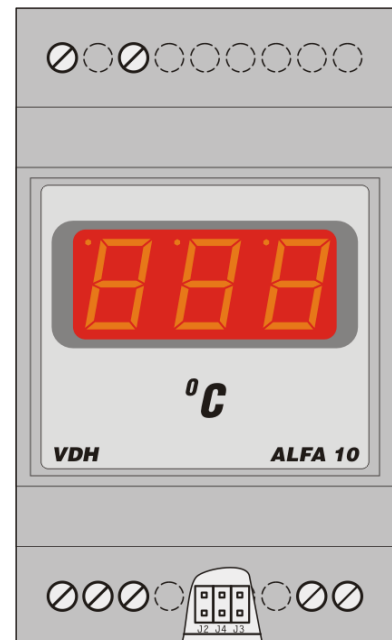


# User manual ALFA 10 and ALFANET 10

Thermometer.



VDH doc: 000525

Version: v2.3

Date: 05-11-2007

Software: .....\_ALFA 10/20/30

File: Do000525.wpd

Range: see product sticker

\* **Function.**

The **ALFA(NET) 10** is a digital thermometer for rail mounting. De temperature is readout in hole degrees. The **ALFANET 10** has a RS 485 network connection so it can be read out the Alfanet.

\* **Installation.**

On the connection diagram is shown how the sensor and power supply have to be connected. After connecting the **ALFA(NET) 10** to the power supply, a self-test function is started. As this test is finished, the measured temperature appears in the display.

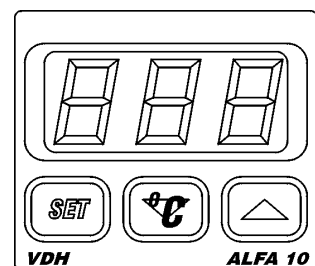
\* **Control.**

The **ALFA 10** thermometer has for normal use no need for controls. Only for adjustment of the sensor the **ALFA 10** has three hidden pushbuttons on the front.

- SET** - view / change the setpoint.
- UP** - increase the setpoint.
- DOWN** - decrease the setpoint.

These pushbuttons are placed at the following places at the front:

- SET** - Left below the display, above 'VDH'.
- UP** - Middle below the display, on '°C'.
- DOWN** - Right below the display, above 'ALFA 10'.



\* **Setting internal parameters.**

To enter the internal parameter menu, use the following instructions;

By pushing the **DOWN** key more than 10 seconds, you enter the 'internal programming menu'. In the left display the upper and lower segments are blinking. Over the **UP** and **DOWN** keys the required parameter can be selected (see table for the parameters). In this case only '04' offset temperature sensor.

If the required parameter is selected, the value can be read-out by pushing the **SET** key. Pushing the **UP** and **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) 10** changes to its normal operation mode.

\* **Parameters ALFA(NET) 10.**

PARA-METER	DESCRIPTION PARAMETER	RANGE	STANDARD VALUE
04	Offset temperature sensor	-15..+15°C	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	-

\* **Adjustment sensor.**

The sensor can be adjusted by using the Sensor Offset (parameter 04). Indicates the **ALFA(NET) 10** 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) 10** 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 10 Thermometer  
ALFANET 10 Thermometer with network  
Range : -50/+50°C, readout per 1°C (Standard)  
Or else see product sticker  
Supply : 230 Vac / 1,2VA 50/60Hz (or else see product sticker)  
Control : by push buttons on the front.  
Front : Polycarbonate  
Sensor : SM 811/2m (1000 Ohm at 25°C)  
Communication : RS485-Network (2x twisted pair shielded)  
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.

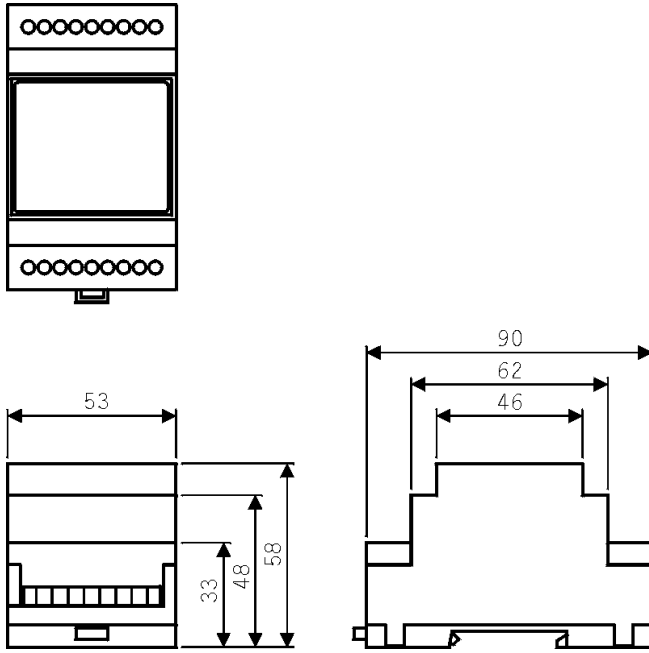
\* **Address.**

VDH Products BV  
Produktieweg 1  
9301 ZS Roden  
The Netherlands

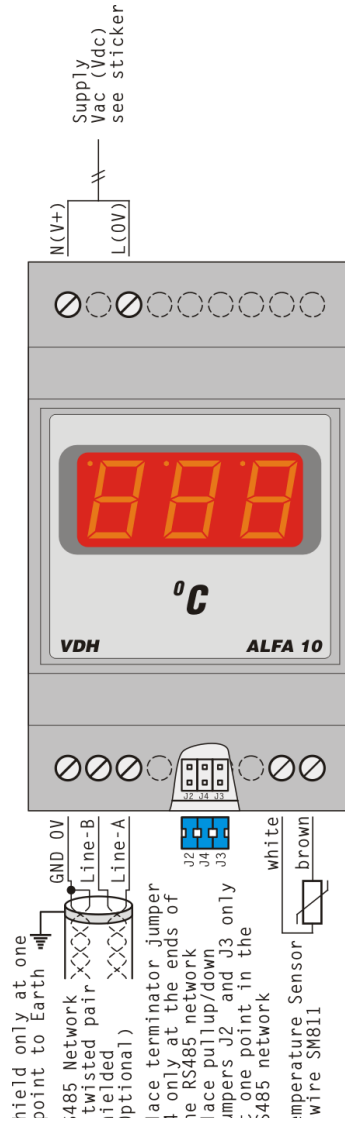
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**\* Dimensions.**



**\* Connections.**



**RS 485 NETWORK CONNECTIONS 2-twisted pair shielded cable:**

