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# Intelligent solutions against the risk of infection

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Detmold-based electronics and automation specialist MSF-Vathauer Antriebstechnik is investing in new products and business units and thus also growing in the COVID-19 pandemic. The MSF-Vathauer Antriebstechnik team has developed modern and intelligent assistance systems for the healthcare sector and bundled them into an independent business unit. The resulting business unit stands for modern assistance systems for all missions that also help in everyday life.

This is how the intelligent Clean Air (CLAIR) system came into being. It is made up of the terms "CLEAN" (clean) and "AIR" (air). Whether a person falls ill with corona or not depends strongly on the infectious dose. In addition to droplets, aerosols have also been identified as carriers of viruses. They float in the air and are ingested by people. To avoid this, it is important to give special importance to air exchange. CO2 traffic lights and room air cleaners promote air quality and contribute significantly and continuously to reducing the viral load. The prerequisites are highly efficient and valid measuring devices that everyone can understand and interpret, as well as highly efficient filter technology in the room air purifiers.

## Modern technology for health

Hardly any other time like this one has shown us so clearly that good air is essential for our health, because clear and clean air gives us the security to breathe freely and not only stands for health but can also promote it. Clear air in the office, at school, in the waiting room and at home - with the smart CO2 traffic light "KAY" from the CLAIR system of Vathauer MedTech from now on very easy possible.

## Modern infection control "Made in Germany"

Wherever it is necessary to minimize the CO2 content and the viral load in the room and wherever many people come together in a confined or closed space, the smart CO2 traffic light "KAY" finds the ideal area of application. "KAY" comes from the CLAIR system that ensures clean air thanks to smart technology - a system with brains & foresight that ensures that airborne pathogens are less likely to spread.

## "KAY doctor" in action

Today, we present a user area in more detail and got into conversation with physiotherapist Mr. Claude Diening from the physiotherapy practice "Praevito" in Detmold about reasons for purchasing "KAY", advantages of the compact CO2 traffic light as well as the current situation in his professional field. Claude Diening, a health care professional from Lippe, decided to purchase several CO2 traffic lights because of many factors, such as safety, health assurance and customer satisfaction. All of these challenges cannot be dismissed out of hand, because where people are, there is a lot of breathing and often a lot and sometimes loud talking - and in closed rooms, the breathable air emitted in the process circulates for a long time.

As a result, the carbon dioxide concentration and the amount of aerosols in the indoor air rise steadily. In this way, pathogens such as viruses and bacteria can be further distributed. But to ventilate permanently is not the way to go, even in busy rooms such as waiting rooms treatment rooms or on the training floor. But when, how often and for how long should the rooms be ventilated? This is exactly what the CO2 traffic light "KAY" from Vathauer MedTech reliably indicates.

Physiotherapist Claude Diening: "I wanted to provide my customers, myself and my staff with a reliable way of monitoring ventilation - especially in these challenging times. And of course, I not only want to give my customers and patients a feeling of security, but also provide them with a trustworthy product that not only makes the already all too difficult daily routine easier, but also allows us to continue to carry out our profession in our premises as reliably as in the days before Corona."

Based on recent studies and new scientific findings, it has become clear that clear, clean air in enclosed spaces and those frequented by the public is essential to prevent the spread of viruses. What impact do these assessments have on your daily work?

Physiotherapist Claude Diening: "Especially in the medical and therapeutic field, we focus on basic hygiene and clear prioritization of health. Therefore, it is even more important to me that my customers and patients have a good and safe feeling when they enter my practice rooms as well as during waiting and treatment time. A basic ventilation routine is not always easy to implement in the day-to-day running of a practice, when staff changes, appointment pressure and stressful situations come into play. That's where a smart tool like the "KAY doctor" is extremely helpful and reliable, as it allows us to provide fresh air as needed."