



INTRODUCTION

Busch-SmartTouch® KNX

The 7" SmartTouch



Busch-SmartTouch® KNX

Motivation and objectives

Busch-SmartTouch® KNX - your smart display for the smart buildings of today.

A smart display with many integrated applications for smart buildings, like KNX controls and door communication. The door entry system ABB-Welcome or Welcome M are ready to use without additional equipment. All integrated smart functions are easy to operate at the touch of a fingertip; it is as easy to use as a smartphone. The slim design makes the Busch-SmartTouch® KNX a real eye-catcher.

- Easy and comfortable central control panel for KNX
- Video indoor station for Welcome and Welcome M
- Commissioning with ETS4 and ETS5 via new DCA (Device Configuration App)
- Replacement of the previous SmartTouch 5,7"
- One panel below € 1000,-



Busch-SmartTouch® KNX

Brief description

- 7" capacitive touch display
- Real materials - glass and stainless steel
- Simple visualization with the help of existing control frames, color concept and page links for the navigation
- Complete video indoor functionality of the door entry system ABB-Welcome or Welcome M
- Possible to be flush mounted, surface mounted or be mounted on a desk stand
- Either separate 24V power supply or power supply through the door entry system



Busch-SmartTouch® KNX

Detailed description

- Max. 480 control elements on max. 30 pages
- Easy user interface
- Commissioning via ETS
- Favourites page and time programs can be created by end customer
- Direct KNX connection
- Direct connection to ABB-Welcome (M)
- Noiseless (no fan)
- LED backlighting
- Integrated loudspeaker (e.g., acoustic feedback, alarm message, Welcome door communication)
- Micro CD-Card slot (SDHC) + SD-card with operating system



Power consumption:	9.5 watts
Voltage range:	20-32 VDC
Display resolution:	1024 x 600 pixel
Display colors:	16 million
CPU:	ARM Cortex-A9
Operating temperature:	-5°C to + 45°C
Storage temperature:	-20°C to + 70°C
Relative Humidity:	0 to 90% (non-condensing)
IP class:	IP20
Other connections:	KNX, Welcome, Hearing loop
Measurements:	244 x 166 x 24 mm
Thickness (mounted):	13 mm

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Controls and Applications

- Switch
- Rocker switch
- Dimmer
- Dimmer slider
- Blinds
- Scene
- Fan switch
- RGBW control
- Value slider
- Display element
- RTR control
- Audio control
- Page link
- Scene editor with central dimming function
- Weekly timer (with Astro)
- Logic functions
- Alarms (divided into 3 groups)
- Presence simulation
- Object RTC + temperature sensor
- Welcome (Direct Welcome 2-wire connection)



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Scope of application



- Residential buildings
- Apartments
- Family home
- etc.



- Multipurpose buildings (e.g., conference rooms)
- Small offices
- Restaurants
- etc.



- Hotels
- Suites
- Lobby
- etc.

