

KNX

Plan for intelligent future safety

Building control systems



Schneider
Electric

Efficiency is the
success factor in
modern buildings



Contemporary
building control
has got to be easy
and intelligent

Are you ready for raising potentials?

Comfort, security and flexibility represent constantly growing demands made on modern building technology. On top of this, there is a new energy awareness, there are the ever new technological trends and rising expectations concerning automated comfort solutions. Intelligent systems that will meet these requirements sustainably are in demand.



Today's comfort solutions need to be energy-efficient

Customer requirements concerning building technology go far beyond aspects of comfort and security today. Trends such as increasing automation in everyday situations and the integration of ever new and mobile technologies are raising customers' expectations. In parallel, constantly growing and changing demands call for increasingly flexible solutions. Implementing room use modifications should correspondingly be easy and favourably priced.

Whether it's a single-family home or an office complex: what we want are flexible solutions that increase comfort and security, decrease energy

consumption and are open for future technological developments. Wouldn't it be great to benefit from a system that meets all these requirements and, at the same time, provides you with the assurance of being fit for the future?

With KNX you can rely on the world's open standard for house and building system technology. Meet customer requirements reliably and take advantage of the possibilities of this technology. With the extensive KNX solution range by Schneider Electric you will be able to meet your customers' requirements today and in the future.

Make your business future-proof – with KNX!



New business fields for you!

A future-proof system solution that meets all customer requirements...

... and that is easy in terms of planning, installation and configuration ...

... gets you ready for tomorrow's demands and opens up new business fields!

Intelligent building
control simply
implemented!



KNX combines current requirements into one system

KNX is the intelligent building control system for all areas in which your customers live and work. From single-family houses to office complexes, the comprehensive portfolio of KNX solutions from Schneider Electric enables you to achieve flexible, energy-efficient, comfortable and safe solutions that are easy to plan, install and operate.



A KNX system grows with the customers' requirements

Comfort

Everyone nowadays expects more comfort and convenience in their domestic and working lives. What is called for are comfortable solutions that can be operated straightforwardly and without fuss, to make living and working easier.

Cost efficiency

Intelligent networking of all building systems can avoid unnecessary energy consumption and reduce operating costs on a sustained basis. The ability to expand modular KNX system technology ensures economical solutions that are guaranteed to remain tailor-made over the long haul.

Flexibility

In order to allow for flexible room usage over several decades, it is necessary for building functions to be adapted to the users' requirements easily in a cost-effective way – without the need for walls to be opened up and new cables to be laid.

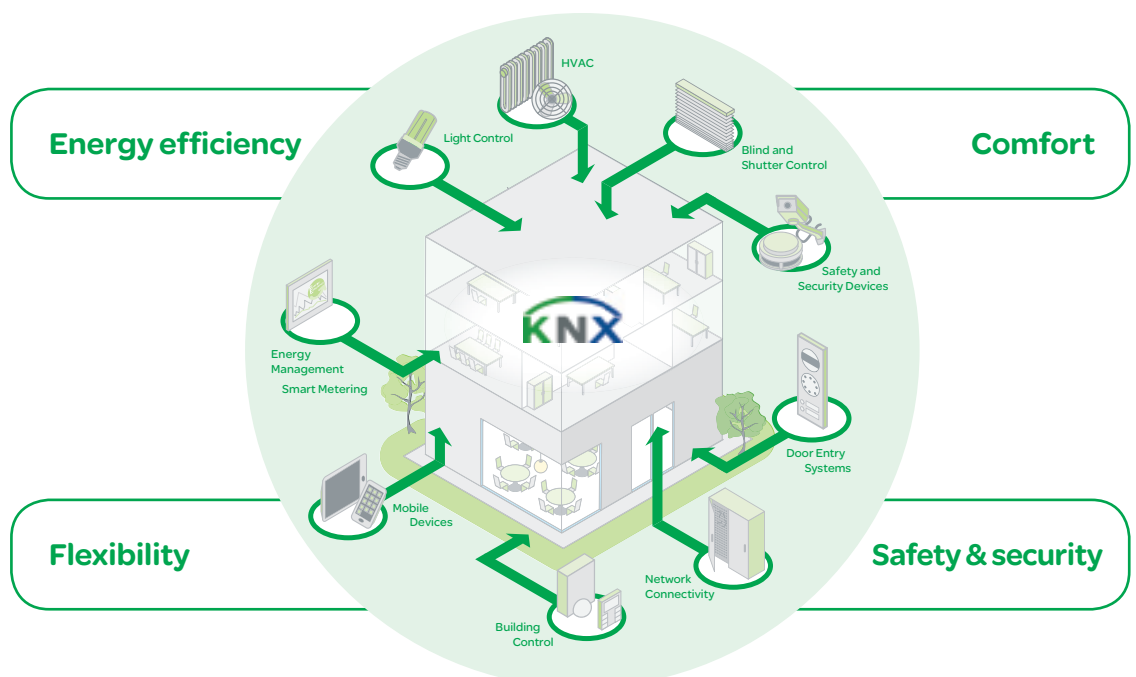
Safety and security

To let residents feel as safe as possible, building technology must be able to react in a fast and intelligent way in any situation and at any time. No matter whether the building is full of life or quiet.

