



Product Overview

The AX-RH-HxC 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

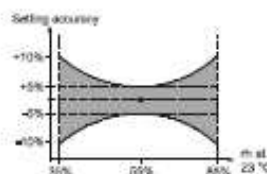
Product Specifications

Accuracy:		+/- 5% RH
Stability (long term):		>1.5% RH p.a.
Stage Differential:		2 to 15% RH
Differential per stage:		6% RH
Switch rating:		5 (3) A @250Vac
Permissible airspeed:		10 m/sec
Operating Range:		30 to 100% RH
Ambient Temp:		-25°C to +70°C
Dimensions:	Room Housing	76 x 76 x 34 mm
	Duct Housing	140 x 73 x 64 mm
	Probe	182 x 16 mm diam
Materials:	Housing	ABS
	Probe	ABS
Protection:	Room	IP20
	Duct	IP30
Weight:	Room	90 gms
	Duct	350 gms
Country of Origin:		Switzerland

Order Codes

AX-RH-HSC120-E	Room Humidistat, single stage, exposed setpoint
AX-RH-HSC120-C	Room Humidistat, single stage, concealed setpoint
AX-RH-HBC111-E	Duct Humidistat, single stage, exposed setpoint
AX-RH-HBC111-C	Duct Humidistat, single stage, concealed setpoint
AX-RH-HBC112-E	Duct Humidistat, two stage, exposed setpoint
AX-RH-HBC112-C	Duct Humidistat, two stage, concealed setpoint

Room



Operation

When the relative humidity rises and reaches the upper switching point, contacts 1-2 open and 1-3 close. The setpoint X_S corresponds to the upper switching point. The contacts revert to their original position when the humidity has fallen below the upper switching point by the amount of the fixed switching difference (X_{Sd}).

The ageing process of the sensing element causes a gradual and lasting displacement of the switching point, thus possibly necessitating re-adjustment.

When the temperature is different to the calibration temperature, the switching point is systematically shifted (temperature influence).

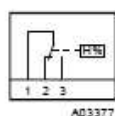
Similarly, rapid changes in humidity also cause the switching point to be temporarily shifted.

Engineering and installation notes

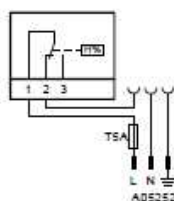
The housing cover provides for the cable to be inserted from the rear when fitted on recessed junction boxes. Break-out apertures are provided at the top and bottom for surface mounting.

Wiring diagrams

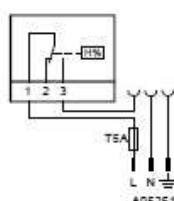
F001, F010



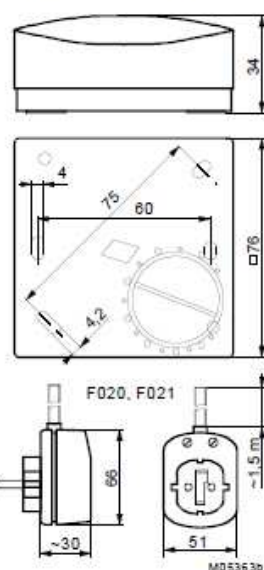
F020 (humidification)



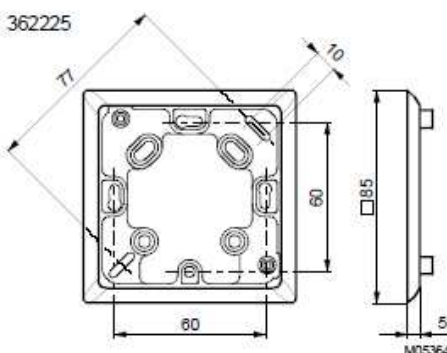
F021 (de-humidification)



Dimension drawing



Accessories



Duct



Operation

HBC 111 (one micro-switch)

When the relative humidity rises above the setpoint X_S , the contacts switch over from 1-2 to 1-3.

The contacts revert to their original position when the humidity has fallen by the amount of the fixed switching difference (X_{Sd}).

HBC 112 (two micro-switches)

When the relative humidity rises, the first switch switches over from 1-2 to 1-3. When the setpoint X_S has been reached, the second switch switches over from 1-5 to 1-6.

When the relative humidity falls by the switching range X_{Sh} , the first switch changes back to 1-2. The switching range X_{Sh} can be set internally with a screwdriver.

Rapid changes in humidity also cause the switching point to be temporarily shifted.

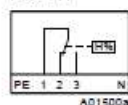
Engineering and installation notes

Fitting position: sensor tube can be anywhere between horizontal and vertical (facing downwards).

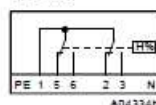
The sealing set (accessory 0303538) increases the degree of protection to IP 55.

Wiring diagrams

HBC 111



HBC 112



Dimension drawings

