

**Specification Toolbox 2.0** 

Intelligent Building Solutions Efficient planning and design of ABB i-bus® KNX installations



Power and productivity for a better world™

## Specification Toolbox Effective tools for consultants and electrical planners

During the design of a building, consultants and electrical planners are faced with a multitude of challenges in fulfilling customer requirements and at the same time the applicable regulations and building codes.

The ABB i-bus KNX Specification Toolbox can help with this task by providing a variety of documents and `best-practice' examples making the design of KNX installations as efficient as possible.

Open the toolbox either on the accompanying USB flash drive or go to www.abb.com/knx to browse the following contents:

### 1. Reference documentation

The reference documentation includes a comprehensive overview of the applications covered by ABB i-bus KNX in residential and commercial buildings. Furthermore, graphical overviews give a brief introduction to typical KNX example solutions for each building type.

#### 2. Functional specification texts

The functional specification texts describe ABB's KNX solution for different configuration levels of intelligent building control in commercial and residential buildings. Firstly, the KNX technology including the applicable standards is described.

Secondly, typical control applications are specified, including the technical characteristics of the required KNX devices. To suit diverse levels of control, each functional specification is available in three different design levels: Basic, Advanced and Premium.

1 Reference documentation | 2 Functional specification texts





### 3. Device lists

The device lists include the ABB i-bus KNX devices required to fulfill the functionality as specified in the specification text in the form of an example configuration. It contains a full device listing with all relevant ordering information, for example, order code, device description and quantities for selected configuration levels.

### 4. CAD drawings

The CAD drawings detail examples of the electrical planning and design of ABB i-bus KNX installations, e.g., offices, hotel guest rooms and apartments. Example floor plans show how KNX devices can be placed in various rooms to control several applications. Furthermore, illustrations of the appropriate automation distribution boards containing the required ABB i-bus KNX DIN-Rail devices clarify the wiring concept. The CAD drawings are available for selected configuration levels corresponding to the appropriate device lists.



#### 3 Device list | 4.1 CAD drawing | 4.2 CAD drawing

## ABB i-bus<sup>®</sup> KNX Comprehensive solutions and tools for consultants

ABB i-bus KNX is the Smart Home and Intelligent Building System that meets the highest requirements for applications in modern home and building automation systems. As a result with the ABB i-bus KNX system, the buildings we occupy are easier to manage and control, resulting in increased flexibility, security, economic efficiency and convenience.

ABB offers consultants and electrical planners a comprehensive product range with ABB i-bus KNX, in order to meet the challenges posed to electrical building installations both today and in the future. To make the planning and design of state-of-the-art KNX systems even more effective, ABB provides a broad specification toolbox coming with valuable best practice examples covering KNX installations in residential and commercial building projects.



## Intelligent Building Control with AB Advantages and design principles

## In many areas of our private and working lifes, the increasing level of automation is a trend that confronts us on a daily basis without actually being noticed.

KNX is the logical development for implementing traditional and new requirements in electrical building installations and thus replacing conventional installation techniques. The intelligent installation bus system efficiently performs the conventional functions and offers an additional broad range of expanded features, which could not be realized without a bus system.

### The conventional solution

- Many seperate installations
- Seperate functionality
- Little flexibility

#### The conventional solution



## B i-bus® KNX



### ABB i-bus KNX – the most important advantages for consultants and electrical planners:

- KNX is the worldwide standard for Home and Building Control complying with ISO/IEC 14543-3 and EN 50090. Due to more than 380 KNX manufacturers worldwide KNX installations are almost limitlessly expandable, always re-adaptable and thus future-proof.
- KNX enables time-saving and flexible planning and furthermore leads to reduced installation and wiring costs when integrating diverse building applications.
- More than 46,000 KNX certified contractors / system integrators in 136 countries ensure that your specified projects are executed on the highest quality level.
- 350 KNX training centers in 57 countries warrant a growing support community – for the security of your projects.

### The intelligent solution

- KNX
- A worldwide standard
- Many interoperable functions for maximum flexibility





## ABB i-bus<sup>®</sup> KNX Further information and services

For further tools and information relevant for the planning and design of ABB i-bus KNX installations please visit: www.abb.com/knx

On the ABB i-bus KNX webpage you can find the following contents:

- Product data, e.g. product specific specification texts and CAD drawings, data sheets, etc.
- Latest news and information
- Catalogue and brochures
- Application manuals
- Worldwide reference database



## Contact us

# Further information and local contacts: www.abb.com/knx

#### Warranty, Liability:

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