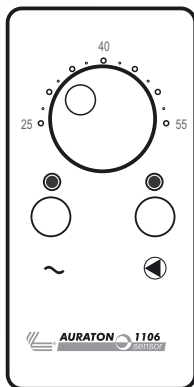


# AURATON 1106 Sensor

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## Thermostatic Controller for Circulation Pump **AURATON 1106 Sensor**

We congratulate you on buying **AURATON 1106 Sensor**, which is a modern thermostatic controller for forced central heating systems and thank you for your trust in doing so. This thermostatic controller will serve you and your family for years. It will bring you energy savings and improved thermal comfort.

**Prior to operating the thermostatic controller, read this manual carefully.**

## 1. Function

**AURATON 1106 Sensor** are electronic thermostatic controllers for central heating systems, controlling the operation of a circulation pump. The function of the thermostatic controller/pump assembly is to cause forced circulation of water in central heating systems with coal or gas-fired boilers, which are not equipped with a pump control unit. The sensor of the thermostatic controller measures the temperature of water fed to the central heating system.

In a central heating system with a coal-fired boiler the thermostatic controller will switch off the pump when the flame has gone out inside the boiler. Pumping of water with no presence of flame should be avoided, as suction caused by chimney draft will result in quicker cooling off of water inside the boiler than the water in heaters.

The optimum temperature is preset on the scale of thermostatic controller (usually at 40°C). In the central heating systems with a gas-fired boiler the temperature preset on the **AURATON 1106 Sensor** must be lower than the temperature setting on the boiler thermostatic controller. In order to avoid condensation on the surface of boiler during heating-up operation the temperature adjusted on the knob should be above the dew point.

## 2. „GUARD” system

**AURATON 1106 Sensor** is equipped with **GUARD** system, to prevent seizure of pump rotor in idle periods. Moreover, throughout the non-heating season every fortnight the integral processor of **AURATON 1106 Sensor** will automatically cycle the pump for 30 seconds. For this function, the thermostatic controller must not be switched off at the end of the heating season.

### 3. Instalation

#### 3.1. Mounting of the thermostatic controller:

- the thermostatic controller is mounted directly to wall or on a bracket with two screws (expansion plugs c/w screws are part of delivery),
- the cables extending from the thermostatic controller are fixed to the wall with cable clips.

#### 3.2. Mounting of the temperature sensor:

- the temperature sensor should be installed on a bare outlet pipe of the boiler (as close to the boiler as possible),
- for fixing the sensor to the pipe use a buckle clip,
- as a recommendation, the outlet pipe should be provided with thermal insulation on the section from the boiler through the temperature sensor.

**NOTE:**

*If a single central heating system is supplied by both a coal and a gas-fired boiler, the temperature sensor should be fixed on the meeting point of the two outlet pipes and insulated.*

#### 3.3. Connection of power supply cable:

- terminal ( $\perp$ ) is used for connecting of yellow or yellow and green core (earth or neutral conductor),
- terminal (**N**) is used for connecting of blue core,
- terminal (**L**) is used for connecting of brown core.

#### 3.4. Check-up of connections:

- make sure the connections has been made as indicated and tighten the cover of the pump motor terminal box.

#### 3.5. Connection of thermostatic controller:

- upon securing the cables against accidental pullout, connect the power supply to a 230V/50Hz grounding socket!

*NOTE: AURATON 1106 Sensor should be installed in a place with ambient temperature not exceeding 40°C.*

### 4. Operation


#### 4.1. Toggle switch ( ~ ) of switching on:

- press the switch button ( ~ ),
- red LED turns on.

#### 4.2. Automatic operation mode:

- the pump is turned on and off depending on the temperature set on the knob of thermostatic controller,
- the pump is turned on when the temperature measured by the sensor is higher than the preset temperature and it is turned off when the temperature has dropped below the setting,
- green light is off or blinks when pump is turned on.

#### 4.3. Continuous operation mode:

- when controller is on, press (  ) button – green LED lights continuously – the pump is running continuously irrespective of the temperature setting of the thermostatic controller and the actual temperature at the location of the temperature sensor.

### 5. Operating Parameters

Temperature range	25 – 55°C
Span <small>(difference between the turn on and turn off temperatures)</small>	5°C
Supply voltage	230V AC
Max. current	6A