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Design



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Design

Old 5,7 inch

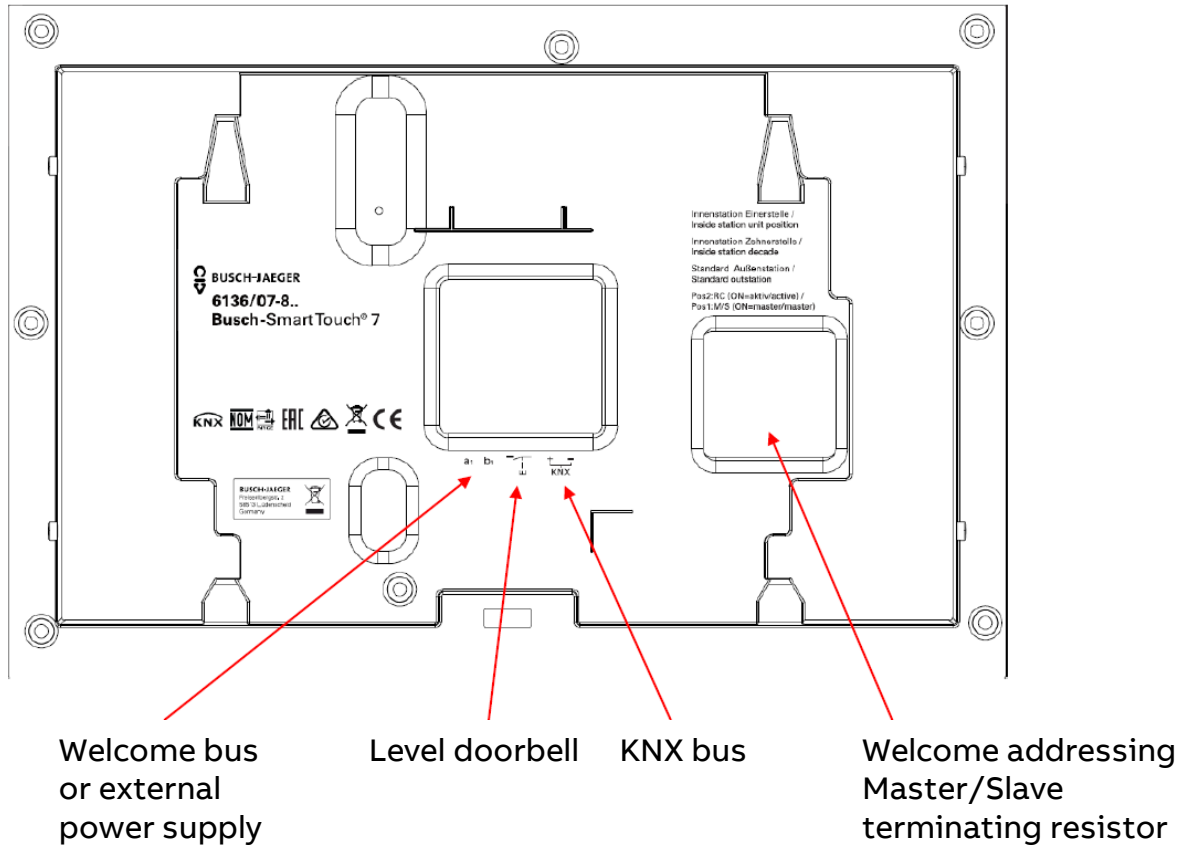


New 7 inch



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Connections

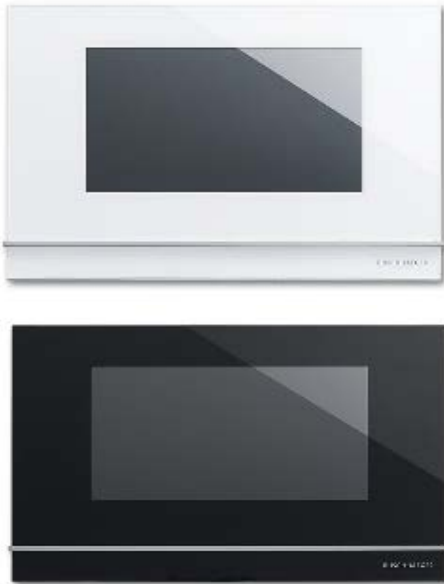


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Product overview

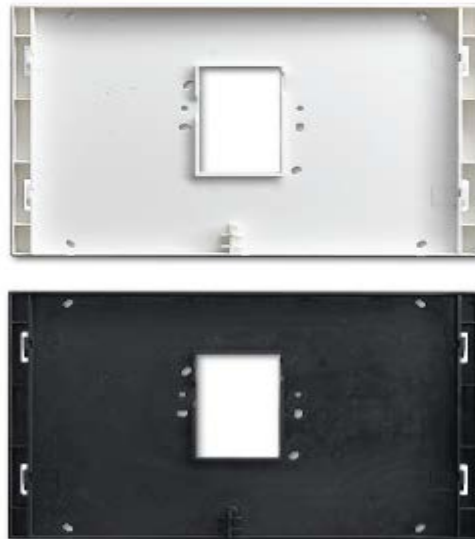
Busch-SmartTouch®

Black or white



Surface mountable frame

Black or white, mountable on standard flush-mounted boxes, on the old flush-mounted box or on the desk stand



