xylem

Breathe deeply - Virus-free

OBJECTIVE EVALUATION OF THE ROOM CLIMATE

- Reducing the virus load
- Increasing the productive efficiency
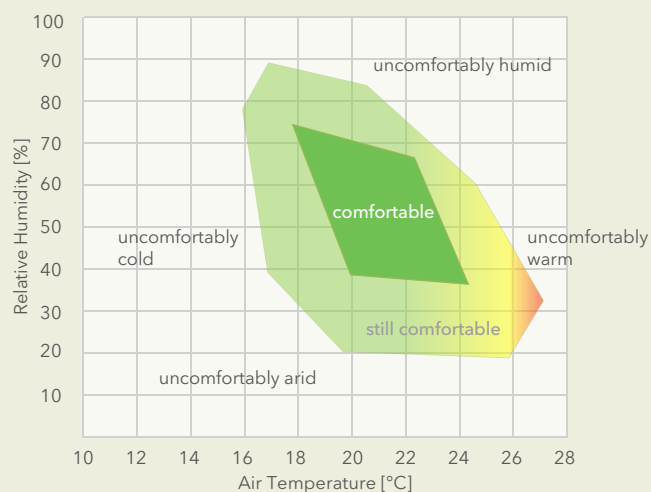- Measuring wellness

-ebro-

a **xylem** brand

Room Climate Monitor RM 100

Reducing the virus load

Frequent venting e.g. of classrooms, medical practices and offices reduces the virus load in the air dramatically. This lowers the risk of **diseases** such as Covid-19 and influenza. The **Technical University Berlin** found out that there is a correlation between the virus load and the CO_2 value in the air. Therefore, they recommend using devices such as the **RM 100** to determine, when to vent again.

Maintaining comfort

Temperature and humidity set narrow boundaries for the **comfort**. The room climate monitor **RM 100** shows both and helps creating optimal conditions.

Measuring wellness

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 **CO₂ value**. The room climate monitor **RM 100** measures these.

Room climate monitor RM 100 with clear measurement display and three LEDs indicating the CO_2 value in the air
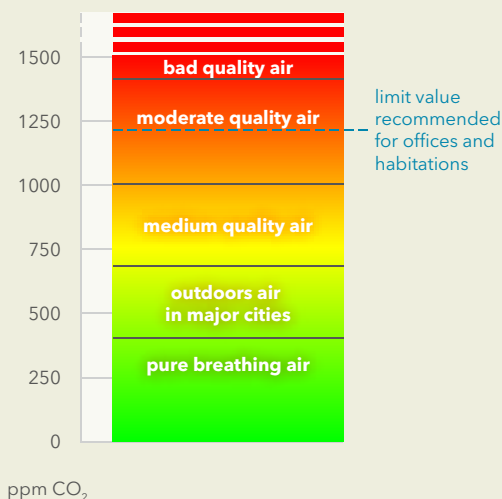
Evaluating the room climate

With an increasing CO_2 value, both the **productive efficiency** and the **coziness** decline, while the virus load rises.
The room climate monitor **RM 100** helps evaluating the quality of the room climate **objectively**.

Increasing the productive efficiency

The climate in office rooms 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 decreasing the risk of **respiratory diseases** dramatically. The room climate monitor **RM 100** helps to attain this goal.

Air quality depending on CO_2 value

1500	bad quality air
1250	moderate quality air	limit value recommended for offices and habitations
1000	
750	medium quality air
500	outdoors air in major cities
250	pure breathing air
0	

ppm CO_2

Detecting a bad atmosphere

Frequent venting and vegetating the office room improve the room climate **quickly and straightforward** to some extent. The challenge is to measure the CO_2 value 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** then sounds the alarm – but only if required. This way, excessive venting can be prevented, reducing **energy costs**.

Clear measurement display

The room climate monitor **RM 100** measures the air temperature and humidity as well as the CO_2 value. The measurements are clearly visible in the **large, illuminated display**. In addition, three **LEDs** indicate the CO_2 value in the air as good, medium or bad, respectively.

Acoustic Alarm

When the limit for the CO_2 value is exceeded, the room climate monitor **RM 100** will raise an **acoustic alarm** – then it´s high time to vent. This alarm tone can be muted permanently via the **MUTE-button**.

Technical Data:

Measurement range CO_2	0 … 3000 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

Calibration certificate

Every room climate monitor **RM 100** is shipped with a **certificate of calibration**. This is proof of the **accuracy** and **reliability** of your device.

How to order:

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

xylem
Let's Solve Water

Xylem Analytics Germany Sales
GmbH & Co. KG, ebro
Peringerstr. 10
85055 Ingolstadt
Germany

Phone +49 841 95478-0
Fax +49 841 95478-80
ebro@xylem.com
www.ebro.com