



SAUTER HSC/HBC humidistats

A humidistat performs the monitoring and control of devices that regulate humidity. The SAUTER HSC/HBC humidistat performs this task extremely reliably in the great tradition of Swiss precision. Depending on the area of use, various versions of the humidistat are available: As a room device, duct sensor or recessed model. All of these well-proven versions of HSC/HBC humidistat impress with their advanced technical level.

The SAUTER HSC/HBC humidistat delivers precise setting accuracy and an optimum switching difference. Additionally, it requires very little calibration and no maintenance. The duct-mounted humidistat even includes a patented integrated mechanism for temperature compensation. This unique feature eliminates the effect of the ambient temperature. With a SAUTER humidistat you get an extremely reliable and very powerful component. It's the perfect safety device to have in your control loop, or the right on/off controller to ensure the quality of your solution.

The product advantages:

- +** No auxiliary power required
- +** Long-term stability
- +** Robust
- +** Precision with reliability
- +** Maintenance-free
- +** Resistant to condensation, dust etc.
- +** Excellent value for money

The areas of use:

- HVAC compact installations
- Humidifiers
- Dehumidifiers
- Refrigerated rooms
- Greenhouses
- Conservatories
- Swimming pools and health centres



The technology.

The SAUTER HSC/HBC humidistats use the hygroscopic properties of strip material to measure the relative humidity. This tried and tested technology has been used successfully worldwide in the SAUTER humidistat for years. The measuring modules extend proportionately as the humidity increases. As a result, the relative humidity can be measured by means of the length extension.

Due to its good extending properties and the relatively low temperature sensitivity, the nylon strip is the obvious choice for use as a measuring element. In contrast to human hair technology, the nylon elements are not sensitive to dust, condensation and most cleaning and disinfecting agents. Additionally, it requires no maintenance or recalibration.

Exclusively from SAUTER:

The HBC duct-mounted humidistat includes a patented integrated mechanism that compensates for temperature variations. As a result, the regulated actual value is no longer affected by the ambient temperature. This is a valuable advantage for outdoor applications.



Product	HSC120F001	HSC120F101	HBC111F001	HBC112F001	HSC101F001
Fitting	Room, surface-mounted		Duct		Integration
Special features	External setpoint adjustment	Internal setpoint adjustment	1 switch	2 switches ($X_{sh} = 6 \dots 25\% \text{ rh}$)	As insert in OEM components
Measuring range	30...90% rh		15...95% rh		25...95% rh
Setting accuracy (at 55% rh, 23°C)	± 5% rh		± 5% rh		± 5% rh
Switching difference	Typically 6% rh		4% rh		6% rh
Time constant ($v = 0.2 \text{ m/s}$)	Approx. 5 min.		Approx. 3 min.		Approx. 3 min.
Contact rating					
Max.	5 (3) A, 250 VAC		5 (3) A, 250 VAC		5 (3) A, 250 VAC
Min.	100 mA, 24 V		100 mA, 24 V		100 mA, 24 V
Effect of temperature	+0.5% rh/ K		Compensated		+0.5% rh/ K
Long-term stability	Approx. -1.5% rh/ a		Approx. -1.5% rh/a		Approx. -1.5% rh/a

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