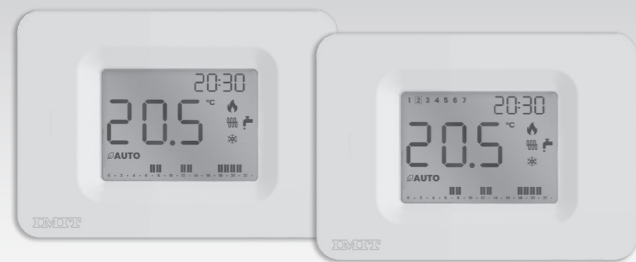


ORION DAY/WEEK



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@controlsys.it

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

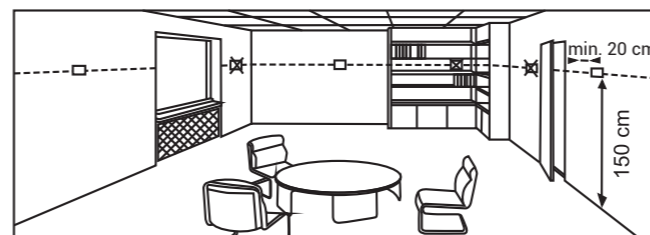
WARNING!

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.

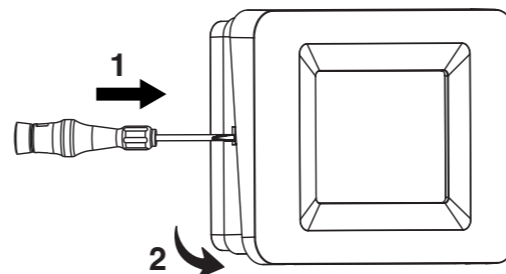
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INSTALLATION

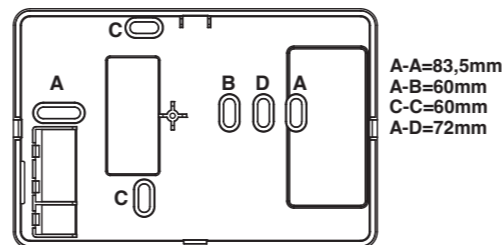
Install the device away from heat sources and drafts, about 1.5m from the floor.



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.

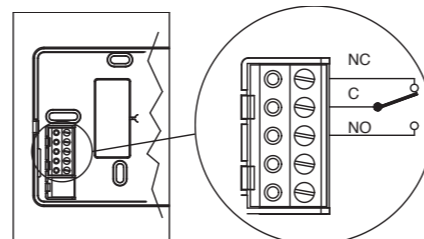


Remove the inner cover over the clamps by unscrewing the retaining screw and turning the cover to the left. Fix the base to the wall, using horizontal (A-B, A-D, A-A) or vertical (C-C) spacing.

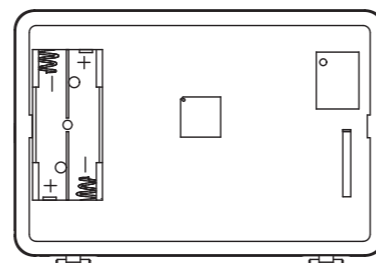


Electrical connections

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.



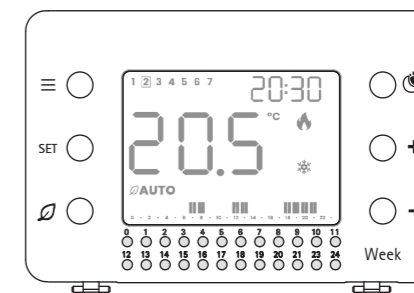
TO CLOSE THE DEVICE, COUPLE THE TWO PARTS AND PRESS THE FRAME OF THE FRONT PART UNTIL THE TWO SIDE HOOKS CLICK.





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.

