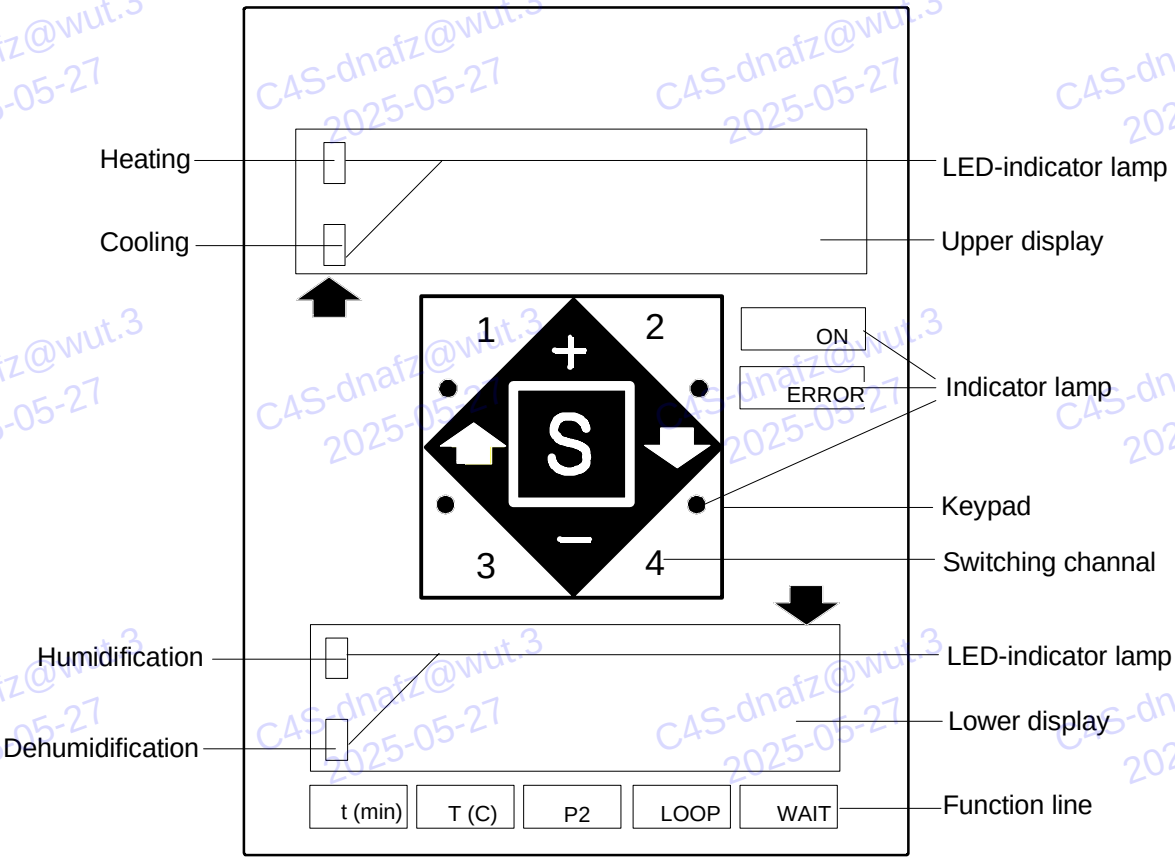

Description of keys and display

+ −
- increase or decrease input values
- switch between analog channel 0 and 1
- select programs

■
- select setpoint for analog channel 0 = temperature
- return to other menu levels
- select min./ max. temperature limits

■
- select setpoint for analog channel 1 = humidity
- select programs
- create programs with EDIT

S
- start system
- stop system
- store programs

1 2 3 4
- Digital switching channels

In the upper display appear:

- actual value analog channel 0
- actual/setpoint value analog channel 0 in fixed-value and automatic mode
- test program number
- setpoint value when analog channels 0 and 1 are entered

In the lower display appear:

