

JANUARY 2020

Webinar “Updates free@home + secure@home”

Webinar – Competence Center Europe – Smart Buildings

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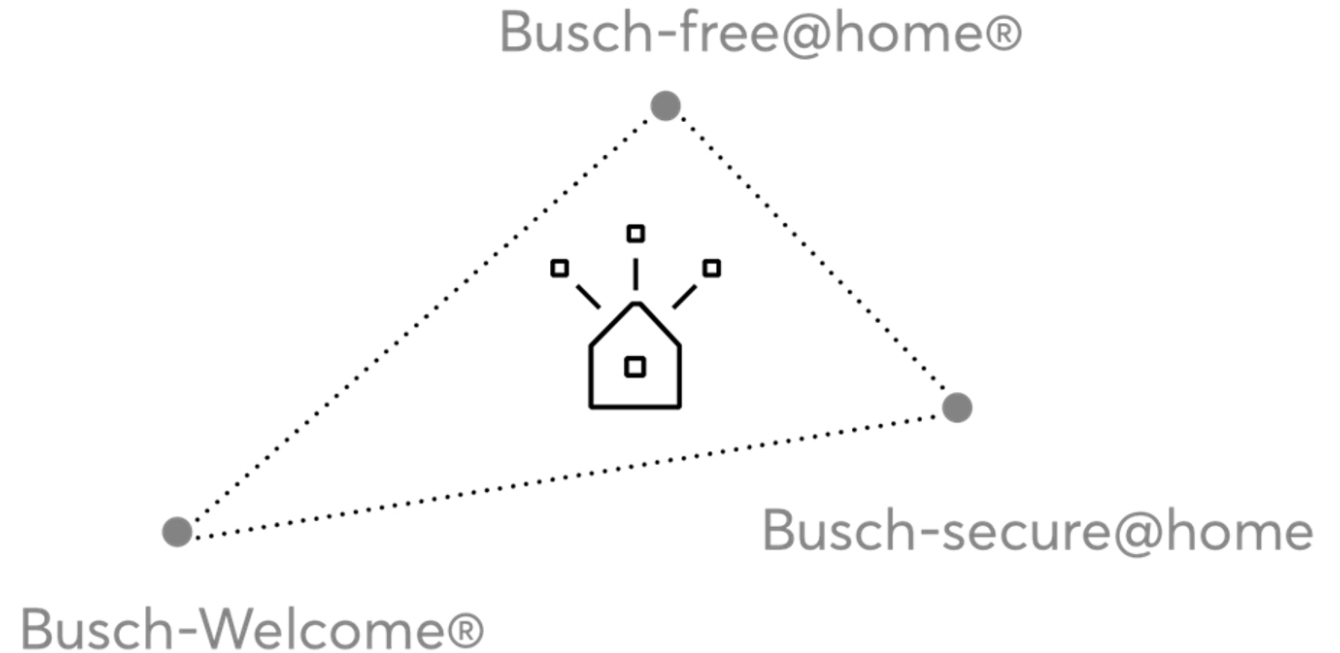
Agenda

secure@home – Wrap-up

Commissioning in free@home

free@home – Smoke alarm portfolio

free@home – feature updates



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ABB-secure@home - General Overview

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What is ABB-secure@home?

Free to be secure

ABB-secure@home is an easy-to-use anti-intrusion system

- Perimeter and Indoor protection
- Outdoor protection
- Smoke, flood protection
- Smart home integration

A secure home, protected at 360 degrees



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ABB-secure@home - Applications

Outdoor protection

Security starts outside your home

An effective perimeter detection protects the house even before the intrusion

- The **infrared sensors** are positioned in the outdoor spaces, in the garden and around the entire house perimeter
- **Bidirectional detectors, door/window detectors**, main or secondary entrances: a professional wireless technology can monitor the perimeter of any building in an accurate and punctual manner

The first line of defense is outside



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ABB-secure@home - Applications

Indoor and perimeter protection

Inside the home, the atmosphere does not change

Your peace of mind is guaranteed by two levels of protection: the volumetric and opening detection

- Any movement, any presence inside the house is detected by **volumetric sensors**. They are located in strategic points and are equipped with different coverage lenses according to specific needs
- Windows, doors, main or secondary entrances, shutters or blinds, any opening of the house is controlled by **perimeter detection sensors**

Safety at every corner of the house



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ABB-secure@home - Applications

Smoke, flood protection

An excessive presence of smoke in a room can be the signal of a possible starting of fire and the optical smoke detector is able to identify it in the environment and report it

Water leaks inside the house can cause very expensive damage that can also affect any underlying apartments. The flood detectors immediately detect the presence of water on the floor and report it

Everything is always under control



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ABB-secure@home - Applications

Smart Home integration

There is no safety without comfort, there is no comfort without the natural feeling of living in complete freedom in your own home

- Security and home automation mixed **scenarios** and **actions**
- **Remote access** and easy visualization of status of all the intrusions zones
- **Push-notifications** to mobile devices with a myBuildings portal account

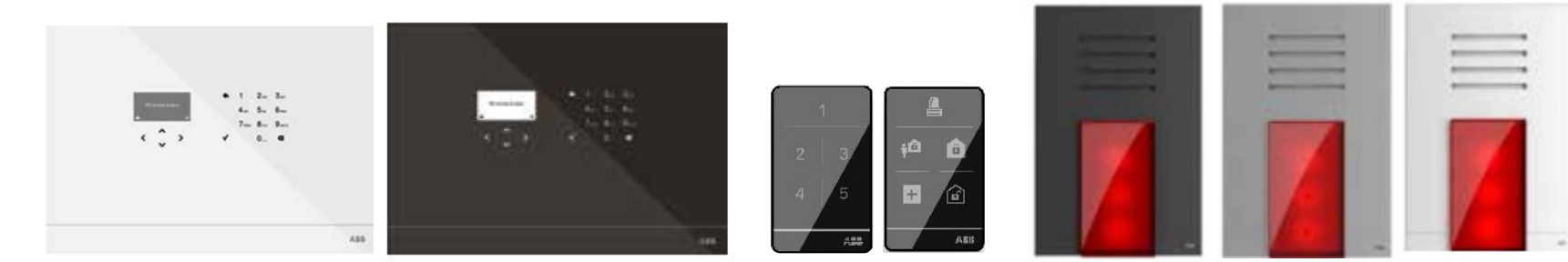
Security at your fingertips



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ABB-secure@home - A complete range

System



Indoor & Outdoor security



Safety



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ABB-secure@home - Overview

Secure

Proprietary protocol and **encryption** plus a **unique rolling** code for all arming/disarming controls provide maximum security during transmission

CSMA (Carrier Sense Multiple Access) technology allows to optimize communications avoiding the disturbances, since the alarm transmitter and the receiver verify the absence of band occupancy

Flexible

Wireless technology 868.3 MHz with bidirectional communication allows flexibility:

- to install the security system **without brickwork**
 - to place security sensors in the **most convenient spot** to maximize protection
-

Simple and Integrated

Initial setup is just to create a PIN code on the central unit and then power up the sensors to be paired wirelessly

Using the system is particularly fast and much easier connecting also a free@home system, with an intuitive and easy to use app to control the security system from your smartphone or tablet

Secure intrusion system with the flexibility of wireless and state-of-the-art commissioning

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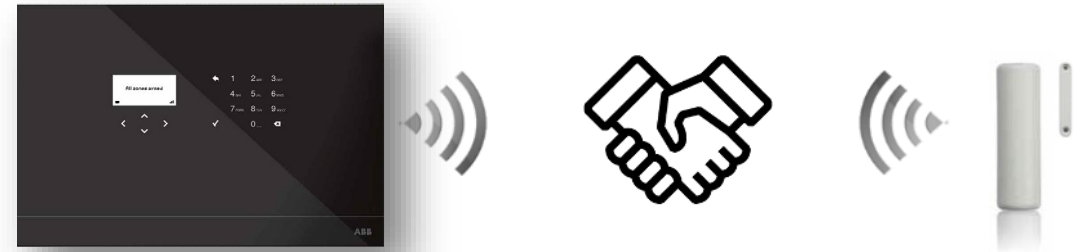
ABB-secure@home - Wireless technology

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ABB-secure@home - Reliability

ABB-secure@home wireless communication

- 868 MHz regulated by European norms (ERC-REC-70-3E)
- Uses a privileged frequency less crowded than the traditional 434MHz
- Optimal communication through CSMA transmission
- Up to 300m in free field
- Best ratio distance over energy consumption
- ETSI-RED (Radio Equipment Directive) 2014/53/EU compliant
- Computerized calibration



- **Bidirectional** (simplified commissioning)
- **Distance** up to **300m**
- **CSMA** transmission
- **Encrypted**

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ABB-secure@home - Security

ABB-secure@home wireless ensures

- Data protection through
 - Digital 128 bit encryption
 - 65k rolling code for remote control
- Sirens activation due to central unit jamming events
- Remote communication through GSM technology



- 128 Bit encryption
- rolling code

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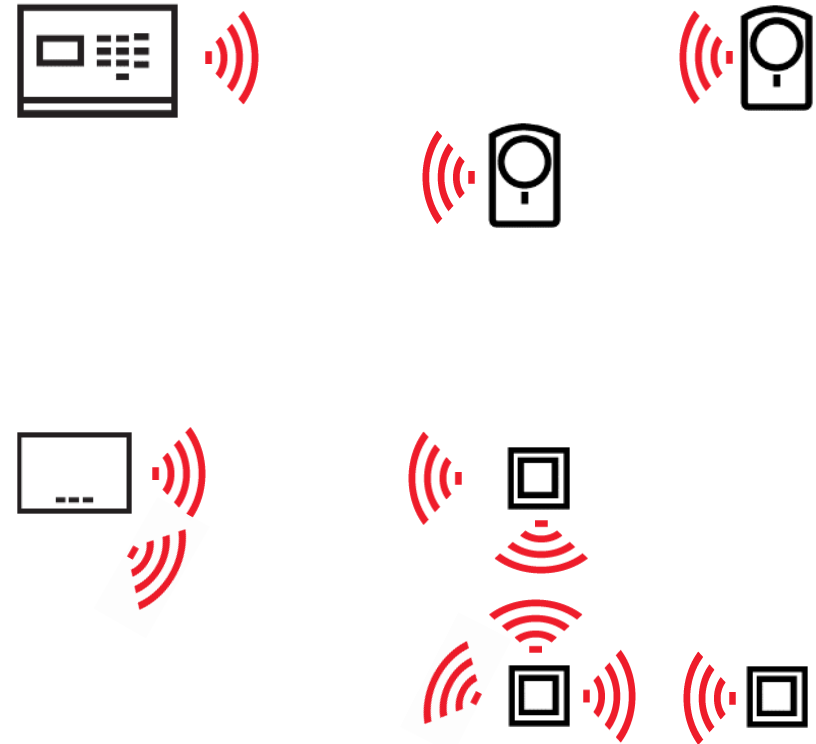
ABB-secure@home – Wireless technology