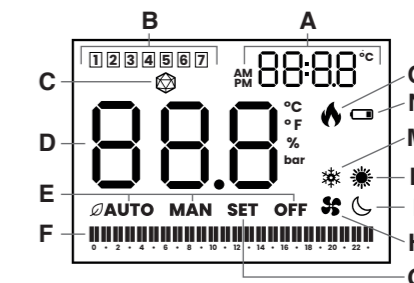
DESCRIPTION OF COMMANDS AND OPERATION

Key legend



	MENÙ
	SETTINGS
	AUTO/MAN/OFF OPERATION MODE
	COMFORT/REDUCED TEMPERATURE SETTING
+	VALUE INCREASE
-	VALUE DECREASE
0-23	TIME PROGRAM KEYS
Day/Week	DEVICE MODEL (Daily/Weekly)

Display legend

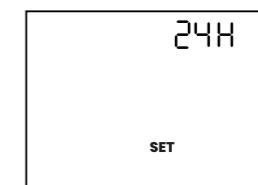


- A CLOCK / TEMPERATURE SET
- B DAY OF THE CURRENT WEEK (Week version only)
- C DISPLAY BRIGHTNESS SETTING
- D ROOM TEMPERATURE
- E OPERATION MODE (Auto/man/OFF)
- F TIME PROGRAM active
- G PARAMETER SETTING
- H SYSTEM IN OPERATION (Air conditioning)
- I REDUCED TEMPERATURE ACTIVE
- L SUMMER Mode (Air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

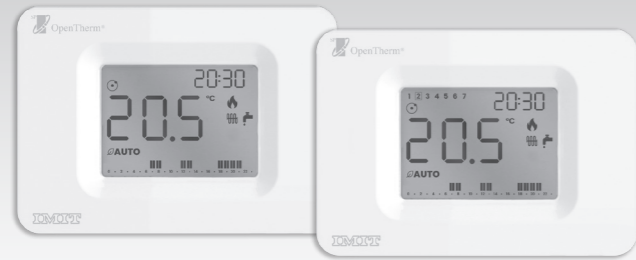


- Set the format to 24H or 12H with <+/->, then <SET>.
- Set the time with <+/->, then <SET>.
 - Set the minutes with <+/->, then <SET>.
 - Set the day with <+/->, then <SET>. (only for the WEEK version)
- The device is set to [OFF] mode.

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)

ORION DAY/WEEK OT



Daily/weekly wall-mounted chrono-thermostat OPENTHERM IN CLASS V



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077727 Rev. 0324 - EN

PRODUCT DESCRIPTION AND TECHNICAL SPECIFICATIONS

ORION OT, in the version with daily (ORION DAY OT) or weekly (ORION WEEK OT) programming, is a chrono-thermostat designed for the remote control of modulating boilers with standard OPENTHERM communication protocol, but it can also be used in combination with appliances of Traditional ON/OFF or with TPI algorithm type control.

This manual shows the instructions for using the device in OPENTHERM mode (factory-set). Please refer to the instruction sheet dedicated to ORION DAY / WEEK devices for all the information common to both operating modes and those dedicated to the ON/OFF operating mode only.

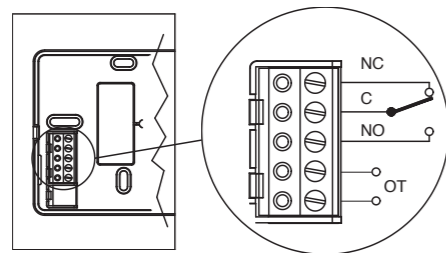
Power supply: In OPENTHERM mode (modulating): 2 unpolarized boiler bus cables (OT)
In ON/OFF mode (relay): 2 x Alkaline Batteries 1.5 V LR6 (Type AAA)
ErP Class (EU Reg. 811/2013- 813/2013): V In modulating OPENTHERM mode (-3%)
IV In ON/OFF mode with TPI function (-2%)
I In traditional ON/OFF mode (-1%)

INSTALLATION

Before installing ORION OT we recommend to check its compatibility with the boiler: BUS communication protocols other than OPENTHERM could affect the operation of the system.

