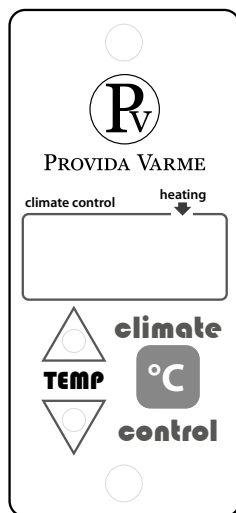


OPERATING INSTRUCTION FOR HEATER WITH THERMOCONTROLLER



Two-channel microprocessor thermal controller is designed to control the heater, providing high comfort, economy and safety. Heating is carried out by means of two temperature sensors:

- **the first** controls the room temperature, which enables to minimize electricity costs as well as to set the temperature individually for each room;
- **the other** sensor controls the surface temperature of the heater, that maximizes its security (excludes overheating under high voltage power supply, covering and tipping of the device, enables to limit the temperature for children's rooms, etc.). Besides it, the controller warns that there is no ground in the mains and if the corresponding function is turned on, stops the heater's work.

The user sets the desired temperature in the room, the controller automatically, depending on heat losses, finds by himself the required temperature of the heater, (possible as well the load on the electricity grid (100% or 50% of power).

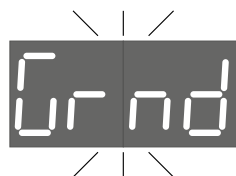
Turning on and off in the heater is carried out electronically (silently, without funks and noise). Heater works only as long as it is required to maintain the set temperature in the room, without spending any extra kilowatt of electricity and therefore does not need to disconnect even during the summer period.



Setting range of the limit temperature of the heater surface 40 ... 95 ° C (72 ° C).

REQUIREMENTS FOR EFFECTIVE HEATING AND SAFETY

- Install the heater according to the enclosed installation instructions.
- Ensure the correct location of the external air temperature sensor in the room (maximally eliminate the influence of heater's temperature, contact with the floor and walls).
- Turn on the heater in the mains with the ground and make sure it is turned on through the sign of absence of the 'Grnd' warning (see below).



⚡ The thermostat, during turning on to the grid and as well during operation can control the presence of ground and during absence, shows the warning (fig. on the left), after which, depending on given function (see below), prohibits heating, waiting for the ground to appear, or after warning permits the work without grounding.

Work without grounding



Work only with grounding

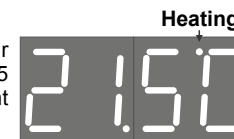


⚡ To enable the termination function of the heating during the absence of grounding, and to turn off this function, it is necessary at the time of indication 'Grnd' (see above), to press and hold both buttons, then no later than after 1.5 seconds to remove and re-insert the plug into the outlet and only after the corresponding indication (fig., on the right) appears, release the buttons.

Attention! Operation of the heater without grounding is not allowed. This function is intended only for verification purposes of the device working capacity during the absence of the outlet with the grounding.

HEATER'S OPERATION

🌡 During the heater's operation, the digital indicator displays the air temperature in the room (**thermometer** with the measurement range from -9.5 ° C to + 99.5 ° C). «**Heating**» - heating indicator (point burns - full power, point flashes - 50% power).



❶ **Setting the room temperature.** Click any button. The set value of the temperature 'C' appears and starts to flash. While the value is flashing, through the pressing of the buttons can be changed the set temperature (for auto-repeat the button should be kept). If buttons aren't pressed for more than 5 seconds, then exit from the setting mode is carried out (the value stops to flash).

Attention! Do not increase the temperature, expecting the faster warming up of premises, it will only lead to excessive consumption of electricity.



🔒 **Button lock (child proof, etc.).** Turn on the heater into electrical outlet with the '+' button pressed and do not release it until appropriate indication and sound confirmation appears. After this the device during the button press will only react with the display «**Loc**» with low sound signal.



🔒 **Unlock the buttons.** Turn on the electric heater in the socket during the pressed button '-' and do not release it until corresponding indication and sound confirmation appears.



Unlocked

Switching on of the heating →

☉ **Switching off and on of the heating.** Simultaneously press and hold both buttons (more than 2 seconds) until the corresponding indication and sound confirmation (see on the right) appears.



Attention! When the heating is off, the indicator brightness is lowered and the heater works only in thermometer mode (see on the left).



Switching off of the heating →

🌡 **Setting the brightness of the indicator light.** During off mode briefly press both buttons. Within 3 seconds (until «**LIGH**» is displayed), by pressing the '+' button the brightness can be increased and by pressing the '-' button the brightness can be lowered. In general 22 steps of brightness are provided. With one short signal of the high tone the recommended brightness is determined for indicators with green light, and with two signals for indicators with red, amber and blue glow.

Nominal brightness



Caution: when you exit the «**LIGHT**» mode, the brightness decreases, as the heating is off.

❷ **Review the surface temperature of the heater.**

Briefly press both buttons. Within 4 seconds will be displayed the surface temperature of the heater, after which the room temperature / time indication will be renewed.

Attention! If the surface temperature of the heater is displayed permanently, it means that the remote thermal sensor is not connected or damaged. At the same time, regardless of the temperature in the room, the surface of the heater will be continuously warmed up to the set value 'P' (see below).



⑨ Setting the limit temperature of the heater surface.

During heating by the room thermo sensor, the surface temperature of the heater is automatically set, depending on heat losses of the room and may be between room temperature and set upper limit. The factory has the limit of 72/95 ° C (maximum), but you can set it lower (children's room, etc.). Note that the more you limit the warming up limit of the heater, the smaller becomes area, which he can warm up.



To set the maximum temperature, press any button. It will be displayed and will start to flash the set value of the air temperature in the room 'C'. While the value is flashing at the same time, press and hold both buttons for at least 2 seconds. After the sound signal the set limit value of the surface temperature of the heater 'P' will be displayed and starts to flash. Set the new value and wait 6 seconds to exit the installation mode.

Without automatic power reduction

If you do not have enough power of the power grid (turns on the breaker box). You can turn on the automatic power reduction function of the heater (by 50%) when the set temperature is reached.



To enable or disable this feature, you need to press and hold both buttons simultaneously in the mode of setting the limit temperature of the heater surface (see p.2), then no later than than in 1,5 seconds to remove and insert the plug again in the outlet and only after the appearance of the corresponding indication (see on the right) release the buttons.

Automatic power reduction

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