

**Range of application:**

The unit is a **combined temperature and humidity regulator**.

For **chamber-, cooking-, smoking-, maturing-, air conditioning- and cooling installations**.

**Function:**

The unit can work as a **heating or cooling regulator** with selectable **humidification or dehumidification**, in which the desired relay function you can set. Relays K1 and K2 you can use for heating, cooling, humidification or dehumidification. The regulation for **heating, humidification or dehumidification** you can set as **2-point regulator, XP-regulator or interval operation**.

The humidity sensor can work selectable as **ohmic or psychrometric humidity sensor**.

All relay settings and nominal value limits for temperature you can set through special codes.

**Two temperature measuring inputs Pt100.**



Graphic with optional WP-frame

**Range of settings:**

range of setting for nominal temperature: -20°C up to 150°C

the lower temperature ceiling can be chosen from -20°C up to 50°C

the upper temperature ceiling can be chosen from 0°C up to 150°C

measurement range: -30°C up to 350°C

range of setting for humidification and dehumidification: 0 up to 99%

**Technical data**

**Mechanical data**

Casing: DIN 4370

reinforced fibre-glass Noryl,  
shock-resistant, black colour,  
temperature-resistant up to 110°C  
(low-flammability)

front frame 96 x 96 mm  
with WP-frame 138 x 138 mm  
mounting dims. 90 x 90 mm  
mounting depth 60 mm  
with terminals 80 mm  
own weight: 600 g

**Inputs/outputs**

Inputs: 2 Pt100, two-wire circuit,  
can be digitally aligned

Outputs: 2 relay outputs,  
Switching capacity 250V AC/5A  
Potential free contacts, of which  
1 change-over contact for heating or cooling  
or humidification or dehumidification  
1 closer for heating or cooling or  
humidification or dehumidification

**Options:**

- waterproof frame (WP), protection IP 67  
on front side

**Electrical data**

Operating voltage (standard): 230V 50/60Hz +/-10%

Special design: 24/42/48/110/127/240 V

Own consumption: ca. 6 VA

Safeguards on front side: with rubber seal IP 65

**optional:** with WP-frame IP 67

Connections: connection terminals up to 1,5 mm<sup>2</sup> (detachable)

Permissible ambient temperature: -10/+70°C

**Displays**

digital (7-segment display, red)

Height of numbers: 14 mm

3-digit for temperature, resolution 1 degree

Switching status display: light-emitting diodes (LED)

**Circuit diagram:**

