

Patented quality product (pro-dynamic cross convection patent no. DE 10 2012 015 726.6)

The condensation control switch HYGRASREG® KW with terminal box enclosure made of impact-resistant plastic and with an enclosure cover with quick-locking screws or the cost-effective HYGRASREG® KW-SD with snap-on lid is installed on cooling ceilings, on cooling /cold-water piping or on cooled surfaces and is designed to prevent the formation of condensation.

It reliably detects formation of dew by means of its humidity and temperature sensor (no conductivity measurement) and, thanks to its measuring method, pro-dynamic cross convection, yields an exact measurement result (with LED status indicator).

Dew point temperature is that temperature at which air reaches the state of saturation and water vapour starts to condensate. The KW condensation control switch can be operated as a monitor on cooling ceilings or pipes so that the switching output is activated when dew builds up on the cooling ceilings of the property to be monitored and e.g. a heating system is started, or other actuators are initiated.

TECHNICAL DATA						
Power supply:	24V AC (±20° 1536V DC	24V AC (±20%) 1536V DC				
Switchpoint:	арргох. 93% г	.H. (permanently set)				
Power consumption:		< 1.1 VA / 24 V DC < 2.2 VA / 24 V AC				
Output signal:	potential-free (potential-free changeover contact (24V), 1A ohmic load				
Process connection:	300 mm, for pi	endless metal strap with metal tightener, 300mm, for pipes up to 3" diameter (included in the scope of delivery)				
Electrical connection:	0.14 - 1.5 mm²	² , via terminal screws				
Enclosure:		al polyamide, 30% glass-globe-reinforced, white (similar to RAL9016), with snap-on lid, with quick-locking screws, (slotted/Phillips head combination) enclosure cover is transparent!				
Enclosure dimensions:	KW-xx-SD KW-xx	72 x 64 x 37.8 mm (Tyr 01) 72 x 64 x 43.3 mm (Tyr 1)				
Cable gland:		M 16 x 1.5; including strain relief, exchangeable, max. inner diameter 10.4 mm				
Mounting:	so that no con	The mounting position should be selected so that no condensate can enter the sensor system in the event that condensation forms!				
		KW/KW-SD with strap for direct mounting on pipes or for direct mounting on flat surfaces (e.g. walls, ceilings)				
	KW-external/KW-SD-external with detached sensor head (cable length KL = 1.5 m) for mounting on pipes					
Protection class:	III (according t	III (according to EN 60730)				
Protection type:	KW-xx-SD KW-xx	IP 43 (according to EN 60529) IP 65 (according to EN 60529)				
Standards:		CE-conformity, electromagnetic compatibility according to EN 61326, EMC Directive 2014/30/EU				
FUNCTION	if the switchpo and opens (con	ut is triggered (contact 13-11 closed) oint (93% r.H.) is not reached ntact 12-11 closed) in the event of a fault condensation).				
	LED short pulses = relay active → switchpoint not reached ACTUAL humidity < 93% r.H. (no condensation)					
		es = - switchpoint exceeded dity > 93% r.H. (condensation)				

HYGRASREG® KW-SD — Condensation control switches including strap,, Standard HYGRASREG® KW-SD-external — Condensation control switches with detached sensor head, Standard

Type/WG01	Switchpoint Humidity	Output Humidity	Mounting	item No.
KW-SD			Sensor internal	IP43
KW-W-SD	са, 93% г.Н.	Changeover contact	for direct mounting on pipes, for direct mounting on flat surfaces	1202-1075-0001-020
KW-SD-external			Sensor external	IP43
KW-W-SD EXTERN	са. 93% г.Н.	Changeover contact	for mounting on pipes	1202-1075-0001-040

HYGRASREG® KW — Condensation control switches including strap, *Premium*HYGRASREG® KW-external — Condensation control switches with detached sensor head, *Premium*

Type/WG01	Switchpoint Humidity	Output Humidity	Mounting	Item No.
KW			Sensor internal	IP65
KW-W	са. 93% г.Н.	Changeover contact	for direct mounting on pipes, for direct mounting on flat surfaces	1202-1025-0001-020
KW-external			Sensor external	IP 65
KW-W EXTERN	са. 93% г.Н.	Changeover contact	for mounting on pipes	1202-1025-0001-040