualified technician. It is advisable to perform the installation strictly respecting the safety regulations and the legal provisions in force. Before making any connections, ensure that the main switch is turned off. The manufacturer is not responsible for improper use of the product.

INSTALLATION

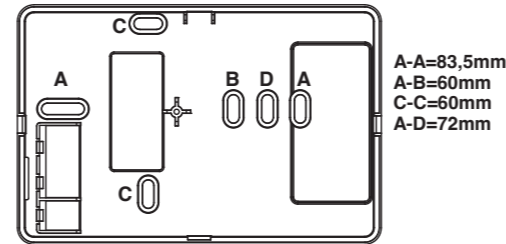
Install the device away from heat sources and drafts, about 1.5m from the floor.



Open the device by pressing the tab on the LEFT side of the base (1), turn the front SLIGHTLY to the RIGHT (2) and LIFT IT to release it.

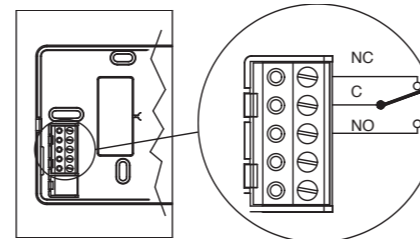


Remove the inner cover over the clamps by unscrewing the retaining screw and turning the cover to the left. Fix the base to the wall, using horizontal (A-B, A-D, A-A) or vertical (C-C) spacing.

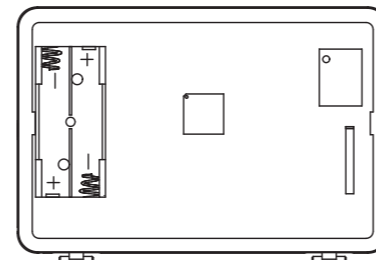


Electrical connections

Insert the cables through the opening on the bottom and connect them to the terminal board respecting the diagram shown on the label inside the appliance, then reposition the inner cover by screwing the relative screw back on.




Insert the batteries in the appropriate seat inside the front, respecting the correct polarity, as indicated in the figure.



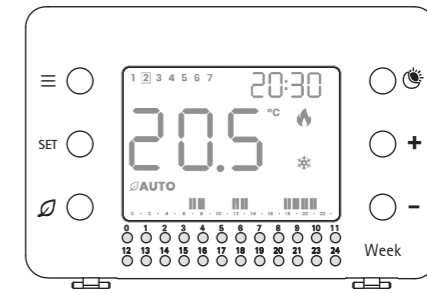
TO CLOSE THE DEVICE, COUPLE THE TWO PARTS AND PRESS THE FRAME OF THE FRONT PART UNTIL THE TWO SIDE HOOKS CLICK.









Battery replacement

When the FLASHING depleted batteries symbol appears  they must be replaced. WHEN THE WORD "bAt " APPEARS, THE BATTERIES ARE DEPLETED AND THE SYSTEM IS LOCKED : THEY MUST BE REPLACED IMMEDIATELY TO REACTIVATE IT. Proceed as indicated in the installation instructions and reassemble the cover on the base before performing any operation.

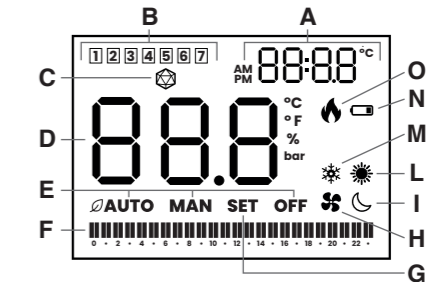
DESCRIPTION OF COMMANDS AND OPERATION

Key legend



	MENÙ
	SETTINGS
	AUTO/MAN/OFF OPERATION MODE
	COMFORT/REDUCED TEMPERATURE SETTING
	VALUE INCREASE
	VALUE DECREASE
	TIME PROGRAM KEYS
	DEVICE MODEL (Daily/Weekly)

