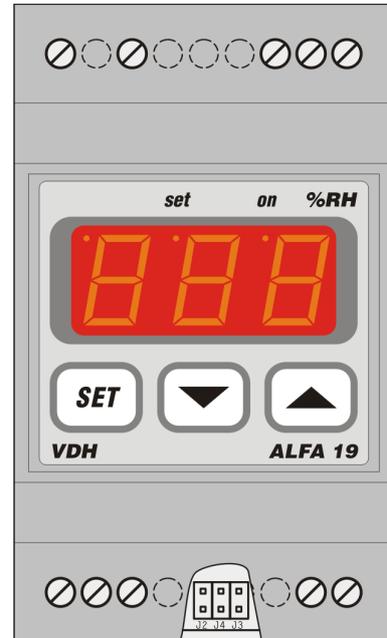


User manual ALFA 19 and ALFANET 19

Hygrostat.



VDH doc: 071729

Version: v1.1

Date: 06-12-2007

Software: 061196_ALFA 19/29/39

File: Do071729.wpd

Range: 0/100%RH per 1%RH

* Function.

The **ALFA(NET) 19** is a digital hygrostat for rail mounting. The function from the hygrostat can be programmed for humidify or dehumidify.

The **ALFANET 19** 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) 19** is shown how the sensor, power supply and relay have to be connected.

After connecting the **ALFA(NET) 19** to the power supply, a self-test function is started. As this test is finished the measured humidity appears in the display.

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

* Control.

The **ALFA(NET) 19** hygrostat 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 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 set point disappears and the measured humidity is shown in the display.

* Changing setpoint.

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 humidity shows again in the display.



* **Adjustment sensor.**

The sensor can be adjusted by using the Sensor Offset (parameter 04). Indicates the **ALFA(NET) 19** e.g. 2% too much, the Sensor Offset has to be decreased with 2%.

* **Error messages.**

In the display of the **ALFA(NET) 19** the following error messages can appear:

EE- Settings are lost. Solution:

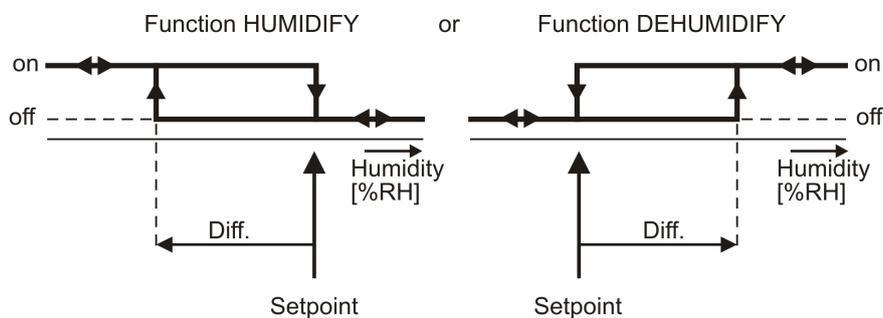
- Reprogram the settings.

* **Technical details.**

Model	: ALFA(NET) 19 Humidify/dehumidify Hygrostat
Range	: 0/+100%RH, readout per 1%RH
Supply	: 230 Vac 50/60Hz
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. 0,75mm ²)
Front	: Polycarbonate
Sensor	: 0-1Vdc (0-100%RH) from RH95-2, LC95-2 or RH970
	Be aware! Humidity sensors should be external supplied with 12Vdc
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.
- Special version on request available.

* **Function diagram.**



* **Setting internal parameters.**

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

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

* **Parameters ALFA(NET) 19.**

PARA-METER	DESCRIPTION PARAMETER	RANGE	STANDARD VALUE
01	Switching differential	1..15 %RH	3
02	Minimum set point	0..100 %RH	0
03	Maximum set point	0..100 %RH	100
04	Offset humidity sensor	-15..+15 %RH	0
10	Startup delay after power failure	0..99 Minutes	0
15	Function hygrostat	0 = Dehumidify 1 = Humidify	0
16	Switch on delay relay	1) 0..99	0
17	Switch off delay relay	1) 0..99	0
18	Parameter 16/17 in sec. or min.	0 = Seconds 1 = Minutes	0
19	Minimum on-time relay	0..99 Minutes	0
20	Minimum off-time relay	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) If delay is active, the led will flash			

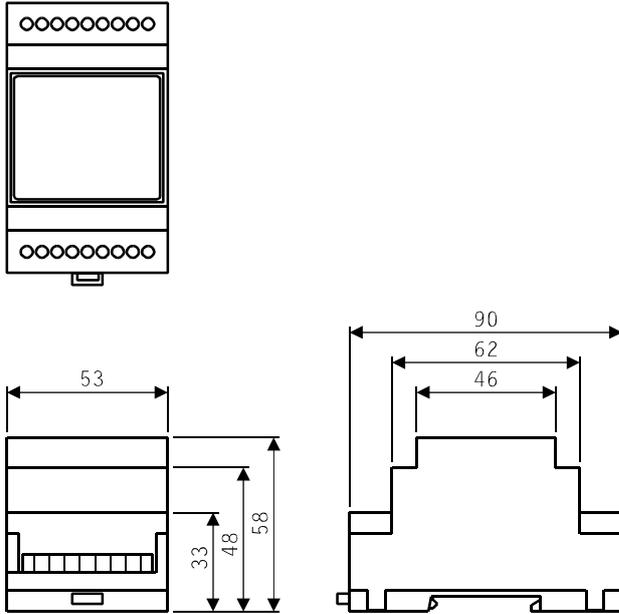
* **Address.**

VDH Products BV
Produktieweg 1
9301 ZS Roden
The Netherlands

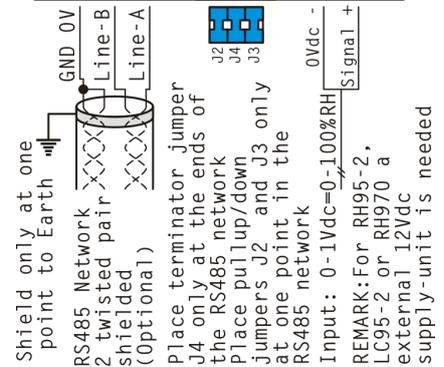
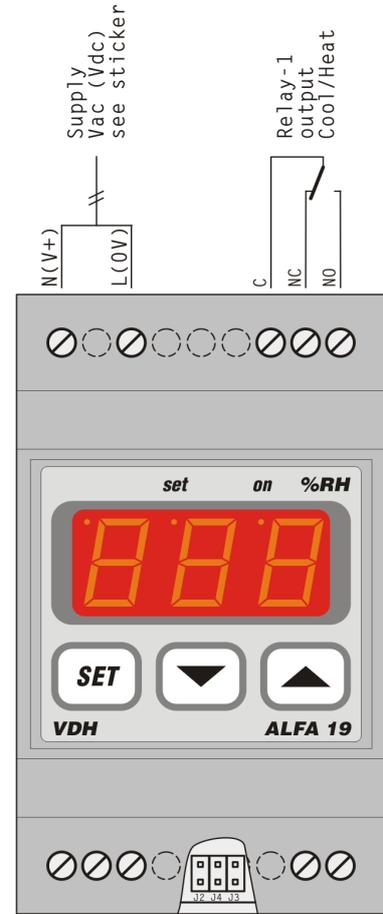
Tel: +31 (0)50 30 28 900
Fax: +31 (0)50 30 28 980
Email: info@vdhproducts.nl
Internet: www.vdhproducts.nl



* Dimensions.



* Connections.



RS 485 NETWORK CONNECTIONS 2-twisted pair shielded cable:

