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



























Electronic hygrostat and humidity sensor ${\bf HYGRASREG^{@}}~AH\text{-}40$ with one switching output, adjustable switching threshold and display for displaying ACTUAL humidity (accuracy class $\pm\,2.0\,\%\,r.H.)$ 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.

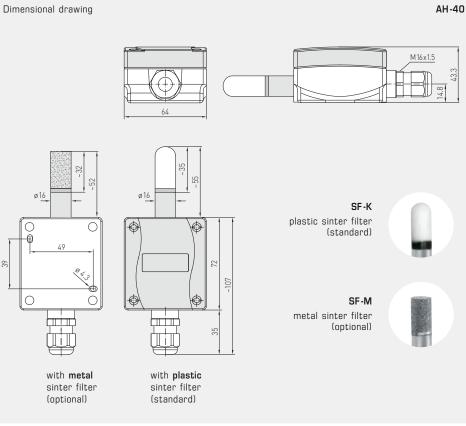
TECHNICAL DATA					
Power supply:	24 V AC (±20%)				
_	1536 V DC				
Power consumption:	< 1.1 VA / 24 V DC < 2.2 VA / 24 V AC				
Sensors:	digital humidity sensor, small hysteresis, high long-term stability				
Sensor protection:	plastic sinter filter, Ø 16 mm, L = 35 mm, exchangeable (optional metal sinter filter, Ø 16 mm, L = 32 mm)				
Setting range:	595 % r. H.				
Output:	potential-free changeover contact (24 V), 1 A ohmic load				
Deviation, humidity:	typically $\pm 2.0\%$ (2080% r.H.) 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				
Enclosure:	plastic, UV-stabilised, material polyamide, 30% glass-globe reinforced, with quick-locking screws (slotted / Phillips head combination), colour traffic white (similar to RAL 9016), enclosure cover for display is transparent!				
Enclosure dimensions:	72 x 64 x 43.3 mm (Tyr 1 with display)				
Electrical connection:	0.14 - 1.5 mm², via terminal screws				
Cable gland:	M16x1.5, including strain relief, exchangeable, max. inner diameter 10.4 mm				
Protective tube:	stainless steel, Ø 16 mm, NL = 55 mm				
Prozessanschluss:	by screws				
Protection class:	III (according to EN 60 730)				
Protection type:	IP 65 (according to EN 60529) enclosure only!				
Standards:	CE conformity, electromagnetic compatibility according to EN 61 326, 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 relative humidity . The 2nd line shows on the left side the information regarding the switching status of the relay (as a circuit), as well as the switching value readout in % r.H. on the right side (adjustable using the set potentiometer). • Circuit, empty = relay in idle state				
	• Circuit, full = relay in the state				
FUNCTION	The relay output is triggered (contact 13-11 closed) if the humidity switchpoint is not reached and opens (contact 12-11 closed) in the event of a fault (power failure, condensation)				
	LED short pulses = relay active → switchpoint not reached				
	LED long pulses = relay inactive → switchpoint exceeded				





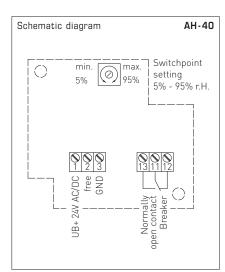


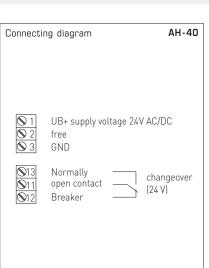
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AH-40 with display and plastic sinter filter (standard)









HYGRASREG® AH-40 — On-wall hygrostats and humidity sensors (±2.0%), Premium						
Type / WG01	Setting Range Humidity	Output	Steps	Display	Item No.	Price
AH-40-U						
AH-40W TYR-1 DISPLAY	595% r.H.	1 x Changeover contact	one-step		1202-1065-0221-000	153,00 €

Accessories			
SF-M	Metal sinter filter, \emptyset 16 mm, L = 32 mm, exchangeable stainless steel V4A (1.4404)	7000-0050-2200-100	35,70 €