Combining building control with technologies of the future



KNX combines modern building technologies in one system





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P135660

P135631

P135648

The advantages of modern building control with KNX

KNX offers convincing flexibility and cost efficiency. Whether in new buildings or for retrofitting, in private homes, offices, hotels or public buildings – KNX installations can easily be expanded and adapted again and again to new requirements.



The more extensive the application, the greater the efficiency

Low operating costs

KNX enables the operating costs of a building to be reduced in the long term by only activating loads such as air conditioning, heating and lighting when they are actually needed.

Control is effected automatically by means of time profiles as well as movement and presence detectors, thus leading to significant energy savings in offices and public buildings in particular.

Time savings

By networking all components via a single bus, it is possible to simplify the cable routing,

reduce the complexity of the wiring and make the system both clearly comprehensible and easy to expand. The Engineering Tool Software (ETS) makes the planning, installation and configuration of KNX easy, quick and efficient.

Flexibility and expandability

Changes of use are also effortless with KNX. The installation can be adapted to modified requirements or future developments at any time. Additional components can be integrated into the existing bus system without requiring further installation work.

Greater safety, security, comfort and efficiency in all building types

Comfort, safety and security in private homes

In private homes, the priority is on control convenience with high levels of safety and security. KNX conveniently connects different utilities together, realising comfortable solutions that are easy to operate and have intelligent functions for when the residents are not at home. Intelligent light and scene control provides the householders with a good feeling of safety and security – day and night.

Furthermore, the possibilities of KNX do not end at the boundaries of the property. Many functions can also be controlled from mobile devices or PCs by online access.

Flexibility and efficiency in offices and public buildings

Flexibility and cost efficiency are particularly important when it comes to commercial buildings. Due to their large number of differently used areas, offices and public buildings offer plenty of scope for significant energy-savings.

Automated building control can be perfectly adapted to the behaviour of users, and changed at any time in a straightforward procedure without any major expense.



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Perfect working conditions

During everyday office activities, KNX solutions facilitate work and save energy – fully automatically. Adapting the lighting, heating and air conditioning to particular situations means that optimum working conditions can be achieved at any time. Unnecessary energy consumption is prevented by ensuring that loads are switched off automatically.



A KNX installation in the office raises the degree of comfort and transparency and saves energy at the same time

①

Reception

Certainly the perfect reception

At receptions a variety of tasks need to be performed in the course of a day. Arriving guests are received at the TwinBus door station which can be integrated into the KNX control. At night a touch panel provides an overview of where windows are still open. The convenient central OFF function ensures that all loads are switched off at closing time.

②

Individual office

Perfect surroundings for high efficiency

You need the right surroundings to be able to concentrate on what is important. Having the right temperature, ventilation and lighting for your workplace increases your sense of comfort and your working efficiency.

Did you forget to deactivate the light or the heating/air conditioning when leaving the room?

No problem, because the movement and brightness-dependent control deactivates all loads and saves energy costs.



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Touch Panel 7"



P121071

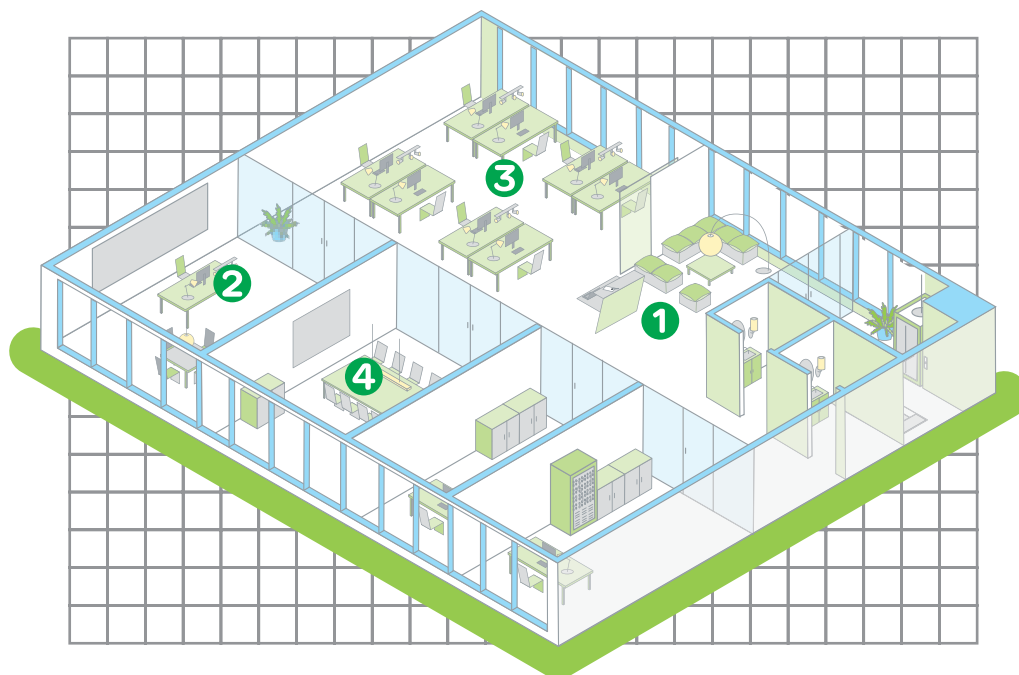
KNX push-button plus with room temperature control unit



P115377

KNX ARGUS presence detector

- ① Reception area
- ② Individual office
- ③ Open-plan office
- ④ Conference room



③ Open-plan office

Flexible lighting control

It is a normal situation in open-plan offices that employees do not leave their workplaces at the same time in the evening, but in dribs and drabs. Presence detectors over the desk clusters detect when areas are no longer being used, and then automatically deactivate the lighting. Constant lighting control ensures an ideal lighting situation from morning to evening.



