

**По вопросам продаж и поддержки обращайтесь:**

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## Гигро термостат DUO1035 GALLTEC+MELA. Техническое описание



## Technical Data

### Humidity

scale range ..... 30...100%rh  
range of operation ..... 35...100%rh  
measuring element ..... Polyga® measuring element,  
water resistant  
measuring accuracy .....  $\pm 3.0\%$ rh  
output ..... changeover contact  
switching difference (microswitch)  
referring to 50%rh ..... approx. 4%rh  
breaking capacity 230 V, ohmic load  
humidify ..... 2A at 230V AC  
dehumidify ..... 5A at 230 V AC  
inductive load ..... 0.2 A (cos  $\Omega$  min 0.8)  
breaking capacity, min. load ..... 100 mA, 20 V DC / AC  
main temp. coefficient ..... -0.2%/K, ref. 20°C and 50%rh  
max. air speed ..... 15m/sec  
adjustment ..... average air pressure at 430m NN

### Temperature

scale range ..... 10...35°C  
output ..... changeover contact  
switching difference ..... approx. 0.6 K  
breaking capacity 230 V,  
ohmic load ..... 10 A at 230V AC  
inductive load ..... 4 A (cos  $\Omega$  min 0.8)  
thermic feedback ..... for 230 V AC and 24V AC

### General

operating voltage ..... 24 or 230V AC

#### Please observe the notes on voltage!

O/I switch ..... on/off switch  
measuring medium ..... air pressureless, non-aggressive  
max. ambient temperature ..... 0...60°C  
mounting position ..... optional, preferably with  
ventilation slots at right angles to direction of airflow  
mounting ..... wall mounting  
connection ..... connecting terminals in the housing  
housing ..... plastic  
protective system ..... IP20  
dimensions ..... 128 x 75 x 28 mm  
weight ..... approx. 0.15 kg

## Room Hygro-Thermostat DUO1035

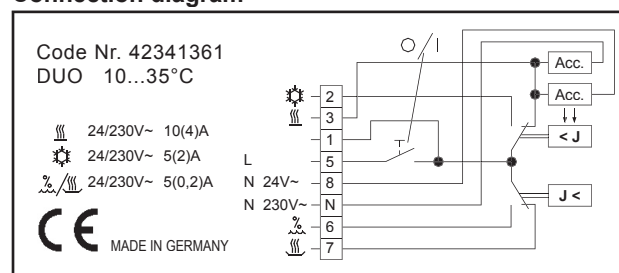
Prod. No. 42341361

scale range humidity 30...100 % rh

scale range temperature 10 ... 35° C

The hygro-thermostat type DUO is used as a on-off controller to control the relative air humidity and the temperature in air-conditioning units and climatic cabinets. It can be used almost anywhere where air humidity has to be monitored.

### Connection 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. As with almost all humidity measuring elements, deposits which eventually form a water-repellent film over the sensor are harmful. Such substances are resin aerosols, lacquer aerosols, smoke deposits etc.

### ATTENTION:

Contact with the inner parts nullifies the guarantee.

### 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.

## Type Survey

| Type    | Product No. | Measuring Range (Scale Range) |             | Output             | Operating Voltage |
|---------|-------------|-------------------------------|-------------|--------------------|-------------------|
|         |             | Humidity                      | Temperature |                    |                   |
| DUO1035 | 42341361    | 30 ... 100 % rh               | 10 ... 35°C | changeover contact | max. 230 V AC     |

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