ABB-secure@home

- Aim: Security
- 868 MHz proprietary protocol (European approved band)
- Bidirectional communication
- Low signal attenuation

ABB-free@home

- Aim: Home Automation
- 2.4 GHz proprietary protocol (globally approved band)
- Meshed networking communication
- Possible interference from electronic devices
- High signal attenuation

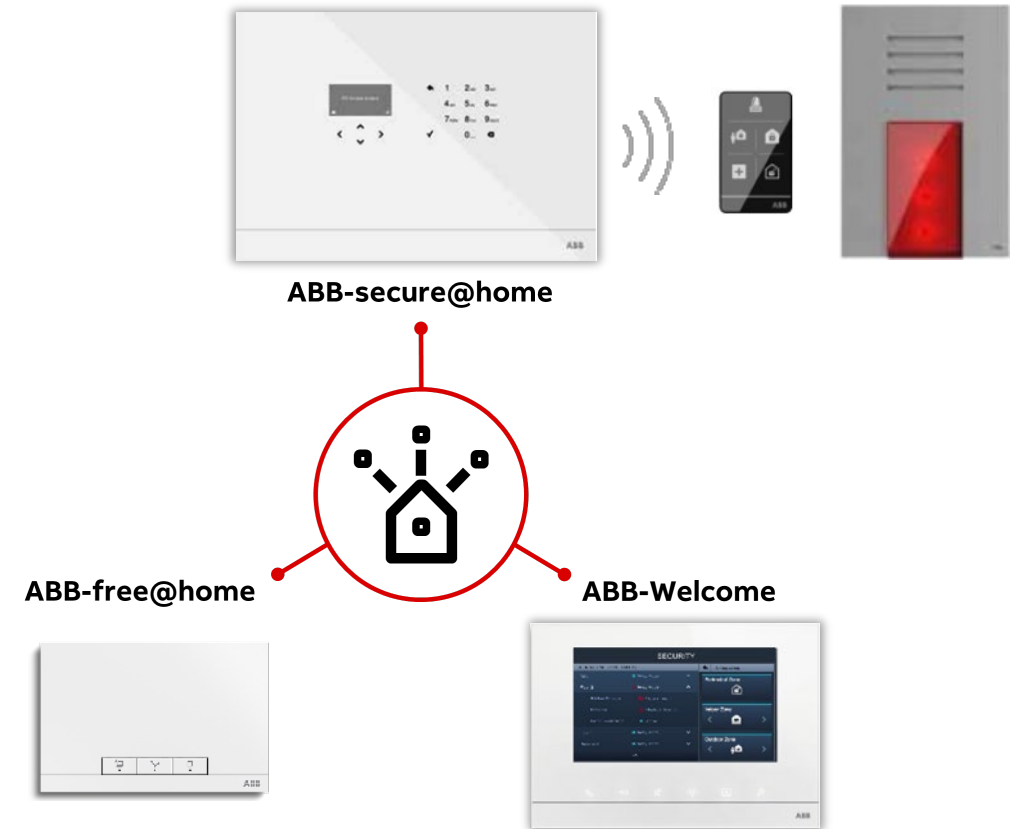


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ABB-secure@home – Perfectly integrated in the ABB smarter home

A fully-integrated system

ABB-secure@home is part of the ABB Smarter Home System, together with Home Automation free@home and Door Entry System Welcome, creating a unique integrated system, which represents the real differentiation from the competitors.



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ABB-secure@home – free@home Integration

Webinar “Updates free@home + secure@home”

ABB-secure@home – few steps and secure@home is ready to be interfaced with free@home

ABB-free@home® Home Automation

ABB-secure@home Residential Security



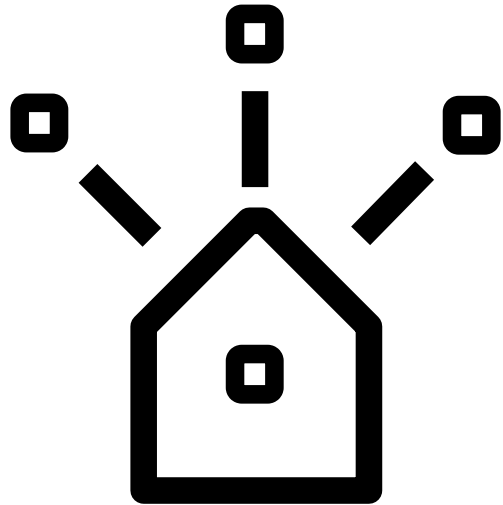
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ABB-secure@home – few steps and secure@home is ready to be interfaced with free@home



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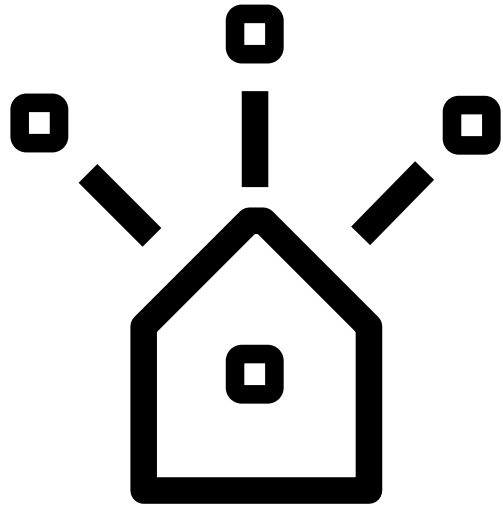
ABB-secure@home – Integration



Fully integrated into
free@home:
arming/disarming, scenes,
actions, remote control

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ABB-secure@home – Integration



Full configuration by
free@home: adding sensors
to security zones, complete
interaction with sensors

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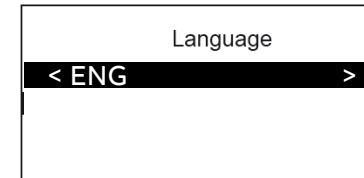
ABB-secure@home – Smart Wizard

Language selection and Installer PIN creation

As soon as the Installer power up the Central Unit for the first time, a smart wizard guides him through the first fundamental steps, in a really easy way

At first, the system requests to set the Language and to define a PIN for the Installer (level 3)

Here, he needs to put in a 5 digit PIN



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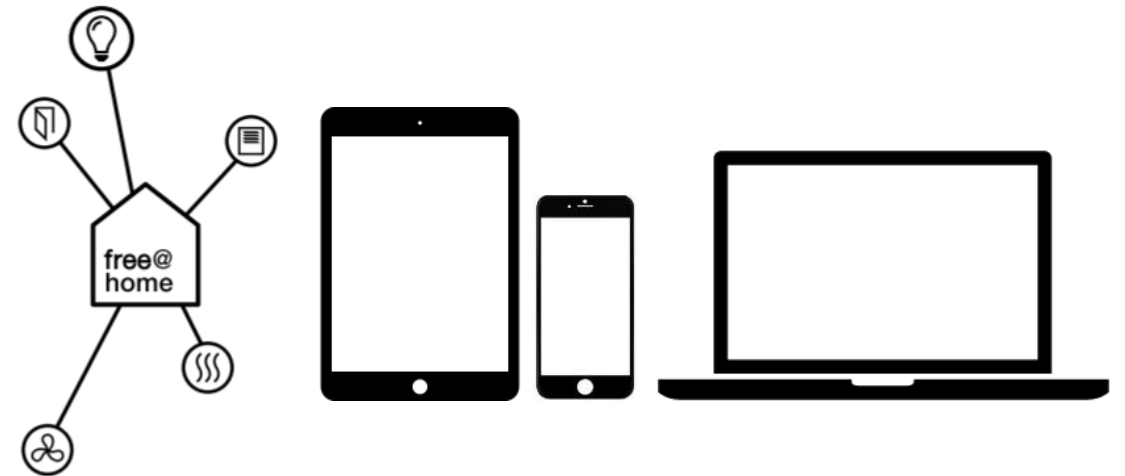
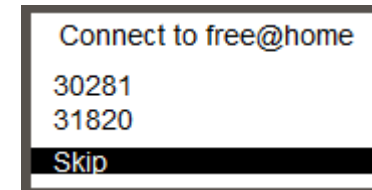
ABB-secure@home – Smart Wizard

ABB-free@home pairing

Here it is shown the encryption key needed to connect the central unit to ABB-free@home and protect the data exchanged. This will be automatically sent to the free@home SysAP

Once paired, secure@home and free@home are ready to work as a unique integrated system, remotely controllable via smartphone, tablet and PC

It is also possible to skip the pairing to use secure@home as a stand alone security system



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ABB-secure@home – Smart Wizard

Set time and date

Data input for setting the date and time, according to the indicated format

Press checkmark to confirm

Date
DD/MM/YYYY
Time
HH:MM

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ABB-secure@home – Smart Wizard

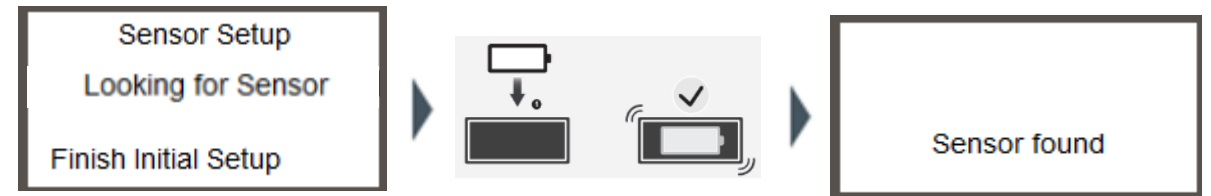
Sensor acquisition

When the Sensor Setup starts, the status "Looking for sensors" is presented

Insert the battery and make the sensor to transmit (sensor-specific)

When found, the message "Sensor found" appears

Sensors' parametrization and zones' assignment can be entirely done from the free@home interface

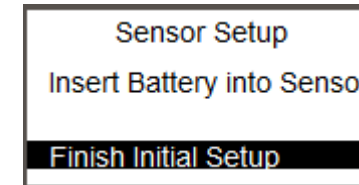


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ABB-secure@home – Smart Wizard

Finish Initial Setup

When all devices are configured, the installer can go to "Finish Initial Setup" (pressing the checkmark)



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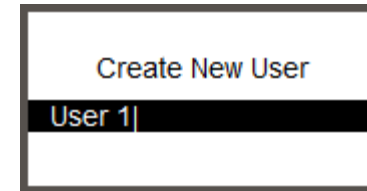
ABB-secure@home – Smart Wizard

User Creation

Before ending the Initial Setup, also almost one End User (PIN level 2) has to be created

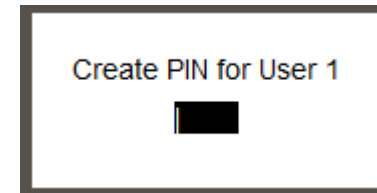
The default label for this first user is User 1. However, the installer can easily change the user name

Here it is requested to create the 5 digit PIN for the End User of the system



Create New User

User 1|



Create PIN for User 1


■

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ABB-secure@home – Smart Wizard

Handover

Once the initial sensors' pairing is done, the system will automatically present the message “Configure via free@home”. Now the system is ready to be entirely commissioned via the free@home interface!



