

## NLB-CO2+RH+T-5-IQRF | Combined CO<sub>2</sub>/RH/T battery sensor with IQRF

Sensor is used to continuously monitor air quality inside buildings. The sensor measures concentration of carbon dioxide (CO<sub>2</sub>), relative humidity (RH) and temperature (T). It can be effectively used in offices, classrooms, shopping centers, homes, restaurants, fitness centers, commercial buildings, etc.

- › measures CO<sub>2</sub>, RH and temperature
- › communication over IQRF network
- › maintenance during operation is not required



The measuring of CO<sub>2</sub> is based on the principle of infrared radiation attenuation dependence on the CO<sub>2</sub> concentration in the air (NDIR). Built-in auto-calibration function ensures very good long term stability. Measurement of relative humidity is based on the principle of capacitive polymer sensor. CO<sub>2</sub>, RH and temperature outputs are available via IQRF interface.

The current battery state can easily be determined by looking at the LED indicator.

For detailed information about IQRF, use the document [NLB-IQRF-Communication](#). For information on the communication protocol, use the document [NLB-Modbus-Communication](#).

Parameter	Value	Unit
Supply 2xAAA	1,5	V
Battery life	24	months
CO <sub>2</sub> measuring range <sup>1)</sup>	400 – 2000/5000	ppm
CO <sub>2</sub> accuracy	± 35 ppm ± 5 % of reading	
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 humidity non condensing	0 – 95 %	RH
Working temperature	0 to +50	°C
Storage temperature	-20 to +60	°C
Expected lifetime	min. 10	years
Ingress protection	IP20	
Dimensions	90x80x31	mm
Communication period	adjustable	minutes

<sup>1)</sup> The range 2000/5000 ppm of CO<sub>2</sub> is user selectable.

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

