

ADS-RH-230 | Relative humidity sensor 230V

ADS-RH-24 is used to control ventilation, heat recovery and air conditioning systems. It can also be used for relative humidity (RH) measuring in industry, warehouses and likewise.



- > relative humidity measuring
- > 0 – 10V analog output + relay output
- > fully calibrated
- > good long-term stability
- > easy wall mounting

Description:

ADS-RH is a capacitive relative humidity (RH) sensor. It is equipped with a 0 – 10V analog output and with an output relay with adjustable switching level. The measurement is performed periodically after about 7s.

Based on these measurements it is possible to directly control the ventilation, air conditioning and heat recovery units.

Table of parameters:

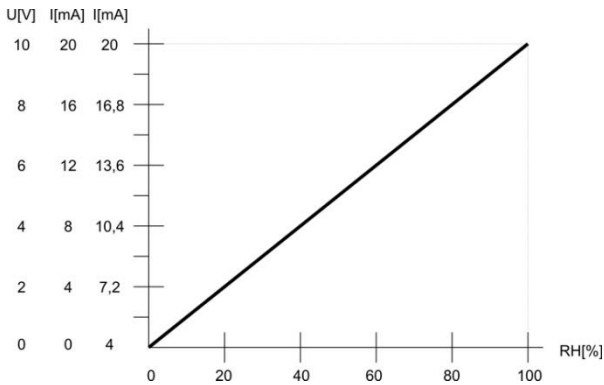
Parameter	Value	Unit
Power supply 50/60Hz	230	V AC
Input	max. 1	VA
Measuring range	0 – 100 %	RH
Resolution	0,5 %	RH
Accuracy	±4 % in range of 20 – 80 % RH	
Measurement period	7	s
Voltage output	0 – 10	V DC
Current output 1	0 – 20	mA
Current output 2	4 – 20	mA
Switched voltage	max. 250	V AC
Switched current	max. 5	A
Switching hysteresis	1,5	V
Working temperature	0 to +40	°C
Working humidity	0 to 100 %	RH
Storage temperature	-20 to +60	°C
Dimensions	125x83x37	mm

Explanation of abbreviations and technical terms can be found on our website in the [Glossary](#) section.

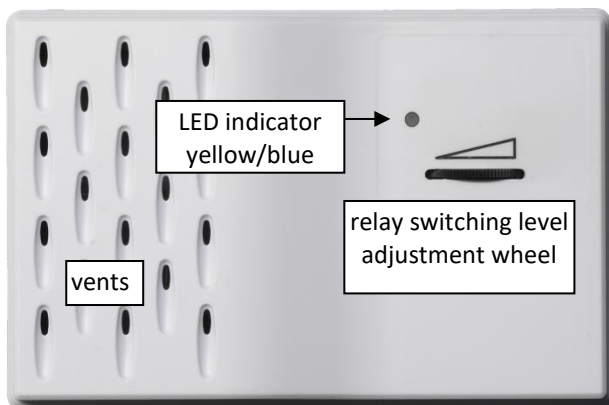


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Output voltage dependence graph:



Front view:



Relay switching level adjustment wheel:

- turn to the left to decrease the relay switching level of RH, the relay will switch at lower RH level

- turn to the right to increase the relay switching level of RH, the relay will switch at higher RH level

To avoid fast relay switching around the adjusted level the hysteresis of 15% is added automatically.

