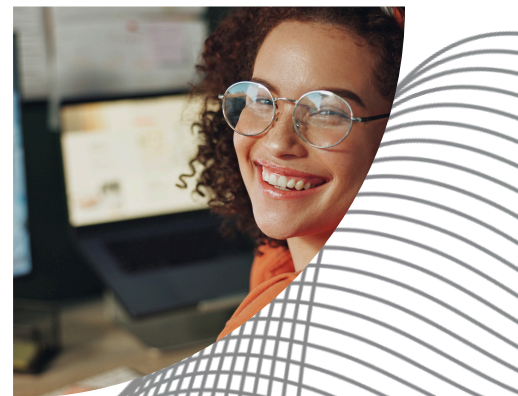


onework CORE

Maximum control Minimum effort



Advantages
Scientific findings
Solutions

Introduction

The modern working world is constantly evolving and places increasing demands on comfort, energy efficiency and flexible usage concepts. Companies need intelligent solutions to adapt their working environments to changing conditions while optimizing operating costs. One of the central challenges is the effective control of light, climate and air quality, which is crucial for both the well-being of employees and the efficiency of buildings.

onework CORE is a state-of-the-art control center that intelligently networks and automatically controls building functions. As a certified KNX device, it enables seamless integration into existing building automation systems and supports DALI-2 technology to ensure precise, on-demand control of lighting. This intelligent automation maximizes energy savings, optimizes working conditions and reduces operating costs.

Another decisive advantage of onework CORE is its flexibility. Whether in office buildings, industrial plants or public facilities - the system adapts dynamically to different usage scenarios and ensures ideal room conditions at all times. With the help of sensors and intelligent control algorithms, light intensity, temperature and air quality are continuously measured and adjusted in real time to achieve maximum efficiency.

In addition, onework CORE actively contributes to the implementation of sustainability goals by optimizing energy consumption and thus reducing the ecological footprint of buildings. Studies show that intelligent building control can reduce energy consumption by up to 30% without compromising occupant comfort or productivity. With onework CORE, companies receive a holistic solution for smart building automation that not only increases working comfort, but also ensures long-term cost reductions. Thanks to its simple integration, individual customization options and intelligent automation functions, onework CORE sets new standards for the control of workspaces and common areas.



Scientific findings



Energy efficiency and sustainability

Studies show that intelligent building control systems can reduce energy consumption by up to 30 % (source: Fraunhofer ISE). By controlling lighting and air conditioning according to demand, only as much energy is used as is actually required, reducing operating costs and protecting the environment.

Influence on productivity and well-being

According to a study by the Harvard T.H. Chan School of Public Health (2017), well-controlled room parameters such as light, air quality and temperature increase the cognitive performance of employees by up to 61%. An optimized indoor climate helps to reduce fatigue, increase concentration and improve overall job satisfaction.

Automation for a future-proof working world

According to the study “The Smart Workplace 2030” by Frost & Sullivan, the automation of buildings will lead to cost savings of up to 50% in facility management. Systems such as onework CORE enable automatic adjustment of lighting and room climate and significantly reduce manual effort.

The intelligent control center

onework CORE is a certified KNX control device that centrally controls lighting, air conditioning, air quality and sun protection. The system was developed for office buildings, industrial applications and smart buildings and ensures optimum use of space and maximum energy efficiency.

Main functions of onework CORE:



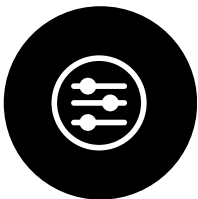
Central control for lighting, climate & air quality

onework CORE enables intelligent control of all relevant room parameters. The use of sensors and automation ensures that light, temperature and air quality are always optimally adjusted to the needs of the users.



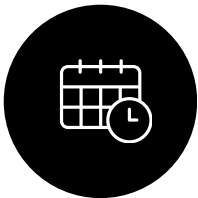
Seamless integration in KNX and DALI-2 systems

Thanks to full compatibility with KNX and DALI-2 protocols, onework CORE can be integrated into existing building management systems. This enables manufacturer-independent control of all connected devices and systems.



Automatic adaptation to ambient conditions

With the help of sensors for daylight, CO₂ values and temperature, onework CORE detects changes in the environment and automatically adjusts the control system. For example, the lighting is dimmed if there is sufficient daylight or the ventilation is adjusted if the CO₂ content in the room increases.



Scene and time control for greater efficiency

onework CORE allows you to create predefined scenarios for different usage situations. Whether meeting mode, concentration light or automatic night-time reduction - the control system adapts to the respective requirements and saves energy in the process.



Energy consumption analysis and optimization

Thanks to integrated analysis functions, onework CORE provides detailed insights into the energy consumption of lighting, heating and ventilation. Companies can use this data to take targeted optimization measures and efficiently implement their sustainability goals.

Advantages of onework CORE in the work environment

Energy savings & cost reduction

- Intelligent control reduces energy consumption by up to 30
- Demand-oriented lighting and climate control sustainably reduces operating costs
- Integration into smart building systems enables automated energy optimization

Improved working conditions & productivity

- Automatic adjustment of light, temperature & air quality for optimal comfort
- Increased cognitive performance thanks to ideal environmental conditions
- Less fatigue and higher concentration thanks to optimized air quality

Future-proof & scalability

- Compatible with KNX, DALI-2 and IoT technologies for maximum flexibility
- Scalable from small offices to complex smart buildings
- Customizable scenarios and user-friendly control via app or onework TOUCH



Conclusion

Intelligent building control for maximum efficiency



61%

cognitive performance
enhancement

50%

Cost savings

30%

Energy saving

The digital transformation of buildings is the key to an efficient, sustainable and future-proof working environment. onework CORE sets new standards here by enabling a manufacturer-independent control system that offers automated energy savings, increased user comfort and flexible scalability.

Companies that rely on intelligent control systems not only benefit from reduced energy costs, but also from improved working conditions that demonstrably increase the productivity and well-being of employees.

100%

With onework CORE, you get an intelligent, networked solution that makes buildings more efficient, more comfortable and more sustainable - a decisive step towards smart buildings and green offices.

Sources

- Energy efficiency through intelligent building control - [Frauenhofer ISE](#)
- Increase in cognitive performance through optimized indoor climate - [Harvard T.H. Chan School of Public Health](#)
- Cost savings through building automation - [The smart workplace 2030 von Frost & Sullivan](#)



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