

Product info sheet Room Hygro Thermostat DUO 1060

scale range for humidity 30 ... 100 % rh
 scale range for temperature 10 ... 60 ° C

Technical Data

Humidity

scale range 30...100%rh
 range of operation 35...95%rh
 measuring element Polyga®, water resistant
 measuring accuracy +/-3.0%rh
 switch changeover contact
 switching difference (microswitch)
 referring to 50%rh approx. 4%rh
 breaking capacity 250 V
 humidify 3 (0.2)A
 dehumidify 5 (0.2)A

breaking capacity, *min* 100mA, 20 DC /AC
 medium temp. coefficient -0.2%/K ref. to 20 °C and 50%rh
 allowable air speed 15m/sec

Temperature

scale range +10 ... +60 ° C
 measuring element thermobimetal
 switch changeover contact
 switching difference approx. 1K
 breaking capacity 250 V
 heating 10 (4)A
 cooling 5 (2)A
 breaking capacity, *min*
 heating and cooling 1 (1)A

General Data

operating voltage 24 or 250 VAC
 50 /60 Hz

Please observe the notes on voltage !

mounting wall mounting, preferably with
 ventilation slots at right angles to direction of airflow
 fixing slots in housing base
 contacting connecting terminals in the housing
 housing impact-resistant plastic, light grey
 protective system IP30
 weight 0.121 kg

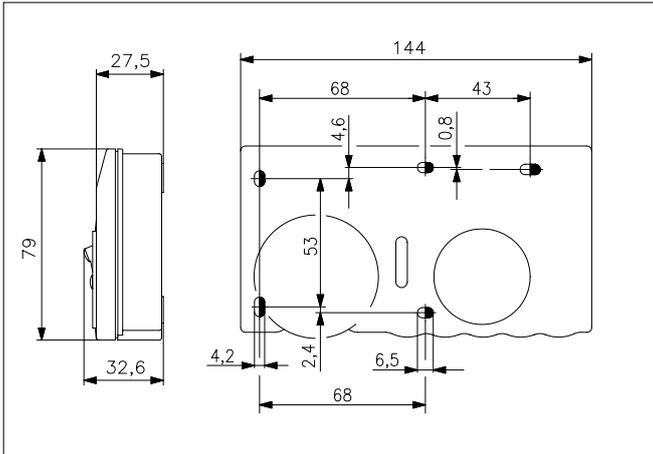
Description

The hygro-thermostat type **DUO 1060** is used as an on-off controller to control the relative air humidity and the temperature. Typical areas of use are climatic cabinets, the control of air humidifiers and dehumidifiers in office facilities and computer rooms, storage of foodstuffs and luxury foods, cooling rooms for fruit and vegetables, green-houses for gardening use, the textile industry, the paper and printing industry, the film industry, hospitals and many more. The hygro-thermostat **DUO 1060** can be used almost anywhere that air humidity has to be regulated or monitored.

Notes on voltage

The measurement location of the humidity controller should be selected such that there is no build-up of condensate on or in the device. This applies particularly for operation with a voltage higher than 48V. If the voltage is higher, there is a risk of voltage arcing in the event of water condensation on the microswitch or connecting terminals which might destroy the controller. In the case of voltage below 48V, the humidity controller can be used up to 100%RH.

Dimensions diagram



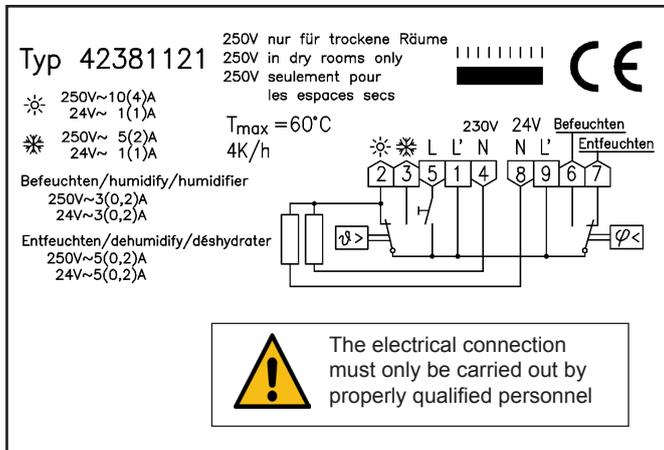
Maintenance

The measuring element is maintenance-free in pure ambient air. Aggressive media containing solvent can cause measuring errors and failure, depending on the type and concentration. Deposits which eventually form a water-repellent film over the sensor are harmful. Such substances are resin aerosols, lacquer aerosols, smoke deposits etc.

NOTE

Contact with the inner parts of the humidistat nullifies the warranty.

Connection diagram



Symbol	Meaning
I	Switch "ON"
0	Switch "OFF"
L	Phase "operating voltage"
L'	Phase "operating voltage" (on/off switch not active)
N	Neutral conductor operating voltage
☀	Output "heating"
☼	Output "cooling"