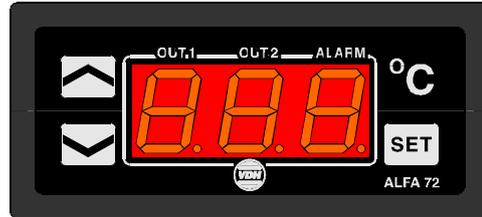


User manual

ALFA 72-SP/DR

-50/+150°C
Spraying/Drying
Thermostat.



VDH doc. 080652

Version: v2.0

Date: 24-02-2009

Software: ALFA 72-SP/DR -50..150

File: Do080652.wpd

Range: -50/+150°C

* Installation.

On the upper side from the **ALFA 72-SP/DR** is shown how the sensor, supply and relays should be connected. After power up a self test is started. If the self test is completed the measured temperature will be shown on the display.

Thermostat-1 with function spraying is made by the sensor, set point-1 (spraying) and relay-1. Thermostat-2 with function drying is made by the sensor, set point-2 (drying) and relay-2. Relay-3 is an alarm relay.

* Control.

The **ALFA 72-SP/DR** thermostat can be controlled by four push buttons on the front:

- SET** - viewing / changing the adjusted value and reset alarm.
- UP** - raise the adjusted value.
- DOWN** - lower the adjusted value.
- °C** - hidden key above the **SET** key.

* Viewing the set points.

Viewing set point thermostat-1 (spraying):

By pushing the **SET** key simultaneously with the **UP** key, the adjusted set point from thermostat-1 (spraying) can be read out.

Viewing set point thermostat-2 (drying):

By pushing the **SET** key simultaneously with the **DOWN** key, the adjusted set point from thermostat-2 (drying) can be read out.

A few seconds after releasing the **SET** key, the set point disappears and the measured value will be visible again.

* Changing the set points.

Push the **SET** key and the **UP** or **DOWN** key so the set point from thermostat 1 or 2 appears on the display. Release the **SET** key. By pushing the **SET** key again, the set point can be changed with the **UP** or **DOWN** keys. A few seconds after releasing the keys, the set point disappears and the measured value will be visible again.

* Status from the Relais.

Push the hidden **°C** key. The three digits are indicating the status from the relays, hereby 0=off and 1=on. The code 110 means that relay 1 and relay 2 are on and relay 3 is off.

Where OUT.1 is relay spraying, OUT.2 is relay drying and ALARM is relay alarm.



* **Adjusting the interne parameters.**

Besides the adjusting of the set point there are a few internal adjustments possible.

By pushing the **DOWN** key for more than 10 seconds the 'interne programming menu' will be entered.

The upper and lower segment from the most left digit starts flashing. Now the required parameter can be selected with the **UP** and **DOWN** keys (see the table for the parameters).

When the required parameter has been selected, it can be read out by pushing the **SET** key. It can be changed with the **UP** en **DOWN** keys.

If no key is pushed for 20 seconds, the **ALFA 72 SP/DR** will return to it's normal operating mode.

* **Adjusting the sensor.**

The sensor can be adjusted with the sensor offset parameter 05.

Indicates the **ALFA 72-SP/DR** f.i. 2°C to much, than the sensor offset should be lowered with 2°C.

* **Error codes.**

On the display of the **ALFANET 75** the following error messages can appear:

LO - Minimum alarm

Solution E1:

HI - Maximum alarm

- Check if sensor is connected correctly.

E1 - Ssensor failure

- Check sensor (1000Ω/25°C).

EEE - Settings are lost.

Solution EEE:

- Reprogram the settings.

-L- - In case of sensor short-circuit the display alternates between error-code **E..** and **-L-**, as indication for a short-circuit sensor.

-H- - In case of open-circuit sensor the display alternates between error-code **E..** and **-H-**, as indication for a open circuit sensor.

Reset Alarm. When a error-messages appears it can be reset by pushing the **SET** key. The function of this key depends on parameter P42.

* **Technical details ALFA 72-SP/DR.**

Type : ALFA 72-SP/DR Spraying/Drying Thermostat

Range : -50/+150°C, read out per 1°C

Supply : 12Vac / 3VA, 50/60Hz, -5/+10% (or else see product sticker)

Read out : 3-digit 7-segments display

Relays : Ry1 spraying = SPST(NO)250V/8A (cos φ=1) of 250V/5A (cos φ=0.4)
Ry2 drying = SPST(NO)250V/8A (cos φ=1) of 250V/5A (cos φ=0.4)
Ry3 alarm = SPDT(NO/NC)250V/8A (cos φ=1) of 250V/5A (cos φ=0.4)
Relays have one common (C).

Control : Through push buttons on the front.

Front : Polycarbonate IP65

Sensor : SM 811/2m (PTC 1000Ω/25°C).

Dimensions : 35 x 77 x 71,5mm (hwd)

Panel cut out : 28 x 70mm (hw)

Accuracy : ± 0,5% from the range.

- Provided with memory protection during power failure.
- Equipped with self-test function and sensor-failure detection.
- Connection with screw-terminals.
- Special version on request available.