Flush mountable box

Black, for masonry or cavity walls

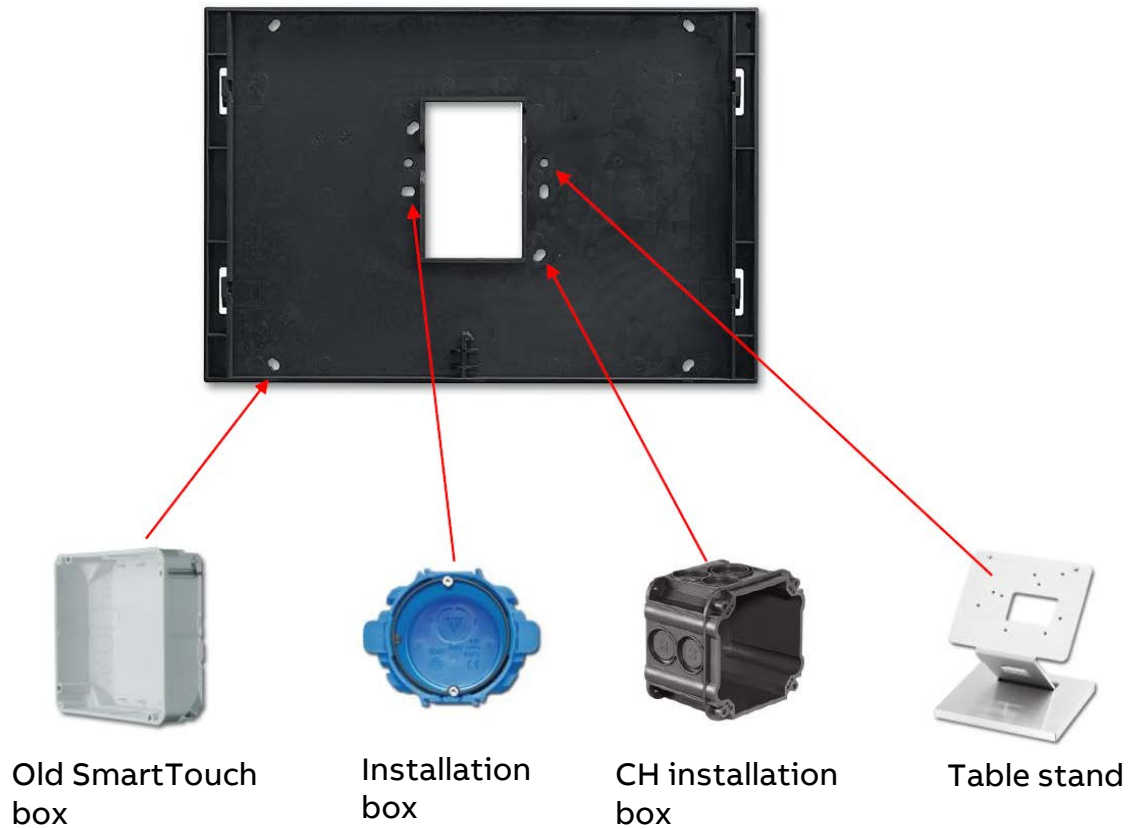


Desk stand



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Connections



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Comparison old -> new

Function	Old panel: 5,7“	New: Busch-Smart Touch® KNX 7“
KNX control elements	210	480
RGB control element	No	Yes
Pages	21	30
Alarm messages	50	80
Alarm system	Yes	No
Infrared (RC5 or B&O)	Yes	No
Presence simulation	Yes	Yes
Scene actuator	Yes	Yes
Logic functions	20	30

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Comparison old -> new

Function	Old panel: 5,7“	New: Busch-Smart Touch® KNX 7“
Internal RTC	Yes	Yes
Time programs	20	30
ABB-Welcome	No	Yes
Favorite page	No	Yes
Macro Recorder	Yes	No
Power supply	230 V	24 V
Touchscreen	resistive	capacitive
Material	plastic	glass
Display size	5.7 Inch	7 Inch
Pixel	320 x 240	1024 x 600