Display legend

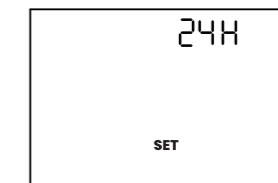


- A CLOCK / TEMPERATURE SET
- B DAY OF THE CURRENT WEEK (Week version only)
- C DISPLAY BRIGHTNESS SETTING
- D ROOM TEMPERATURE
- E OPERATION MODE (Auto/man/OFF)
- F TIME PROGRAM active
- G PARAMETER SETTING
- H SYSTEM IN OPERATION (Air conditioning)
- I REDUCED TEMPERATURE ACTIVE
- L SUMMER Mode (Air conditioning)
- M WINTER mode (Heating)
- N BATTERIES DEPLETED
- O SYSTEM IN OPERATION (Heating)

FIRST IGNITION

When the batteries are inserted, the display momentarily displays all the segments and symbols followed by the software version number, after which the clock setting is requested.

Clock setting

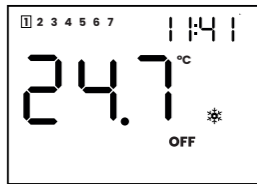


- Set the format to 24H or 12H with <+/->, then <SET>.
- Set the time with <+/->, then <SET>.
 - Set the minutes with <+/->, then <SET>.
 - Set the day with <+/->, then <SET>. (only for the WEEK version)
- The device is set to [OFF] mode.

Note: If the setting procedure is not correctly performed or completed within 10 minutes, the device will be activated, displaying the flashing clock and room temperature value on the display. In this case, for correct activation of the thermostat, the following are necessary:

- Set the time with <+/-> and confirm with<SET>.
- Set the minutes with <+/-> and confirm with<SET>.
- Set the day with <+/->, then <SET>. (only for the WEEK version)

MODE [OFF]=ANTIFREEZE, WINTER



The display shows OFF, the clock and the room temperature. The antifreeze function is active. In this mode the thermostat preserves the system by activating the boiler only when the room temperature drops below a minimum value (factory set at +6°C).

ACTIVE MODES: AUTOMATIC [AUTO] AND MANUAL [MAN]

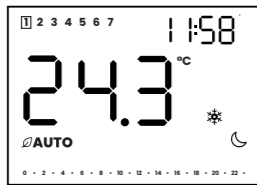
Press in succession to switch to [AUTO] mode, [MAN] mode and to return to [OFF] mode.

[AUTO] = Temperature Regulation according to time Program

[MAN] = Operation with Manual Temperature set.

Pressing the <SET> key in these two operating modes allows alternate displaying of the clock or of the active set temperature (in the top right of the display).

AUTOMATIC MODE



The comfort set temperature (hereinafter: TC) or reduced set temperature (hereinafter: TR) changes automatically depending on the time program stored.

Upon the first power-up, no time slot is programmed and the TR (symbol) is set by default.

Comfort (TC) and Reduced (TR) Temperature Settings

Press in succession to display the TC (symbols and [SET] flashing) or the TR (symbols and [SET] flashing).

Press <SET> to exit the display, or press the < +/-> keys to change the value.

Press <SET> to store the new values and to return to the [AUTO] mode

If the procedure is not completed, after 10 minutes of inactivity, the thermostat returns to [AUTO] mode with the previously stored values.

Factory settings:

Winter mode

Comfort temperature 20°C

Reduced temperature 16°C

Summer mode

Comfort temperature 24°C

Reduced temperature 28°C

Time programming

Before proceeding with programming, make sure that the clock settings are set correctly.

Otherwise, go to the user menu to update the data (see USER MENU chapter).

DAY model programming

The 24 keys correspond to the 24 hours of the day and are only active in [AUTO] mode.

Press the key corresponding to the desired time to activate the TC (its segment will be on) or TR (its segment will be off).

For each hour it is possible to program the single 1/2. Press the key several times to obtain the on and off sequence of the corresponding segment, as indicated below.