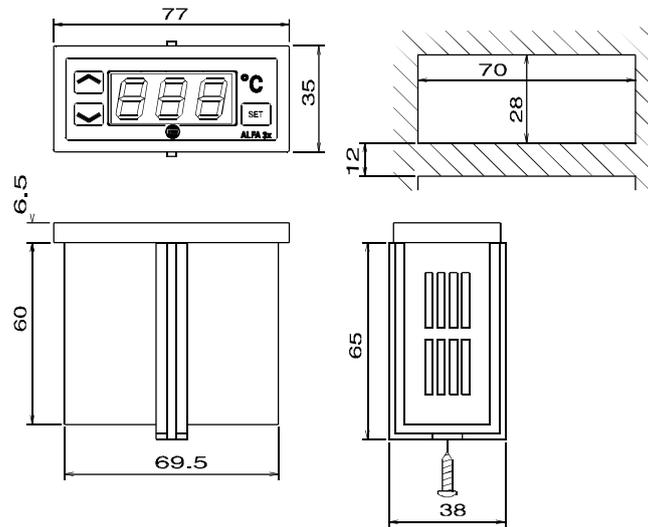


* **Parameters ALFA 72-SP/DR**

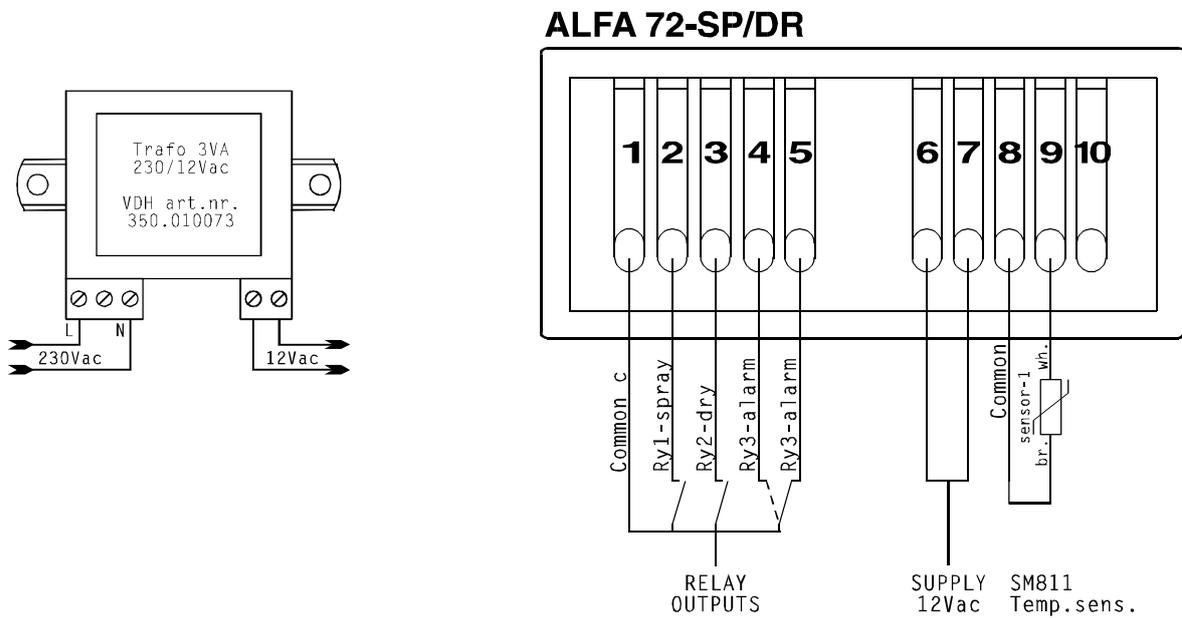
Para-Meter	description Parameter	Range	Default value
05	Offset temperature sensor	-15.0..+15.0°C	0.0
10	Switching differential relay 1 (spraying)	0.1..15.0	0.5
11	Offset relay 1 (spraying)	-15..+15	0.0
12	Switching differential relay 2 (drying)	0.1..15.0	0.5
13	Offset relay 2 (drying)	-15..+15	0.0
25	Minimum adjustable set point	-50..+150°C	-50
26	Maximum adjustable set point	-50..+150°C	+150
30	Type Alarm thermostat	0= No alarm 1= Absolute	1
31	Minimum alarm set point	-50..+150°C	-50
32	Maximum alarm set point	-50..+150°C	+150
33	Time delay minimum alarm	0..99 Minutes	0
34	Time delay maximum alarm	0..99 Minutes	0
40	Function alarm relay	0= Fail safe alarm 1= Control alarm	0
41	Reset alarm relay after recovering alarm	0= No, 1= Yes	0
42	Reset alarm relay after manual reset	0= No, 1= Yes	0
45	Control delay after power failure	0..99 Minutes	0
46	Relay-1 on when sensor failure	0= No, 1= Yes	0
47	Relay-2 on when sensor failure	0= No, 1= Yes	0
95	Software version	-	-
96	Production year	-	-
97	Production week	-	-
98	Serial number (x1000)	-	-
99	Serial number (units)	-	-



* **Dimensions.**



* **Connections.**



* **Address.**

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