P115377

ARGUS KNX presence detector



P123605

KNX CO₂ air humidity and temperature sensor

④ Conference room

Presentation mode at the push of a button

With KNX, it is amazingly easy to prepare a presentation. At the push of a button, the lighting is dimmed in the entire conference room, the blinds and the presentation screen are lowered, the sound system and the beamer are activated, and the heating or air conditioning are set to the required temperature. And if the meeting turns out to be a long one, CO₂ sensors automatically activate the ventilation system.



P135981

KNX push-button plus and KNX push-button plus with room temperature control unit in 2-gang frame



P135661



P135673

Secure living comfort

In the home, a modern KNX installation increases the quality of life by allowing everyday building functions to be controlled easily, more comfortably as well as more safely and cost-effectively with KNX.



KNX offers various control modes: manual, automatic, or mobile

①

Entrance area

Greater safety and security with central functions

It gives you a good feeling when you can see at a glance on leaving a building that everything is OK. A touch panel in the entrance hall provides an overview of the building status and allows central functions such as the “presence simulation” or “central off”. Selected loads such as the lighting or appliances connected to socket-outlets can be integrated in functions of this kind. When the householders are absent, sensors detect storms or excessive sunlight and automatically activate awnings and blinds in the relevant areas as a protective measure.



P116818

Touch Panel 7"

②

Living room

Individual living comfort

Whether you plan to spend your evening playing games, watching TV or reading, or to have a cosy get-together with friends – every situation can be enhanced with an individual KNX scene. At the push of a single button, all required functions are activated at the same time: blinds are lowered, mood lighting is switched on and the room is heated or air-conditioned to just the right temperature. At the end of the evening, all functions can be switched off at the push of a button, thus putting the entire home into energy-saving night mode.



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KNX push-button with room temperature control unit



P195578

KNX push-button

1

Entrance area

2

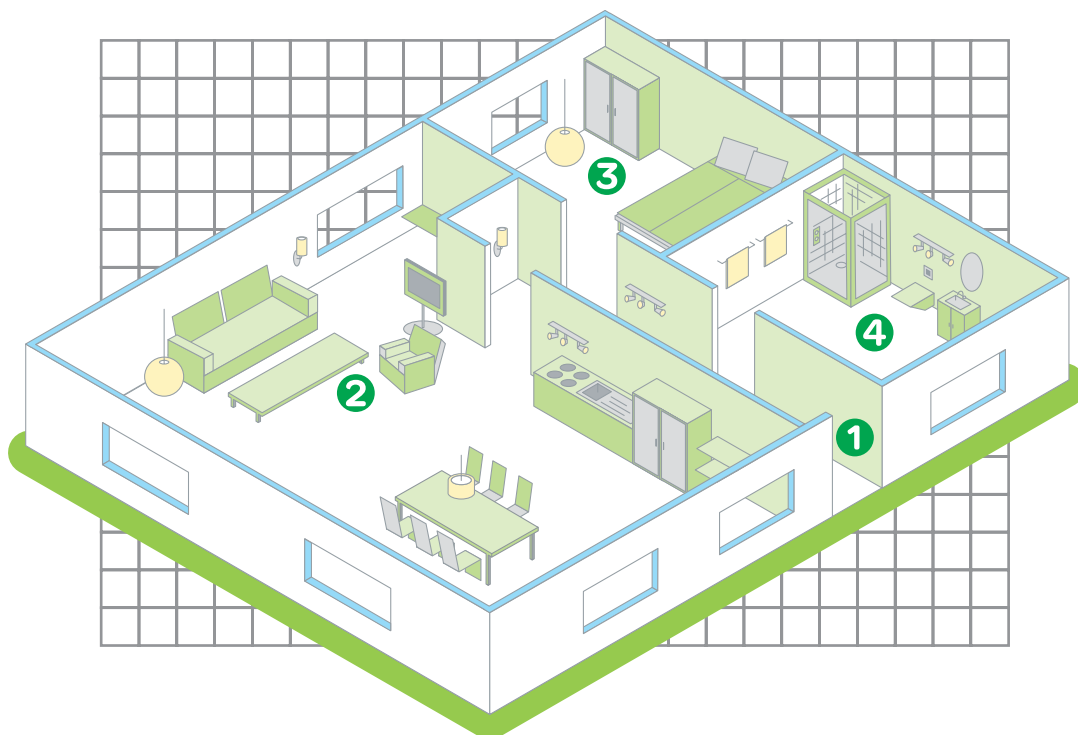
Living room

3

Bedroom

4

Bathroom



3 Bedroom

Ideal conditions for good sleep

You just sleep better with KNX. The time-controlled night reduction provides a healthy climate, and the panic button next to the bed lets you sleep calmly. It will illuminate the house and garden immediately if you hit it when hearing unusual noises. And if you want to read in bed in the evening, just press a push-button to activate the right lighting and let down the blinds.



