



## Instruction manual

**Sm-Klebertechnik Vertriebs GmbH**  
Otto-Hahn-Str. 19a, 52525 Heinsberg  
Tel.: +49 2452 / 9172-0; Fax.: +49 2452 / 9172-20  
[www.sm-klebertechnik.de](http://www.sm-klebertechnik.de)

Temperature  
regulator

Page 1 of 9

# Instruction manual

## 10-channel temperature regulator



### Contents:

1. Operating and display elements
2. Functional description
3. Setting the command temperature
4. Setting the reduction of temperature
5. Setting the time of day and the day of the week
6. Setting the weekly program



## Instruction manual

**Sm-Klebetchnik Vertriebs GmbH**  
Otto-Hahn-Str. 19a, 52525 Heinsberg  
Tel.: +49 2452 / 9172-0; Fax.: +49 2452 / 9172-20  
[www.sm-klebetchnik.de](http://www.sm-klebetchnik.de)

Temperature  
regulator

Page 2 of 9

### 1.0 Operating and display elements

A combination of multi-channel temperature regulators and a valve control based on a microprocessor are used in your applicator.

Operating is carried out on the foil on the front panel. The right-hand keypad is used for the entering of numbers and for storing the values that have been entered while the key beneath the displays are used for selecting the functions.

**Figure: Display and operating panel**



#### Display elements

#### Meaning

##### channel

Brief designation of the heating circuit:

t1 = Melt tank  
t2 = Filter ( starting Type : 25-Litre-units )  
H1....H4 = Hose 1 .... Hose 4  
G1 G2 = Head 1 .... Head 4

##### process

Actual temperature of the heating circuit in °C.

##### set point

Command temperature of the heating circuit in °C.



Clock / Time



## Instruction manual

**Sm-Klebetchnik Vertriebs GmbH**  
Otto-Hahn-Str. 19a, 52525 Heinsberg  
Tel.: +49 2452 / 9172-0; Fax.: +49 2452 / 9172-20  
[www.sm-klebetchnik.de](http://www.sm-klebetchnik.de)

Temperature  
regulator

Page 3 of 9



**LED - Display** Temperature lowering active

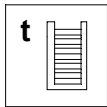


**ok LED - Display** Temperature in command range, device operational.



**alarm LED - Display** Alarm, heating circuits at heating up or switched off, pump disabled

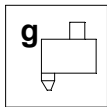
### 1.1 Operating elements:



Selection of tank – or filter heating circuit.



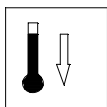
Selection of hose 1 .... hose 4 heating circuit.



Selection of gun/head 1 .... gun/head 4 heating circuit.



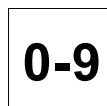
Activating and setting of weekly clock / time.



Activating and setting of temperature lowering.



Activation of the automatical measuring point changeover switch / display test.



Keys for entering digits



Input request.



Confirmation of entry / further switching



## Instruction manual

Temperature  
regulator

**Sm-Klebetchnik Vertriebs GmbH**  
Otto-Hahn-Str. 19a, 52525 Heinsberg  
Tel.: +49 2452 / 9172-0; Fax.: +49 2452 / 9172-20  
[www.sm-klebetchnik.de](http://www.sm-klebetchnik.de)

Page 4 of 9

### 2.0 Functional description

The temperature regulator is equipped for the supplying of up to 10 heating circuits.

In order to prevent pressure peaks building up, the individual heating circuits are heated up to the command temperature in the sequence:

#### Tank – Hose – Heads

The drive for the pump is not enabled until all the heating circuits installed has reached their command temperature whereby a variance of  $- 10^{\circ}\text{C}$  is tolerated.

If the temperature of one of the heating circuits differs more than  $\pm 10^{\circ}\text{C}$  from the command value, a temperature monitoring circuit becomes active which switches off the pump and displays the heating circuit in question on the display panel.

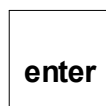
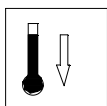
This monitoring also becomes active if one of the sensors is short-circuited ( Display: „S.cc“) or if the circuit of one of the sensors is interrupted( display: „S.in“).



**Note: Therefor the command values of any heating circuits that are not connected should be set to  $0^{\circ}\text{C}$ .**

In addition a digital weekly switch clock is fitted. This permits the machine to be switched on and off automatically at pre-set times on each day of the week.

Pressing the



key, causes the temperature of all the heating circuits to be reduced by a presetable amount during interruptions in work ( tea brakes aso.)

Pressing the



key, causes the regulator to display the temperature of the individual heating circuits one after the other.

If the key is pressed again, a display test is carried out.



