

- One or two steps
- Protection class IP21 (can be used in bathrooms)
- Changeover contact 250V AC 5A (HR1-DH: 10A)

### Function

The humidistat uses human hair as the sensor medium. The hair stretches as the humidity increases and shrinks as the humidity decreases. These changes are transmitted to a micro switch (two switches).

The setpoint switch affects the position of the micro switches in relation to the hair element. The setpoint can be set at between 10% and 95% RH.

As the contacts are of the changeover type the humidistat can control both humidification and dehumidification. This tried and trusted construction with few movable parts gives a high degree of reliability and accuracy.

#### I step humidistat for IOA

HR1-DH is specially designed to control dehumidifying units and manage rated currents up to 10A. The humidistat has a closing contact which activates when the humidity begins to increase.

#### 2 step humidistat

This model has two micro switches. The step differential between them can be set by means of an adjustment screw.

As the contacts are of the change-over type, the humidistat can control both humidification and dehumidification.

# HRI/HR2

Room humidistat, I or 2 steps

HR1 and HR2 is a series of electro-mechanical room humidistats for controlling humidifying and/or dehumidifying in HVAC systems.

- High level of reliability
- Settings can be locked

## Calibration

The humidistats are calibrated at the factory before delivery to the customer, but should be precision calibrated after installation to ensure optimal results. After this, annual checks and re-calibration are recommended.

#### Maintenance

The hair element should be dusted off with a soft brush once a year. Do not rinse the hair element in water as this changes the calibration point. For further information concerning maintenance, see instructions supplied on delivery.

#### **Typical applications**

Can be used to control a humidifier or a dehumidifier or for on/off controlling of a fan. Can also be used to alarm when the humidity exceeds or falls below a pre-set level.



HRI/HR2

# Models

HR1	Room humidistat, 1 step, 5A
HR1-DH	Room humidistat, 1 step, 10 A. Only to control dehumidifying
HR2	Room humidistat, 2 steps

# Technical data

Material	Polycarbonate/ABS = Bayblend. Cover in white.	
Ambient temperature	-20+40°C	
Mounting	Wall mounting. Can be mounted in a bathroom zone 3	
Weight	0.125 kg	
Protection class	IP21	
CE	Low Voltage Directive (LVD) standards: This product conforms with the requirements of	
~~	European LVD standards IEC 669-1 and IEC 669-2-1 and carries the CE mark.	
	RoHS: This product conforms to the Directive 2011/65/EU of the European Parliament	
	and of the Council.	

## Output

Relay contact data

5A, 250 VAC, changeover contact. HR-DH, 10 A, 250 VAC, closing

### Settings

Setpoint	1095%RH
Hysteresis	4%RH at 45%RH
Step differential (HR2)	030%RH

# Spare parts and accessories

1606 Hair element, length 107 mm.

# Wiring and dimensions

# HR1



On HR1 the contact between terminals 1 and 3 closes when the humidity exceeds the setpoint value.

# HR1-DH

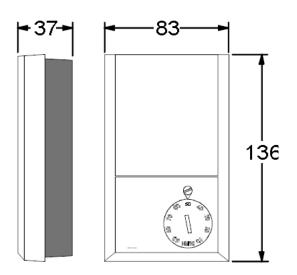


On HR1-DH the contact between terminals 1 and 2 closes when humidity exceeds the setpoint value.(Dehumidification)..

## HR2



On HR2 the contact between terminals 1 and 3 closes when the humidity exceeds the setpoint value. When the humidity continues to rise and exceeds the setpoint value for step 2 the contact between terminals 4 and 6 closes..



in mm