Configure
via free@home

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Functions in free@home – Live Demonstration

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free@home - secure@home

secure@home basic functions

To check if both systems are paired correctly go to «preferences»
→ «secure@home» and see if the AES key is available or not

Integrations	
Hue Bridges	>
secure@home®	>
Sonos	>

secure@home®	
secure@home Central Unit #ABB5000DBC01	>
To make your free@home® installation work with the secure@home Central Unit, it must know the AES key of the Central Unit. Please send the key from your secure@home Central Unit by following the corresponding steps in the manual.	

secure@home®	
secure@home Central Unit #ABB5000DBC01	>
To make your free@home® installation work with the secure@home Central Unit, it must know the AES key of the Central Unit. Please send the key from your secure@home Central Unit by following the corresponding steps in the manual.	
<input type="button" value="Delete AES key"/>	

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free@home – secure@home

Creating zones

1. Add the Central Unit to the installation
2. Create 2 new zones (Zone A and Zone B)
3. Add the secure@home sensors to the zones



ALLOCATION WINDOW SENSOR

Create a new zone +	Zone
MUM Zone A ABB5000DBC01 >	Name secure@home Central Unit Serial Number ABB5000DBC01 Short ID MUM
MUM Zone B ABB5000DBC01 >	
	Zone Zone A Name Zone A Icon

X ✓

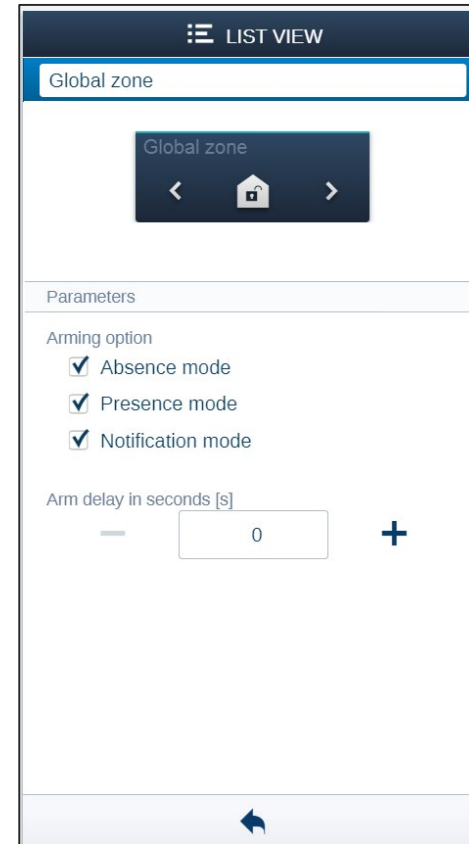
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free@home – secure@home

Arming the system – Part 1

To arm the system, the configuration of secure@home must be blocked

To change settings of secure@home in free@home the configuration must be opened

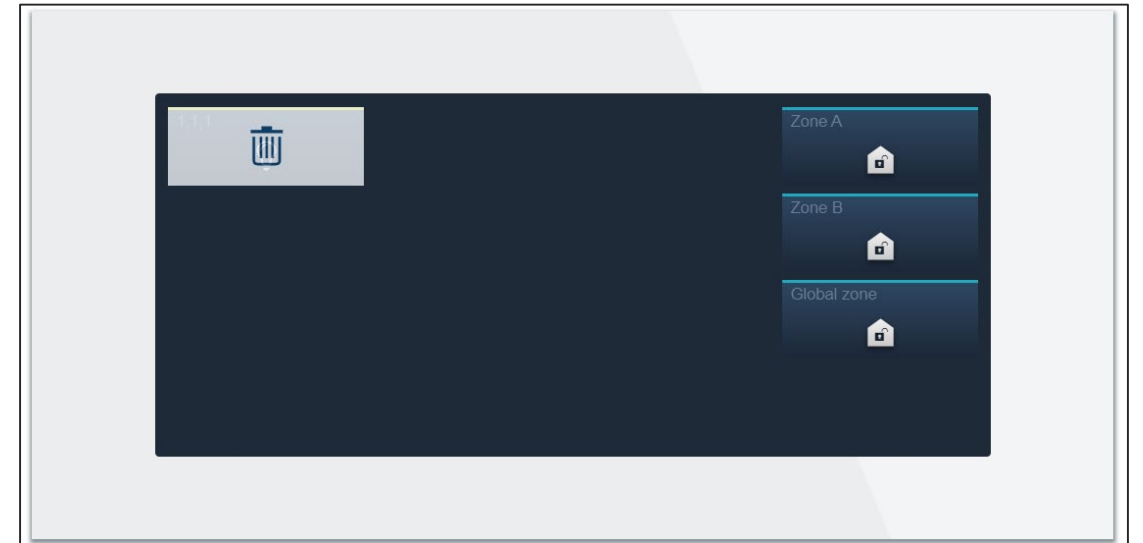


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free@home – secure@home

Arming the system – Part 2

The system can be also armed and disarmed with the 7’ panel and the 4,3’ panel

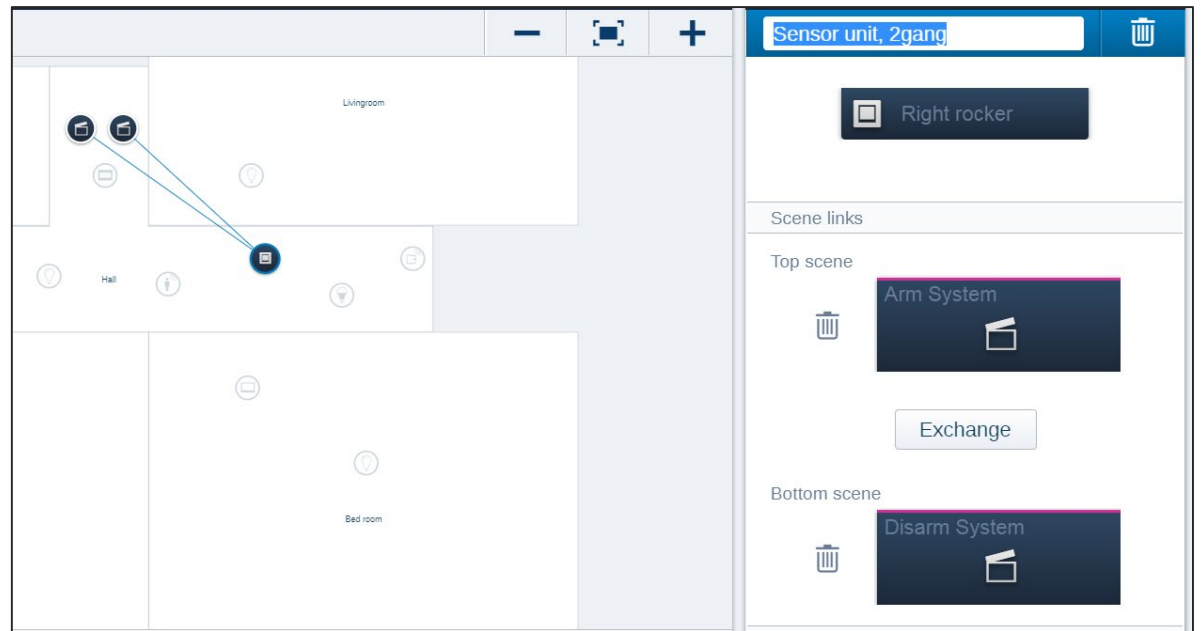
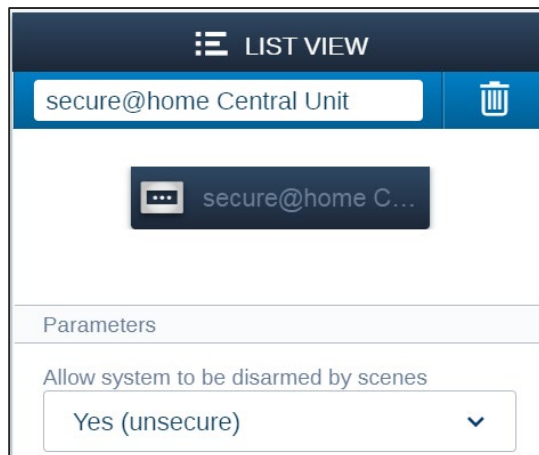


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free@home – secure@home

Different options

1. Allow to disarm the system with scenes (settings of the Central Unit)
2. Create two scenes (Arming and disarming)
3. Arm and disarm the system with a rocker



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free@home – secure@home

Practical example

A customer uses a bar contact to monitor, if the door is locked or not. When leaving the house (lock the bar), the customer wants to arm the system

