HR1/HR2

Room humidistat, 1 or 2 steps

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

- ✓ One or two steps
- ✓ Protection class IP21 (can be used in bathrooms)
- ✓ Changeover contact 250V AC 5A (HR1-DH: 10A)
- ✓ High level of reliability
- ✓ Settings can be locked

Application

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

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.

1 step humidistat for 10A

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.

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.

HEAD OFFICE SWEDEN
Phone: +46 31 720 02 00
Web: www.regincontrols.com
E-mail: info@regincontrols.com

HR1/HR2

— 1 (4) —

REGIN
THE CHALLENGER

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 more 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 preset level.

HEAD OFFICE SWEDEN

Phone: +46 31 720 02 00
Web: www.regincontrols.com
E-mail: info@regincontrols.com

HR1/HR2

— 2 (4) —

≋REGIN
THE CHALLENGER

Technical data

1 General

Ambient temperature	Maximum 40°C
Mounting	Wall mounting. Can be mounted in a bathroom zone 3.
Weight	0.125 kg
Protection class	IP21

2 Output

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

3 Settings

Setpoint	10...95%RH
Hysteresis	4%RH at 45%RH
Step differential (HR2)	0...30%RH

$C\kern-0.3em\epsilon$

This product carries the CE-mark. More information is available at www.regincontrols.com.

Material

Material	Polycarbonate/ABS = Bayblend
Colour	White

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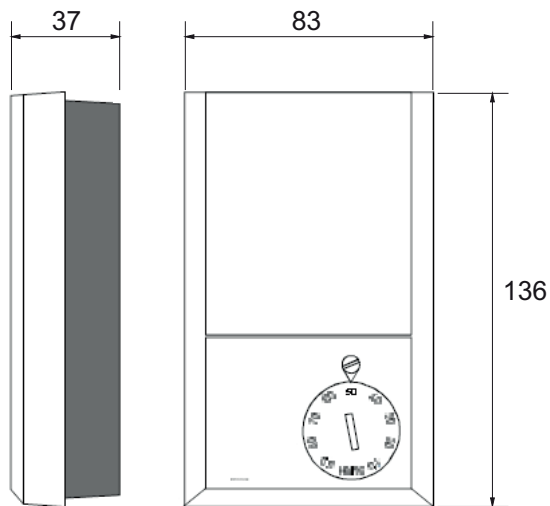
Article		
HR1	Room humidistat, 1 step, 5A	
HR1-DH	Room humidistat, 1 step, 10 A. Only to control dehumidifying	
HR2	Room humidistat, 2 steps	

Accessories

Article	**Description**
1606	Hair element, length 107 mm.

HEAD OFFICE SWEDEN

Phone: +46 31 720 02 00
Web: www.regincontrols.com
E-mail: info@regincontrols.com
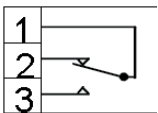
HR1/HR2

— 3 (4) —

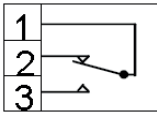≋REGIN
THE CHALLENGER

Dimensions
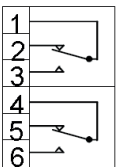

[mm]

Wiring

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.

Documentation

All documentation can be downloaded from www.regincontrols.com.

HR1/HR2