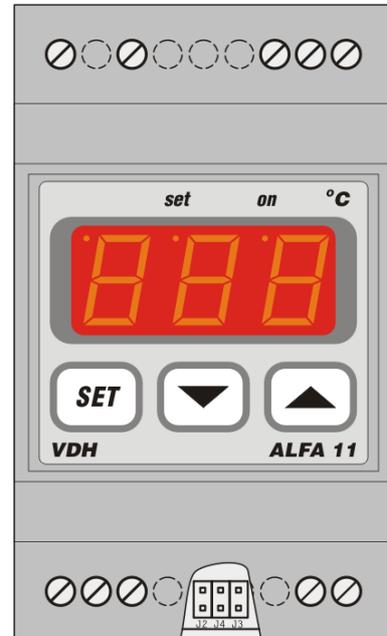


User manual ALFA 11 and ALFANET 11 0/+99°C(1)

Cool / Heat
Thermostat.



VDH doc: 071464

Version: v2.0

Date: 22-11-2007

Software: 053273_ALFA 11/21/31_0-100°C File: Do071464.wpd

Range: 0/+99°C per 1°C

* Function.

The **ALFA(NET) 11** is a digital thermostat for rail mounting. The function from the thermostat can be programmed for cooling or heating. The temperature readout is in hole degrees Celsius.

The **ALFANET 11** has a RS 485 network connection so it can be read out and adjusted on the Alfanel.

* Installation.

On the connection diagram of the **ALFA(NET) 11** is shown how the sensor, power supply and relay have to be connected.

After connecting the **ALFA(NET) 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(NET) 11** thermostat can be controlled by three push buttons on the front.

These keys are:

SET - view / change the setpoint.

UP - increase the setpoint.

DOWN - decrease the setpoint.

* Viewing setpoint.

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



* **Changing setpoint.**

Push the **SET** key and the setpoint appears in the display. Release the at **SET** key. Now push the **SET** key again and together with the **UP** or **DOWN** keys the setpoint 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 setpoint, some internal settings are possible like differential, sensor-offset, setpoint 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(NET) 11** changes to it's normal operation mode.

* **Parameters ALFA(NET) 11.**

Para-Meter	Description Parameter	Range	Standard Value
01	Switching differential	1..30°C	3
02	Minimum setpoint	0..+99°C	0
03	Maximum setpoint	0..+99°C	+99
04	Offset temperature sensor	-15..+15°C	0
10	Startup delay after power failure	0..99 Minutes	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 seconds or minutes	0 = Seconds 1 = Minutes	0
19	Minimum on-time relays	0..99 Minutes	0
20	Minimum off-time relays	0..99 Minutes	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	-

1) At active delay LED 'on' flashes



* **Adjustment sensor.**

The sensor can be adjusted by using the Sensor Offset (parameter 04). Indicates the **ALFA(NET) 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(NET) 11** the following error messages can appear:

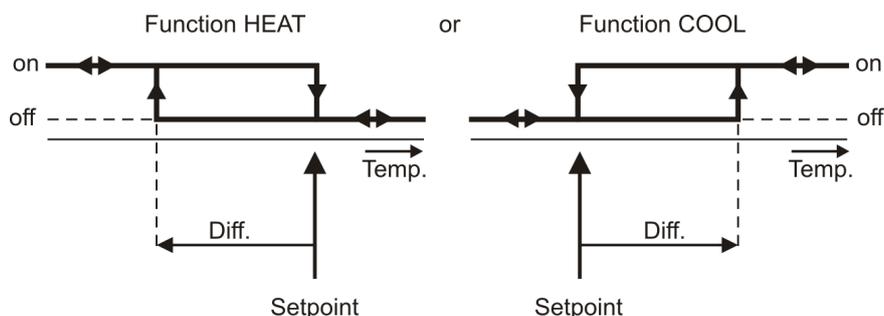
- Er** - Sensor broken. Solution:
 - Check if the sensor is connected correctly.
 - Check the sensor (1000Ω at 25°C).
 - Replace the sensor.
- EE** - Settings are lost. Solution:
 - Reprogram the settings.

