

SERIES EE14

HYGROSTATS FOR WALL AND DUCT MOUNTING APPLICATIONS

The EE14 Hygrostats meet the steadily growing requirements with regard to long term stability, functionality and reliability of the switching values, and maintenance free operation.

The core-components are the high quality capacitive humidity sensor elements from E+E Elektronik. These 'HC' series elements offer excellent long term stability, very low hysteresis and high chemical resistance. These characteristics have been proven during countless practical operations.

The transmitters are available in housings appropriate for either duct mounting, with a suitable mounting device or for wall mounting.

WORKING PRINCIPLE

With a potentiometer it is possible to adjust the switching point between 30 and 95 % rH. A second potentiometer is for setting the switching-hysteresis between the values 3 to 15 % rH.

The voltage supply is 24 V AC/DC.

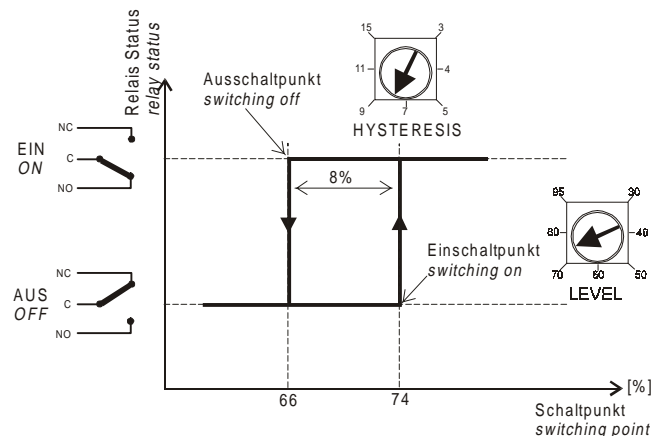
If there is a special operational condition or weather situation it is sometimes necessary to switch off the Hygrostat. This is made possible by the offer of an optional summer/winter switch, which is easily accessible from outside.

The working conditions 'HYGROSTAT ON' or 'HYGROSTAT OFF' are then simply indicated by a LED.



TYPICAL APPLICATIONS

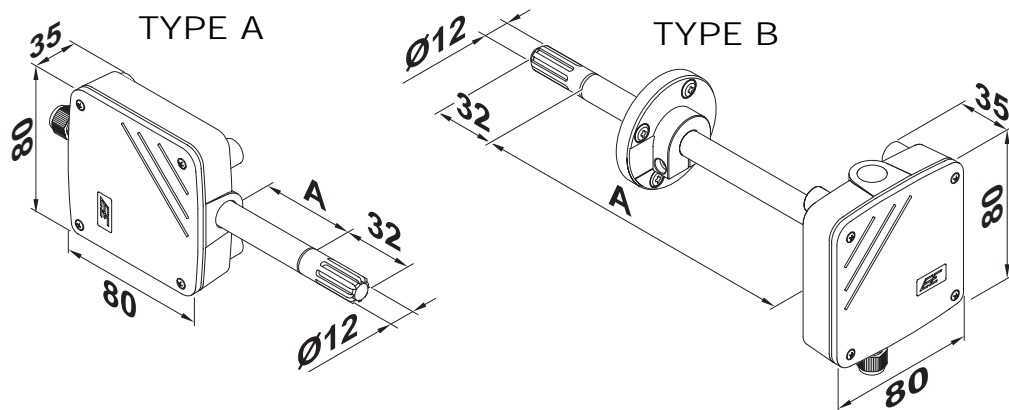
- refrigeration
- swimming halls
- climate- and ventilation controls



TECHNICAL DATA

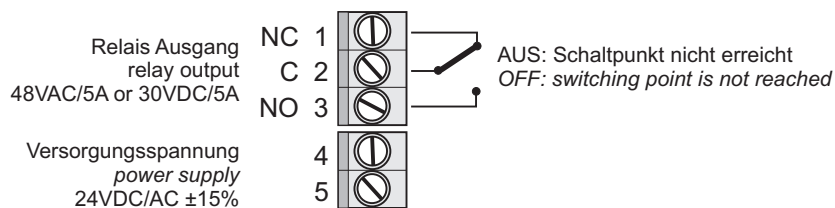
Humidity sensor	Series HC 101	
Setting range	switching point	hysteresis
Setting accuracy	10 ... 95% RH	3 ... 15% RH
Supply	24VDC/VAC $\pm 15\%$	ca. 0.5W
Output	center-zero relay up to 30VDC/5A or 48VAC/5A	
Connection	screw terminals max. 1.5mm ²	
Housing/protection class	Pc plastics / IP65 / with S/W switch IP40	
Sensor protection	membrane filter, sintered bronze filter, PTFE filter or metal grid	
Electromagnetic compatibility according	EN 50081-2 EN 50082-2	EN 50081-1 EN 50082-1
range of application humidity	10 ... 95% RH	
range of application temperature	working	-5 ... +50 degC
	storage	-30 ... +60 degC
(optional) summer- / winter switch	switch off the hygrostat for appr. 24h	
Lead-in wire	PG 9; for cable diameter 5 - 9 mm	

HOUSINGS



Dimensions in mm

CONNECTING DIAGRAM



ORDER INFORMATION

SERIES				
EE 14				
	CODE 1	HOUSING		
	A	for wall mounting		
	B	for duct mounting		
	CODE 2	PROBE LENGTH		
	1	20 mm (for wall mounting)		
	5	200 mm (for duct mounting)		
	CODE 3	FILTER		
	1	membrane filter		
	2	sintered bronze filter		
	5	PTFE filter		
	6	metal grid filter		
	CODE 4	SWITCH		
	no	without summer-/ winter switch		
	SW01	with summer-/ winter switch		

Order example:

EE14-A11: housing: for wall mounting, probe length: 20mm, filter: membrane filter, switch: without S/W-switch

EE14-B52-SW01: housing: for duct mounting, probe length: 200mm, filter: sintered bronze filter, switch: with S/W-switch

ACCESSORIES & SPARE PARTS

	Code		Code
membrane filter	HA 01 01 01	calibration device	HA 01 04 01
sintered bronze filter	HA 01 01 02	humidity standards 10 % RH	HA 01 04 10
PTFE filter	HA 01 01 05	humidity standards 35% RH	HA 01 04 35
metal grid filter	HA 01 01 06	humidity standards 50 % RH	HA 01 04 50
protection sleeve for sensor probe	S01	humidity standards 80 % RH	HA 01 04 80
		humidity standards 95% RH	HA 01 04 95



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