Press key	Display	0/29min	30/59min
Start	--	TR	TR
One touch		TC	TC
Second touch	_	TC	TR
Third touch	_	TR	TC
Fourth touch	--	TR	TR

ANY CHANGE TO THE PROGRAMMING CHANGES THE PREVIOUS SETTINGS; THE CHANGE IS IMMEDIATELY ACQUIRED AND ACTIVATED WITHOUT FURTHER CONFIRMATION.

WEEK model programming

In the WEEK version it is possible to set a different time programming for each day of the week. Press to activate the weekly programming function. The display shows [SET] and the current day tab is flashing.

Proceed with today's programming as described for the DAY model (previous chapter).

Press +/- to move to the next or previous day.

Run the new day program and repeat until the weekly programming is complete. Once finished, press to validate the program and to return to the AUTO mode.

Copy function

To facilitate weekly programming, it is possible to copy the daily settings entered to the next day. Once the day programming is set press <SET>. The programming will be copied to the next day (the new day flashes). With each additional touch of the <SET> key, the programming will be copied to the next day.

At the end press to exit the programming and to validate the choices.

EACH CHANGE TO THE ACTIVE DAY PROGRAMMING CHANGES THE PREVIOUS SETTINGS. THE CHANGE IS IMMEDIATELY ACQUIRED AND ACTIVATED WITHOUT THE NEED FOR ACCESS TO PROGRAMMING FUNCTIONS OR FURTHER CONFIRMATION.

Temporary forcing of the set temperature

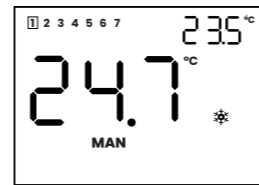
During operation in [AUTO] mode it is possible to TEMPORARILY change the value of the desired temperature active at that time (either TC or TR) without entering programming mode.

This change does not alter the pre-set values of TC or TR and is only active until the next change of state (TC/TR or vice-versa) provided by the program.

Pressing the < +/-> keys changes the value of the active temperature that is flashing in the upper right. The setting is acquired by pressing the <SET> key or at the end of the flashing.

N.B.: IF THERE ARE NO CHANGES OF STATUS IN THE PROGRAM, FROM TC TO TR OR FROM TR TO TC, AFTER FORCING, THIS FUNCTION WILL REMAIN ACTIVE AND WILL BE EQUIVALENT TO USING THE DEVICE IN [MAN] MODE.

MANUAL MODE [MAN]



The thermostat regulates the room temperature exclusively according to the manual temperature setting.

Press <SET> to display the set temperature.

Press the < +/-> keys to change the desired temperature (between 5 and 35°C). The value is displayed in the upper right flashing. The setting is acquired by pressing the <SET> key or at the end of the flashing.

Factory settings:

Winter mode: : 20°C

Summer mode: : 24°C

WINTER SEASON MODE (Factory Setting)

The Comfort Temperature is greater than the Reduced Temperature (TC > TR)

Tamb = room temperature

Tset = set temperature

When Tamb < Tset, the heating is activated, flame symbol active

When Tamb = Tset, the heating is deactivated, the flame symbol is no longer present on the display.

The next re-ignition will occur when the Tamb < Tset - hysteresis.

To switch from Winter (Heating) season mode to Summer (Conditioning) season mode and vice-versa refer to the next USER MENU chapter.

SUMMER SEASON MODE (Factory Setting)

The Comfort Temperature is lower than the Reduced Temperature (TC < TR)

Tamb = room temperature

Tset = set temperature

When Tamb > Tset, the cooling is activated, active fan symbol

When Tamb = Tset, the cooling is deactivated, fan symbol no longer present on the display.

The next re-ignition will occur when the Tamb > Tset + hysteresis.

To switch from the Summer (Conditioning) season mode to the Winter (Heating) season mode and vice-versa refer to the next USER MENU chapter.

USER MENU

Through the User Menu it is possible to vary the following parameters:

1) Summer/Winter Mode

2) Clock setting

3) Display brightness setting

To access the User Menu activate the [OFF] mode using the key and press the key

The display shows the word [SET] flashing.

1) Summer/Winter

The snowflake (factory value) or sun icon flashes.