* **Technical details.**

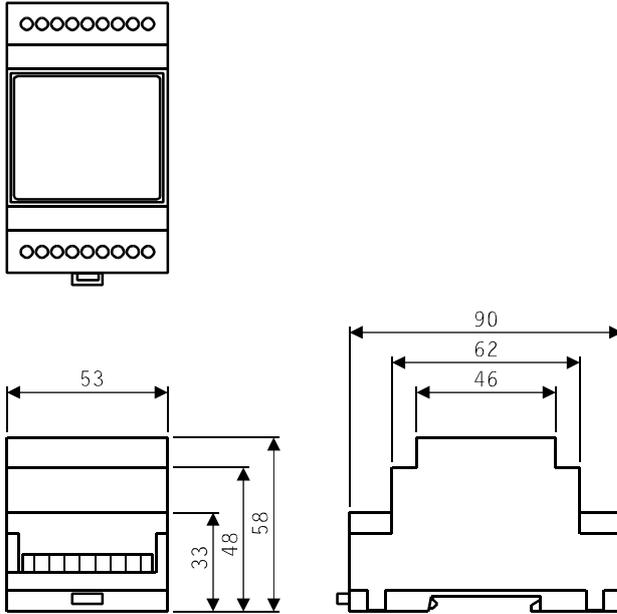
Model	: ALFA 11 Cool/Heat Thermostat ALFANET 11 Cool/Heat Thermostat with Network
Range	: 0/+99°C, readout per 1°C
Supply	: 230 Vac / 1,2VA 50/60Hz (or else see product sticker)
Relay	: SPDT 250V/16A(C-NO), 8A(C-NC) (cos phi=1)
Control	: by push buttons on the front.
Communication	: RS485-Network (2x twisted-pair shielded, min. 0,5mm ²)
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.

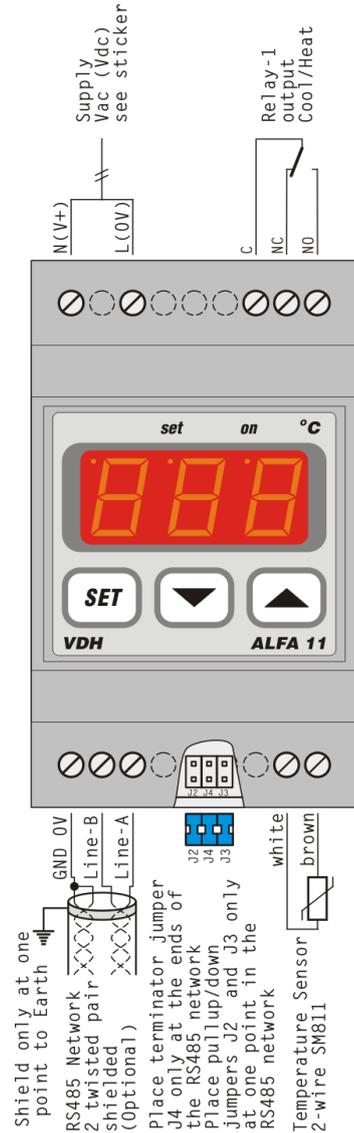
* **Function diagram.**



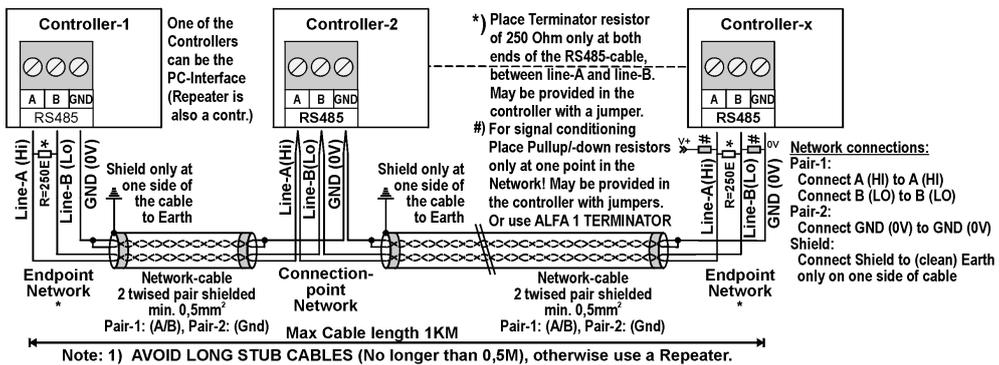
*** Dimensions.**



*** Connections.**



RS 485 NETWORK CONNECTIONS 2-twisted pair shielded cable:



*** Address.**

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 Produktieweg 1
 9301 ZS Roden
 The Netherlands

Tel: +31 (0)50 30 28 900
 Fax: +31 (0)50 30 28 980
 Email: info@vdhproducts.nl
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