Busch-SmartTouch® KNX

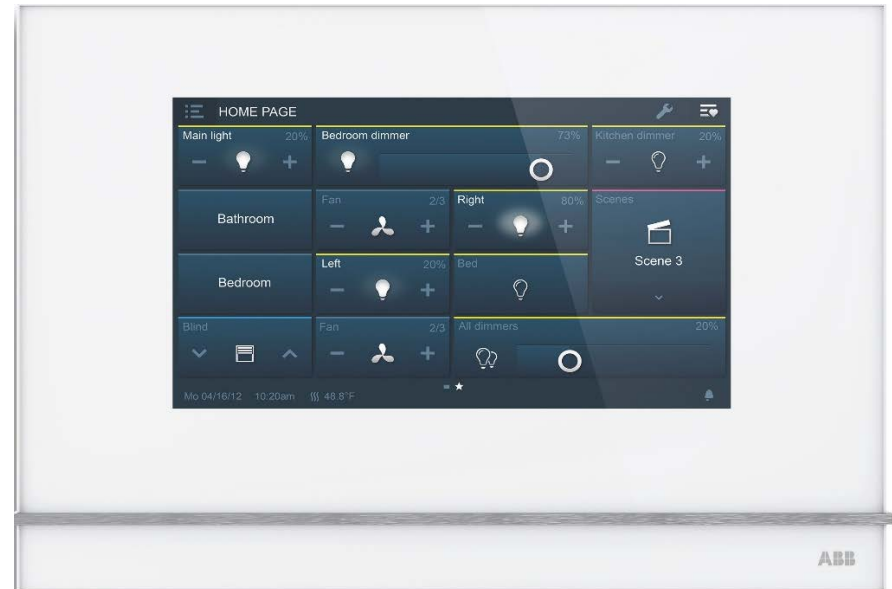
Comparison old -> new

Item	Data
Power consumption	9.5 Watt
Voltage range	20-32 V
Display resolution	1024 x 600 pixel
Display colour	16 Mio.
CPU	ARM Cortex-A9
Operating temperature	-5° C to 45° C
Storage temperature	-20° to 70° C
Relative humidity	0 to 90 % r.H.
IP class	20
Additional connections	KNX, ABB-Welcome 2-wire, induction loop
Size	244 x 166 x 24 mm, on top of the wall 13 mm

Busch-SmartTouch® KNX

Product range in detail

- 6136/07-811-500 Busch-SmartTouch® 7, FM €998,-
- 6136/07-825-500 Busch-SmartTouch® 7, FM €998,-
- 6136/27-811-500 Adapter frame for SmartTouch, SM €50,-
- 6136/27-825-500 Adapter frame for SmartTouch, SM €50,-
- 6136/07 UP-500 FM installation box for SmartTouch €55,-



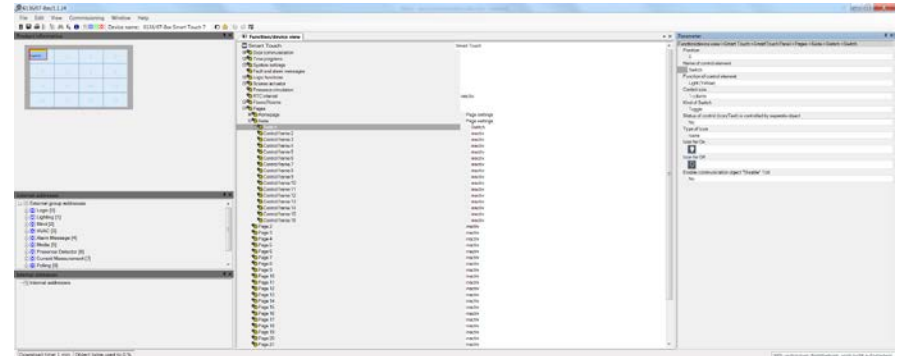


Planning and Commissioning

Busch-SmartTouch® KNX

Power-Tool

- Power-Tool (ETS plug-in)
(Download: www.busch-jaeger-catalogue.com)
- Commissioning editor is an extension of ETS
- Write back to ETS
- Product data import over ETS (*.knxprd)



Busch-SmartTouch® KNX

Power-Tool

The screenshot displays the Busch-SmartTouch KNX Power-Tool software interface. The main window is titled "Function/device view" and shows a tree structure of the device configuration. The tree includes "Smart Touch" and "Door communication" at the top, followed by "Time programs", "System settings", "Fault and alarm messages", "Logic functions", "Scene actuator", "Presence simulation", "RTC internal", "Rooms/Floors", "Pages", and "Scene". Below this, there are 16 "Control frame" entries (Control frame 2 to Control frame 16) and 21 "Page" entries (Page 2 to Page 21). The status of each element is listed as "inactiv".

Annotations with red lines and dots point to specific features:

- Group addresses:** Points to the "External addresses" and "Internal addresses" panels on the left side of the interface.
- Preview:** Points to a small grid of buttons in the top-left corner of the main window.
- Set-Up and functions:** Points to the main tree structure of the device configuration.
- Parameter:** Points to a detailed parameter configuration window on the right side, which is highlighted with a red border. This window shows settings for a "Switch" element, including "Name of control element", "Function of control element", "Control size", "Kind of Switch", "Toggle", "Status of control (coil/Text) is controlled by separate object", "Type of Icon", "Icon for On", "Icon for Off", and "Enable communication object: 'Disable' 1 bit".