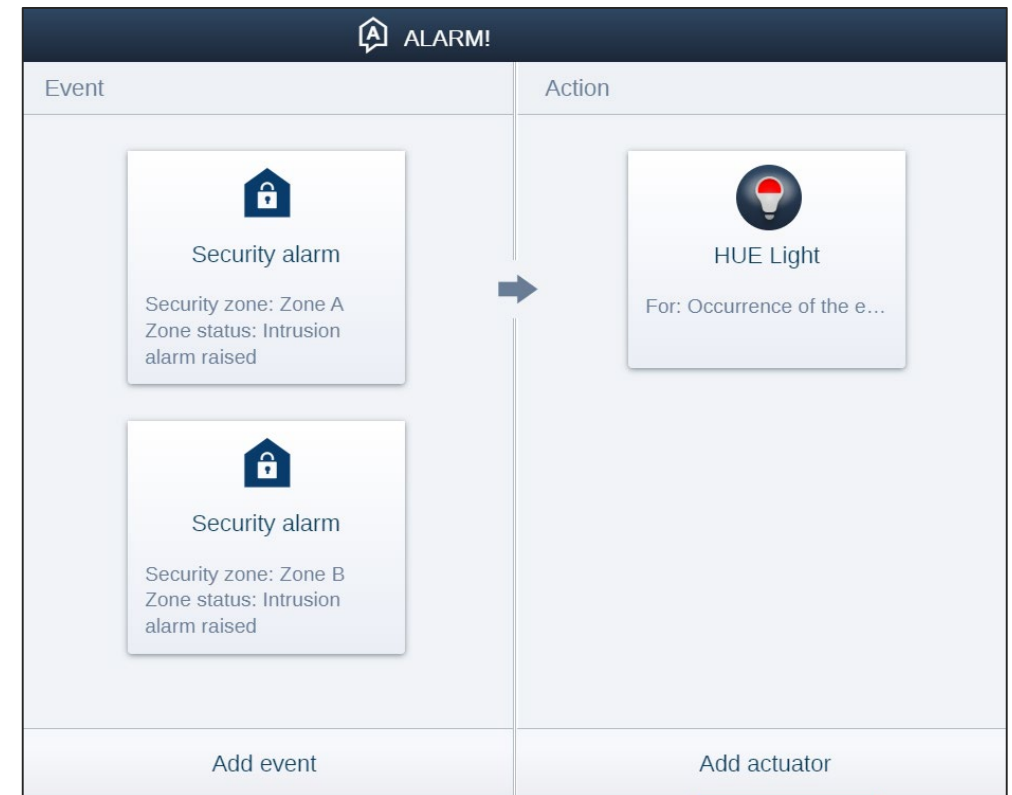


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free@home – secure@home

Raising an alarm

Additional functions, like switching on the light, can be realized when an alarm is triggered



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Smoke alarm portfolio

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Smoke alarm portfolio – Introduction

Overview

The ABB-free@home® Alarm-Stick integrates ABB’s smoke, heat and Carbon Monoxide detectors into ABB-free@home. It connects to the ABB-free@home System Access Point via USB and communicates wirelessly to the detectors.



ABB-free@home® Alarm-Stick



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Smoke alarm portfolio - Motivation

Why

- Provide a holistic portfolio
- Integration into smart home automation system ABB-free@home®
- Provide greater protection from „silent killer“ carbon monoxide (CO)

Overview



Busch-CO alarm detector



Busch-Smoke alarm detector



Busch-Heat alarm detector



ABB-free@home® Alarm-Stick

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Smoke alarm portfolio - Target markets

Overview

CE Markets

Germany, Austria, Belgium

And as well:

Switzerland, Bulgaria, Denmark, Estonia, Greece, Italy, Croatia, Latvia, Lithuania, Luxembourg, Malta, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Hungary, Cyprus, Iceland, Liechtenstein

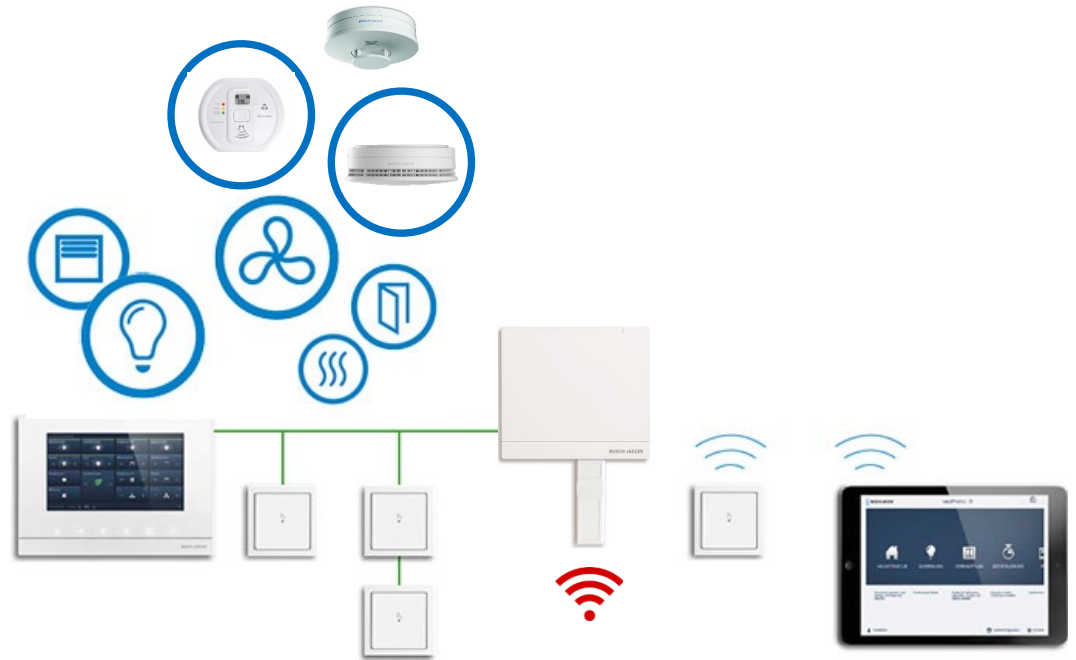
The current solution isn't available due to other local installation habits in following countries:

Netherlands, Norway, Sweden, Finland, Czech Republic, UK and Ireland (230V devices)

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Smoke alarm portfolio - System integration

Alarm integration



- Initiate Push notification/ e-mails
- Empty battery message
- Scene control (switch lamp and blind)
- Alarm localisation
- HUE red light alarm and Sonos start

The network of alarm devices is working autarky, means independent from f@h

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Smoke alarm portfolio - free@home Alarm-Stick

free@home alarm stick SAP/A2.1 and SAP/A2.11

- Suitable for an free@home system integration of Busch-Jaeger smoke/heat and CO-alarm in combination with the right RF-module
- System requirement: free@home System Access Point SAP/S.13 with USB slot
- Acting as receiver
- Is working reactionless, the alarm devices interact autark
- Inclusive USB-extension cord for a comfortable fixing outside the distribution box
- Implement alarm devices as free@home participant
- Allows to integrate alarm devices in scenes
- Trigger push-notifications in case of an alarm on mobile devices
- RF-frequency 868 MHz

Pictures



incl. USB Extension 1,8m

Category

ABB-free@home Alarm-Stick	Busch-free@home Alarm-Stick
SAP/A2.1	SAP/A2.11
2CKA006800A2868	2CKA006800A2867

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Smoke alarm portfolio - Smoke alarm detector RF

6828 Busch Smoke alarm detector RF

- Radio module for use in the Busch-Smoke alarm detector / Heat alarm detector (6833/01-84 and 6835/01-84)
- For the wireless networking of up to 20 radio participants
- Certified according to VdS guideline 3515
- Suitable for the connection of Busch-Smoke alarm detector / Heat alarm detector to external systems such as free@home in combination with the free@home Alarm-Stick
- With permanently installed lithium battery
- Battery service life of at least 10 years
- Radio frequency: 868 MHz
- Range: max. 100 m in the open, max. 30 m inside buildings

Pictures



+



Busch-Smoke alarm detector
ProfessionalLINE



+



Busch-Heat alarm detector
ProfessionalLINE

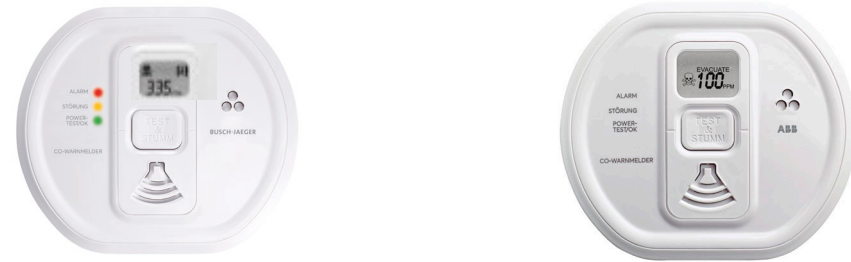
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Smoke alarm portfolio - Busch-CO Alarm ProfessionalLINE

6839/01-84 and 6839/01-84-500

- Suitable for an integration in free@home via suitable RF module and free@home Alarm-Stick
- Including test and mute button
- 3-level signalization and alert concept
- LC-Display to show CO-concentration level
- Approved: BS EN50291-1:2010 and BS EN50291-2:2010
- Acoustic alert with 85 dBA on 3 m.
- Up to 20 alarms interconnectable via RF module (6828-12/ 6828-12-500)
- Size: 120 x 105 x 45 mm (WxHxD)
- Power supply: 3 V lithium battery (not interchangeable) with 10 years battery lifetime

Pictures



Category

Busch-CO Alarm	Busch-CO Alarm
6839/01-84 -500	6839/01-84
2CKA006800A2870	2CKA006800A2869

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Smoke alarm portfolio - Busch-CO-Alarm RF

6828/12 and 6828/12-500

- RF-module for Busch-CO-Alarm (6839/01-84)
- Allows to interconnect with 20 alarms
- Suitable for an integration of Busch-CO Alarm in free@home in combination with free@home® Alarm-Stick
- Easy-Entry-function enable to extend very comfortable the network with additional devices
- Buddy-missing-function detects missing devices within the system
- Power supply: 3 V lithium battery (not interchangeable) with 10 years battery lifetime
- RF-frequency 868 MHz
- RF range max. 100m free field and roughly 30 m in buildings

