

Application II - Thermostat

Feature: Switch must be able to turn the heating on and off depending on the temperature measure in the thermostat control.

Description: Software for a thermostat control that controls a switch to turn the heating on and off, considering that:

- If the measured temperature is equal or higher than 23 °C (twenty-three celsius degrees), the heater must be switched off;
- If the measured temperature drops to less than 5 °C (five celsius degrees), the heater must be switched on.

Scenario 1: The thermostat control measure a temperature of 23 °C (twenty-three celsius degrees)

Given the temperature is equal or higher than 23 °C (twenty-three celsius degrees), the heater must be switched off

When the thermostat control measure a 23 °C (twenty-three celsius degrees) temperature

Then the heater is turned off

And the temperature continues to be measured

Scenario 2: The thermostat control measure a temperature of 4 °C (four celsius degrees)

Given the temperature is less than 5 °C (five celsius degrees), the heater must be switched on

When the thermostat control measure a 4 °C (four celsius degrees) temperature

Then the heater is turned on

And the temperature continues to be measured