



PROSWEDE^{EL}^{AB}

"Vår kunskap – Din styrka"

Baragatan 11
212 28 Malmö
Sweden



RHV-1

EN

Hygrostat

4056-02VJ057 Rev: 1A4



Warning!

The device is constructed to be connected into 1-phase main and must be installed in accordance with regulations and norms applicable in a particular country. Installation, connection and setting can be done only by a person with an adequate electro-technical qualification which has read and understood this instruction manual and product functions. The device contains protections against over-voltage peaks and disturbing elements in the supply main. Too ensure correct function of these protection elements it is necessary to front-end other protective elements of higher degree (A,B,C) and screening of disturbances of switched devices (contactors, motors, inductive load etc.) as it is stated in a standard. Before you start with installation, make sure that the device is not energized and that the main switch is OFF. Do not install the device to the sources of excessive electromagnetic disturbances. By correct installation, ensure good air circulation so the maximal allowed operational temperature is not exceeded in case of permanent operation and higher ambient temperature. While installing the device use screwdriver with approx. 2 mm. Keep in mind that this device is fully electronic while installing. Correct function of the device is also depended on transportation, storing and handling. In case you notice any signs of damage, deformation, malfunction or missing piece, do not install this device and claim it at the seller. After operational life treat the product as electronic waste.

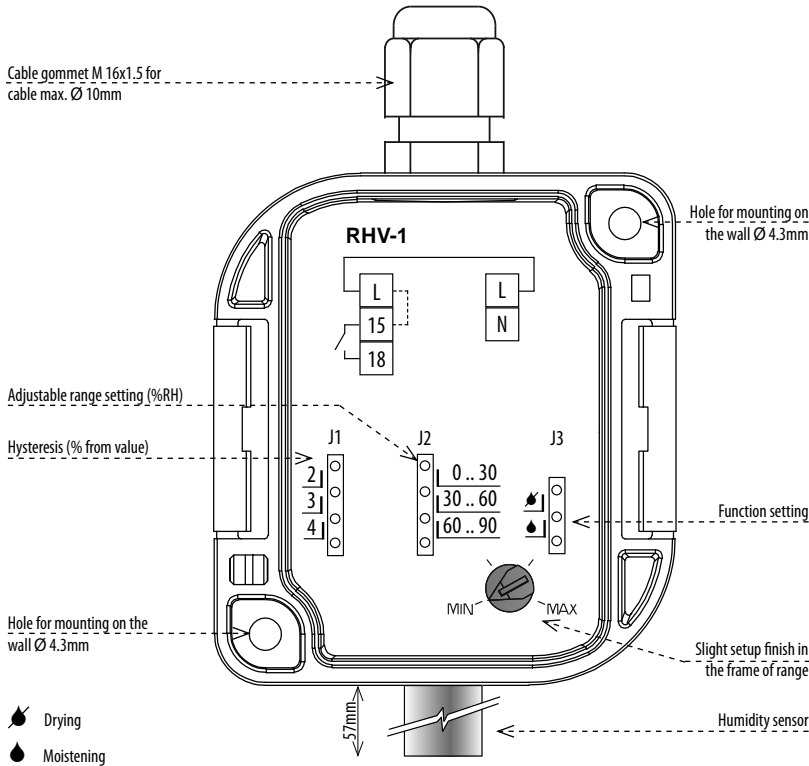
Characteristics

- single exterior hygrostat for monitoring and regulation of humidity in the and demanding environments (humid and contaminated, aggressive and defective, industrial workshops, washing rooms, green-houses, cellars and cooling boxes...)
- external version in IP65, box for mounting on the wall
- built-in hygro-sensor is integrated in the device
- two functions adjustable by jumper: moistening and drying
- 3 adjustable (by jumper) levels of hysteresis
- supply voltage 230 V AC
- potentialless NO contact 12 A/AC1 switching

Note: Device is supplied with jumper L-15 (3-wire connection). For the correct function of device is necessary sensor-side down device mounting.

