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Duct hygrostats and humidity sensors ( $\pm$  2.0 %), including mounting flange, electronic, one-step, with switching outputs



Electronic hygrostat and humidity sensor  $HYGRASREG^{\otimes}$  KH-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 ventilation and air conditioning ducts, 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 KH-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%) and 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, $\emptyset$ 16 mm, L = 35 mm, exchangeable (optional <b>metal</b> sinter filter, $\emptyset$ 16 mm, L = 32 mm)					
Setting range:	595 % RH					
Output:	potential-free changeover contact (24 V), 1 A ohmic load					
Accuracy, humidity:	typically $\pm2.0\%$ (2080 % RH) at +25 °C, otherwise $\pm3.0\%$					
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)					
Cable connection:	<pre>cable gland, plastic (M 16 x 1.5; with strain relief, exchangeable, max. inner diameter 10.4 mm) or M12 connector according to DIN EN 61076-2-101 (on request)</pre>					
Protective tube:	PLEUROFORM <sup>™</sup> , material polyamide (PA6), with torsion protection, Ø 20 mm, NL = 235 mm (optionally 100 mm), v <sub>max</sub> = 30 m/s (air) (on request, optional stainless steel V2A (1.4301), Ø 16 mm)					
Process connection:	by mounting flange, plastic (included in the scope of delivery)					
Electrical connection:	0.14 - 1.5 mm², via terminal screws					
Protection class:	III (according to EN 60 730)					
Protection type:	IP65 (according to EN 60529) in the built-in state					
	Housing tested, TÜV SÜD, Report No. 713139052 (Tyr 1)					
Standards:	Housing tested, TÜV SÜD, Report No. 713139052 (Tyr 1) CE conformity according to EMC directive 2014/30/EU					
Standards: Display:						
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**SF-K** Plastic sinter filter (standard)

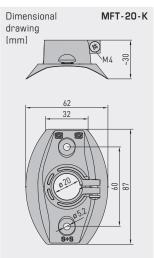


Metal sinter filter (optional)



MFT-20-K Mounting flange, plastic

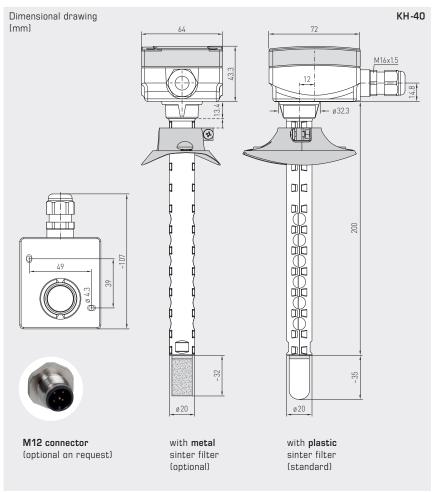








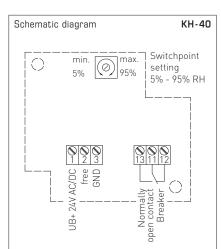
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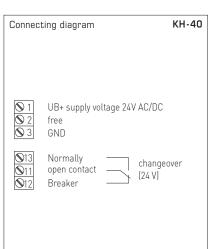














<b>HYGR</b> ASREG	S® KH-40	Duct hygrostate	s and humidity sensors	(± 2.0 %), <i>Pre</i>	emium		
Type/WG01		Setting Range Humidity	Output	Steps	Display	Item No.	Price
KH-40							
KH-40W LCD		595% RH	1 x changeover contact	one-step		1202-3065-0221-000	195,61 €
Optional:		ole connection with <b>M12 connector</b> according to DIN EN 61076-2-101 ortened protective tube <b>PLEUROFORM</b> <sup>TM</sup> , NL = 100 mm				on request on request	

ACCESSORIES			
SF-M	<b>Metal</b> sinter filter, $\emptyset$ 16 mm, L = 32 mm, exchangeable, stainless steel <b>V4A</b> (1.4404)	7000-0050-2200-100	45,34 €