Intelligent living

Making home automation easier than ever with ABB-free@home®

ALEXANDER GRAMS – Once futuristic dreams, intelligent buildings are now a reality and ABB-free@home automation technology offers the lifestyle, comfort and safety people want in their homes.

1 Room temperature controller of ABB-free@home

2 The System Access Point is the central element of the ABB-free@home system.

Today's building automation delivers not only energy efficiency, but also comfort and safety, which are often the most important concerns for private residences. ABB-free@home combines all the useful functions of comfortable home automation and is easy to use as a system.

ABB-free@home is a central control system residents can use to monitor and control an entire living area: Light dimming and switching, timer, blind control, temperature regulation and ABB-Welcome Door Entry System integration.

The functions can be fully customized. All settings can be easily changed or extended at any time via the system's app. The configuration and operation of the system is as easy as surfing on a website, thanks to the app. No additional software is required. The initial configuration is performed by the electrical installer. Later settings and adjustments can be made by the user from any computer or tablet equipped, with HTML5 (independently of platform).

Title picture
The ABB-free@home control panel is surface mounted with a high quality color TFT touch display.

This, for example, allows the home automation to be easily adapted to changing living situations or to the changed use of the rooms. Effective lighting can be easily adjusted and individual timer programs can be entered to allow adjustments of heating and blinds ➔ 1.

The optimum room temperature can be adjusted using ABB-free@home individually or according to a specific requirement, depending on the time of day and the function of the room.

In ECO mode, the temperature is automatically lowered at night or when the house is empty. The heating can be automatically shut off when a window is open. This reduces the consumption of energy – whether for conventional heaters or under-floor heating.

The user interface is accessible on a computer, tablet or smartphone. All of the functions can be performed intuitively using any of the devices. The ABB-free@home app optimizes all images for display on mobile devices.

The System Access Point is the central element of the ABB-free@home system, supporting project, setup and visualization simultaneously ➔ 2. It provides access for computers, tablets or smartphones via a WLAN connection. This allows the functions of the system to be defined and remote controlled – also at a later point in time. The System Access Point can also be connected to a router in the network – via LAN or WLAN.

For convenient commissioning the System Access Point is equipped with its own WLAN and the software required for project planning and commissioning. This makes the fitter independent from the structural conditions and needs no additional software. As soon as programming has been completed, it can be saved as a backup on the System Access Point and restored if necessary.

The 2-wire bus technology makes the installation of the ABB-free@home easy. The bus cable can be fed through the same duct as the power cable; no special cable routing or its own installed cable duct are needed.

ABB-free@home offers different flush-mounted devices for switching and controlling of signals, such as light and temperature. They allow the desired functions to be installed as easily as a socket outlet.

The ABB-free@home actuators receive the signals from switches and sensors and convert them. The actuators are installed centrally in a flush-mounted cabinet or decentrally in flush-mounted wallboxes.

ABB-free@home is manufactured according to the international standard IEC 60669 as well as IEC 50428. All devices for ABB-free@home are manufactured ecologically compatible – according to the RoHS (Restriction of Hazardous Substances) directive.

Alexander Grams
ABB Low Voltage Products, Wiring Accessories
Lüdenscheid, Germany
alexander.grams@de.abb.com