Pictures



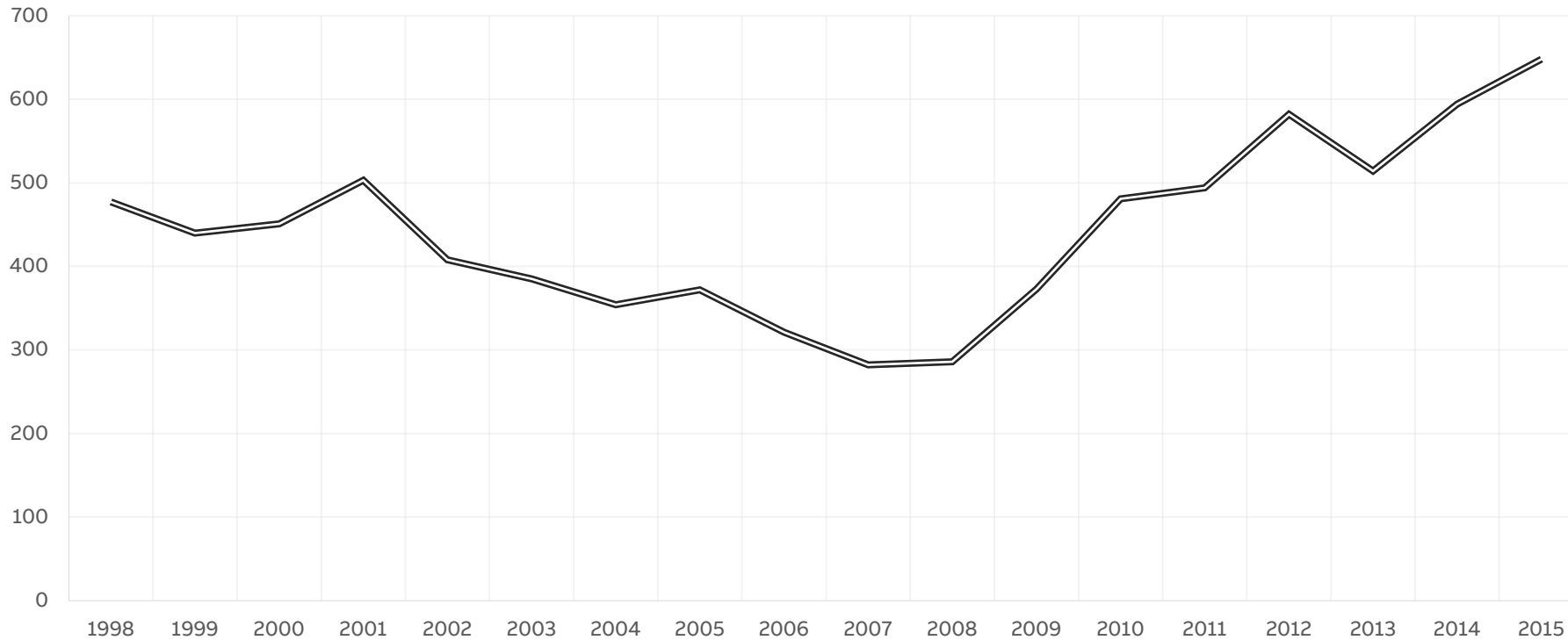
Category

Busch-CO Alarm Radio Module	Busch-CO Alarm Radio Module
6828/12-500	6828/12
2CKA006800A2872	2CKA006800A2871

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Number of deaths through Carbon Monoxide (CO) in Germany

Trend since 2008



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Origin of CO | Combustion of carbonaceous materials

Combustion of:

Solid fuels

- coal
- coke
- wood

Liquid fuels

- oil
- petrol

Gaseous fuels

- natural gas
- liquefied Petroleum gas (LPG)



Heating systems



Single-storey heating



Chimney



Fireplaces



Barbecue



Pellets firing



Waste gases



Shisha

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Carbon Monoxide

Effect in the body

Share of COHb	Effect
4 – 6 %	Smoking; Impairment of psychomotor abilities;
7 – 10 %	Cardiovascular changes
10 – 20%	Mild headache, weakness, burden on an unborn baby
20 – 30%	Severe headache, nausea, impaired movement of the limbs
30 – 40%	Severe headache, irritability, confusion, impairment of visual acuity, nausea, muscle weakness, dizziness
40 – 50%	Convulsions, unconsciousness
60 – 70%	Coma, collapse, death

- Carbon monoxide enters the body via the breathing
- The carbon monoxide enters the bloodstream via the lungs
- There carbon monoxide combines with the body's own hemoglobin (red blood cells)
- CO can not be used by the body and blocks the oxygen uptake (CO connects about 220 times better with the hemoglobin than O2)

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Installation of Carbon Monoxide detectors



In every room
with fireplace



In every room
with heating

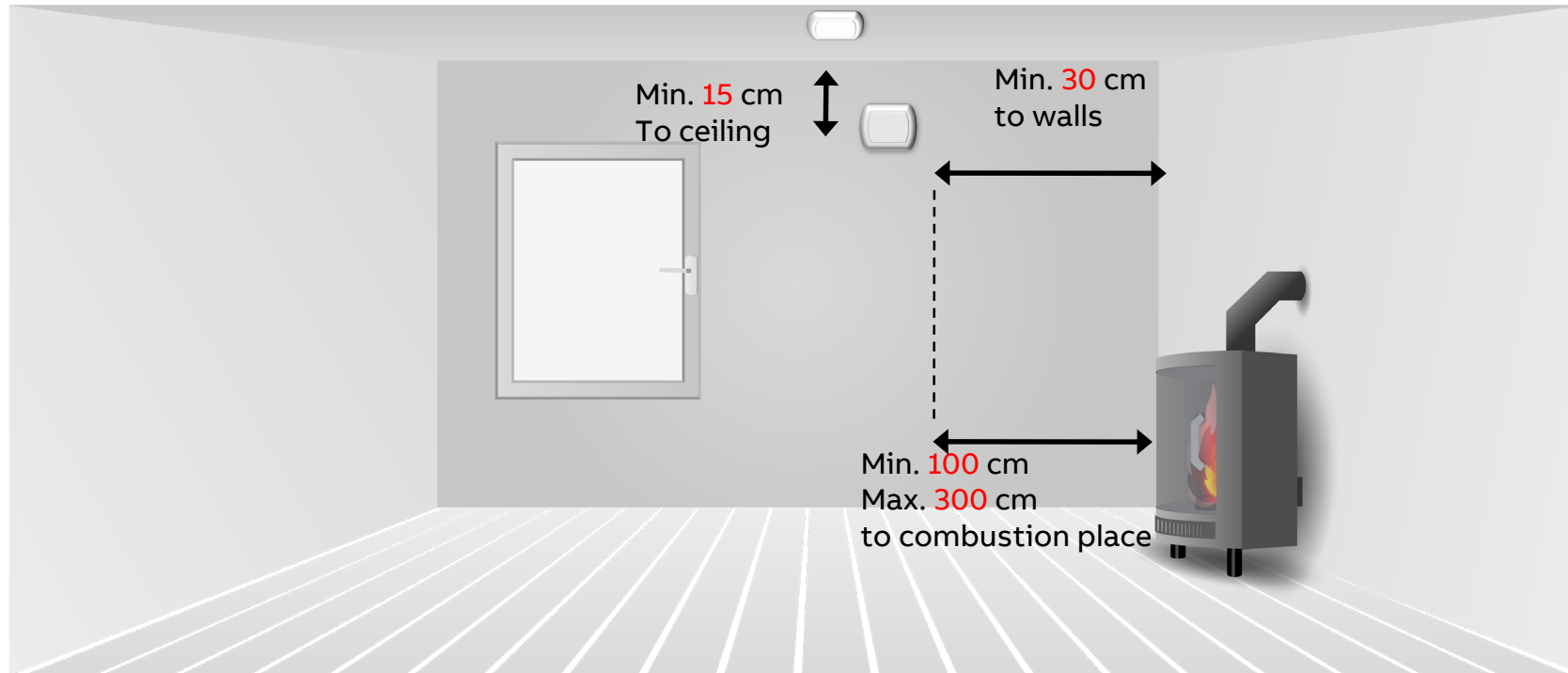


In every room
with chimney

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Where to install Carbon Monoxide detectors?

Right positioning



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Smoke alarm portfolio - Busch-Alarm controller RF

6824/11-84

- Battery driven RF remote pushbutton control element
- Control for a mixed network of Busch-smoke/heat and CO-Alarm
- Single pushbutton control
- Localization- acoustic single ident of the alarming device
- Mute- alarms in case of false
- Test- central activation of test alarms in case of service
- Surface mounted
- Power supply: 3 V lithium battery (not interchangeable) with 10 years battery lifetime
- RF-frequency 868 MHz
- Size WxHxD: 90 x 90 x 23 mm

Pictures



Category

Busch-Alarm Controller RF

6824/11-84

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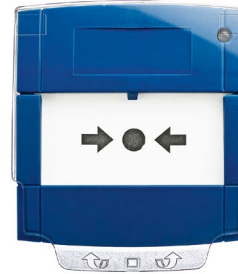
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Smoke alarm portfolio - Busch-Emergency button RF

6824/12

- For manual activation of an alarm in a mixed network of Busch-Smoke/Heat and/CO-Alarm
- Allows to interconnect with 20 alarms
- Status LED
- Surface mounted
- Included in scope of delivery : 1x reset-tool; 1x transparent-cover; 1x seal
- Power supply: 3 V lithium battery (not interchangeable) with 10- years battery lifetime
- RF-frequency 868 MHz
- Size: 85 mm x 85 mm x 58 mm (W x H x D)

Pictures



Category

Busch-Emergency button RF

6824/12

2CKA006800A2874

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Smoke alarm portfolio - Installation

Guideline

1. Precondition: firmware update to 2.4.0 and SAP/S.13
2. Connect alarm stick
 1. Connect the alarm stick to one of the two USB-ports of the free@home System Access Point 2.0
 2. Use the USB cable, if the SysAP is installed inside the cabinet
3. Create detector network
 1. Activate coding mode of the alarm stick
 1. Open the free@home user interface and navigate to the system settings → alarm stick
 2. Activate the coding mode
 2. Start the networking of all detectors
 1. Press coding button, until the LED of the interface module turns red/blue (Smoke detector / CO detector)
 2. Do the same for all other detectors to connect them automatically to the network
 3. After all detectors are connected leave the coding mode by a short press of the coding button
 4. Devices can be commissioned in free@home now

Integrations	
secure@home@	>
ABB-free@home@ Alarm Stick	>

Programmed alarm units: 4

Deactivating the coding mode

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Smoke alarm portfolio - Live Demo

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Functions



Smoke/heat alarm unit



Alarm unit

Fire alarm

If a smoke detector or a heating detector triggers an alarm, the user will receive a notification in the free@home interface, on a free@home panel or on his mobile device



