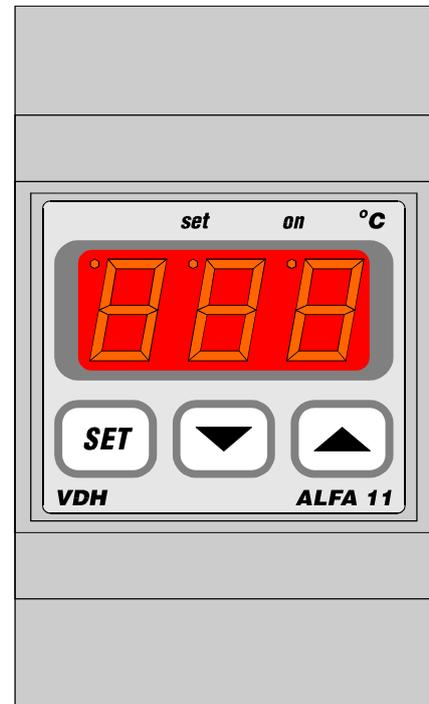


User manual

ALFA 11 +50/+150°C

Cool/Heat Thermostat.



VDH doc: 072375

Version: v1.0

Date: 16-10-2007

Software: ALFA 11 +50..+150

File: DO072375.WPD

Range: +50/+150°C per 1°C

* Function.

The **ALFA 11** is a digital thermostat for panel mounting. The function from the thermostat can be programmed for cooling or heating.

* Installation.

On the topside of the **ALFA 11** is shown how the sensor, power supply and relay have to be connected.

After connecting the **ALFA 11** to the power supply, a self-test function is started. As this test is finished the measured temperature appears in the display.

When the relay is activated, the led 'on' will light-up in the display.

* Control.

The **ALFA 11** thermostat can be controlled by three push buttons on the front.

These keys are:

SET - view / change the set point.

UP - increase the set point.

DOWN - decrease the set point.

* Viewing set point.

By pushing the **SET** key the set point appears in the display. The led 'set' starts blinking. A few seconds after releasing the **SET** key the set point disappears and the measured temperature is shown in the display.



* **Changing set point.**

Push the **SET** key and the set point appears in the display. Release the at **SET** key. Now push the **SET** key again and together with the **UP** or **DOWN** keys the set point can be changed. A few seconds after releasing the keys the measured temperature shows again in the display.

* **Setting internal parameters.**

Next to the adjustment of the set point, some internal settings are possible like differential, sensor-offset, set point range and the function cooling or heating.

By pushing the **DOWN** key more than 10 seconds, you enter the 'internal programming menu'. In the left display the upper and lower segment are blinking. Over the **UP** and **DOWN** keys the required parameter can be selected (see table for the parameters).

If the required parameter is selected, the value can be read-out by pushing the **SET** key. Pushing the **UP** or **DOWN** keys together with the **SET** key allows you to change the value of this parameter.

If after 20 seconds no key is pushed, the **ALFA 11** changes to it's normal operation mode.

* **Adjustment sensor.**

The sensor can be adjusted by using the Sensor Offset (parameter 04). Indicates the **ALFA 11** e.g. 2°C too much, the Sensor Offset has to be decreased with 2°C.

* **Error messages.**

In the display of the **ALFA 11** the following error messages can appear:

- Er** - Sensor broken. Solution:
 - Check if the sensor is connected correctly.
 - Check the sensor (1000Ω at 25°C).
 - Replace the sensor.
- EE** - Settings are lost. Solution:
 - Reprogram the settings.



* **Technical details.**

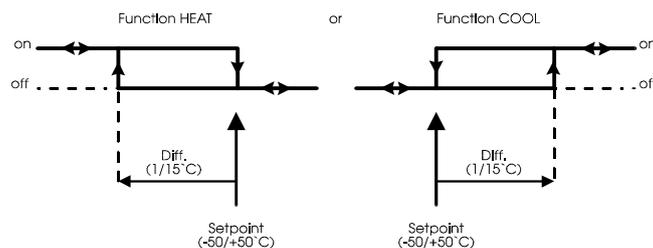
Model : ALFA 11 Cool/Heat Thermostat
 Range : +50/+150°C, readout per 1°C
 Supply : 230 Vac 50/60Hz
 Relay : SPDT 250V/16A(C-NO), 8A(C-NC) (cos phi=1)
 Control : by push buttons on the front.
 Front : Polycarbonate
 Sensor : SM 811/2m (1000Ω at 25°C)
 Sizes : 90 x 53 x 58mm (hwd)
 Panel hole : 46 x 53mm (hw)

- Provided with memory protection during power failure.
- Connection with screw terminals on the back side.
- Equipped with self test function and sensor failure detection.
- Special version on request available.

