

NL-ECO-RH | Relative humidity sensor

Room sensor NL-ECO-RH is used to monitor the air quality inside buildings and effectively control ventilation (HVAC) systems according to current levels of air pollution. The sensor measures the relative humidity (RH) in air. It is suitable for living rooms, bathrooms, warehouses, ateliers etc.

- > measures relative humidity in air
- > LED indication with automatic turn off according to ambient light (at night)
- > analog voltage output 0-10V
- > output relay NO/C
- > maintenance or calibration not required during operation
- > long life and stability



Measurement of the relative humidity is based on the principle of capacitive polymer sensor.

The sensor has one analog output for the actual concentration of RH.

Ventilation, air conditioning and heat recovery units can be directly controlled based on the output signal of the sensor in very efficient way.

The trigger level of RH output relay can be set by a rotary element.

Current air quality can be easily checked by three LED indicators. When ambient light is dimmed, the indicators turn off automatically to not disturb you when falling asleep.

Parameter	Value	Unit
Supply voltage range	12 – 35	V DC
	12 – 24	V AC
Power consumption	max 1,5	W
RH measuring range	0 – 100 %	RH
RH accuracy 0 – 90 %	± 5 %	RH
RH accuracy 90 – 100 %	± 6 %	RH
RH switching hysteresis	5 %	RH
Voltage output	0 – 10	V DC
Max. switching voltage	250/30	V AC / V DC
Max. switching current	5/5	A AC / A DC
Working humidity non condensing	0 – 90 %	RH
Working temperature	0 to +50	°C
Storage temperature	-20 to +60	°C
Expected lifetime	min. 10	years
Ingress protection	IP20	
Dimensions	90x80x31	mm

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