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Functions



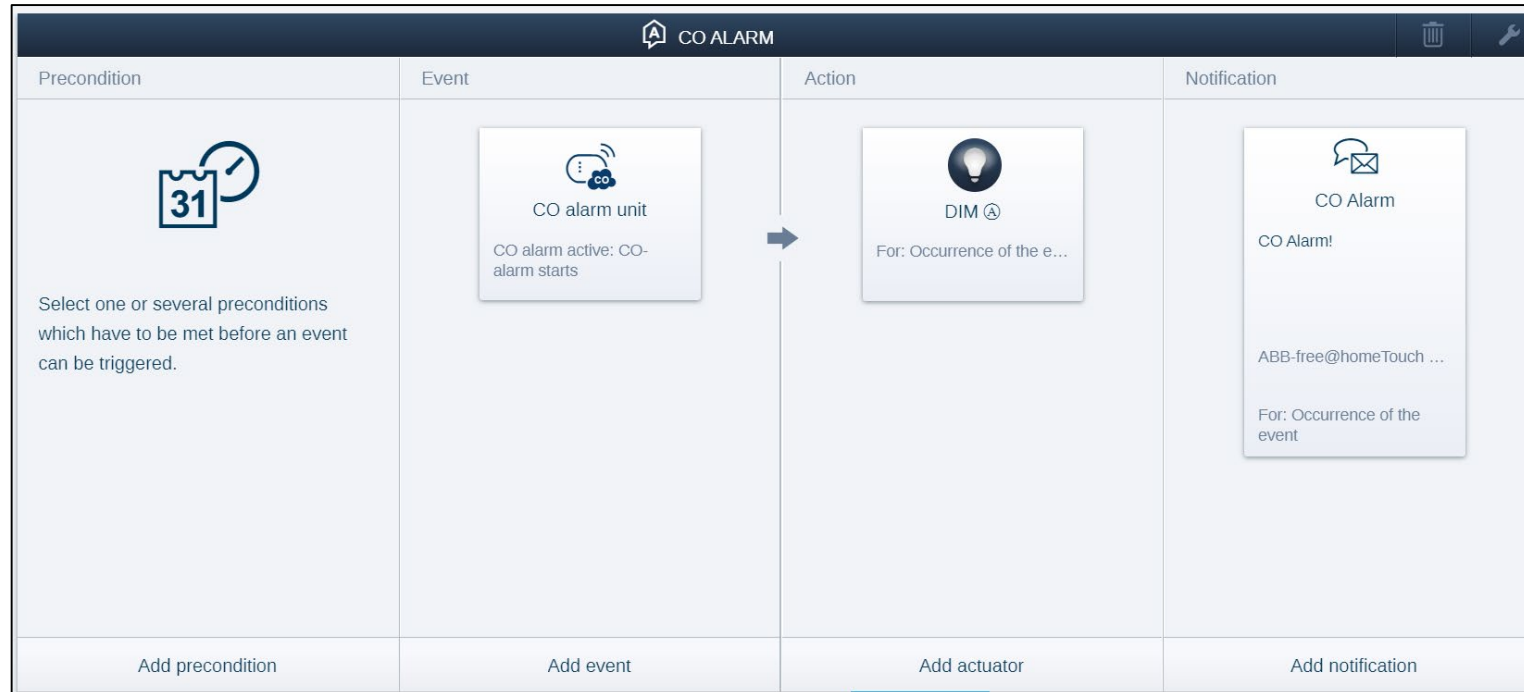
CO alarm unit



Alarm unit

CO alarm

If a CO-detector triggers an alarm, the user will receive a notification in the free@home interface, on a free@home panel or on his mobile device.



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Functions

Actions

All detectors can be used in actions in the free@home interface to trigger different scenes or actuators. All actions will be also triggered, when the test mode of the detector is used

Examples:

- In case of an fire all lights in the house should turn on and all blinds should go up to open all possible escape routes
- In case of an increased carbon monoxide concentration in the basement, the fan should turn on for a better air exchange

Hint:

Scenes, which are triggered by a certain detector will be also triggered, if another detector of the same type will trigger an alarm

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Functions

Further points

Battery

- All detectors and the modules have a 10-years-guarantee
- As soon as the lifetime is below 30 days an acoustic signal will sound up and the user will get a notification in free@home

Removing the alarm stick

- If the alarm stick will be removed, the user will get a notification in the free@home interface

What is not possible?

- free@home cant trigger a test alarm
- free@home cant mute a detector
- free@home will not get a notification, if one of the detectors will be removed
- Battery status cant be obtained manually

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Summary

Advantages

- Easy commissioning and linking in ABB-free@home
- No wiring
- Easy planning (only one additional device)
- Compatible to existing detectors of ABB
- Push-notifications with detailed information
- Triggering smart home functions
- Differentiation between smoke-/heat-/carbon monoxide-alarms
- Notification, if battery is empty

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free@home - System access point Firmware 2.4.0

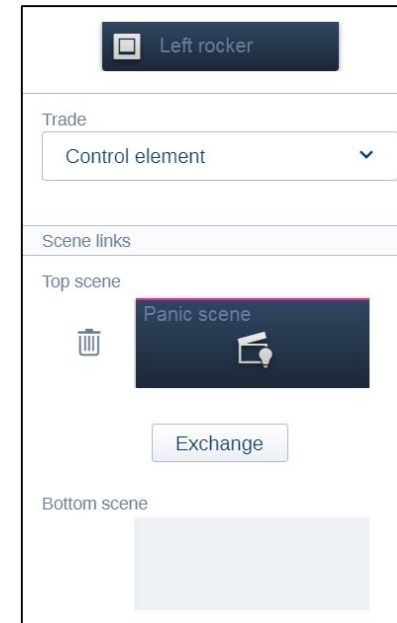
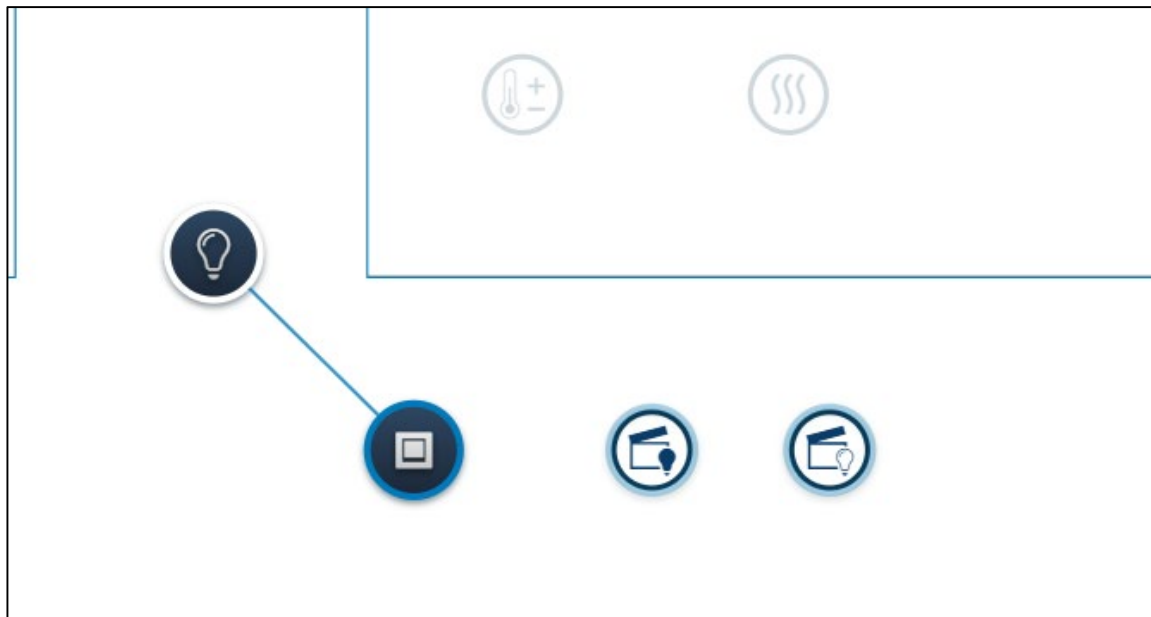
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Feature Enhancements

Double click function for wired sensors

New Feature: Trigger Scenes by double click (now also for wired free@home Sensors)

The Rockers or Pushbuttons can now be used to trigger a scene in addition to it's normal function!

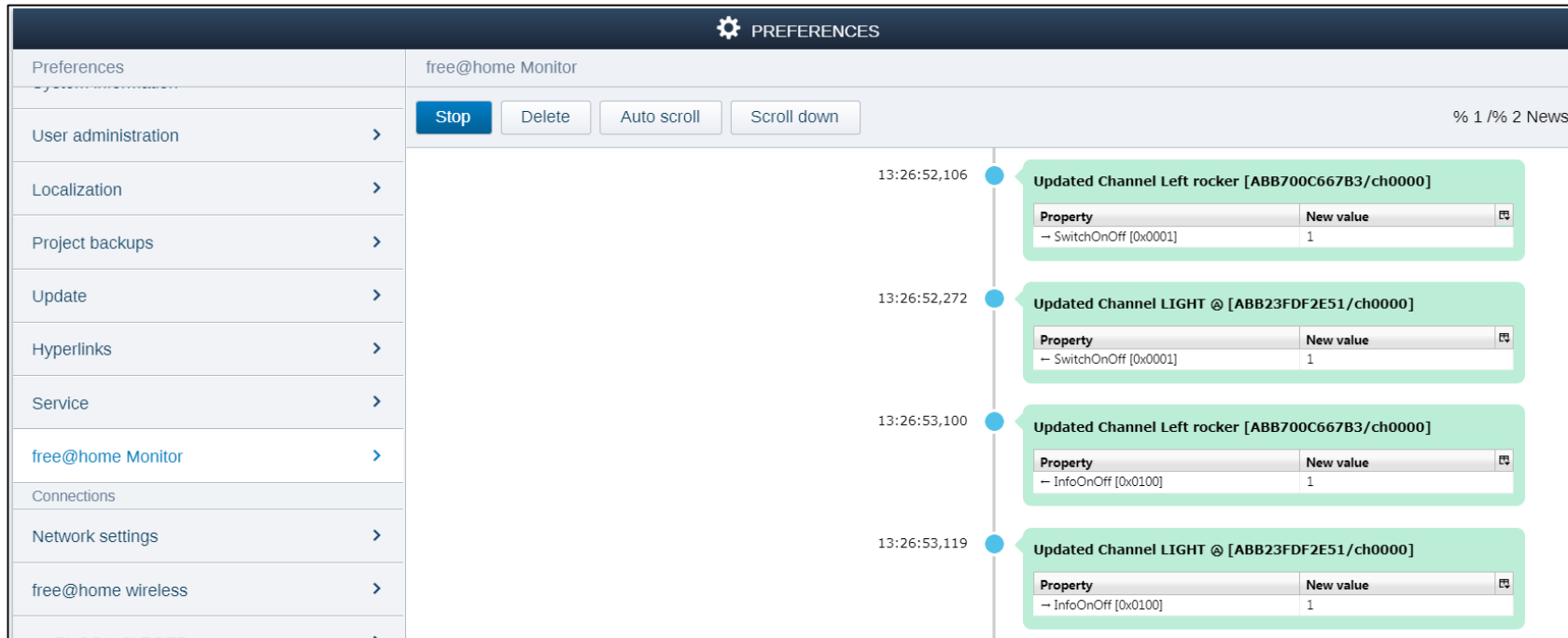


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Feature Enhancements

free@home monitor

New Feature: free@home Monitor: Shows all telegrams that are sent on the Bus for debugging purposes



The screenshot displays the 'free@home Monitor' interface within the 'PREFERENCES' settings. The interface is divided into a left sidebar with navigation options and a main content area for monitoring telegrams.

