Thermostatic Remote Control Daily Timer Instructions

SIDE

FRONT

BACK

SIDE

TECHNICAL DATA

- Voltage: 2 x 1,5 V (alkaline batteries AA (LR03))
- Storage temperature: –10-70°C
- Operating temperature: 0-40°C
- Dimensions: 80 x 80 x 23 mm
- Protection degree: IP30
- Radius of action: 12 m
- Angle of emission: 40°

DTIR1 multifunctional remote controller is equipped with an IR transmitter that allows the user to control a number of TERMA-IR equipped heating elements fitted to radiators in one room at the same time.
A built-in temperature sensor enables control and regulation of ambient temperatureand it's modern construction guaranties easy installation and use.
Equipped with a 24 hr timer this controller uses an advanced regulation algorithm to control the temperature requirements to suit all of your current needs.

GENERAL INFORMATION

Optimal location for the fitting of the device:

• Recommended height on the wall ~1.5-1.8 m

• Min. 20 cm from the door and away from all drafts

• Cold walls can decrease displayed ambient temp.

• Best position is the wall opposite to the TERMA-IR heating element.

• Before final installation check the connection quality using hints from 'Signal confirmation'.

• Do not cover the device with towels, clothes etc.

To see mounting holes take off the front panel and take the batteries out.

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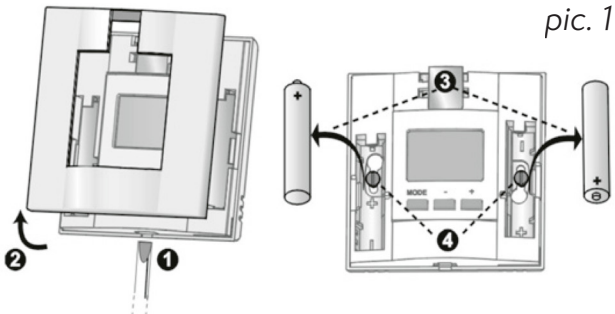
pic. 1



SIGNAL CONFIRMATION

IR transmitter emits special control signal:

• in cycles — every 10 minutes,

• when user presses any key,

• every time when modes are changed (i.e. AUTO changed to ANTIFREEZE).

Every TERMA-IR equipped heating element placed within the controller's reach and working in the remote mode will confirm every correctly received signal on its front panel (see details in the manual of your heating element).

OPERATING

DTIR1 remote controller has an LCD display and 3
keys for operation and configuration (MODE, +, -).

pic. 3

The user can define 2 levels of ambient temperature identified by easily remembered symbols:

☼ COMFORT (Higher temperatures)
☽ ECONOMY (Lower temperatures)

Each of these levels can be set with accuracy of up to 0.5°C. Both levels can be set according to your own needs and used during the day and night. They can also be changed at any time.

AVAILABLE WORKING MODES:

Manual mode: user changes manually settings of the controller.

Automatic mode (24 hr Timer) automatically switches between pre set program, changing between the settings ☼ or ☽ or : ⏲

Drying mode **ON** : heater is switched on with full power for the time set by user.

ANTIFREEZE ❄ : prevents heating agent (in radiator) from freezing when temperature falls below set point.

BASIC FUNCTION

ATTENTION: A default configuration displays ambient temperature. To change it see paragraph ADVANCED FEATURES

MANUAL MODE

This mode is for the manual setting of the temperature. You can define two temperature levels and record them in the controller's memory as COMFORT and ECO settings. To set COMFORT: press MODE and choose ☼ Then set exact temperature pressing + and -. To set ECONOMY (ECO) temperature — press MODE and choose ☽ icon. Then set exact temperature pressing + and -. A thermostat controls the output of the heating element to achieve and sustain a set temperature. To change temperature press + or -.
All changes made in COMFORT and ECO settings will be recorded in controller's memory and later will be used in AUTOMATIC MODE.

DRYING MODE
Choose **ON** symbol by pressing MODE key (other icons off). The time remaining to finish the DRYING mode is displayed on LCD. By pressing + and – set the time from 15 min. to 4 h. After having finished drying time the controller switches to automatic mode.

AUTOMATIC MODE (24 h TIMER)

Enables the heating element to switch on and off using the 24 hr timer and your preset COMFORT and ECO settings according to your programmed schedule. Automatic mode has 96 cells of memory, every single one covers time period of 15 minutes. For every 15 min you can set one of three settings ☼ or ☽ or ⏻. The COMFORT and ECO temperatures have to be set in Manual Mode before the AUTO Mode starts. Any manual change during AUTO mode (buttons +/-) lasts for 2 hours and then controller returns to its previous AUTO mode settings.

Default settings of AUTO mode shows picture 1.

TO MODIFY AUTO MODE PERMANENTLY:

1 PRESS THE KEYS MODE AND + TOGETHER FOR 5 SEC — ⏻ SYMBOL WILL START BLINKING AND 00:00 WILL APPEAR ON THE SCREEN.

2 WITH + AND — KEYS SELECT THE TIME (FORWARD AND BACK).

3 BY PRESSING MODE BUTTON CHANGE SETTINGS FOR THE TIME SHOWN ON LCD (CHOOSE BETWEEN: ☼ OR ☽ OR ⏻).

4 PROGRAMMING ALWAYS STARTS AT 0.00 AND ENDS AT 24.00 (24HR CLOCK), AFTER A PAUSE OF 15 SEC THE CONTROLLER AUTOMATICALLY REMEMBERS YOUR CHANGES.