Touch panel 7"

4 Bathroom

Haven of well-being at the push of a button

The room has the right temperature, the towel rail is warm, the light is dimmed and you hear quiet music from the loudspeakers. A comfort scene that can be turned into reality at the push of a single button, turning the bathroom into a haven of well-being. Yet even in everyday life, there's lots of comfort and convenience. Time-controlled temperature control before entering and automatic lowering of the room temperature after leaving the bathroom also save heating costs.



KNX push-button with room temperature control unit



KNX – Technology with future

Systematic building control

As a global standard in building system technology, KNX offers unique advantages for all users. By intelligently linking together distributed system components via a bus system, it is possible to offer not only many more possibilities than in a conventional installation but also significant potential in the areas of energy efficiency, safety, security and comfort.



**KNX guarantees
that all components
are compatible**

Future-proof industry standard

KNX is the world's only open standard for house and building system technology. In Europe, KNX is established in the CENELEC EN 50090 and CEN EN 13321-1 and 13321-2 standards, and internationally by the ISO/IEC 14543-3 standard. In China, it corresponds to the GB/Z 20965 standard, and in the USA to the ANSI/ASHRAE 135 standard. KNX is thus a globally valid as well as applied standard. All KNX products from all manufacturers are certified by the KNX association. This means all components are guaranteed to be compatible and future-proof, across all manufacturers. The Engineering Tool Software (ETS) simplifies the tasks of project planning and commissioning of all KNX-certified products.

A successful system in figures

The total of around 300 members in 33 countries speaks for itself. At present, there are more

than 7,000 certified product groups, and about 70,000 projects have been implemented to date. This corresponds to more than 15 million installed KNX products. Today, there are already more than 30,000 ETS users who have been trained in one of the 150 training centres worldwide. Training and development of KNX are supported by 60 partners from the business and training establishments.

A strong partner for KNX solutions

Schneider Electric, the global specialist for energy-efficient solutions, offers a complete assortment of KNX products – from the strong design of the control interface through to all necessary DIN rail system components. All energy-saving solutions can be harmonised with one another in order to compose the right system for every need.



The intelligent bus principle

In conventional electrical installations, the control functions are mostly carried over the load cables. This means each function needs its own control cable. The intelligent solution is achieved by the installation bus which carries all the control signals in a building, thus making subsequent changes easy to implement.

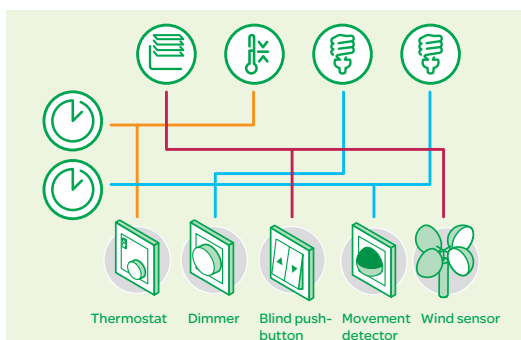


Simply intelligent:
an installation bus
carries all control
signals within a
building

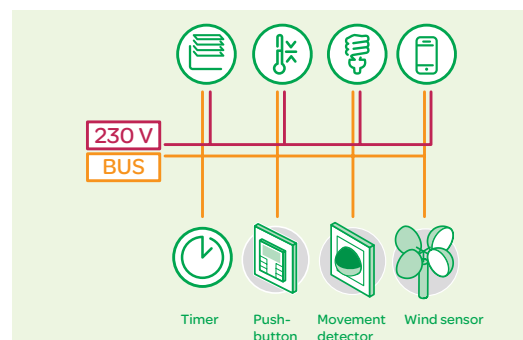
One bus for maximum flexibility

As part of a conventional electrical installation, it is necessary to specify how and where household systems are to be controlled prior to the building work. A KNX installation is flexible, because all functions can be changed and expanded at any time.

The two-wire installation bus routed in parallel to the 230 V electrical power supply connects all devices and systems of the household technology together, and transmits all the control signals. This is based on fast transmission rates with the highest levels of immunity to interference.



The conventional solution:
many separate lines, meaning less flexibility



The intelligent KNX solution:
the bus carries out all control functions for maximum flexibility



The system components

All the devices for a KNX installation are connected together by a bus, thus allowing them to exchange data. The function of the individual bus devices is determined by their project planning, which can be changed and adapted at any time.



A KNX system is modular and flexible

System devices and components

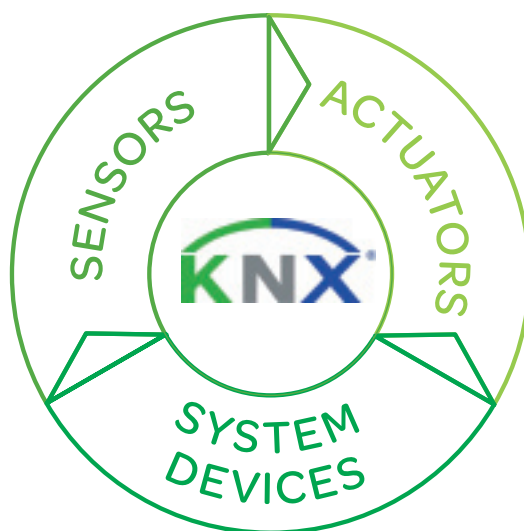
They are needed for the fundamental functioning of the system. They consist of power supply units for generating bus voltage, couplers for connecting bus segments and interfaces for connecting programming devices.

