

NL-MRF-RX-CO2+RH | Receiver for wireless CO₂/RH sensors

The receiver is used for receiving and processing measured data from wireless air quality sensors. One or more battery powered air quality sensors can be paired with the receiver.

Received data from sensors are converted to two independent analog outputs (one for CO₂ and second for RH). Complete data from all individual sensors are available via the RS485 serial line using the Modbus protocol. The receiver also has a pair of relays with NO-C-NC contact with the possibility of independent setting of relay trigger level for each monitored quantity by rotary selector. Set of wireless sensors consists of at least one or more battery powered wireless sensors and one receiver.

- › wirelessly receives measured values from up to 10 paired MRF sensors
- › 2x analog voltage/current output
- › 2x output relay, NO-C-NC contact
- › easy installation on a DIN rail
- › does not require maintenance during operation
- › long-term service life and stability

Description

The receiver in connection with wireless sensors is used to control ventilation and heat recovery units. Based on the current air quality, the receiver then efficiently controls the ventilation systems.

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



For information on the communication protocol, use the document [NL-MRF-RX-modbus-communication](#).

Technical data

Parameter	Value	Unit
Power supply	230	V AC
Power consumption	max. 2	W
Voltage outputs ¹⁾	2x 0 - 10	V DC
Current outputs ¹⁾	2x 0 - 20 / 4 - 20	mA
Max. switching voltage	250	V AC
Max. switching current	16	A AC
CO ₂ relay hysteresis	100	ppm
RH relay hysteresis	5	% RH
Working humidity non condensing	0 - 95 %	RH
Working temperature	0 to +50	°C
Storage temperature	-20 to +60	°C
Expected lifetime	min. 10	years
Dimensions	110x62x53	mm
¹⁾ The desired type of analog output can be selected with jumpers.		

