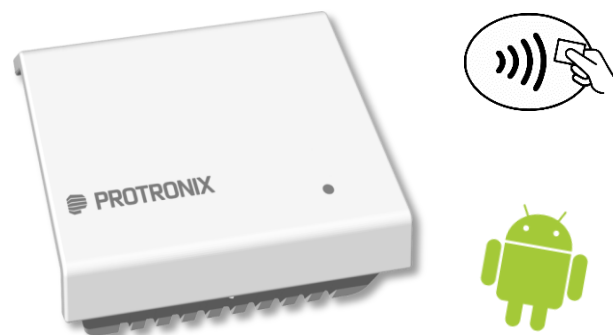


## NLB-CO2+RH+T-5-NFC | Combined CO<sub>2</sub>/RH/T battery sensor with data recording

Sensor is used to analyze and monitor air quality inside buildings. Based on actual measured values it is possible to design / set ventilation (HVAC) system exactly according to local conditions and air pollution. The sensor measures concentration of carbon dioxide (CO<sub>2</sub>), relative humidity (RH) and temperature (T). It is suitable for offices, homes, schools, shopping centers, restaurants, fitness centers, commercial buildings, etc.



- › optional recording of CO<sub>2</sub>, RH and T
- › recording period 1 – 60 minutes
- › NFC communication with smartphone
- › application for Android
- › possibility of export the data to MS EXCEL
- › maintenance during operation is not required
- › long life and stability

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.

The record of measured values of CO<sub>2</sub>, relative humidity and temperature can be read in mobile application „[Protronix NLI](#)“ which is free to download in Google Play store. The app uses NFC interface to communicate with the sensor.

Recorded data can be used for evaluation of actual indoor air quality and for following design of optimal solution of ventilation for that particular space. Furthermore it is possible to analyze effects of ventilation and eventually adjust setting of existing ventilation.

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

Parameter	Value	Unit
Power supply - 2xAA	1,5	V
Battery life <sup>1)</sup>	24	months
Recording length <sup>1)</sup>	14	days
CO <sub>2</sub> measuring range	400 – 5000	ppm
CO <sub>2</sub> accuracy <sup>2)</sup>	± 40 ppm ± 4 % 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 <sup>3)</sup>	± 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

<sup>1)</sup> For recording period of 10 min, battery life is dependent on the set recording period.

<sup>2)</sup> Valid for 15 – 35°C and 0 – 80 %.

<sup>3)</sup> Typical accuracy in range 16 - 40°C.

