

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



# CSHR1/CSHR2

Room humidistat, 1 or 2 steps

CSHR1 and CSHR2 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)

## 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

CSHR1-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.

- 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.

## Models

CSHR1	Room humidistat, 1 step, 5A
CSHR1-DH	Room humidistat, 1 step, 10 A. Only to control dehumidifying
CSHR2	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
<b>CE</b>	<b>Low Voltage Directive (LVD) standards:</b> This product conforms with the requirements of European LVD standards IEC 669-1 and IEC 669-2-1 and carries the CE mark. <b>RoHS:</b> 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
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## Settings

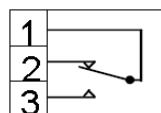
Setpoint	10...95%RH
Hysteresis	4%RH at 45%RH
Step differential (HR2)	0...30%RH

## Spare parts and accessories

1606	Hair element, length 107 mm.
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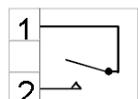
## Wiring and dimensions

### CSHR1

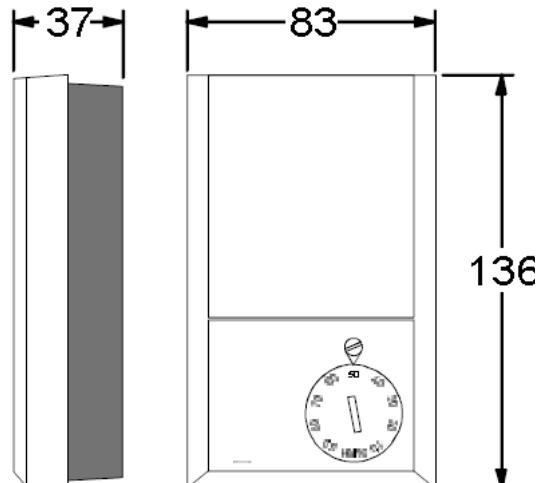


On HR1 the contact between terminals 1 and 3 closes when the humidity exceeds the setpoint value.

### CSHR1-DH

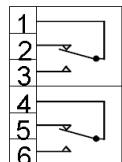


On HR1-DH the contact between terminals 1 and 2 closes when humidity exceeds the setpoint value. (Dehumidification)..



in mm

### CSHR2



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..

## CS Eng And Tranding Pte Ltd

Phone : +6594894652  
Wed : [www.cscontrol.com.sg](http://www.cscontrol.com.sg)  
Mail : [sales@cscontrol.com.sg](mailto:sales@cscontrol.com.sg)

#01-03k Sindo Building66  
Tannery Lane,Singapore  
347805

  
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