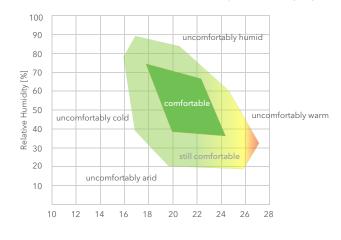# Room climate and health

The room climate describes the sum of the influences on the comfort of persons while being indoors. It is an essential component of the quality of living conditions and comfort, and is determined mostly by the air temperature and humidity, as well as the CO_2 value.

The climate in office rooms, medical practices and classrooms has a critical impact on the productive efficiency and health of employees. An improvement of the room climate can increase the productivity by up to 15 %, while at the same time decrease the risk of respiratory diseases dramatically.

The Technical University of Berlin found out that the risk of infection by viruses such as Corona or Influenca can be lowered by venting. They advise using CO_2 measurement devices like the RM 100 to determine when to vent.

Measures to improve the room climate can to some extent be taken quickly and straightforward, e.g. by frequent venting and vegetating the office room. The challenge is to measure the "thick air" objectively, and most of all: to be aware of it. The lingering decrease of air quality is often not perceived, although its negative impact is there.

The **room climate monitor RM 100** is putting things right. It measures air temperature and humidity as well as the CO_2 value at the same time. The measurement values are easily readable due to the large, illuminated display. In addition, the CO_2 level in the air is indicated via three LEDs as good, average or bad. When the limit is exceeded, the RM 100 will raise an acoustic alarm – then it´s high time to vent.

Room climate monitor RM 100

Applications:

- Reduction of risk of virus infections
- Objective evaluation of the room climate
- Preservation and increase of employees´ power of concentration and productive efficiency
- Increase of comfort and satisfaction

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Room climate monitor

RM 100 Room climate monitor
objective evaluation of the room climate

- Large, illuminated display
- Measurement of air temperature, humidity and CO_2 value
- Alarming when limit is exceeded

Technical Data

Measurement range CO_2	0 … 3,000 ppm
Measurement range temp.	0 °C … +50 °C
Measurement range humidity	20 % … 90 % rH
Operation temperature	0 °C … +50 °C
Storage temperature	-20 °C … +60 °C
Power supply	USB or 5V-Adapter (included)
Dimensions	137 x 99 x 29 mm
Weight	200 g
Certificate	Factory calibration certificate (CO_2: 0 ppm, 1,000 ppm and 3,000 ppm)

Type	Description	Part No.
RM 100	Room climate monitor	1348-0001