

VDH doc: 070697	Versie: v1.1	Datum: 03-10-2008	
Software:ALFA 10/20/30	File: Do070697.wp8	Range: See Sticker	

#### \* Function.

User Manual ALFA 20 and ALFANET 20

Thermometer

The **ALFA(NET) 20** is a digital thermostat for panel mounting. The **ALFA<u>NET</u> 20** has a RS 485 network connection so it can be read out and adjusted on the Alfanet.

### \* Installation.

On the topside of the **ALFA(NET) 20** is shown how the sensor, power supply and network have to be connected.

After connecting the **ALFA(NET) 20** 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.

# \* <u>Control.</u>

The **ALFA(NET) 20** Thermostat can be controlled by three hidden push buttons on the front.

These keys are:

**SET** - view / change the setpoint.

**DOWN** - decrease the setpoint.

**UP** - increase 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 sensor-offset and network number.

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) 20** changes to it's normal operation mode.

Para- meter	Description Parameter		Range	Standard Value
04	Offset temperature sensor		-15+15°C	0
90 95 96 97 98 99	Network number Software version Production year Production week Serial number (x1000) Serial number (units)	(Only ALFANET)	1250 0255 0099 152 0255 0999	1 - - - -

## \* Parameters ALFA(NET) 20.



#### \* Adjustment sensor.

The sensor can be adjusted by using the Sensor Offset (parameter 04). Indicates the **ALFA(NET) 20** e.g. 2°C too much, the Sensor Offset has to de decreased with 2°C.

#### \* Error messages.

In the display of the ALFA(NET) 20 the following error messages can appear:

- Er Sensor broken. Solution:
  - Check if the sensor is connected correctly.
  - Check the sensor (1000 $\Omega$  at 25°C).
  - Replace the sensor.
- **EE** Settings are lost. <u>Solution</u>:
  - Reprogram the settings.

#### \* Technical details.

Model	: ALFA 20 Thermometer ALFANET 20 Thermometer with Network
Range Supply	: -50/+50°C, readout per 1°C (or else see Sticker) : 230Vac / 2,5VA 50/60Hz (or else see Sticker)
Control	: by hidden push buttons on the front.
Communication	: RS485-Network (2x twisted pair shielded, min. 0,5mm <sup>2</sup> )
Front	: Polycarbonate
Sensor	: SM 811/2m (1000Ω at 25°C)
Dimensions	: 144 x 72 x 50mm (hbd)
Panel hole	: 139 x 67mm (hb) cutout in front

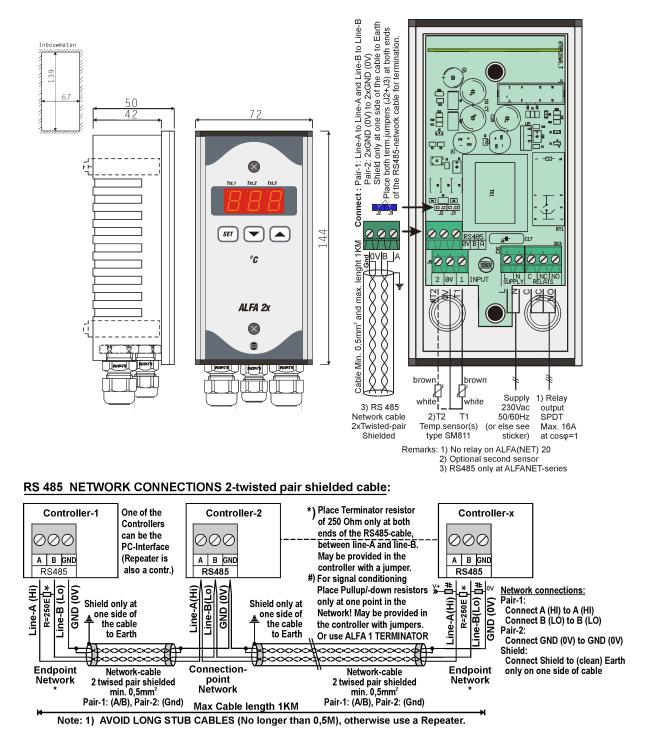
- Provided with memory protection during power failure.

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



#### \* Dimensions.

#### \* Connections.



#### \* Adresse.

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