

AVANSA 110-R

Electronic on-surface thermostat



1. Description

1. 230V 2. Control of heating pump 3. Control of pump II 4. Boiler temperature sensor 5. Temperature sensor II 6. ON/OFF button 7. Plus button 8. MENU button 9. Minus button



power indicator



operation indicator for the heating pump



indicator pump II operation

2. Use The AVANSA 110-R thermostat is a dual-function device – it is designed for independent control of two pumps. Principle of operation of the heating pump The function of the thermostat is to switch on the pump when the temperature exceeds the set value and to switch off the pump when the boiler cools down. This prevents excessive pump operation, which allows saving electrical energy (depending on boiler usage, the savings can be up to 60%) and extends the pump's lifespan. Principle of operation of pump II With the AVANSA 110-R thermostat, we have the option to regulate the pump's switching-on temperature and switching-off temperature. The pump will switch on after exceeding the user-set switching-on temperature (

off after exceeding the set switching-off temperature (

U).



) and will switch

3. Operation Pump switching-on temperature for heating:

- press the MENU button, the letter appears on the display - set the desired temperature using the PLUS/ MINUS buttons - press the MENU button again, the letter appears on the display - set the desired pump II on temperature using the PLUS and MINUS buttons - press the MENU button again, the letter appears on the display - set the desired pump II off temperature using the PLUS and MINUS buttons - after a few seconds, the thermostat automatically switches to operating mode and displays the current heating pump temperature - press the PLUS or MINUS button to display pump II temperature, in heating pump temperature display mode.

Freeze protection The thermostat is equipped with freeze protection function – the pump turns on when the temperature drops below 5°C. Antistop The antistop function protects the pump outside the heating season – turns the pump on for 15 seconds every 15 days Manual mode Pressing the Menu and Plus buttons simultaneously



you can check whether the pump is operating.

Pressing the buttons again turns off the pump. Hysteresis It is the difference between the regulator switching-on temperature and the temperature at which the thermostat returns to the standby mode. The AVANSA 110-R thermostat has a fixed hysteresis of 2°C.

Alarm Indicates high temperature – activates when the boiler temperature exceeds 90°C.

4. Installation The device may be installed only by a qualified person. Mount the temperature sensor on the boiler outlet using a strap and secure the thermal insulation. The sensor must not be placed in liquids. Connection to the pump:

1. terminal  - yellow-green wire
2. terminal N – blue wire 3.
terminal L – brown wire

5. Technical information Type

Supply voltage	AVANSA 110-R 230V 50Hz $\pm 10\%$
Ambient temperature	-10...+50°C
Switching current	6A
Temperature measurement range	0...90°C
Pump temperature settings	5...80°C
Pump II temperature settings	10...80°C
Maximum sensor temperature	-10...120°C