Press the + key to set the winter mode .

Press the - key to set the summer mode .

Press the <SET> key to confirm the operation and go to the next parameter or wait for the end of the flashing to exit the Menu, saving the modified data.

2) Clock adjustment

The hour flashes (the day for WEEK model also flashes)

Press < +/-> to adjust the hours, <SET> to confirm

Press < +/-> to adjust the minutes, <SET> to confirm.

Press < +/-> to adjust the day (week model only)

Press the <SET> key to confirm the operation and go to the next parameter or wait for the end of the flashing to exit the Menu, saving the modified data.

3) Brightness setting

The icon and the currently set value (50% factory) flash.

Press < +/-> to increase or decrease the brightness. Press the <SET> key to confirm the operation and exit the Menu or wait for the end of the flashing to exit the Menu, saving the modified data.

INSTALLER MENU

ATTENTION: THE PARAMETERS CONTAINED IN THIS MENU IF MODIFIED AFFECT THE OPERATION OF THE DEVICE.

To access the Installer Menu, activate the [OFF] mode and simultaneously press the < + > and < - > keys for at least five seconds.

The display shows the word [SET] flashing; the number of the parameter and the value set.

Press the <SET> key to display the parameters, press the < +/-> keys to change the value of the displayed parameter. Press the <SET> key to confirm the change and to move to the next parameter.

P01 ANTIFREEZE THRESHOLD

Factory setting +6°C, adjustable between 5.0 to 10°C, with 0.5°C variation.

P02 HYSTERESIS

The factory setting 0.2°C, adjustable between 0.1 and 2.0°C.

is defined as the difference between the desired temperature (which causes the system to switch off once reached) and the temperature to be reached for the system to reactivate. The correct adjustment must be made according to the characteristics of the system and the perceived comfort.

P03 ROOM TEMPERATURE READING CALIBRATION

Factory setting 0.0°C, adjustable from -5.0 to +5.0°C

P04 REGULATION TYPES SETTING

0 = Hysteresis ON/OFF regulation

1 = TPI regulation for radiator systems

2 = TPI regulation for floor systems

Factory setting "0". For further information refer to the following chapter REGULATION TYPES.

P05 RESET PARAMETERS TO FACTORY VALUES

Displaying of word [rSt]. Press and hold the < + > and < - > keys simultaneously for a few seconds.

Evidence of the reset to the factory settings is given by the shutdown of the display and the progressive display of three horizontal segments with the subsequent thermostat restart.

TO NOT PERFORM A RESET TO THE FACTORY PARAMETERS, PRESS THE <SET> KEY TO CONFIRM THE OPERATION AND EXIT THE INSTALLER MENU.

TYPES OF REGULATION

Hysteresis On/Off regulation

This is the traditional ON/off operation: in winter the system is activated continuously until the desired room temperature is reached.

At this point the system will remain off until the room temperature drops below the desired temperature minus another factor called hysteresis. In summer mode the operation is reversed.

TPI regulation

The TPI is a type of regulation that ensures activation of the system for the minimum time necessary, but sufficient to maintain the room at the selected temperature.

A thermostat with TPI continuously measures the ambient temperature in which it is placed and performs a series of calculations to establish the duration of the ignition of the system to reach and maintain the set temperature, thus increasing energy efficiency.

The system will turn on for increasingly shorter periods as it approaches the correct temperature. When the setpoint temperature value is reached in the room, the system is switched on for short periods in order to maintain this temperature.

WARNINGS FOR CORRECT DISPOSAL OF THE PRODUCT

At the end of its useful life, the product must not be disposed of together with municipal waste.

It can be delivered to the appropriate separate collection centres set up by the local authorities, or to the retailers that provide this service.

Disposing of an electrical or electronic appliance separately avoids possible negative consequences for the environment and health deriving from its inadequate disposal and allows recovering of the materials of which it is composed in order to obtain the significant saving of energy and resources.

To highlight the obligation to dispose of electrical and electronic equipment separately, the product bears the crossed-out mobile waste container mark.