

## Duct Humidistats

### Features

- Single or 2-stage versions available
- Suitable for swimming pool applications



### Specification

Switch rating	15(2)A @ 230Vac
Stage differential	2-15%RH
Differential (per stage)	4%RH
Accuracy	Approx. 3%RH
Operating range	35-100%RH
Housing material	ABS
Dimensions:	
Housing	108 x 72x 72mm
Probe	225mm x 16mm dia.
Protection:	
Concealed	IP65
Exposed	IP30
Permissible air speed	8 m/s
Ambient range	-10 to +65°C
Installation category	IEC 664 category II
Pollution degree	IEC 664 degree I
Country of origin	Italy

### Product Codes

<b>RH-SH-1D</b>	Single stage humidistat with concealed adjustment
<b>RH-SH-1DE</b>	Single stage humidistat with exposed adjustment
<b>RH-SH-2D</b>	Dual stage humidistat with concealed adjustment
<b>RH-SH-2DE</b>	Dual stage humidistat with exposed adjustment

## Technical Overview

The RH-SD-xD range of humidistat's are designed for duct mounting for the ON/OFF control of humidification and de-humidification equipment, or the initiation of alarms or over-ride controls. High quality sensing elements ensure accurate measurement and switching differential.

## Installation

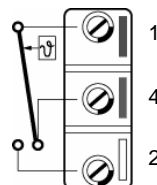
1. The RH-SH-xD should only be installed by a competent, suitably trained technician, experienced in installation with hazardous voltages. (>50Vac & <1000Vac or >75Vdc & 1500Vdc)
2. Ensure that all power is disconnected before carrying out any work on the RH-SH-xD.
3. Select a location in the duct where dust & contaminants are at a minimum (i.e. after filters etc.) and which will give a representative sample of the prevailing air condition.
4. If the sensor is to be mounted outside, it is recommended that the unit be mounted with the cable entry at the bottom. If the cable is fed from above then into the cable gland at the bottom, it is recommended that a rain loop be placed in the cable before entry into the sensor.
5. Remove the front cover, and separate from the main body.
6. Feed the cable through the waterproof gland and terminate the cores at the terminal block. Leaving some slack inside the unit, tighten the cable gland onto the cable to ensure watertightness.
7. Replace the lid after the electrical connections have been made.

## Warning

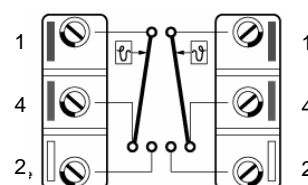
The measurement location of the humidity controller should be selected so that no water can condense on or in the device. This applies particularly for operation with voltage higher than 48V. Failure to comply with this can result in damage to the controller.

## Connections

Single stage:



2-Stage:



- |   |                 |
|---|-----------------|
| 1 | Common          |
| 4 | Normally closed |
| 2 | Normally open   |

On humidity rise, contacts 1-2 close. On humidity fall, contacts 1-5 close.

## Dimensions

