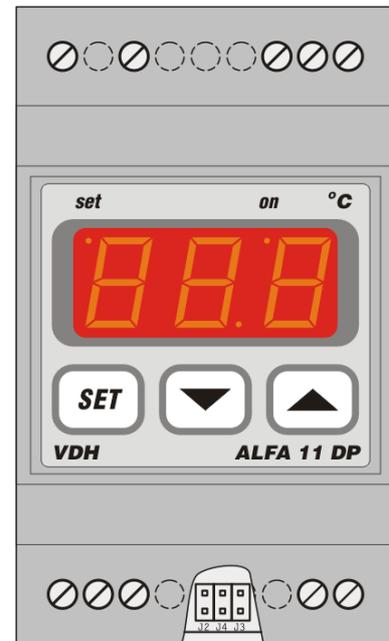


User manual ALFA 11DP and ALFANET 11DP

Cool/Heat Thermostat.



VDH doc: 130159

Version: v1.0

Date: 19-02-2013

Software: 072488_ALFA 11/21/31DP

File: Do130159.wpd

Range: -10/+90°C per 0,1°C

* Function.

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

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

* Installation.

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

After connecting the **ALFA(NET) 11DP** 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) 11DP** 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.

* **Adjustment sensor.**

The sensor can be adjusted by using the Sensor Offset (parameter 04). Indicates the **ALFA(NET) 11DP** 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) 11DP** 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 DP Cool/Heat Thermostat ALFANET 11 DP Cool/Heat Thermostat with Network
Range	: -10/+90°C, readout per 0,1°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.



* **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.

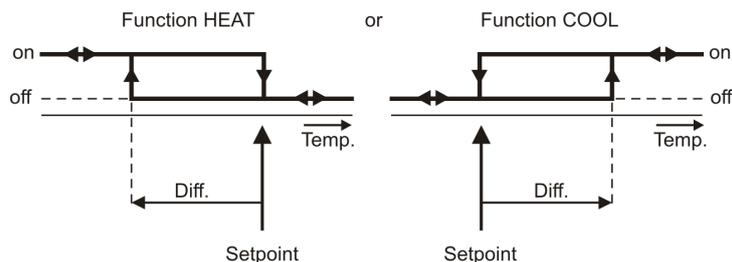
If after 20 seconds no key is pushed, the **ALFA(NET) 11DP** changes to it's normal operation mode.

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

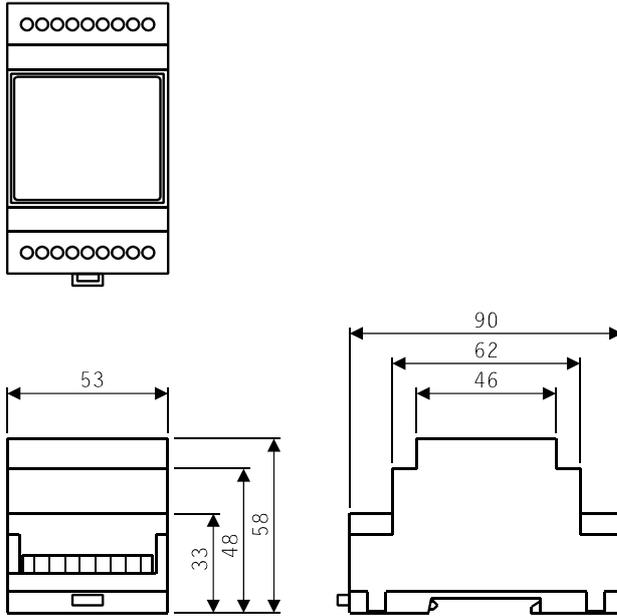
PARAMETER	DESCRIPTION PARAMETER	RANGE	STANDARD VALUE
01	Switching differential	0,1..10°C	3,0
02	Minimum setpoint	-10,0..+90,0°C	-10,0
03	Maximum setpoint	-10,0..+90,0°C	+90,0
04	Offset temperature sensor	-10,0..+10,0°C	0,0
10	Startup delay after power failure	0..99 Minutes	0
11	Relays on at sensor failure	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' is blinking

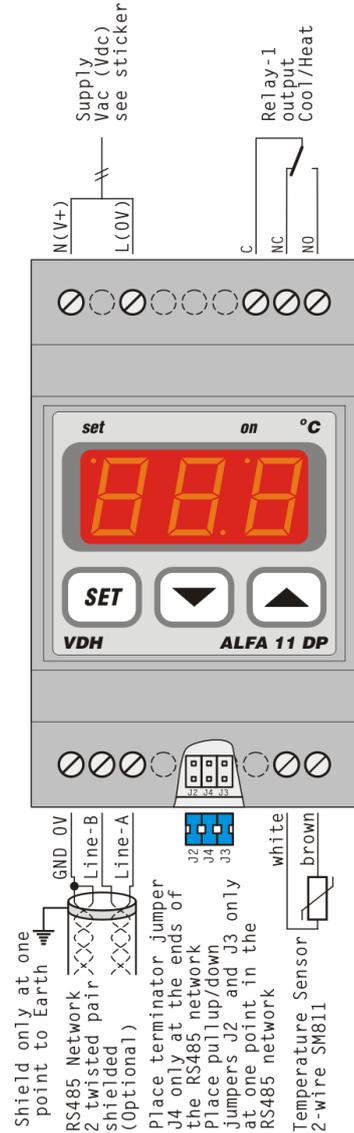
* **Function diagram.**



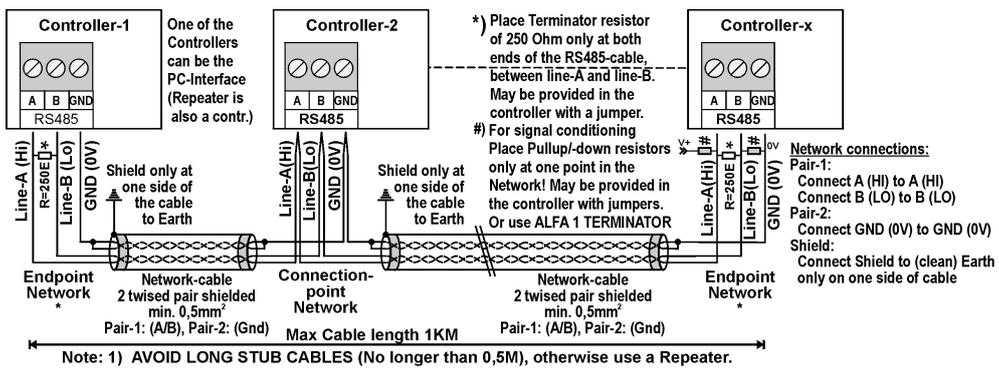
* **Dimensions.**



* **Connections.**



RS 485 NETWORK CONNECTIONS 2-twisted pair shielded cable:



* **Address.**

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 Produktieweg 1
 9301 ZS Roden
 The Netherlands

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