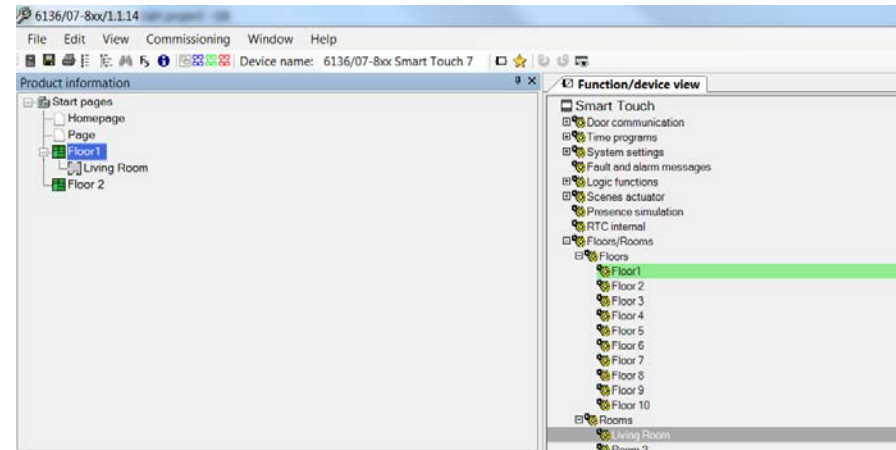
At the bottom left, it says "Download time: 1 min | Object table used to 0 %". At the bottom right, it says "[98% verbleiben (Netzbetrieb), wird nicht aufgeladen]."

Busch-SmartTouch® KNX

Building structure

Navigation structure

- Used pages are automatically counted (maximum 30 pages)
 - max. 29x Homepage (start page)
 - max. 10x floors
 - max. 29x rooms (in total)
 - max. 29x pages
 - max. 29x rooms with 1x page
 - max. 3x pages per room
 - max. 15 rooms per floor
 - up to 16x controls per page (depends on control size)