Navigation Sidebar:

- Preferences
- User administration >
- Localization >
- Project backups >
- Update >
- Hyperlinks >
- Service >
- free@home Monitor >
- Connections
- Network settings >
- free@home wireless >

free@home Monitor Controls:

- Buttons: Stop, Delete, Auto scroll, Scroll down
- Progress indicator: % 1 / % 2 News

Telegram Log Entries:

- 13:26:52,106** Updated Channel Left rocker [ABB700C667B3/ch0000]
Property: - SwitchOnOff [0x0001] | New value: 1
- 13:26:52,272** Updated Channel LIGHT @ [ABB23FDF2E51/ch0000]
Property: - SwitchOnOff [0x0001] | New value: 1
- 13:26:53,100** Updated Channel Left rocker [ABB700C667B3/ch0000]
Property: - InfoOnOff [0x0100] | New value: 1
- 13:26:53,119** Updated Channel LIGHT @ [ABB23FDF2E51/ch0000]
Property: - InfoOnOff [0x0100] | New value: 1

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Feature Enhancements

Project backups to a USB memory stick

New Feature: System Access Point 2.0: Functional update for the USB-Ports:

- Project backups can be transferred to a plugged in USB-Stick
- Project Backups can be imported from a plugged in USB-Stick
- Firmware Updates can be loaded from a plugged in USB-Stick


Update >	Updates from USB memory stick
Hyperlinks >	Plug a USB memory stick into the System Access Point. If firmware update files for the System Access Point or the individual devices are available, you can download the updates.
Service >	<input type="button" value="Transmit firmware from the USB stick"/>

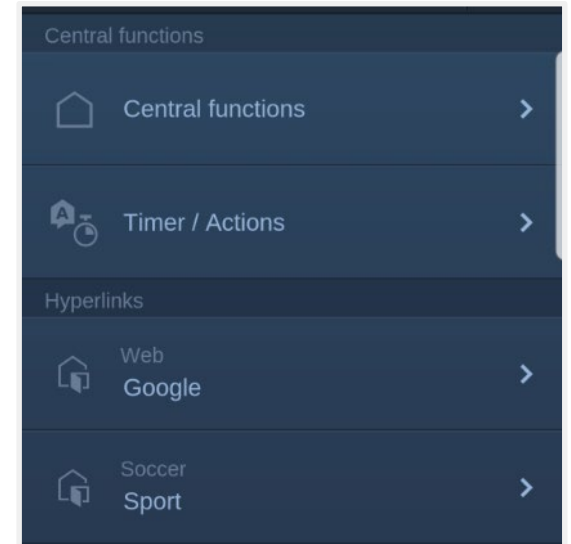
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Feature Enhancements

Hyperlinks

Under “Preferences -> Hyperlinks” the user can create custom bookmarks to external html pages. These Bookmarks will be displayed in the homeowners view of the app below the “Central Functions” categories

⚙️ PREFERENCES	
Hyperlinks	ABB 
Create hyperlink	<input type="text" value="ABB"/>
+	Category <input type="text" value="Internet"/>
ABB	URL <input type="text" value="https://new.abb.com/"/>
Internet	



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Feature Enhancements

Documentation

“Preferences -> System information -> Documentation”; creates a PDF document that includes system information on Firmware Version, Devices, connections, serial numbers, ...

System information

Devices	20
Bus	Connected
Operating time	511m (0d 8h)
Documentation	<button>Create</button>

GENERATE PROCESS DOCUMENTATION

Please enter the contact data of the installation company.

Nome	<input type="text" value="Martin Wichary"/>
Address	<input type="text" value="Freisenbergstraße 2"/>
Telephone	<input type="text" value="+492351 9561352"/>
Mobile	<input type="text" value="+49 175 3113720"/>
E-mail	<input type="text" value="martin.wichary@de.abb.com"/>

Export free@home wireless key

#4	Serial Number: ABB2B2300000	Short ID: GQO			
Type	Blind actuator, 4gang, MDRC				
Channels					
Type	Channel	Nome	Floor	Room	Links
Blind actuator	1	BLIND Ⓐ	Ground floor	Bed room	
Blind actuator	2	BLIND Ⓑ	Ground floor	Bathroom	
Blind actuator	3	BLIND Ⓒ	Ground floor	Livingroom	
Blind actuator	4	BLIND Ⓓ	Ground floor	Kitchen	

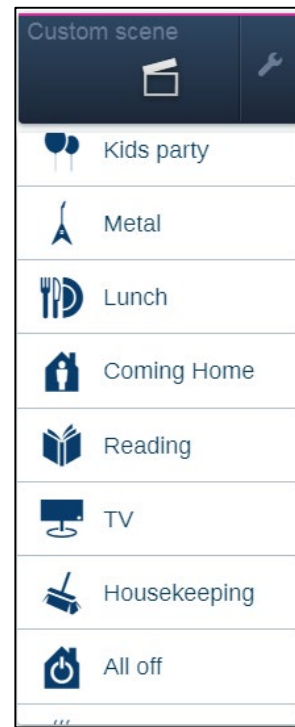
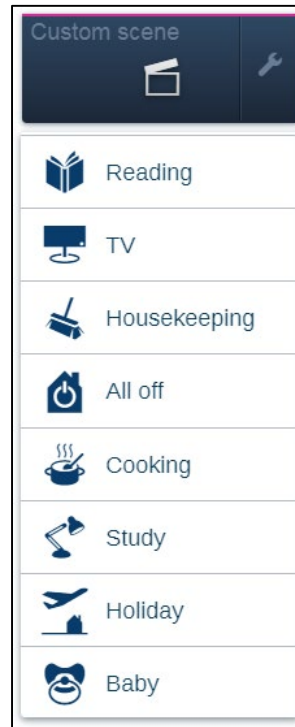
#5	Serial Number: ABB700D20327	Short ID: ZQC			
Type	Dimming actuator, 4gang				
Channels					
Type	Channel	Nome	Floor	Room	Links
Dim actuator	1	DIM Ⓐ	Ground floor	Bed room	
Dim actuator	2	DIM Ⓑ	Ground floor	Bathroom	
Dim actuator	3	Ⓒ			
Dim actuator	4	Ⓓ			

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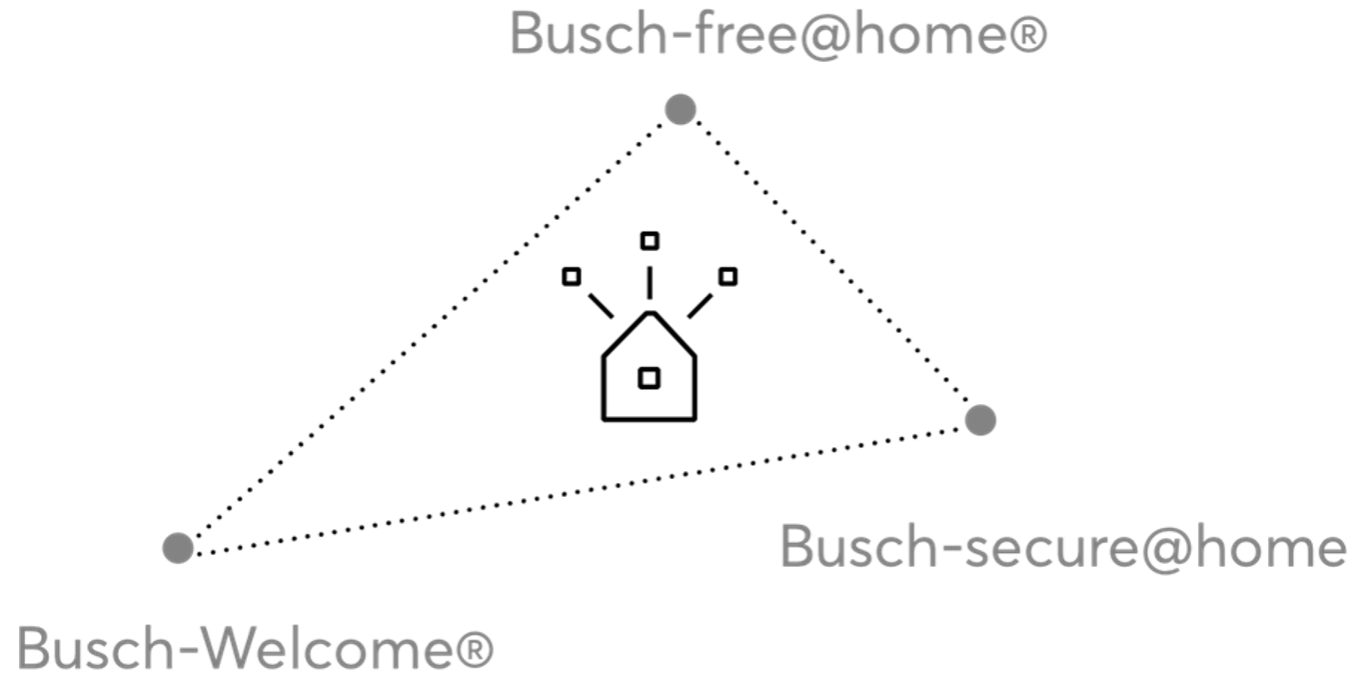
Feature Enhancements

New scene icons

10 additional icons to choose from for scenes: Holiday, Baby, Lunch, Coming Home ,Reading, TV, Housekeeping, All Off, Cooking, Study



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secure@home – Wrap-up

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Training & Qualification Database

In this database you can find the complete online training portfolio for ABB Home and Building Automation

The database includes the following types of training content:

- Application Manuals
- E-Learnings
- Presentations
- Video tutorials
- Webinar slides and videos

www.abb.com/knx or <https://go.abb/ba-training>

→ Training and Qualification

→ Training Database

The screenshot displays the ABB Training & Qualification Database website. The page includes a navigation menu with the ABB logo and the text 'HOME • OFFERINGS • LOW VOLTAGE PRODUCTS • HOME AND BUILDING AUTOMATION • TRAINING & QUALIFICATION DATABASE'. Below the navigation is a search bar and a main heading 'Training & Qualification Database'. The main content area features a large image of a man in a white shirt holding a tablet. Below the image, there is a list of training content types: Application Manuals, E-Learnings, Presentations, Video tutorials, and Webinar slides and videos. A red arrow points from the 'Webinar Videos' section to a video player showing a webinar titled 'ClimaECO – BA-Controller KNX BAC/S'.

Webinar “Updates free@home + secure@home”

Training & Qualification Calendar

In addition to the online modules and the traditional training programs offered by your local ABB sales team, we offer a variety of on-site trainings conducted by our specialists at different ABB training facilities

In this Training & Qualification Calendar you can find the educational events that are taking place during 2020

If you are interested in a training please click the training und you will be forwarded to register in “ABB MyLearning”

www.abb.com/knx or <https://go.abb/ba-training>

→ Training and Qualification

→ Training Calendar



ABB HOME • OFFERINGS • LOW VOLTAGE PRODUCTS • HOME AND BUILDING AUTOMATION • TRAINING AND QUALIFICATION • TRAINING & QUALIFICATION CALENDAR GLOBAL SITE

Training & Qualification Calendar

In addition to the online modules and the traditional training programs offered by your local ABB sales team, we offer a variety of webinars and on-site trainings conducted by our specialists at different ABB Competence Centers.