To complete the installation follow the instructions of the standard ON/OFF devices. For electrical connections, refer to the figure below, taking care to use ONLY the terminals indicated with OT for the operation in OPENTHERM mode or the NC-C-NO terminals for the operation in ON/OFF mode.

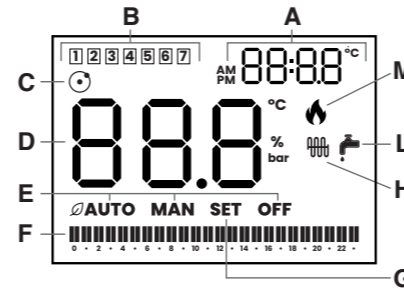
Make sure that the internal protection of the terminals is properly positioned before closing the appliance.



At the time of the first installation and during the boiler on and off phase, it may take a few seconds both to guarantee the correct modulation and for the correct acquisition of operating data.

DESCRIPTION OF CONTROLS AND DISPLAY

In the OPENTHERM mode, the functions of the keys do not change with respect to the standard ON/OFF versions. As regards the display, in addition to the icon indicating the OPENTHERM mode enabled, there are icons dedicated to the management of the heating system and the domestic hot water function.



- A) Clock / set temperature/ parameter indication
- B) Day of the week (Week version only)
- C) OPENTHERM mode enabled
- D) Room temperature / Operating values
- E) Operating mode enabled (AUTO/MAN/OFF)
- F) Hour program enabled (AUTO mode)
- G) Parameter setting (SET)
- H) Fixed ON = Heating mode enabled
Flashing = System in operation
- L) Fixed ON = Domestic hot water mode enabled
Flashing = Sanitary water drawing in progress
- M) Boiler control enabled

DEVICE ACTIVATION

For the operation in OPENTHERM modulating mode, the appliance is powered directly by the boiler to which it is connected and does not require batteries. In this mode, depending on the boiler characteristics, the display backlight could be reduced or excluded. For the use in ON/OFF mode, the appliance must instead be powered by two alkaline batteries of AAA type, properly inserted in the dedicated compartment.

When the device is switched on, all the segments and symbols of the display are shown for a few moments, followed by the indication of the software version in use before the request to set the clock.

Follow the instructions of the standard ON/OFF models for the initial settings and the management of the MANUAL (MAN) or AUTOMATIC (AUTO) operating modes with the relative programming of the time slots.

CHANGE THE OPERATING MODE

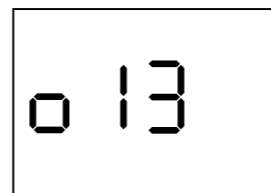
The device is factory-prepared for operation in modulating OPENTHERM mode.

This setting can be easily changed at any time if you choose to use the appliance in the traditional ON/OFF mode. In this case, after separating the front part of the thermostat from the wall base, insert the batteries in the appropriate seat as indicated in the instructions of the standard ON/OFF devices and make the correct electrical connections as shown in the INSTALLATION chapter.

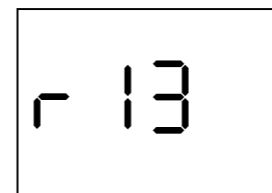
When you switch on the device, during the display phase of the software version in use, press the 'MENU' and 'LEAF' keys simultaneously and keep them pressed until the three dashes confirming the correct execution of the command are displayed. At this point the thermostat will restart with the new operating mode.

The confirmation of the actual setting is found in the encoding (first character) of the Software version in use, visible after turning on the device, as indicated below:

Software version indication for operation in OPENTHERM mode



Software version indication for operation in Standard ON/OFF mode



Perform the same procedure to return to the Software version suitable for the OPENTHERM operating mode, REMOVE the BATTERIES and make the correct electrical connections (see INSTALLATION chapter) before connecting the thermostat to the boiler.