## Instruction manual

Sm-Klebertechnik Vertriebs GmbH  
Otto-Hahn-Str. 19a, 52525 Heinsberg  
Tel.: +49 2452 / 9172-0; Fax.: +49 2452 / 9172-20  
[www.sm-klebertechnik.de](http://www.sm-klebertechnik.de)

Temperature  
regulator

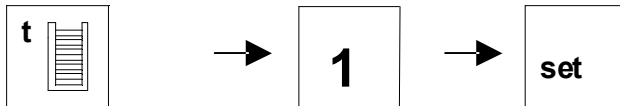
Page 5 of 9

### 3.0 Setting the command temperatures

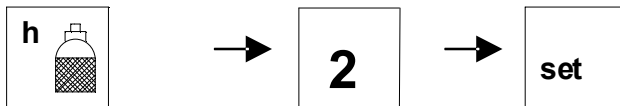
The following steps must be carried out to set the command temperatures:

#### 3.1 Selection of the desired zone

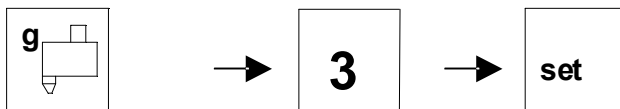
f.e. Tank:



f.e. Hose No. 2



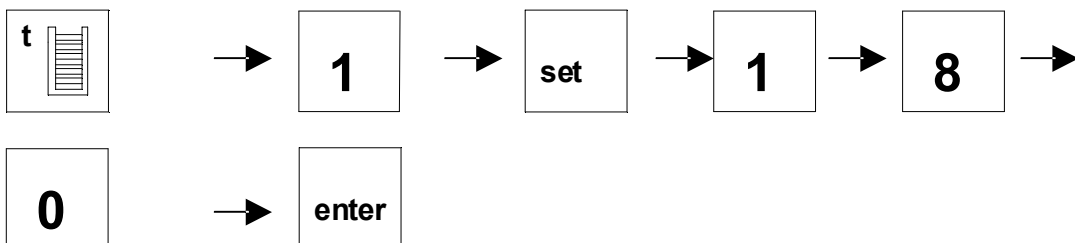
f.e. Hose No. 3



The setting of the desired command temperature happens with the digits

1-9

f.e. Setting the tank temperature to 180°C



**Important: All not used heating circuits must be set to the command temperature of 0°C, otherwise you would get no temperature release!**



## Instruction manual

**Sm-Klebetchnik Vertriebs GmbH**  
Otto-Hahn-Str. 19a, 52525 Heinsberg  
Tel.: +49 2452 / 9172-0; Fax.: +49 2452 / 9172-20  
[www.sm-klebetchnik.de](http://www.sm-klebetchnik.de)

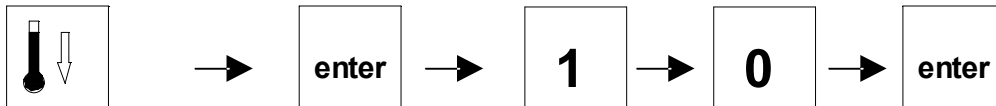
Temperature  
regulator

Page 6 of 9

### 4.0 Setting the Temperature lowering

#### 4.1 Switch-on of the Temperature lowering

By longer time of exposure it is better to program a Temperature lowering.

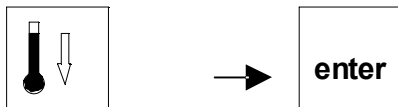


After actuating this combination the green diode is shining.



#### 4.2 Switching off the temperature lowering

For switching off the temperature lowering you have to actuate once more this combination.



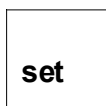
### 5.0 Setting of time and day

For the right use of the temperature regulator it must be adjusted to the actual time and day.

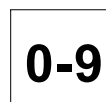
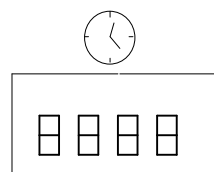
After pushing two times the button



and followed pushing of the button



the display shines



After this you can adjust the time with the button .