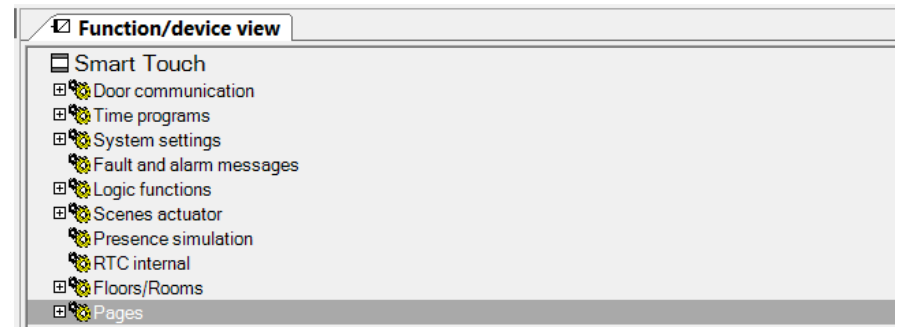


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Building structure

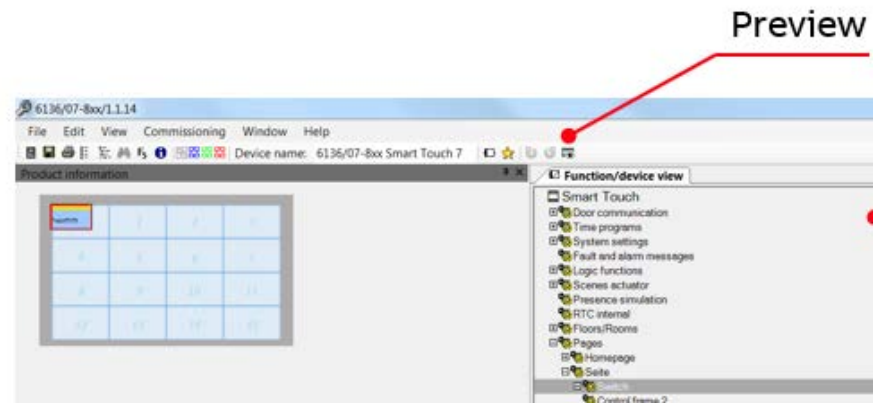
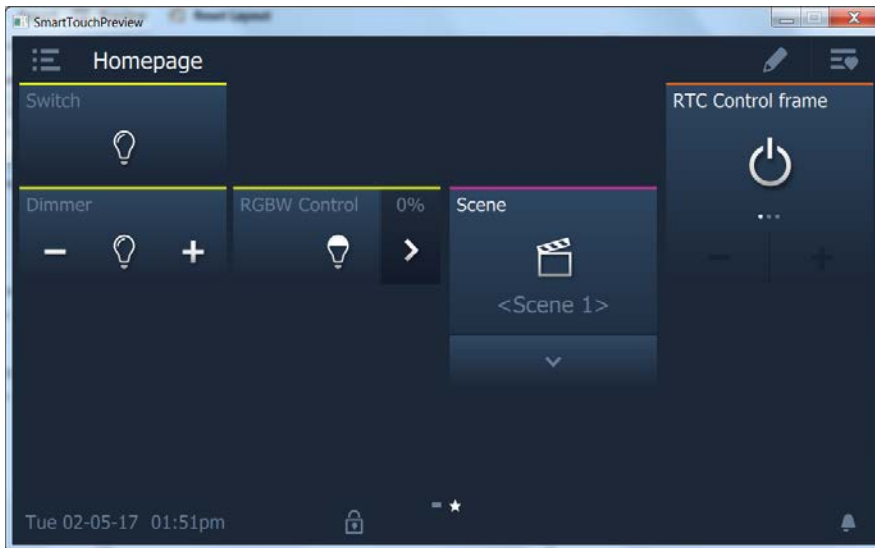
Application

- System settings
- Door communication objects
- Fault and alarm messages
- Scene actuator
- Presence simulation
- Time programs
(only objects for blocking, holiday activation/status)
- Logical functions
- RTC



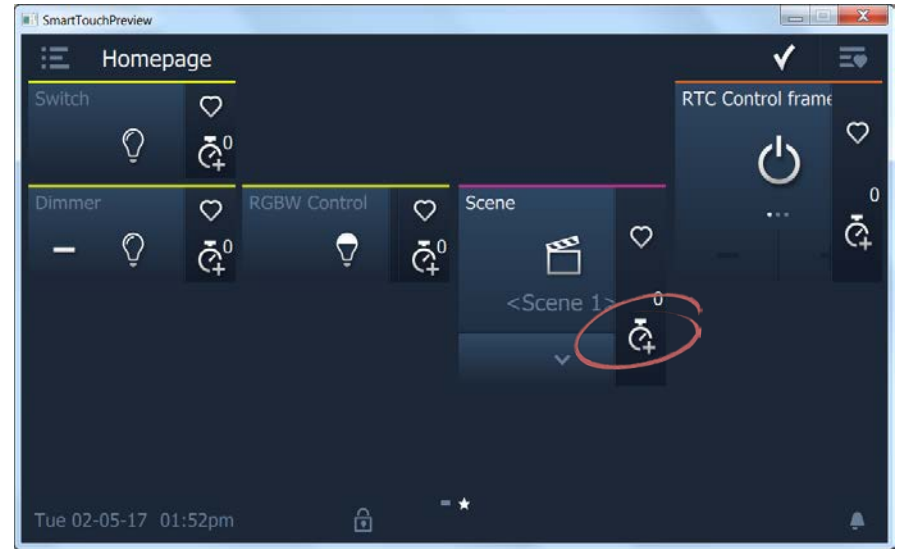
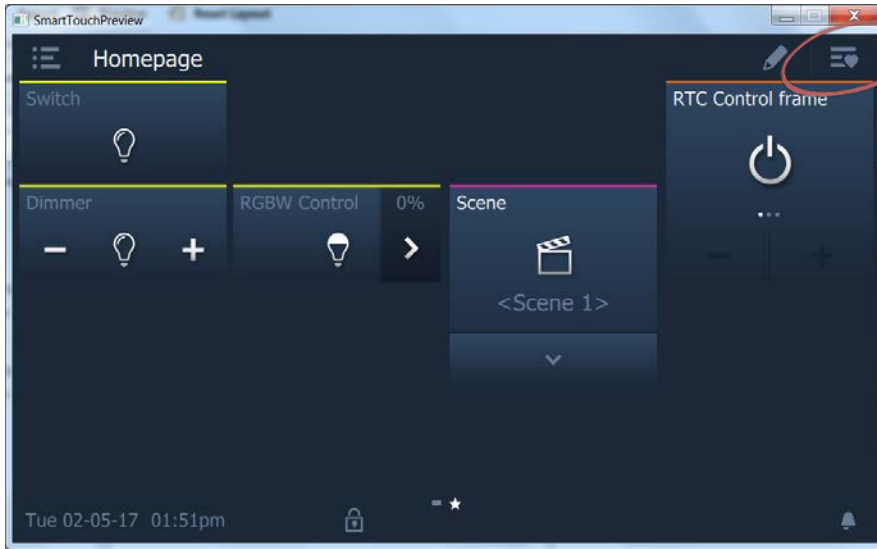
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Preview



