



TECHNICAL REPORT

HOW TO PLAN A SMART HOME

Smart homes have been experiencing a real boom for years and continue to climb up the popularity scale. Living smart means that various devices in the building are interconnected, for example to automatically control the heating, air conditioning, ventilation systems, shutters, lights or entertainment devices and cameras. A sophisticated intelligent networking system makes everyday life much easier for smart home residents and provides comfort, energy efficiency and security.



The main focus of smart home projects should be comprehensive and seamless planning. In this blog post, we give valuable tips on what house owners should definitely consider during planning so that they are ultimately happy and can benefit from the advantages of a smart building every day.

What kind of building is to become smart?

First of all, you should clear about what you actually want to achieve. Do you want to retrofit an existing building or start a new construction project? The type and scope of the construction project may well differ in terms of both effort and cost. Retrofitting a building to a smart home can literally mean a brea-

kup when it comes to installing cables. In a new building, on the other hand, the cables can be laid as needed right from the start and empty conduits can also be planned for future expansions.

Connecting devices in the smart home

You should determine at an early stage which devices are to be used with which functions and how high the costs may be. In principle, a smart home network can be realised via a data line, wireless or via power cable. Those who choose the more cost-effective networking solution via power cable must be aware that data might be transmitted more slowly and to a lesser extent than via a wireless solution or data line. This option is therefore not suitable for larger distances in the buildings. Alternatively,



such as a system integrator, for these professionals have extensive knowledge of KNX technology. They have the necessary foresight and assist their customers with the planning, installation, commissioning, training and maintenance of the systems.

Right from the start the integration service provider should ask the following questions about comfort, energy and safety aspects...

wireless solutions can be used for the network. However, wireless systems might be susceptible to interference.

To fully use the potential of a smart home, we suggest using a networking system via data line with KNX standard and controlling the devices via a central control unit. Read more about the advantages and disadvantages of wireless solutions and KNX in our blog post KNX or wireless system for the smart home?

Smart home planning with KNX

Once the choice has been made for a KNX-controlled smart home, detailed planning of the building automation begins. It is advisable to consult experts

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