Sensors

These are the starting point for every action, because they gather information and send it on the bus as a data telegram. This can be information about room temperatures, movements, wind measurements or manually input instructions.

Actuators

They receive data which are then converted into actions. This can include controlling blinds, dimming lights or controlling heating and air conditioning systems.





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P135610

System devices (selection)



P123596

Power supply unit



P123575

KNX logic module



P123583

USB interface
REG-K



P123580

Line coupler



P123581

IP Router

Sensors (selection)



P121044

KNX push-button



P121077

Movement detector



P121045

Room temperature
control unit



P123537

Binary input



P115985

Anemometer

Actuators (selection)



P131329

Switch actuator



P126735

Dimming actuator



P123544

Heating actuator



P126739

Blind actuator



P135242

KNX DALI-Gateway



Efficiency at the push of a button

Example: In the conference room

A conference room is ideal for demonstrating how comfortable and efficient a KNX presentation scene is. All connected loads can be activated simultaneously at the push of a button: Lighting groups are switched off or dimmed, blinds and screens are lowered and the heating/air conditioning provides the perfect room climate.



Scene functions additionally save power if KNX presence detectors are also integrated

The special strength of KNX lies in its scene function, into which any number of loads can be integrated.

If you actuate the push-button, it sends a data telegram to all the actuators. The actuators evaluate this telegram and cause the individual loads to perform a predefined activity – e.g. dimming the light to 50%, lowering the blinds or the screen and switching on the air conditioning.

When leaving the conference room, the scene “Absent” takes care of switching off the light, reducing the temperature to the predefined “standby value” or the repositioning of the of the shutters.

If a KNX presence detector is integrated this can also be done automatically. If a scene has been activated but not deactivated upon departure, the presence detector will recognise that no one is left in the room and will switch off all loads automatically.

