Sontay®
Four Elms Road - Edenbridge
Kent - TN8 6AB - UK

RH-SH
Room & Duct Humidistats

Issue Number 10.0
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Features and Benefits

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

Technical Overview

Well-suited in domestic, commercial and industrial areas with light pollution for various applications, including:

- Office and computer rooms
- Foodstuffs storehouse
- Greenhouses
- Textile, paper and printing industries
- Swimming pools

Product Codes

Space	
RH-SH-1R	Single stage humidistat with concealed adjustment
RH-SH-1RE	Single stage humidistat with exposed adjustment
Duct	
RH-SH-1D	Single stage humidistat with concealed adjustment
RH-SH-1DE	Single stage humidistat with exposed adjustment

Specification

Switch rating		
	Space:	
	Humidify	2(1)A @ 230Vac
	Dehumidify	5(1)A @ 230Vac
	Duct	15(2)A @ 125-250Vac
Differential:		
	Space	3...5%RH (non-adjustable)
	Duct	5%RH
Accuracy:		
	>50%RH	±3%RH
	<50%RH	±4%RH
Time constant:		
	Space	t50 @ 2m/s 72 seconds
	Duct	t63 @ 2m/s 120 seconds
Operating range		30-100%RH
Maximum air speed		8 m/s
Housing material		ABS
Sensing element		Synthetic fabric bands
Dimensions:		
	Space	115 x 35 x 70mm
	Duct	108 x 72 x 72mm
	Probe	226mm x 16mm dia.
Ambient range:		
	Temperature	0 to +60°C
	Humidity	<95%RH non-condensing
Protection:		
	Space	IP20
	Duct	IP65 (conceled adjust) IP54 (exposed adjust)
Country of origin		Italy
Conformity		LVD, CE & UKCA Marked

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.

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Installation

Handling & Precautions:

- Should **only** be installed by a qualified, trained technician experienced with hazardous voltages (>50Vac & <1000Vac or >75Vdc & 1500Vdc).
- Install **after construction/renovation** to avoid dust (warranty may be void if contaminated).

Installation Steps:
RH-SH-1R(E)

1) Remove tamperproof screw and front panel from the base.

2) Mount base (to back box, or wall using base as template).

3) Feed cable through base and terminate wires (see “Electrical Connections”).

4) Set the humidity set point on concealed adjustment type & replace front cover and tighten tamperproof screw.

RH-SH-1D(E)

1) Remove the two screws that secure the lid to the housing base, separate the lid from the housing base.

2) Fix housing to duct with screws.

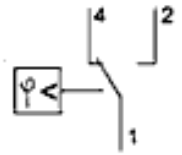
3) Feed cable through gland and terminate wires (see “Electrical Connections”). Tighten gland for watertight seal.

4) For outdoor use, mount with cable entry at bottom. If fed from above, add a rain loop before entry.

5) Set the humidity set point on concealed adjustment type & replace front cover and tighten the two screws.

Electrical Connections

1	Common
2	N/O
4	N/C



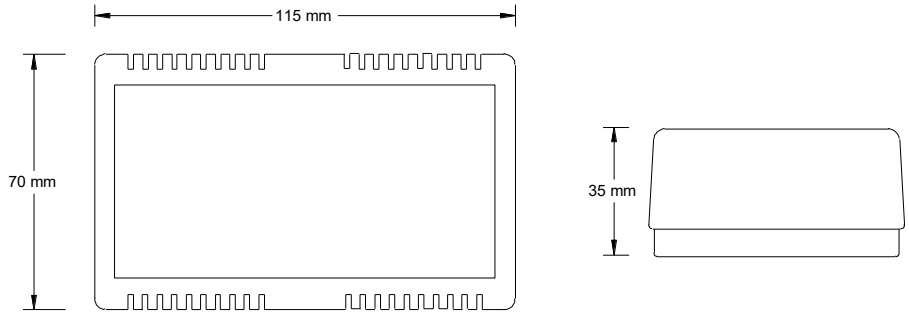
The contact 1-2 closes and 1-4 opens when the relative air humidity drops below the setpoint.

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.

Dimensions

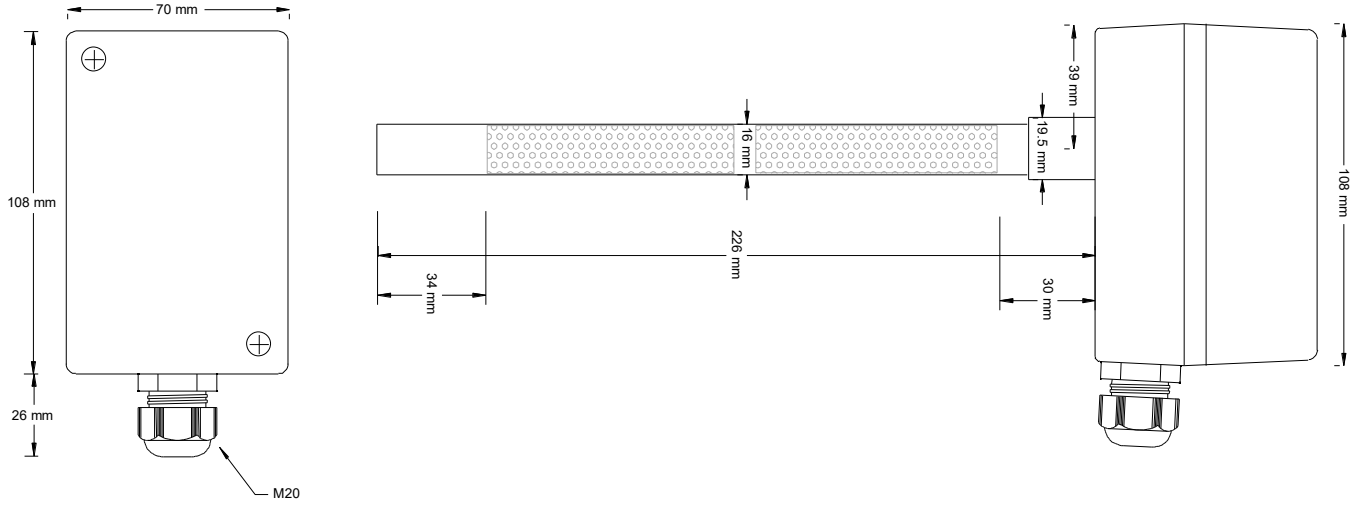
Space types:



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Dimensions

Duct types:



Whilst every effort has been made to ensure the accuracy of this specification, Sontay cannot accept responsibility for damage, injury, loss or expense resulting from errors or omissions. In the interest of technical improvement, this specification may be altered without notice.

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