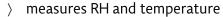




Room sensor NLII-RH is used to monitor the air quality inside buildings and power control ventilation (HVAC) systems according to current levels of air pollution. The sensor measures the relative humidity (RH) and temperature (T). It is suitable for living rooms, bathrooms, warehouses, ateliers etc.



- > 2x analog voltage/current output
- > 2x output relay 2x NO/C
- > cascade switching
- > not required maintenance during operation
- long life and stability



Type of sensor	RH output	T output	Relay
NLII-RH -R	0-10 V/0-20 mA/4-20 mA ¹⁾	-	1x switching contact
NLII-RH +T	0-10 V/0-20 mA/4-20 mA ¹⁾	0-10 V/0-20 mA/4-20 mA ¹⁾	-
NLII-RH +T-R	0-10 V/0-20 mA/4-20 mA ¹⁾	0-10 V/0-20 mA/4-20 mA ¹⁾	2x NO/C

¹⁾ It is possible to select by jumper type of analog output.

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

The sensor has built-in two separate analog outputs - one for the actual concentration of T and the other for the current relative humidity.

If the sensor contains 2 relays can be set two switching modes: standard (always one relay switched according to one quantity), a cascade mode (according to a selected quantity switch two relays with different levels of switching).

Cascade switching, for example, can be used to switch power air conditioning units. The two rotary switches can be independently set the level at which the corresponding relay switches.

Sensor can efficiently manage ventilation and heat recovery units, based on current air quality.

By three LED indicators can be easily checked the current air quality. Preferred eco level means good indoor air quality needed to achieve a sense of wellbeing and at the same time can reduce energy costs for heating or air conditioning.

Based on these measurements can be directly controlled ventilation, air conditioning and heat recovery units in an efficient manner.

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Parameter	Value	
Supply voltage range	14 V – 40 V DC or 18 V – 30 V	
Average consumption	0,5	W
Ingress protection	IP20	
RH measuring range	0 – 100 %	RH
RH accuracy 20 - 80 %	± 3 %	RH
RH accuracy 0 – 100 %	±6%	RH
RH switching hysteresis	5 %	RH
T measuring range	0 – 40	°C
T accuracy	± 0,4	°C
T witching hysteresis	0,5	°C
Max. switching voltage	250/30	V AC / V DC
Max. switching current	5/5	A AC /A DC
Working humidity	0 – 90 %	RH
non condensing	0 - 30 70	Kil
Working temperature	0 to +50	°C
Storage temperature	-20 to +60	°C
Expected lifetime	min. 10	years
Dimensions	90x80x31	mm