List of components

1

KNX push-button

2

Light control

3

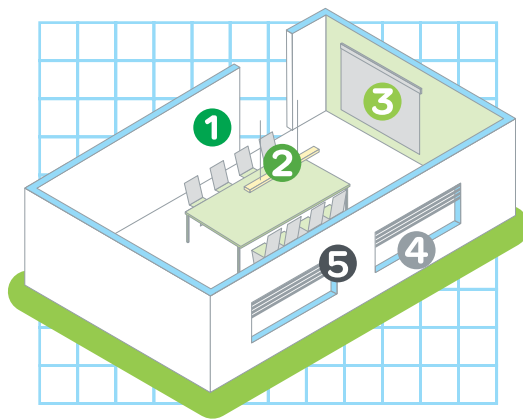
Device control

4

Temperature control

5

Blind control



1

KNX push-button



KNX push-button 2-gang plus
with room temperature control unit

Actuators

2

Light control



Dimming actuator

3

Device control



Switch actuator

4

Temperature control



Heating actuator

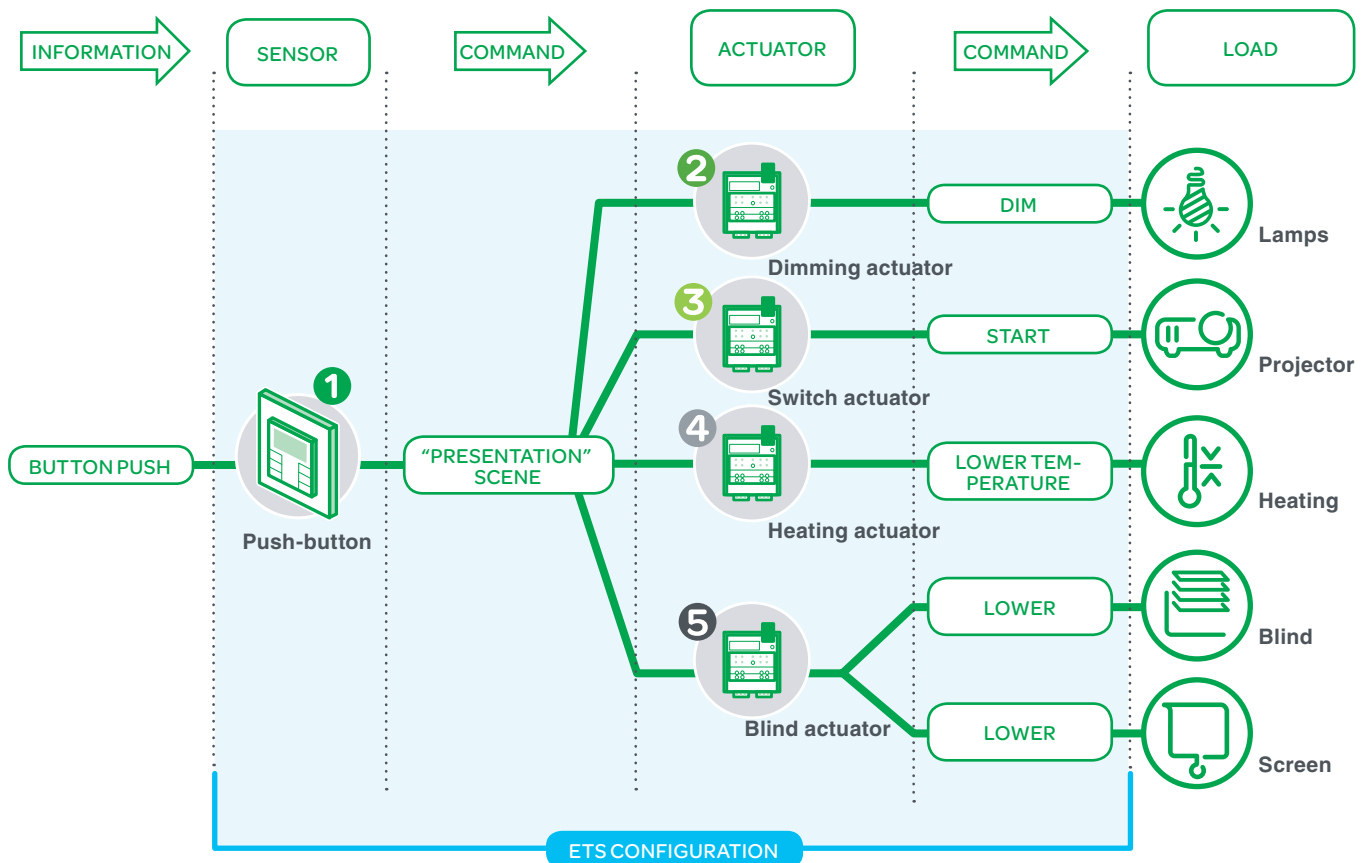
5

Blind control



Blind actuator

Functional principle



Energy efficiency with KNX

Rising prices are not the only reason that energy is such an important issue. The desire for careful husbanding of resources is the result of increased energy awareness. KNX-based energy efficiency solutions from Schneider Electric permit energy management from a single source.



Schneider Electric offers extensive KNX energy efficiency solutions

Active energy saving

Energy saving solutions intermesh and can be perfectly harmonised with one another in order to put together the right system for every need. KNX systems can be expanded with additional solution components in such a way that even special areas are covered. This allows maximum energy savings while maintaining full comfort!

Measuring consumption and reducing it automatically

The PowerLogic EGX300 from Schneider Electric is an integrated gateway server and collects the consumption data for electricity, water, gas, oil and district heating. These data are stored and shown via the browser.

The KNX Energy meter makes it possible to record the energy consumption of individual devices or groups of devices. Individual energy-saving functions can be programmed, such as dimming, switching and retrieving scenes, as can alarms for specific threshold values.

Actuator channels can be controlled depending on timers, brightness, temperature and movement sensors or meters to achieve additional energy-savings.



Switch actuators with current detection



KNX Energy meter



PowerLogic EGX300



Roombox



Consumption data display in the web interface of the EGX300

Calculating energy efficiency with the SeeTool

With the SeeTool, making energy efficiency a reality is simple. Right from the planning phase, it indicates specific saving potential in the KNX installation and delivers building control solutions that make full use of the potential.



Energy efficiency implemented with ease – with the SeeTool

Fewer products, more efficient solutions

When suggesting solutions, the SeeTool has access to a selected range of Schneider Electric KNX products. Our basic approach was to attain maximum efficiency using as few components as necessary - not just with a view to energy consumption but to keeping down costs of purchasing and installation too.

Precise results for precise requirements

Based on your data, the SeeTool will provide specific solution proposals – including the components required and circuit diagrams. The potential compared to a conventional installation will be worked out for each solution, providing values that you can use to make plans and calculations.

Demonstrate your competence

The SeeTool will prepare all results in a detailed results report. The solutions, facts and figures the report provides you with will enable you to demonstrate your competence and expertise. This will allow you to save energy and costs for your customers – thereby making yourself priceless.

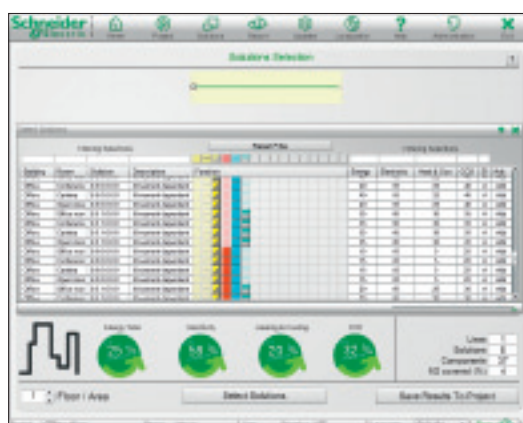
Certified and tested

The SeeTool has been certified by an independent testing institute, the VTT Technical Research Centre of Finland, which tested the calculations of potential savings and automation solutions on which these are based and confirmed their authenticity.

