

NLII-RH+T-RS485 | Combined RH/temperature sensor with RS485

Room sensor NLII-RH is used to monitor the air quality inside buildings and 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.

- > measures RH and temperature
- > RS485 bus communication with Modbus RTU protocol
- > maintenance during operation is not required
- > long life and stability



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

The sensor provides two outputs over the RS485 bus - one for the actual temperature and the other for the actual relative humidity.

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

The current air quality can easily be determined by looking at the three LED indicators. The *eco* level means good indoor air quality that is needed to achieve a sense of well-being and at the same time optimal energy costs for heating or air conditioning. For information on the communication protocol, use the document [NLII-Modbus-komunikace](#).

Parameter	Value	Unit
Supply voltage range	12 – 35	V DC
	12 – 24	V AC
Average consumption	0,2	W
RH measuring range	0 – 100 %	RH
RH accuracy 0 – 90 %	± 5 %	RH
RH accuracy 90 – 100 %	± 6 %	RH
T measuring range	0 – 50	°C
T accuracy	± 0,4	°C
Working temperature	0 to +50	°C
Working humidity non condensing	0 – 90 %	RH
Storage temperature	-20 to +60	°C
Expected lifetime	min. 10	years
Ingress protection	IP20	
Dimensions	90x80x31	mm
RS485 bus		
A-B voltage difference	max 5	V
A-B common input voltage	-7 to 12	V
A-B common output voltage	max 3	V

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

