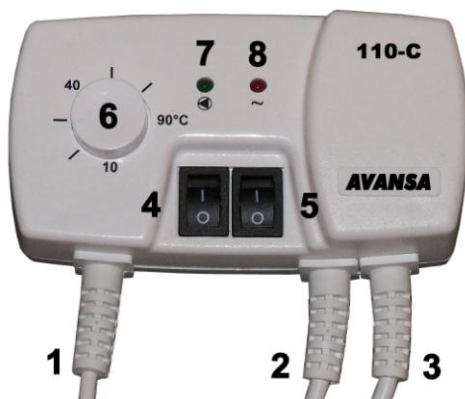


# AVANSA 110-C

## Electronic on-surface thermostat



### 1. Description

1. Temperature sensor 2. Power cable 3. Pump control 4. Manual pump operation switch 5. Power switch 6. Potentiometer 7. Pump operation indication 8. Power indication



**2. Usage** The AVANSA 110-C thermostat is designed to control the heating pump. The function of the thermostat is to turn on the pump when the temperature exceeds the set value and to turn it off if the boiler cools down (due to its shutdown). This prevents unnecessary pump operation, which allows saving electrical energy (depending on boiler usage, savings can be up to 60%) and extends the pump's lifespan. This increases reliability and reduces maintenance costs. The pump switching temperature is set using a potentiometer (in the range 10...90°C). The pump turns off if the measured temperature drops by 5°C below the set temperature. Turning on or off the pump occurs approximately after 30 seconds - this prevents pump switching during sudden temperature changes. In addition to the potentiometer, the controller also has 2 switches. The first is used to turn on/off the controller (indicated by a red LED). The second is used for manual pump activation (green LED).

### LED functions:

- green LED - the device is in automatic mode, turns on/off the pump depending on the set temperature -  
green and red LED - the device is in automatic mode, the pump is on regardless of the set temperature. The device is protected by a fuse inside the housing (on the printed circuit board).

### 3. Connection Connecting to the heating pump:

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

**Warning:** Device under voltage! Before starting work, ensure that the controller is not connected to the grid. Installation must be performed only by a qualified person.

### 4. Technical information Type

|                           |                                |
|---------------------------|--------------------------------|
| Supply voltage            | AVANSA 110-C<br>230V 50Hz ±10% |
| Temperature setting range | 10...90°C                      |
| Hysteresis                | 5°C                            |
| Energy Consumption        | <2W                            |
| Operating temperature     | -10...+50°C                    |
| Connecting cable          | 3x0,75mm                       |
| Sensor length             | 1,2 m                          |
| Dimensions                | 75 x 50 x 132 mm               |
| Protection class          | IP20                           |