

On-wall hygrostats and humidity sensors (± 2.0 %), electronic, one-step, with switching outputs



















Electronic hygrostat and humidity sensor HYGRASREG® AH-40 with one switching output, adjustable switching threshold and display for displaying ACTUAL humidity (accuracy class  $\pm 2.0\,\%$  RH) and for setting the target humidity.

It is suitable for controlling and monitoring the relative air humidity, e.g. in laboratories, production rooms, climatic exposure test cabinets, swimming pools, greenhouses etc., for controlling humidifying and dehumidifying facilities. The measuring transducers are designed for exact detection of humidity. The AH-40 uses a digital, long-term stable sensor as a measuring element for measuring humidity. It is used in dust-free, unpolluted, non-aggressive air.

TECHNICAL DATA					
Power supply:	24 V AC (±20%) 1536 V DC				
Power consumption:	< 1.1 VA / 24 V DC < 2.2 VA / 24 V AC				
Sensors:	digital humidity sensor, small hysteresis, high long-term stability				
Sensor protection:	<b>plastic</b> sinter filter, Ø 16 mm, $L = 35$ mm, exchangeable (optional <b>metal</b> sinter filter, Ø 16 mm, $L = 32$ mm)				
Setting range:	595 % RH				
Output:	potential-free changeover contact (24 V), 1 A ohmic load				
Accuracy, humidity:	typically $\pm 2.0\%$ (2080 % RH) at +25 °C, otherwise $\pm 3.0\%$				
Ambient temperature:	storage -35+85°C; operation -30+75°C, non-precipitating				
Long-term stability:	±1% per year				
Housing:	plastic, UV-resistant, material polyamide, 30% glass-globe reinforced, with quick-locking screws (slotted / Phillips head combination), colour traffic white (similar to RAL 9016),, housing cover for display is transparent!				
Housing dimensions:	72 x 64 x 43.3 mm (Tyr 1 with display)				
Electrical connection:	0.14 - 1.5 mm², via terminal screws				
Cable connection:	cable gland, plastic (M16x1.5; with strain relief, exchangeable, max. inner diameter 10.4mm) or M12 connector according to DIN EN 61076-2-101 (optional on request)				
Protective tube:	stainless steel V2A (1.4301), Ø 16 mm, NL = 55 mm				
Prozessanschluss:	by screws				
Protection class:	III (according to EN 60 730)				
Protection type:	IP65 (according to EN 60529) Housing tested, TÜV SÜD, Report No. 713139052 (Tyr 1)				
Standards:	CE conformity according to EMC dire ctive 2014/30/EU				
Display:	two-line display with illumination, cutout approx. $36 \times 15  \text{mm}$ (W x H), for displaying actual humidit and for setting the target humidity				
Displaying:	The 1st line of the display shows the <b>relative humidity</b> .  The 2nd line shows on the left side the information regarding the <b>switching status of the relay</b> (as a circuit), as well as the <b>switching value</b> readout in % RH on the right side (adjustable using the set potentiometer).				
	<ul><li>Circuit, empty = relay in idle state</li><li>Circuit, full = relay energised</li></ul>				
FUNCTION	actual humidity < switching value contact 11-12 closed (LED OFF)				
	actual humidity > switching value contact 11-13 closed (LED ON)				



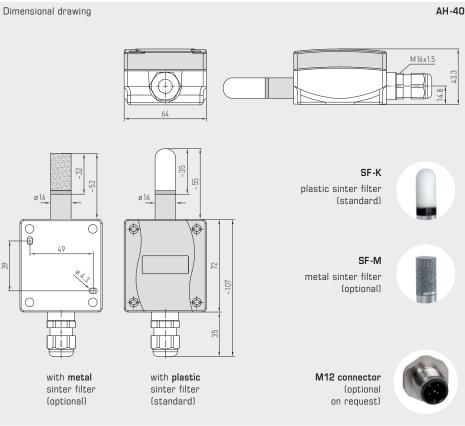






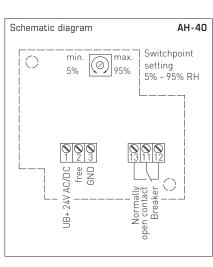


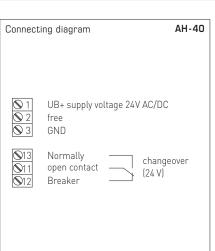
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AH-40 with display and plastic sinter filter (standard)









HYGRASREG® AH-40		On-wall hygrostats and humidity sensors (± 2.0%), <i>Premium</i>						
Type/WG01		<b>Setting Range</b> Humidity	Output	Steps	Display	Item No.	Price	
AH-40-U								
AH-40W LCD		595 % RH	1 x Changeover contact	one-step		1202-1065-0221-000	194,32 €	
Optional:	Cable connect	ion with <b>M12 connector</b> according to DIN EN 61076-2-101				on request		

Rev. 2025 - V17 GB

SF-M Metal sinter filter,  $\emptyset$  16 mm, L = 32 mm, exchangeable stainless steel V4A (1.4404)

**1** +49 (0) 911 / 5 19 47-0

mail@SplusS.de

45,34 €

7000-0050-2200-100