

NLB-CO2+RH+T-5-SX | Combined CO₂/RH/T battery sensor with SIGFOX

Sensor is used to continuously monitor air quality inside buildings. The sensor measures concentration of carbon dioxide (CO₂), relative humidity (RH) and temperature (T). It can be effectively used in offices, classrooms, shopping centers, homes, restaurants, fitness centers, commercial buildings, etc.

- › measures CO₂, RH and temperature
- › communication via wireless SIGFOX technology
- › maintenance during operation is not required



The measuring of CO₂ is based on the principle of infrared radiation attenuation dependence on the CO₂ 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. CO₂, RH and temperature outputs are available via SIGFOX communication.

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

For detailed information about IQRF, use the document [NLB-Sigfox-Communication](#).

Parameter	Value	Unit
Power supply - 2xAA	1,5	V
Battery life	24	months
CO ₂ measuring range ¹⁾	400 – 2000/5000	ppm
CO ₂ 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
¹⁾ The range 2000/5000 ppm of CO ₂ is user selectable.		

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