Free-to-use

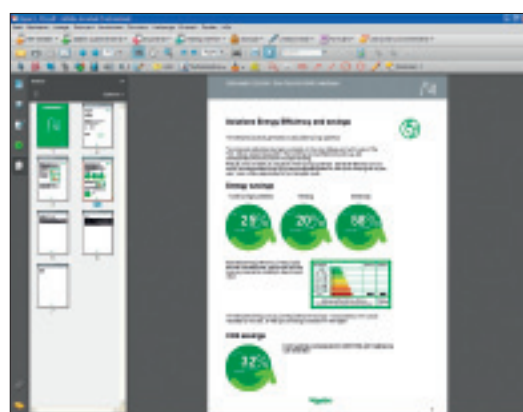
The SeeTool is available free-of-charge and can be used conveniently and simply on a computer.

SeeTool project planning



During inputting

For ease of input, the tool provides preset "sets". The lower area of the program window displays the energy savings in comparison to conventional installations.



Displaying results

When all room parameters have been input and all sets been selected, the program will generate solution-based results and calculate realistic saving potential. This will be prepared as a PDF, which you may print and/or save.

Three easy steps to finish the project

KNX is a building control system with unique properties. For the installed KNX solution to meet customer requirements, correct planning, installation and configuration are particularly important.

1. Planning



Identify individual requirements

The focus of the planning phase is to identify the requirements the object must meet by asking specific questions. Depending on the contact person (client, investor), ask relevant questions about the desired level of comfort and security and power saving potential.

The requirements can range from an individual comfort solution right up to a comprehensive central function. Summarise the results in a requirements specification or in the description of the function.

2. Application



Compile system components

Based on the functional description, compile the necessary system components and software applications for all areas of the building and implement the KNX structure. When planning the bus topology, remember that each device has its own unique physical address. ETS supports you

by assigning the address automatically at your request, thus preventing manually performed double assignments. Programming the physical address into the devices is also done using the ETS.

3. Commissioning



Install and apply the system

Commissioning is divided into installation of the devices and system application. The created project is then loaded into the devices. Upon delivery, the applied functions are compared with the requirements laid out in the functional description.

In this way, you can ascertain whether the installation functions correctly and can document the correct functioning. The automatically generated documentation and the user-friendly diagnostic function integrated in the software reduce the time required for commissioning.



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Maximum flexibility thanks to ETS configuration

After installation of the bus line and the system components, the command chains and, as a result, the functions are fed into the system. Here the manufacturer-independent ETS software is used.



The ETS software supports you during all the phases of a KNX project

The software for KNX

The ETS is a manufacturer-independent installation tool for planning and configuring intelligent house and building technology with the KNX system.

For any level of knowledge and for all project sizes

ETS allows all users of the KNX system to achieve a perfect working result, be it beginners or trained and experienced KNX partners or electricians. This software supports you during all the phases of the project:

- Planning
- Application
- Commissioning
- Documentation
- Diagnostics and troubleshooting

The ETS software allows you to implement complete solutions for all applications for which ETS-capable products are offered by KNX manufacturers and thus greatly increase their business success – not only in terms of technology but above all, economically.

One software for all utilities

- Light control (switching, dimming, ambient light)
- Shading (awnings, blinds, roller shutters)
- Heating, ventilation, air conditioning (single room control: control valves and thermostats on heaters, burners, boilers, cooling units, fans)
- Safety and Security (presence protection; presence simulation; burglary, fire protection and alarm; panic circuit)
- Energy management (consumption optimisation; utilisation of favourable power rates, etc.)
- Comfort functions and control of all applications (central user control; scene control; process control)
- Remote control and remote maintenance (e.g. via Internet)
- Interface to additional or peripheral systems (monitors; facility management; security systems; audio; multimedia)

Become the building manager for your customers

Flexibility for today and tomorrow

There is a great desire for flexibility in both privately and commercially used properties alike. Demands change, and this has effects on the existing electrical installation. On such occasions in particular, it is good to be able to benefit from the advantages of flexible building control.



KNX configurations
can be changed easily
and inexpensively

Flexibility right from the start

Even during the planning of a new building, KNX offers the greatest possible flexibility for future room use. In this way, for example, meeting rooms can be designed for different forms of use – from conference through to presentation mode. It is easy to reconfigure individual KNX scenes, even when individual employees change locations.

Changing the use of rooms and floors

Whether a private home, an office complex or a hotel – the KNX structure can be adapted

and expanded in response to changes of use or modified partition positions without requiring new installation cables. This applies to retrofitting individual functions just as much as creating new central functions. Functional buildings with a KNX installation are especially attractive because it is easy to gear them up for new requirements; consequently, they remain straightforward to let or sell. Thanks to the comfortable configuration with ETS, it is quick, easy and inexpensive to make changes of function – from the single room to the entire office floor.



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Profitability for your customers

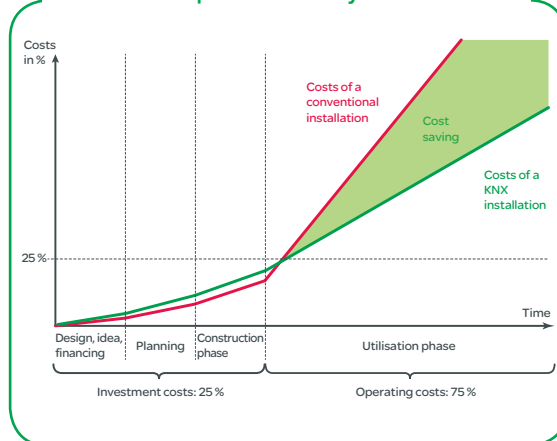
Factors that are decisive for the cost efficiency of a KNX installation include the ongoing operational costs and, in particular, the investment costs, compared to conventional systems. The required range of functions is quite decisive in this case, because KNX will very quickly make itself pay if the functions go beyond those possible from a conventional solution.