SETTING MENU AND OPENTHERM PARAMETERS VISUALISATION

Use the 'LEAF' key to put the device in MAN mode or in OFF mode and press the 'MENU' key to enter the setting menu. The display shows the flashing SET word (at the bottom) and the parameter code (at the top right). Press the 'MENU' key to move on to the next parameters, storing any change of the set value.

- 0000 : Clock setting. Set the time with the <+/-> keys and confirm with <SET>, then set the minutes with <+/-> confirming them with the <SET> key and the day of the week with <+/-> (only for the WEEK OT version). The confirmation with the <SET> key allows to move on to the next parameter.
 - Ot01 : Choice of the operating mode. Press the <+/-> keys to switch between HEATING+DOMESTIC (factory preset value) / HEATING ONLY / DOMESTIC ONLY. The setting is signalled by the relative icon turning on.
 - Ot02 : Setting of the Domestic hot water temperature. Press the <+/-> keys to change the value displayed between 35.0 °C and 65.0 °C (factory preset 50.0 °C). Flashing icon.
 - Ot03 : Setting of Heating temperature. Press the <+/-> keys to change the value displayed between 10.0 °C and 80.0 °C (factory preset 60.0 °C). Flashing icon.
 - Ot04 : Visualisation of the current Domestic hot water temperature. Fixed ON icon.
 - Ot05 : Visualisation of the current Heating water temperature. Fixed ON icon.
 - Ot06 : Visualisation of the current system pressure (bar)
 - Ot07 : Visualisation of the percentage of the boiler current modulation (%)
- Pressing the 'MENU' key again you return to the device operating status (MAN or OFF).

INSTALLER MENU

WARNING: CHANGING THE PARAMETERS CONTAINED IN THIS MENU MAY AFFECT THE OPERATION OF THE DEVICE.

Follow the instructions of the standard versions ON/OFF to access the INSTALLER MENU and to manage all the parameters except the P04 one (selection of the ADJUSTMENT TYPE) not available for the OPENTHERM version of the device.

VISUALISATION OF THE ALARMS

During normal operation, the device performs a continuous self-diagnosis, highlighting any anomalies on the display with the words "ALO" followed by a number.

The visualisation on the display of alarm codes other than 0 indicates anomalies on the system or on the boiler and are transmitted to the device by the boiler itself. In this case, the type of anomaly found and any suggestions are to be found in the boiler instruction manual.

The device is reset when the error conditions are cleared.

The visualisation of the word "ALO" on the display indicates the momentary lack of communication with the boiler and all the functions of the device are blocked (alarm managed directly by the device only in OPENTHERM mode).

- The activation of this alarm during the first power-up phase may be due to:
- Type of boiler not compatible with the standard OPENTHERM protocol
 - Inconsistency between the expected operating mode (OPENTHERM or ON/OFF) and the selection of the correct software on the device
 - Presence of batteries with device Software set for OPENTHERM operation.
- If after checking the settings it is necessary to change the selection of the operating mode of the device (effectively resetting the alarm status), proceed as indicated in the OPERATING MODE CHANGE chapter.

TROUBLESHOOTING

Reactivation of the device after the lack of power supply:

- In use in OPENTHERM mode: lack of mains voltage/shutdown and subsequent boiler restart
- When using in ON/OFF mode: insertion/replacement of batteries

After each restart the device requires the clock to be reset in order to be able to correctly run the preset time programs. If this procedure is not correctly performed or completed within 10 minutes, the device will activate in MANUAL mode (MAN), displaying the flashing clock and the value of the ambient temperature on the display. Then, pressing any key will allow you to set the clock and return to normal operation.

Failure to turn on the display:

- When using in OPENTHERM mode, ensure that the connections made both on the thermostat (see INSTALLATION chapter) and on the boiler are properly performed and that the boiler is operating.
- When using in ON/OFF mode, check that the batteries are efficient and correctly inserted in the appropriate compartment.

In case of suspected anomalies during operation, restart the appliance:

- When using in OPENTHERM mode, remove and restore power by separating the front part of the device from the wall base for a few moments.
- When using in ON/OFF mode, remove the batteries for a few moments.