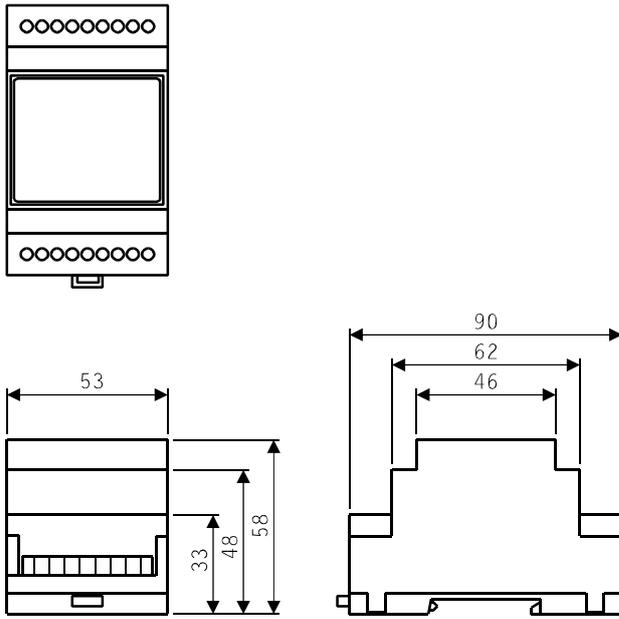
* **Parameters ALFA 11.**

PARAMETER	DESCRIPTION PARAMETER	RANGE	STANDARD VALUE
01	Switching differential	1..15°C	3
02	Minimum setpoint	+50..+150°C	+50
03	Maximum setpoint	+50..+150°C	+150
04	Offset temperature sensor	-15..+15°C	0
10	Startup delay after power failure	0..99 min.	0
11	Relays on at sensor failure	0 = No 1 = Yes	0
15	Function cooling or heating	0 = Cool 1 = Heat	0
16	Switch on delay relays 1)	0..99	0
17	Switch off delay relays 1)	0..99	0
18	Parameter 16/17 in sec. or min.	0 = sec. 1 = min.	0
19	Minimum on-time relays	0..99 min.	0
20	Minimum off-time relays	0..99 min.	0
90	Network number	1..250	1
95	Software version	0..255	-
96	Production year	00..99	-
97	Production week	1..52	-
98	Serial number (x1000)	0..255	-
99	Serial number (units)	0..999	-

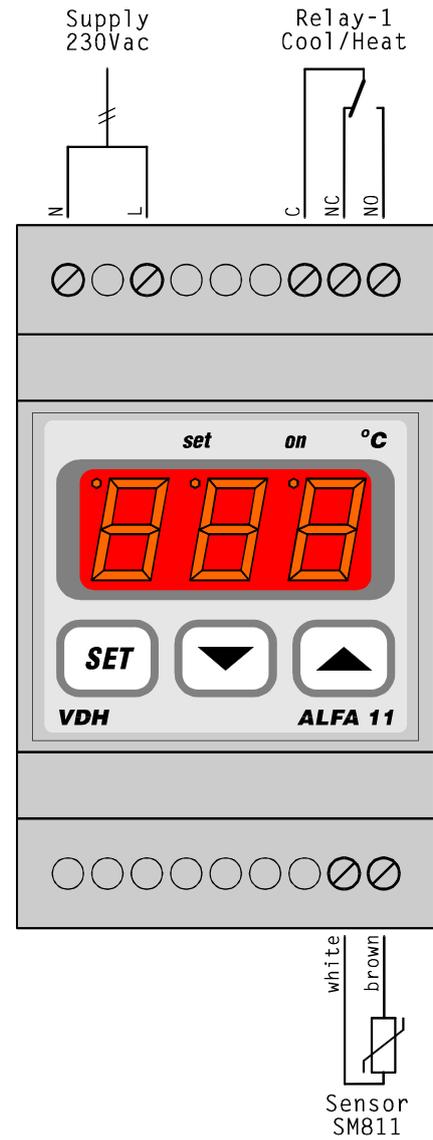
* **Function diagram.**



* **Dimensions.**



* **Connections.**



* **Address.**

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