With KNX, it is possible to save up to 30% operating costs in the long term

When it comes to a comparison between the investment costs of a KNX system and those of a conventional installation, what counts is the required range of functions. Often, even simple scene functions can be implemented more cost-effectively with KNX than on a conventional basis. One aspect to remember with regard to investment costs concerns the lower operating costs. As time goes by, building management requirements will change: private homes will be inhabited by several generations, rooms in commercial objects are put to different uses in their lifetime due to reorganisation or new tenants. Whereas a change of use or an expansion of a conventional installation is complicated and expensive, the flexibility of a KNX system pays off due to the minimum level of complexity. KNX opens the door to many possible savings in terms of a building's operating costs. From demand-related lighting control to energy management, the potential savings are determined by the depth of use.

Efficient and profitable for your customers



Schneider Electric – Your partner

Energy efficiency, flexibility, comfort and security – In addition to KNX Schneider Electric offers further solutions from one source with perfectly coordinated components. Implement intelligent building control for maximum profitability and the highest customer satisfaction.

Safety and Security



Benefit from complete solutions from one source!

Whether it's in a private home or in a commercially used object – the demand for security is equally high in both. So it's good that Schneider Electric offers numerous security solutions which can be used to close security gaps easily and quickly. This starts with life-saving smoke detectors, movement or presence detectors which also secure access routes effectively, over security cameras right up to complete emergency lighting systems.

Door Entry Systems

Secure and comfortable access control is equally important in private homes and functional buildings. From security cameras over access control using PIN codes or fingerprints right up to complete building communication systems – Schneider Electric offers the perfect solution for every need and purpose. The advanced TwinBus technology is also easy and safe to integrate into KNX systems, which further increases comfort in access control.

Schneider Electric solutions



ARGUS
presence detector



ARGUS
smoke detector



ARGUS
movement detector



TwinBus
Door Station



IP camera

No matter if presence, movement or smoke detectors are required, Schneider Electric offers the right solution for all aspects concerning the security of persons at home or in the office.

Security cameras as well as intelligent building communication of Schneider Electric offer safe and convenient access control.

... for future-proof solutions

Network Connectivity

Today the perfect integration of data and communication lines into the electrical installation is an integral component especially of commercially used objects such as office buildings. Schneider Electric offers a comprehensive portfolio for the establishment and connection of networks that is ideally combinable with the cable management solutions. With Schneider Electric, bundled solutions from one source guarantee an efficient working environment.

Cable Management Systems

No matter whether it's a light switch, touch panel or server cabinet, they can only fulfil their task once they have been connected to the nervous system of any electrical installation – the cable management. The cable length especially of cables laid in office buildings soon exceeds several kilometres. A cable management system as offered by Schneider Electric is indispensable if each floor, each room and each workplace is to be connected to all the available functions modern offices require today in a secure and maintenance-friendly way.



Acti 9 digital week time switch

Acti 9 light and time control products allow to adapt energy consumption to the necessary demand and to increase the comfort of the user.



IT server cabinet

In addition Schneider Electric offers a big variety of network cabinets and enclosures. Inspired by customers expectations IT server in different versions and with different capacities meet all individual requirements.



IT wall enclosure



OptiLine installation system

The OptiLine installation system gives your customers flexible access to electricity, telecommunications and network connections as well as operating elements, wherever they are needed. The modular structure fits in with any room situation – from the individual office through to the conference room.

Flexible in every detail

At Schneider Electric, comfort, safety, security and flexibility are combined with an extensive variety in design and function. Customers' wishes can be met easily, from the movement detector to the touch panel.

Example: Merten System M



KNX push-buttons



KNX push-button
4-gang plus with room
temperature control unit



KNX push-button
2-gang plus with room
temperature control unit



KNX push-button
1-gang plus



KNX push-button
2-gang plus



KNX push-button
4-gang plus



KNX push-button
4-gang plus with
IR receiver



Push-button
modules



Push-button 1-gang



Push-button with
1/0 imprint 1-gang



Push-button 2-gang



Push-button with
1/0 imprint and
up/down arrows 2-gang



KNX Movement and
presence detectors



KNX ARGUS movement
detector 180,
flush-mounted



KNX ARGUS movement
detector 180/2.20,
flush-mounted



KNX ARGUS presence
detector, flush-mounted

Example: Unica



KNX push-buttons



KNX push-button



KNX push-button with
IR receiver



KNX push-button,
2-gang



KNX room temperature
control unit



KNX Movement and
presence detectors



KNX movement detector

Example: Altira



KNX push-buttons



KNX push-button



KNX push-button with
IR receiver



KNX push-button,
2-gang



KNX room temperature
control unit



KNX Movement and
presence detectors



KNX movement detector

* Make the most of your energy

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