In this Training & Qualification Calendar you can find the educational events that are taking place during 2018.

If you are interested in a training please [REGISTER HERE](#).

To search the Calendar, select the required search criteria. To make multiple selections press [Ctrl].

System	Date	Location
All	All	Webinar
Door Entry Systems	January 2018	Heidelberg, Germany
Free@home	February 2018	Lödenscheid, Germany
Fire Alarm Systems	March 2018	s. Palombina (Rome), Italy
I-bus KNX	April 2018	Virtuone (Milan), Italy

Content	Date	Location	Language
KNX for Commercial Building	05.04.2018 - 06.04.2018	Lödenscheid, Germany	EN
Building Automation Light + Building 2018	10.04.2018	Webinar	EN
KNX in Hotels	19.04.2018 - 20.04.2018	Heidelberg, Germany	EN
HVAC Automation	23.04.2018 - 24.04.2018	Heidelberg, Germany	EN

ABB MyLearning

HOME CATALOG PROFILE ADMINISTER REPORTS MY LEARNING

CERTIFIED KNX BASIC COURSE
Code : 9CSC007151-GLB-EN-20190218_22
Certified KNX Basic Course at ABB in Heidelberg, Germany, 5 days
★★★★★ | Share

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KNX Certified Trainings 2020

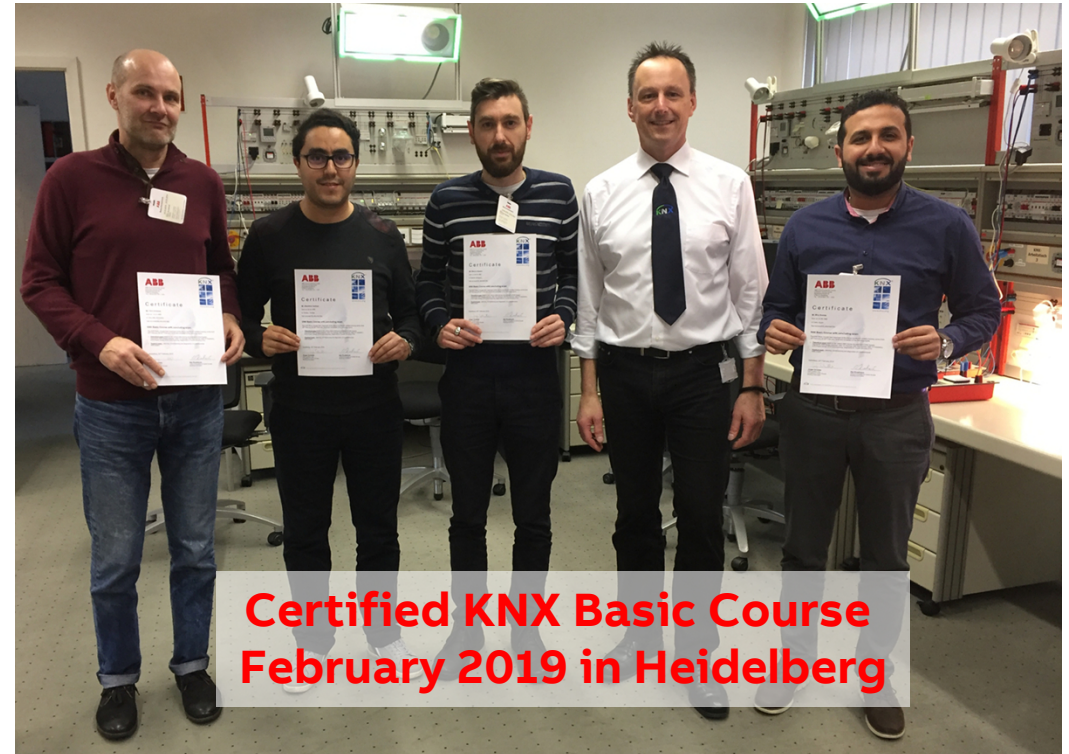
Certified KNX Courses in Heidelberg

- Basic Course : 17th to 21st Feb.
- Advanced Course: 13th to 17th Jul.
- Tutor Course: 19th to 23rd Oct.
- Basic Course : 16th to 20th Nov.
- Followed by two day application training

And many more training courses in the calendar
“International Training Dates 2020”

www.abb.com/knx or <https://go.abb/ba-training>

Safe the date!!!



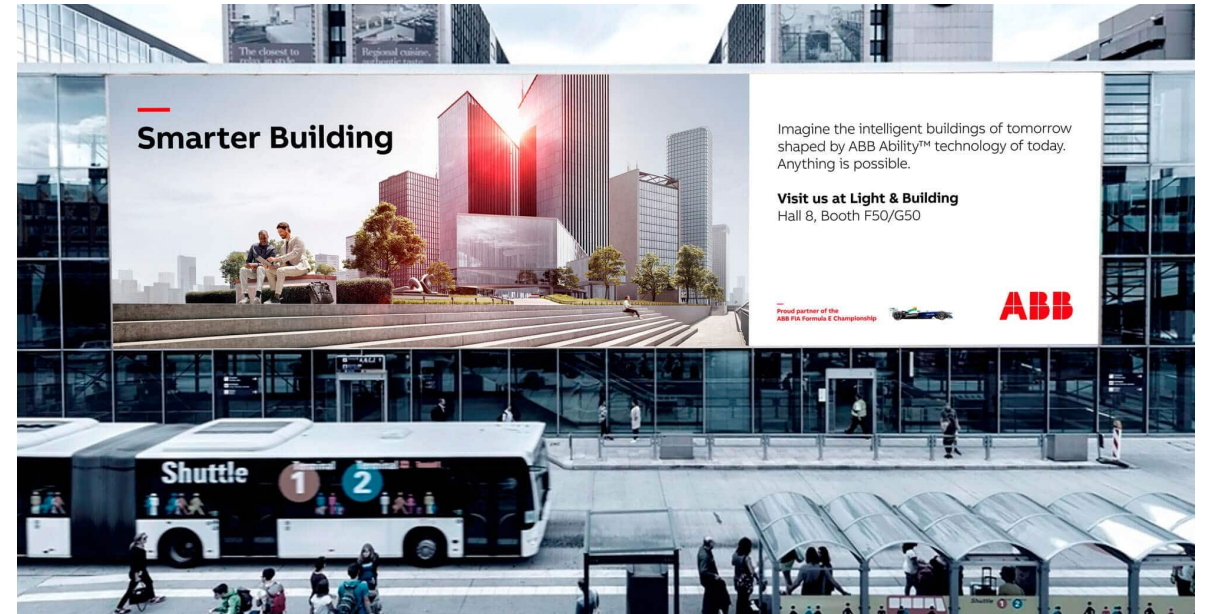
Webinar “Updates free@home + secure@home”

Light + Building

The world’s leading trade fair for lighting and building services technology

– 8. – 13. March 2020 in Frankfurt/Germany

– **NEW:** ABB now in Hall 12



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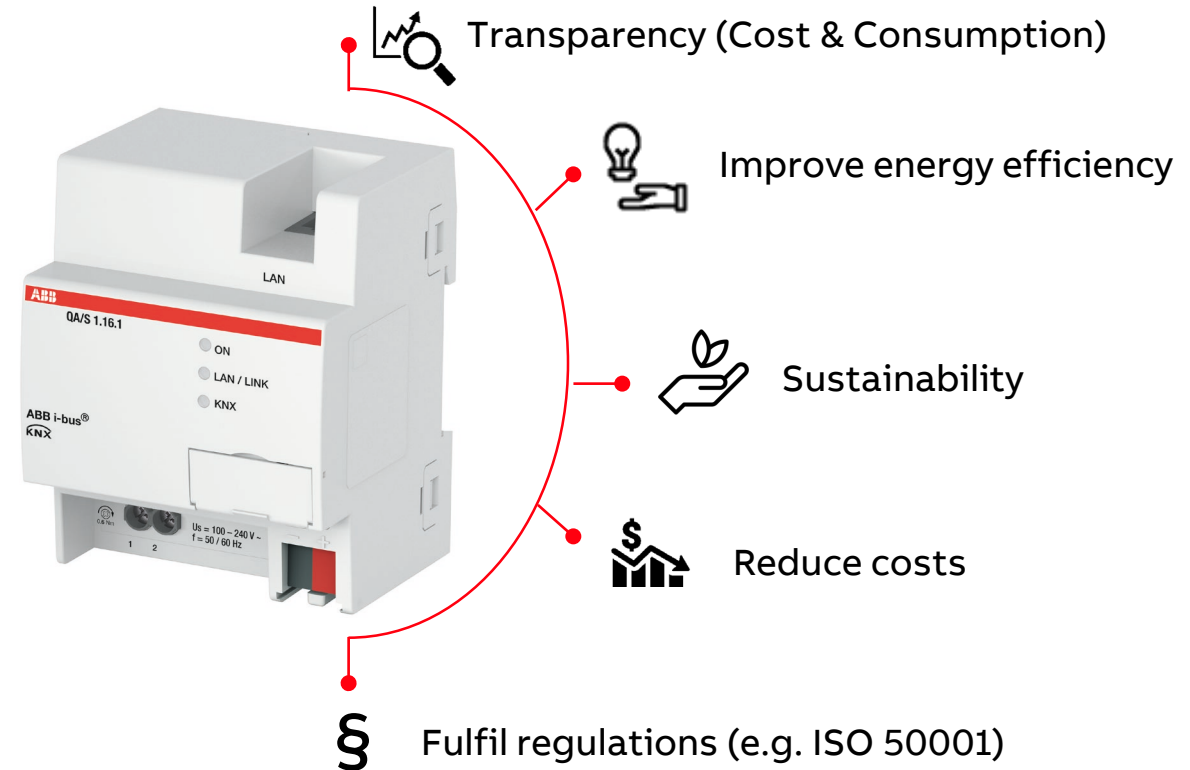
Next Webinar

QA/S 1.16.1 Energy Analyzer KNX

- Device overview
- Commissioning with ETS
- New software features
 - Load Control function for improved energy efficiency
 - Alarm functions (e.g. measured value is exceeded)
 - Monitoring and tracking of environmental sensor data
- Demonstration in practice

Wednesday 22nd January 2020

- Morning 09:00 am Europe Time (Berlin, UTC + 1h)
- Afternoon 03:00 pm Europe Time (Berlin, UTC + 1h)



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