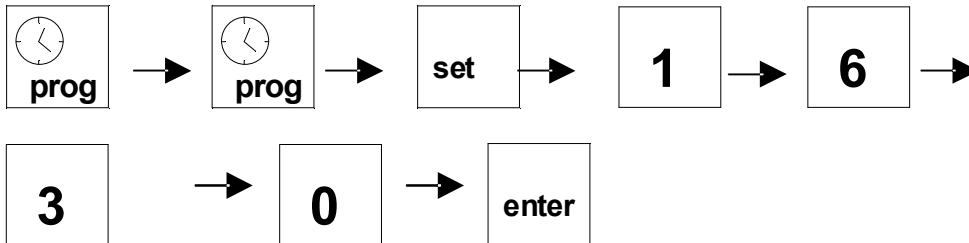
## Instruction manual

**Sm-Klebetchnik Vertriebs GmbH**  
Otto-Hahn-Str. 19a, 52525 Heinsberg  
Tel.: +49 2452 / 9172-0; Fax.: +49 2452 / 9172-20  
[www.sm-klebetchnik.de](http://www.sm-klebetchnik.de)

Temperature  
regulator

Page 7 of 9

f.e. Monday, 16:30

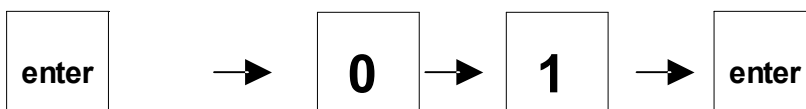


After confirmation with the button „ENTER „, the time is stored and flipped over to the display of the weekday.

meaning:      **Monday**      = 01  
                  **Tuesday**     = 02 a.s.o

**0-9**

The weekday can be actuated with the digits and stored with the button „ ENTER „.



Now the actual time and day is stored!

### 6.0 Adjusting the weekly program

The regulator contains a weektime switch clock, which is able to switch on and off the unit at all different days and times.

After pushing the button



„ no „ appears on the display



## Instruction manual

**Sm-Klebetchnik Vertriebs GmbH**  
Otto-Hahn-Str. 19a, 52525 Heinsberg  
Tel.: +49 2452 / 9172-0; Fax.: +49 2452 / 9172-20  
[www.sm-klebetchnik.de](http://www.sm-klebetchnik.de)

Temperature  
regulator

Page 8 of 9

After operating of a random digit-button the regulator switches between function

„ **yes** „ - Timer function **On** and „ **no** „ – Timer function **Off**.

### 6.1 Switch-on time

After operating the button „ **set** „

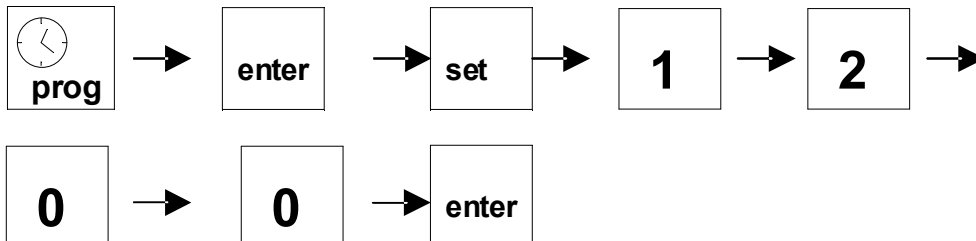
**set**

you can adjust with the digits „ 0 – 9 „ the Switch-On time for Monday

This adjustment is to confirm with the button „ **enter** „

**enter**

f.e. Monday, 12:00 ON





## Instruction manual

**Sm-Klebertechnik Vertriebs GmbH**  
Otto-Hahn-Str. 19a, 52525 Heinsberg  
Tel.: +49 2452 / 9172-0; Fax.: +49 2452 / 9172-20  
[www.sm-klebertechnik.de](http://www.sm-klebertechnik.de)

Temperature  
regulator

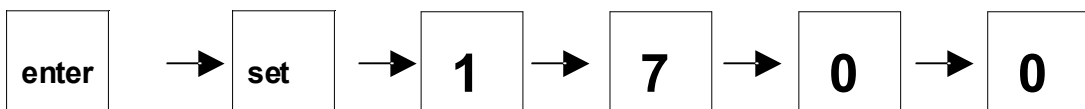
Page 9 of 9

### 6.2 Switch-off time

After reoperating the button „ **ENTER** „, the switch-off time for monday „ 1 off „ is displayed and can be adjusted by pushing the button „ **SET** „

set

f.e.: Monday, 17:00 Uhr OFF



This adjustment must be confirmed with the button „ **enter** „

enter

After reoperating the button „ **ENTER** „, the regulator flipped over to the Switch-on time of Tuesday „ **2 on** „, or further weekdays ( f.e. Friday „ 5 on „ ).

This Method must be proceed until all Switch-ON and –OFF times are adjusted for the whole day.

If the unit should not work on a weekday like saturday or sunday, you have to adjust these times to „0“.



**Note:** If there is a celebration day during a week, the switch-on and –off times must be adjusted to „0“ for this day. For the following week the times must be once more adjusted like required.