

NL-ECO-RH-230 | Relative humidity sensor 230V

Room sensor NL-ECO-RH-230 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) of air. Sensor is suitable for bathrooms, kitchens, restaurants, laundries and wherever you need to monitor and control air humidity.

- > measures relative humidity
- > LED indication with automatic turn off at night
- > analog voltage output 0-10V
- > output relay NO/C
- > maintenance or calibration not required during operation
- > long life time and stability



Description

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 humidity 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.

Technical data

Parameter	Value	Unit
Power supply	230	V AC
Power consumption	max 1,5	W
RH measuring range	0 – 100 %	RH
RH accuracy ¹⁾ 0 – 90 %	± 3 %	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

¹⁾ At ambient temperature of 25 °C.

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