BASIC FUNCTION CONTINUED...

ANTIFREEZE MODE

Protects the radiator from freezing — the minimum temperature setting is 5°C and the maximum temperature setting is 15°C (buttons + and -). In Antifreeze mode the heating element will stay in the OFF position until the temperature drops below the limit set. To set up ANTIFREEZE mode press MODE button until ❄ appears.

TURNING OFF

To turn off the heating element press MODE button until ⏻ symbol appears. In this state the ANTIFREEZE saver is off. To activate it you have to choose ANTIFREEZE mode (appears).

TIME SETTING

To set time:

1. Press MODE key for 5 sec. (hour-diodes will flash),

2. With + and - buttons change the hour then approve it by pressing MODE button.

3. Change the minutes (+ and -) and then press MODE to finish.

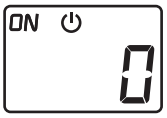
CHANGE OF DISPLAY INFORMATION

As a default setting the controller displays the current ambient/room temperature. By pressing + or - you are able to display for 5 seconds the desired set temperature. It is possible to set the controller to display the 'set temperature' or 'current time' instead of the ambient/room temperature. (User can see other information by pressing + or - button).

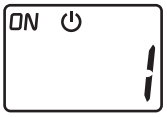
How to change the display information:

1. Press both + and - at the same time for 5 seconds — ON icon will start flashing and ⏻ icon will appear.

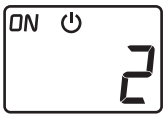
2. With + and - keys change the configuration. The changes will be set and displayed after 15 sec.



current ambient/room temperature



set ambient/room temperature



current time

ADVANCED FEATURES

CALIBRATION OF TEMPERATURE SENSOR

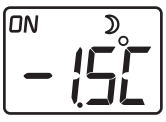
If you notice a difference between a thermometer temperature and your displayed ambient temperature then the temperature sensor has to be calibrated (regulation within +/-5°C, accuracy 0,1°C):

1. press both + and - buttons, (the ON icon will start flashing)

2. press MODE so ☽ is displayed,

3. with + and - keys set value of correction (preset value of correction is 0,0°C).

4. after 15 sec. new settings will be written.



Example: Lowering displayed temperature by 1.5°C.

CHANGE OF COMMUNICATION CHANNEL

The TERMA-IR remote controller DTIR1 works with more than two devices (TERMA-IR heating elements) in the same room — in order to do this all of the devices have to be set on the same communications channel (default setting is 0). To change/set channel of communication in DTIR1 controller:

1. Enter configuration change mode by pressing + and – key at the same time (ON icon is flashing),

2. press MODE until ❄ icon is displayed,

3. with + and - to set the proper channel (from 0 to 3), the same one must be set in every receiver.

4. wait 15 sec to overwrite new settings.

ADVANCED FEATURES CONTINUED...

CHANGE OF BATTERIES

The DTIR1 controller will identify when a battery is low by displaying the 0 icon. The device may work in this state for up to 1 month (dependant on use and until fully discharged). The LCD display works normally but its blue light is not active.

ATTENTION: DO NOT leave discharged batteries inside the device, as it can damage the device and cause in loss of warranty.

WARNING

• ⚠ 🕮 Carefully read these instructions prior to installation.

• Do not attempt to repair the unit yourself; an after-sales service is available.

CE We hereby declare that the equipment complies with the essential requirements and other relevant provisions of the Directive EMC 2014/30/UE

Electromagnetic compatibility

• Class B device as described in EN 55032

European Directive 2012/19/EC (WEEE) Disposal of old electrical & electronic equipment (applicable in the European Union and in other European countries with separate collection systems)

This symbol on the product or its packaging indicates that this product shall not be treated as household waste. Instead, it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment, such as for example:

- sales points, in case you buy a new and similar product

- local collection points (waste collection centre, local recycling center, etc...).

European Directive 2006/66/EC (for battery-operated products)
The above mentioned symbol has the following meaning: Batteries and accumulators should not be thrown away in the bin. Consumers have to bring their worn out batteries to a registered collection point, to retailer shops or to local recycling centers. The worn out batteries contain toxic materials or heavy metals which can damage the environment and the health. Batteries can be recycled, they contain precious raw materialssuch as iron, zinc, manganese or nickel.

⚠ 🕮 **IMPORTANT:** for products supplied by batteries: there is a risk of fire or explosion if the original batteries are replaced by incorrect battery types (example: Alkaline > Lithium; AA(LR6) > AAA(LR03)). Do not discard a battery in a fire or in a hot oven, do not crush and do not cut the battery as it may trigger an explosion. Do not keep the battery in a very high temperature environment or subject it to extremely low air pressure which could trigger an explosion or the release of flammable liquid or gas.

⚠ 🕮 **WARNING !** Do not ingest battery, chemical Burn Hazard. Keep new and used batteries away from children. If the battery compartment does not close