

# AVANSA 110-S

## ELECTRONIC PROXIMITY THERMOSTAT



### 1. USE

The **AVANSA 110-S thermostat** is designed to control the solar collector pump and circulation pump. The collector pump works based on the temperature difference. The pump is turned on when the temperature of the collector exceeds the temperature of the reservoir with hysteresis set by the user. Turning off the pump depends on the hysteresis set when the pump is turned on. Cut-off hysteresis is always 10°C lower than on-off hysteresis; if you set the on-off hysteresis to 20°C, the shutdown hysteresis will be automatically set to 10°C. If the hysteresis is set to 10°C, the pump shall operate until the temperature of the collector and reservoir equalizes, or the set reservoir temperature is reached. The circulation pump is turned on when the tank temperature exceeds the value set by the user of the switching on temperature of the circulation pump and works until the cylinder temperature drops below the set value.

### 2. DESCRIPTION



1. 230 V
2. Circulation pump control
3. Manifold pump control
4. DHW temperature sensor
5. Collector temperature sink
6. Power button
7. PLUS button
8. MENU button
9. MINUS button

- Power indicator
- Working indicator of the circulation pump
- collector pump working indicator

#### Uninterrupted pump operation

Press and hold the buttons and – the circulation pump will start working continuously. The pump will continue to work until it is manually turned off by pressing the buttons again and .


Press and hold the buttons and – the collector pump will start working continuously. The pump will continue to work until it is manually turned off by pressing the buttons again and .

To display the reservoir temperature, press the button – after a few seconds, the collector temperature will appear on the display.

### 3. ASSEMBLY




The device should only be installed by a person with professional qualifications. Place the temperature sensor at the outlet of the boiler with a cable tie and fix the thermal insulation. The sensor should not be placed in liquids.

#### Connection to the pump:

1. clamp  - yellow-green vein
2. clamp **N** - vein blue
3. clamp **L** - vein brown

### 4. ACTION

The switching on temperature (**C**), reservoir temperature (**U**) and hysteresis (**h**) of the circulation pump can be changed as follows:

- press  the button until the letter **C**, **U** or **h**.
- set the desired temperature using  and  buttons
- After a few seconds, the thermostat itself will switch to operating mode and the current collector temperature will be displayed.

#### Hysteresis

It is used to set the temperature difference (collector and reservoir) at which the pump is turned on.

#### Thermostat function

**U** - Maximum reservoir temperature

**C** - Turning on the circulation pump

**h** - Hysteresis



**Warning!** Lightning can destroy this electrical equipment, so disconnect the thermostat from the mains during a thunderstorm.

### 5. TECHNICAL INFORMATION

Voltage	230V 50Hz $\pm 10\%$
Ambient temperature	-10...+50°C
Switching current	6 A
Temperature measuring range	0...150°C
Temperature setting range	Hot water 20...80°C
Adjustable tray hysteresis	10...30°C
Maximum sensor temperature	-10...150°C
Sensor length	Storage tank temperature sensor 3m boiler temperature sensor 2 x 0.6m

#### Information on the destruction of electrical and electronic equipment



Equipment marked with this symbol cannot be disposed of with ordinary household waste. Instead, they need to be properly reworked to protect the environment and reduce the waste of scarce resources. Your local waste authority will provide you with information on proper disposal electrical and electronic equipment.