



The NLB-CO2+RH+T-5-MRF is a wireless room sensor and is intended for continuous monitoring of indoor air quality and for effective control of ventilation (HVAC) systems according to the current air quality. The sensor monitors the concentration of carbon dioxide (CO₂), relative humidity (RH) and air temperature (T). It is used in households, offices, schoolrooms, shopping centers, restaurants, fitness centers, commercial buildings, etc. for efficient control of ventilation systems.



- Monitors CO₂, RH and T
- > Wireless communication with a receiver
- > Battery powered
- > Easy installation
- > Maintenance during operation is not required
- > Long battery lifetime

Description

The measuring of CO₂ is based on an optical principle (NDIR) using advanced optical chamber. Built-in autocalibration function ensures excellent long term stability and accuracy.

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

Individual quantities (CO₂, RH, T) are available on the receiver either via RS485 serial interface with Modbus communication or via two analog outputs (CO₂ and RH).

The sensor efficiently controls ventilation systems, based on current room air quality.

Low battery power is indicated by a built in LED indicator.

Explanation of abbreviations and technical terms can be found on our website in the Glossary section.

Technical data

Value	Unit
1,5	V
24 ¹⁾	months
400 – 2000/5000 ²⁾	ppm
± 35 ppm ±5 % o	of reading
0 – 100 %	RH
± 5 %	RH
± 6 %	RH
0 – 50	°C
± 0,45	°C
0 – 95 %	RH
0 to +50	°C
-20 to +60	°C
min. 10	years
IP20	
90x80x31	mm
1 to 35	minutes
	1,5 24 ¹⁾ 400 - 2000/5000 ²⁾ ± 35 ppm ±5 % o 0 - 100 % ± 5 % ± 6 % 0 - 50 ± 0,45 0 - 95 % 0 to +50 -20 to +60 min. 10 IP20 90x80x31

original batteries.

Protronix s.r.o., Pardubická 177, Chrudim 537 01, Czech Republic

www.protronix.cz www.careforair.eu



Range up to 5000 ppm ${\rm CO_2}$ is available only via serial interface.