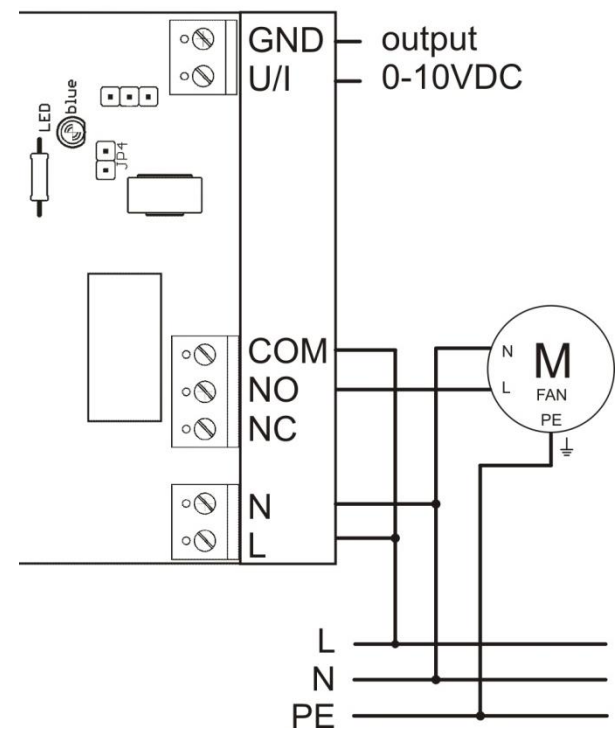
LED indicator:

- continuous light = relay contacts closed
- blinking = relay contacts opened

LED indicator settings - jumper JP4:

- JP4 fitted = blue LED enabled.
- JP4 not fitted = blue LED disabled.

Connection example:



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Jumper JP5 voltage/current output setting:

Jumper in position **U** = voltage output.

Jumper in position **I** = current output.

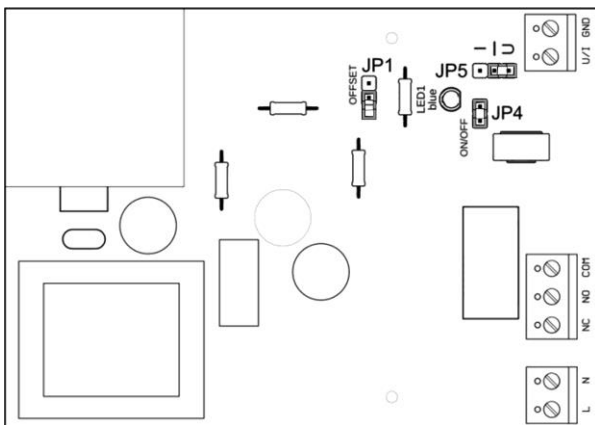
Jumper JP1 current output setting:

JP1 fitted = output current range 4-20mA.

JP1 not fitted = output current range 0-20mA.

Note: if the voltage output is selected, JP2 must not be shorted; otherwise there will be an offset to the voltage output.

On the PCB jumpers location:



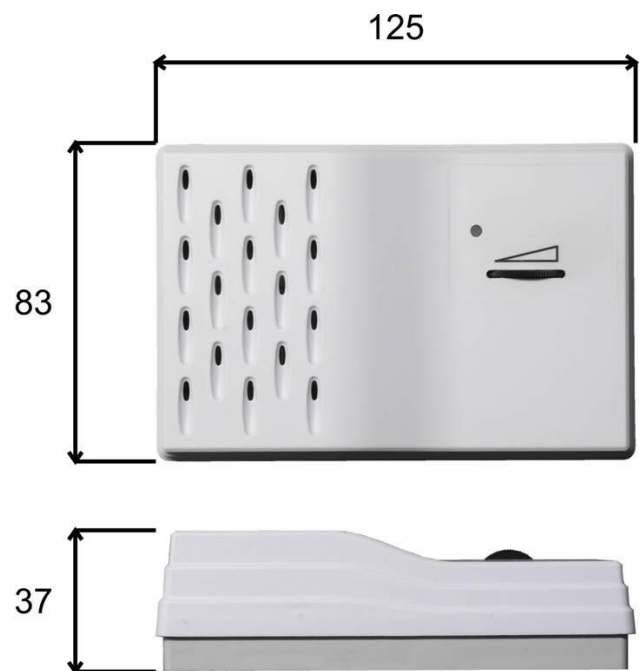
Way to use

The product is intended for indoor use only. You can read the [recommendations for sensor placement](#) on our web pages.

What to do at the end of lifetime of this product

Discard the product in according to the electronic waste law and the EU directives.

Dimensions (mm):



The producer reserves the right of technical changes in order to product improvements its properties and functions without previous notice.

