Sontay®
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RH-SH
Room & Duct Humidistats

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Features & Benefits

- Concealed or exposed setpoint adjustment
- Suitable for swimming pool environments

Technical Overview

The RH-SH range of humidistat's are designed for wall or duct mounting for the ON/OFF control of humidification and dehumidification equipment, or the initiation of alarms or override controls.

High quality sensing elements ensure accurate measurement and switching differential.

Product Codes

	Space	
HS2=	**RH-SH-1R**	Single stage humidistat with concealed adjustment
HS1=	**RH-SH-1RE**	Single stage humidistat with exposed adjustment
	Duct	
HS4=	**RH-SH-1D**	Single stage humidistat with concealed adjustment
HS3=	**RH-SH-1DE**	Single stage humidistat with exposed adjustment

Specification

Switch rating	
Space (resistive):	
Humidify	2A @ 250Vac
Dehumidify	5A @ 230Vac
Duct	15(2)A @ 24-250Vac
Stage differential	2-15%RH
Differential	4%RH
Accuracy	Approx. 3%RH
Operating range	35-100%RH
Permissible air speed	8 m/s (duct only)
Housing material	ABS
Sensing element	Synthetic fabric bands
Dimensions:	
Space	115 x 35 x 70mm
Duct	108 x 72 x 72mm
Probe	225mm x 19mm dia.
Ambient range	-10 to +65°C
Protection:	
Space	IP20
Duct	IP65 (conceled adjust) IP20 (exposed adjust)
Country of origin	Italy

WEEE Directive:
At the end of the products useful life please dispose as per the local regulations.
Do not dispose of with normal household waste.
Do not burn.

CE

The products referred to in this data sheet meet the requirements of EU 2014/30/EU and 2014/35/EU

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Installation

Common Spec

1. The RH-SH range 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.

3. Select a location where contaminants are at a minimum, and which will give a representative sample of the prevailing condition.

Space

4. Undo the tamperproof screw at the bottom of the housing and gently pull the front panel from the base.

5. Using the base as a template mark the hole centres and fix to the wall with suitable screws.

Duct

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.

Common Spec

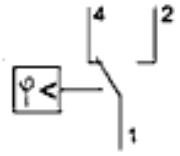
6. Feed cable in the housing and terminate the cores at the terminal block, leaving some slack inside the unit.

7. Replace the front cover to the base plate/main body, and tighten screws.

Single stage versions:

Connections

1	Common
2	N/O
4	N/C



The contact 1-2 closes and 1-4 opens when the relative air humidity drops below the setpoint.

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.