- system status OFF
- actual / setpoint value analog channel 1 in fixed-value / automatic mode
- test program line (L _ _ _ _)
- cursor position in relation to function line
- Clear (ErASE)

The function line comprises:

t (min)	Input of time when creating programs with EDIT
T (°C)	Input of setpoint for analog channel 0 = temperature
P 2	Input of setpoint for analog channel 1 = humidity
LOOP	Loop input when creating programs with EDIT
WAIT	Input for wait function (fixed setting of tolerance band ±1 K)

Putting into operation

1. Main switch ON

Initialization of the controller takes place. OFF appears in the lower display. The system is ready for operation

2. Operating modes:

Note: A key symbol signifies that the respective key must be pressed.

2.1 Manual fixed-value operation
(For details see chapter 3.3.1)

Entering temperature values

Select analog channel 0 = temperature with ■. Cursor lights up over T (°C). Enter desired temperature value with +/−

NOTE

If no key is pressed within 10 seconds, the display returns to OFF.

Press ■ again to select the analog channel. Activate the digital switching channels (if assigned) with 1 2 3 4. The green LED lights up.

Entering temperature limits

The value to be entered must be 5 K above/below the temperature setpoint value.

Continue with ■,
LL = min. temperature limit appears in the upper display.

Set minimum temperature limit with +/−.

Continue with ■,
LH = max. temperature limit appears in the upper display.

Set maximum temperature limit with +/−.

Entering humidity value on climatic test systems

Press ■ until analog channel 1 = humidity appears. Cursor over P 2 lights up. Set desired humidity value with keys +/−.

Starting the system

Press S = Start.

The display alternates between the actual value and the setpoint value (F = fixed value).

Switching off the system

Press S = stop.

2.2 Automatic operation

(For details see chaper 3.3.2)

Programs can be created with EDIT. Existing programs can be called up and activated as follows:

Key	Description / Effect
■	until P_ _ _ _ appears in the upper display
+/−	select number P_ _ _ _ of the desired program
S	start program System starts, after termination of the program it stops. In the lower display appears OFF, the system is ready for further programs.

2.3 Creating programs

(For details see chapter 3.4)

Enter temperature limits as described under 2.1

Key	Description / Effect
■	until E_ _ _ _ appears in the upper display. Look for free program number with +/−. A free program location is indicated by an empty lower display.
■	Line L _ _ _ 0 appears, you can now create the first program line, e.g. for the first temperature value. Activate digital switching channels with 1 2 3 4.
■	Cursor at t (min). Set time with +/−
■	Cursor at T (°C). Select CH (channel) with +/−. 0 = temperature, 1 = humidity
■	Cursor at T (°C). Set temperature value for channel 0 with +/−.
■	Cursor at LOOP. Set number of loops with +/−.
■	Cursor at WAIT. Set wait function with +/−. 0 = OFF, 1 = ON
■	Line L_ _ _ 1 appears. You can now create the second program line, e.g. for the first humidity value. The values of the previously processed program line are automatically displayed and must only be changed.
■	Cursor at t (min). Set time with +/−
■	Cursor at T (°C). Select CH (channel) with +/−, 1 = humidity
■	Cursor at P 2. Set humidity value for channel 1 with +/−
When the last program line has been entered store the program by pressing S	
■	Return to program number P_ _ _ _
S	start system. After approx. 5 sec. the following values are displayed alternatingly: in the upper display: program number, temperature setpoint, actual temperature value in the lower display : actual line, humidity setpoint, actual humidity value

2.4 Clear programs

Key	Description / Effect
■	until E _ _ _ _ appears in the upper display Select program to be cleared with +/− (e.g. E_ _ _3)
■	line number L _ _ _0 appears
−	Cursor at t (min), ajdust time to -21 with −. ErASE and the programm number to be cleared appear alternatingly in the lower display. Continue with −. The program is cleared on reaching -51.