Technical parameters	RHV-1
Supply	
Supply terminals:	L - N
Supply voltage:	AC 230 V / 50..60 Hz
Tolerance of supply voltage:	- 15% .. +10%
Input (apparent/loss):	max. 6 VA / 0.7 W
Setting function	by jumper J3
Function -  :	moistening
Function -  :	drying
Set. the scale of rel. humidity	by jumper J2
- range 1:	0 ... 30 % RH
- range 2:	30 ... 60 % RH
- range 3:	60 ... 90 % RH
Slight setting of rel. humidity:	potentiometer
Hysteresis	2, 3, 4 % from value
Hysteresis setting:	by jumper J1
Output	
Output contact:	1 x NO (AgSnO ₂)
Rated current:	12 A / AC1
Switching output:	3000 VA / AC1, 384 W / DC
Peak current:	30 A / < 3 s
Switched voltage:	250 V AC / 24 V DC
Min. switching output:	500 mW
Mechanical life:	3 x 10 ⁷
Electrical life:	0.7 x 10 ⁵
Other information	
Operation temperature:	-30 .. +60 °C
Storing temperature:	-30 .. +70 °C
Electrical strength:	4kV (supply - output)
Operation position:	always sensor - side down
Protection degree:	IP65
Overvoltage category:	III.
Pollution level:	2
Max. cable size (mm ²):	max.1x2.5, max. 2x1.5 / with sleeve max.1x2.5
Suggested power-supply cable:	CYKY 3x2.5 (CYKY 4x1.5)
Dimensions:	153 x 62 x 34 mm
Weight:	148 g
Standards:	EN 60730-2-9, 61010-1

Device description



Cable grommet M 16x1.5 for cable max. Ø 10mm

Hole for mounting on the wall Ø 4.3mm

Adjustable range setting (%RH)

Hysteresis (% from value)


Function setting


Hole for mounting on the wall Ø 4.3mm

Slight setup finish in the frame of range

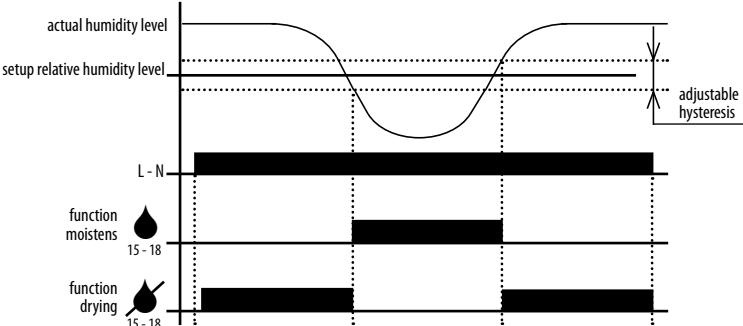
Humidity sensor

57mm

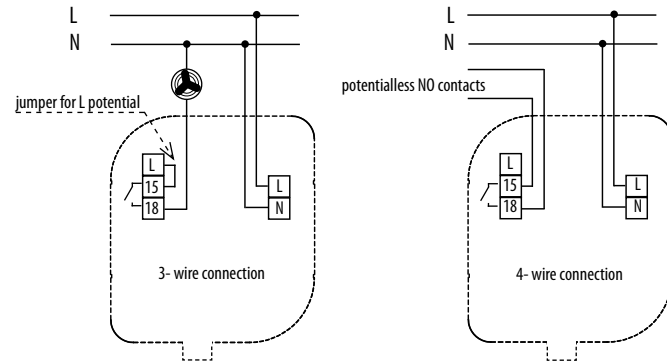
 Drying



















 Moistening

Function



Connection



Type of load	 cos φ ≥ 0.95					 HAL 230V			
	AC1	AC2	AC3	AC5a uncompensated	AC5a compensated	AC5b	AC6a	AC7b	AC12
mat. contacts AgSnO ₂ contact 12A	250V / 12A	250V / 3.7A	250V / 2.2A	230V / 2.2A (510VA)	230V / 2.2A (510VA) max. input C=14uF	1120W	x	250V / 2.2A	250V / 7.5A
Type of load									
	AC13	AC14	AC15	DC1	DC3	DC5	DC12	DC13	DC14
mat. contacts AgSnO ₂ contact 12A	250V / 4.5A	250V / 4.5A	250V / 4.5A	24V / 12A	24V / 4.5A	24V / 3A	24V / 12A	24V / 1.5A	24V / 1.5A