⚡ onework

building better workplaces

KNX

♀ *Light*   🌡 *Temperature*   ≋° *Air quality*   ▤ *Glare protection*

⚡ onework CORE

With its cross-trade room automation, the **onework** CORE improves the quality of stay and energy efficiency of commercial properties. The **onework** CORE is a certified KNX device. It incorporates all devices and components available in the room into the automation of *light*, *temperature*, *air quality* and *glare protection*. Communication with the peripheral devices takes place exclusively via the KNX bus. Room automation can be overridden at any time, e.g. by a local push-button.

Automations

Light ♀ Light control is based on presence, includes daylight control and supports Human Centric Lighting (HCL) in accordance with DIN SPEC 67600 to improve performance.

Temperature 🌡 The **onework** COREs temperature control complements active heating and cooling systems by using window and sun protection elements.

Air quality ≋° The **onework** CORE monitors and regulates the air quality - either via automatic window control (window drive) or via instructions for manual ventilation.

Glare protection ▤ The blind control ensures a glare-free workplace with maximum visibility to the outside.

Areas of application

Office and administration buildings, schools and universities, industrial buildings, hospitals and retirement and nursing homes.

Manufacturer-independent

Developed on the basis of the KNX standard and can be used regardless of manufacturer.

Interdisciplinary

Enables communication between the electrical, ventilation and shutter and blind installation trades.

Energy efficient

Increases energy efficiency by integrating blinds and windows into the temperature control system. As well as presence and daylight control.

Expandable

Control of up to 30 rooms. Combination of any number of **onework** CORE via the KNX bus.

Safe investment

Independent of the product life cycles of individual manufacturers, the service life of the **onework** COREs is based on the life cycle of the building.

Reliable operation

Local operation without cloud connection. Data protection compliant. KNX basic functions even in the event of device failure.

No programming

Parameterization of the automations completely via the KNX standard commissioning software (ETS) without individual programming effort.

Device and component control

The following devices and components are controlled and included by the **onework** CORE for the automations *light* ♀, *temperature* 🌡, *air quality* ≋ and *glare protection* 🗔.

Lights ♀

As part of Automation *Light*, the **onework** CORE includes a comprehensive luminaire control system that switches and dims the luminaires in accordance with workplace guidelines. For Tunable White luminaires, the **onework** CORE offers complete HCL control with predefined light curves for different applications. Neighboring zones are specifically dimmed even when not in use to create a pleasant sense of space.

Windows ≋

As part of the automation *air quality*, the **onework** CORE opens windows, skylights with opening drive and flaps of smoke and heat extractors (SHEVS). It is controlled via the KNX bus. For windows that cannot be opened automatically, a message is issued to open and close the window manually, e.g. via the LED of a KNX push-button.

Shutters and blinds 🌡🗔

The **onework** CORE's integrated automatic sun position and glare protection is the basis for the *glare protection* and *temperature* automations. The blinds are controlled based on room usage and external conditions (e.g. position of the sun and wind). As part of the temperature automation, the blind control is used to deliberately use solar energy to heat a room (energy harvesting). The summer heat protection prevents additional heating of the room.

Push-buttons and switchable sockets ♀ ≋ 🌡🗔

Using input devices such as a button, the end user can interact with the **onework** CORE and make manual settings and activate user-defined scenes.

Sensors ♀ ≋ 🌡🗔

In order to implement the automations as required, measurements from all indoor and outdoor sensors such as presence, brightness, temperature, humidity, CO2 and VOC, as well as wind direction and precipitation, are included.

Technical data

Power supply

- 24 - 30 V DC
- Power over Ethernet (PoE)
- Redundant power supply unit
- Power consumption ≤ 10 W

Interfaces

- KNX via bus terminal (twisted pair)
- Power supply via bus terminal
- Ethernet with PoE via RJ45 socket
- Ethernet via RJ45 socket
- USB-C

Environment

- Ambient temperature: 0°C to +50°C
- Relative humidity: 5% to 85%, non-condensing
- Protection class according to IEC 60529: IP 20

Housing and installation

- E-Ink display with touch function
- Mounting on DIN rail TS-35 (EN 50022)

Size

- 108 (W) × 91 (H) × 59 (D) mm
- 6 division units

KNX   CE   RoHS COMPLIANT

Do you have any questions?
We are happy to help!