NLB-CO2+RH+T-5-IQRF | Combined CO_2/RH/T battery sensor with IQRF

Sensor is used to monitor air quality inside buildings and control ventilation (HVAC) systems according to current levels of air internal air quality. The sensor measures concentration of carbon dioxide (CO_2), 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_2, RH and temperature
〉 communication over IQRF network
〉 maintenance during operation is not required

The measuring of CO_2 is based on the principle of infrared radiation attenuation dependence on the CO_2 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_2, RH and temperature outputs are available via IQRF interface. Sensor can efficiently manage ventilation and heat recovery units, based on current air quality.
The current battery state can easily be determined by looking at the LED indicator.

Parameter	Value	Unit
Supply voltage	2xAA	
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 20 – 80 %	± 3 %	RH
RH accuracy 0 – 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.