

PROJECT NAME - THERMOSTAT

Test Case ID: 002

Test Priority (Low/Medium/High): High

Module Name: Switch to turn the heater on or off.

Description: Analyze and validate the operation of the switch by turning the heater off and on.

Test Designed by: Sarah Pinheiro

Test Designed date: 17/09/2020

Test Executed by: Anderson Fernandes

Test Execution date: 21/03/2020

Story: Your team is developing software for a thermostat controller that controls a switch to turn the heating on and off.

Functionality 1: Switch the heater on or off according to the temperature.

Scenario: Turn off the heater if the temperature is equal to or greater than 23° C.

Given: The thermostat marks the temperature every 10 minutes
And the temperature result is equal to or greater than 23° C.

When: Switch active, sending function to the heater to turn off.

Then: The heater must turn off by returning the OFF message to the control screen.

Functionality 2: Switch the heater on or off according to the temperature.

Scenario: Turn off the heater if the temperature is 24° C.

Given: The thermostat marks the temperature every 10 minutes
And the temperature result is 24° C.

When: Switch active, sending function to the heater to turn off.

Then: The heater must turn off by returning the OFF message to the control screen.

Functionality 3: Switch the heater on or off according to the temperature.

Scenario: Turn on the heater if the temperature is below 23° C.

Given: The thermostat marks the temperature every 10 minutes
And the temperature result is 22° C.

When: Switch active, sending function to the heater to turn on.

Then: The heater must turn on by returning the ON message to the control screen.

Functionality 4: Switch the heater on or off according to the temperature.

Scenario: Turn on the heater if the temperature is below 5° C.

Given: The thermostat marks the temperature every 10 minutes
And the temperature result is 4° C.

When: Switch active, sending function to the heater to turn on.

Then: The heater must turn on by returning the ON message to the control screen.

Functionality 5: Switch the heater on or off according to the temperature.

Scenario: Turn on the heater if the temperature is 5° C.

Given: The thermostat marks the temperature every 10 minutes
And the temperature result is 5° C.

When: Switch active, sending function to the heater to turn off.

Then: The heater must turn off by returning the OFF message to the control screen.