



RAF/M

Hygrostat, electronic

Measuring size: rel. humidity

Output: Relay

Highlights: easy-to-install surface-mounted housing



Description

The electronic hygrostat RAF/M measures the relative humidity 0...100% r.H. in the ambient air by a capacitive sensor. For further processing, it provides a change-over contact whose switching threshold 5...95% r.H. can be adjusted by a potentiometer. The hygrostat has a 2-digit LED display to show the relative humidity and the set threshold. If the threshold is exceeded, the relay is activated and the display flashes. The humidity sensor is protected against contamination by a screw-sintered filter.

Technical Specifications

Measurement range r.H.	0-100% r.H.
Accuracy humidity	±3% r.H. (30-70% r.H., else ±5% r.H., at 20°C)
Long term stability	±1%/year
Sensor protection	screwable stainless steel sinter filter
Flow rate	< 2 m/s
Supply voltage	24 V AC/DC (±5%)
Current consumption	max. 30 mA at 24 V DC
Alarm output	1 x potential-free change-over contact, 48 V, 1 A
Switching Hysteresis Relay	3%
Electrical connection	screw terminals max. 1,5 mm ²
Housing	Polycarbonate PC UL 94 V0 with hinge locks, color signal white similar to RAL 9003
Cable gland	PG11 high-strength cable gland with strain relief
Display	2-digit LED display for visualization of actual value and limit setting / exceeded
Material	Protection tube: stainless steel V2A
Dimensions	Housing: L 89 x W 80 x H 47 mm, Protection tube: Ø 16 x 40 mm
Protection type	Housing/electronic: IP65, Sensor: IP30
Protection class	III
Working range r.H.	0...98% r.H. in contaminant-free, non-condensing air
Working temperature	0...+50°C
Storage temperature	-20...+50°C
Installation	screw fastening
Approvals	CE, EAC, RoHS



Variants

Article Number		
Supply voltage	Output r.H.	Version
RAF/M-1R		
24 V AC/DC	change-over contact	with display

Accessories

SB/E

Snap-on mounting for DIN rails





Dimensional Drawing

