



Product Overview

The AX-RH-SH-xx Humidistats are designed for space or duct mounting, for the on/off control of humidification or dehumidification equipment, or the initiation of alarms or override controls. The units are extremely reliable and have excellent stability. Single or dual stage units are available with concealed or exposed setpoints.

Features

- Single or Dual Stage units available
- High stability and reliability
- Duct or Space mounted
- Switch mains voltage

Product Specifications

Accuracy:		approx 3% RH
Stability (long term):		< 2% RH p.a.
Stage Differential:		2 to 15% RH
Differential per stage:		4% RH
Switch rating:		15 (8)A @230Vac
Permissible airspeed:		8 m/sec
Operating Range:		30 to 100% RH
Ambient Temp:		-10°C to +65°C
Dimensions:	Room	Housing 115 x 70 x 35 mm
	Duct	Housing 108 x 72 x 72 mm
		Probe 225 x 16mm diam
Materials:	Housing	ABS
	Probe	Brass
Protection:	Exposed setpoint	IP30
	Concealed setpoint	IP65
Weight:	Room	200 gms
	Duct	300 gms
Country of Origin:		Italy

Order Codes

AX-RH-SH-1R	Room Humidistat, single stage, concealed setpoint
AX-RH-SH-1RE	Room Humidistat, single stage, exposed setpoint
AX-RH-SH-2R	Room Humidistat, dual stage, concealed setpoint
AX-RH-SH-1D	Duct Humidistat, single stage, concealed setpoint
AX-RH-SH-1DE	Duct Humidistat, single stage, exposed setpoint
AX-RH-SH-2D	Duct Humidistat, dual stage, concealed setpoint
AX-RH-SH-2DE	Duct Humidistat, dual stage, exposed setpoint

Installation

Antistatic precautions must be observed when handling these sensors. The PCB contains circuitry that can be damaged by static discharge. Transmitters should only be fitted to a system after the space has been cleaned in order that the main contaminants have been removed from the room.

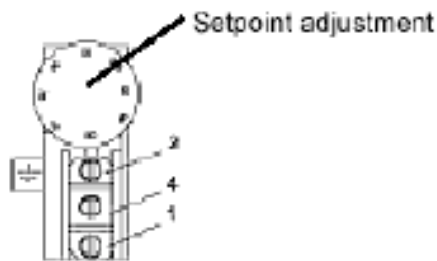
Note; It is recommended to use screened cables with the screen earthed at the controller. Control cable should not be run next to power or other cable which may produce significant electro-magnetic noise.

Select a location on the wall which avoids direct sunlight and is not within 2 metres of ventilation, heating or lighting and which will give a representative sample of the prevailing air condition.

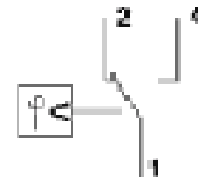
2. Drill at least two holes as per drawing below, fix the IP30 housing to the wall with appropriate screws.
3. Remove the front cover by unscrewing the fixing screw and separating from the backplate
4. Feed the cable through the hole in the base of the backplate and terminate the cores at the terminal block. Leaving some slack inside the unit, and replace front cover.
5. Ensure that the voltage is within the specified tolerances.
6. Allow 3 minutes before checking functionality.
7. Allow 30 minutes before carrying out pre-commissioning checks.

Connections

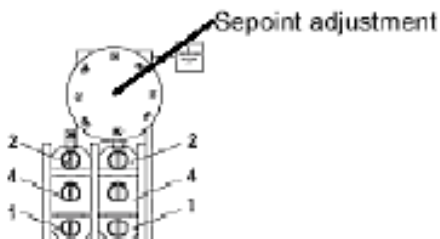
Single stage:



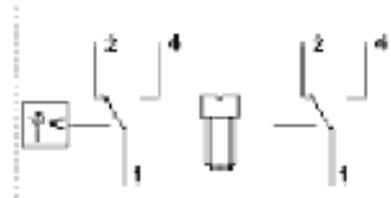
Single stage:



Dual stage:



Dual stage:



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

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

Control operation:

RH-SH-1D / 2D: On humidity rise, contacts 1-2 close. On humidity fall, contacts 1-4 close.

RH-SH-1R: On humidity rise, contacts 1-4 close. On humidity fall, contacts 1-2 close.

RH-SH-2R: On humidity rise, contacts 1-3 close (Stage 1) and contacts 5-6 close (Stage 2). On humidity fall, contacts 1-2 close (stage 1) and contacts 4-5 (stage 2)