



Accurate Multipurpose hygrostat/thermostat

- Graphic readout screen (multi-lingual)
- LED bar readout of the proportional control
- LED indicators for humidification and dehumidification
- Touch key operation
- Bandwidth setting
- 3 Hygrozones[®]
- Maximum/minimum setting
- Offset for the sensors
- Hygrostat functions (2x)
- Thermostat function
- Capacity control
- Proportional control 0-10 Volt (2x)

Proportional and relay control

The Hygrostat operates in 3 zones: Humidifying zone, Dead zone and Dehumidifying (Hygrozones). Humidification and dehumidification are then controlled by a 0 to 10 Volt signal (see figure 1).

This means that if RH = setpoint, both outputs are 0 Volt (humidification and de-humidification).

The Hygrostat can control 2 rooms at different setpoints when 2 sensors (HS-91) are connected.

Humidification

If RH is less than setpoint, the Hygrostat-output for humidification will increase to 10 Volts. This signal can be connected directly to the Contronics humidifiers for proportional control. If this difference of setpoint minus RH exceeds the adjusted bandwidth, the humidification relay will switch on. The Hygrostat offers the choice of proportional or on/off control or both in case extra humidification is required.

De-humidification

If RH is greater than setpoint, the Hygrostat-output for dehumidification will increase to 10 Volts. This signal can be connected directly to a dehumidifier for a proportional control. If this difference RH minus setpoint exceeds the adjusted bandwidth set (between 1% and 20%) the dehumidification relay will switch on. In this case the Hygrostat again offers the choice of proportional or on/off control or both.

Specifications DZR-45

Supply voltage	230V ± 10% 50/60 Hz
Maximum relay load	8A 250 VAC
Proportional outputs	0-10V (2x)
Range	1% till 99%
General accuracy:	
with humidity sensor HS-91	± 2% (2x)
with humidity sensor HS-10	± 5% (1x)
Power consumption	<5W
Permissible ambient temp.	0°C - 50°C
Dimensions (LxWxH)	267 x 225 x 104 mm
Housing protection class	IP-54 with closed cover
Temperature	-40°C - 70°C

Option

DZR-45NET Network connection
 Hygrostat/Thermostat with NETWORK connection. Simple to connect to the network with a standard network cable. Works via the normal IP/IPC protocol. Using a PC you can control the DZR-45NET remotely and read the information. The data can be graphically displayed or exported to Excel. The DZR-45NET is also accessible via the internet if required.

Accessories

HS-91	Humidity and temperature sensor
HS-10	Humidity sensor

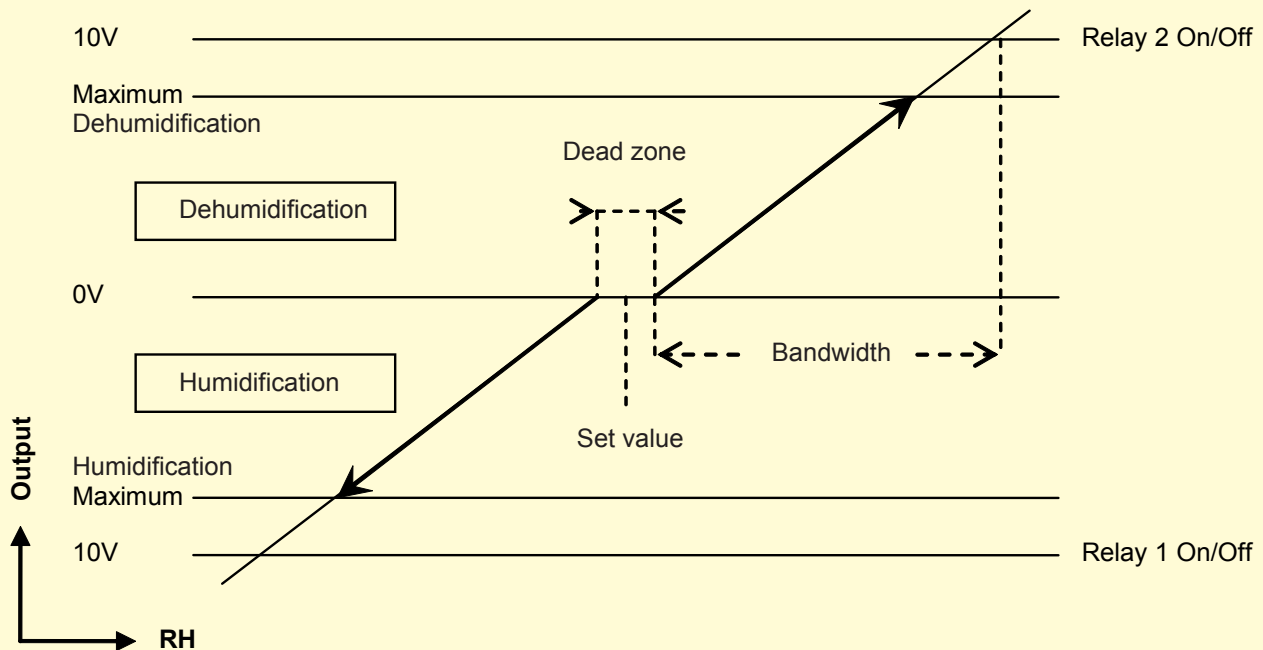


Figure 1.