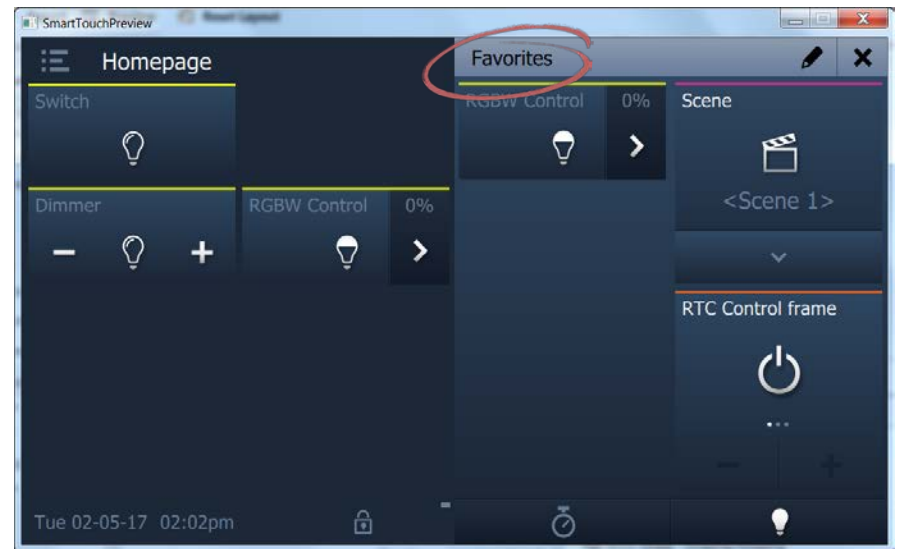
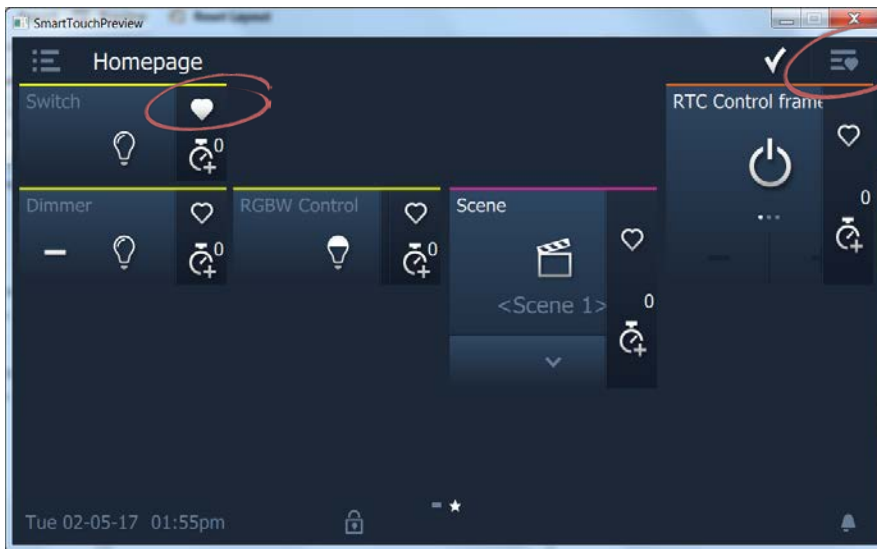
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Creating timer on-site



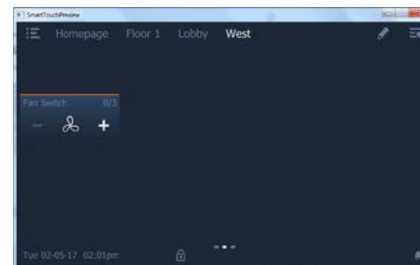
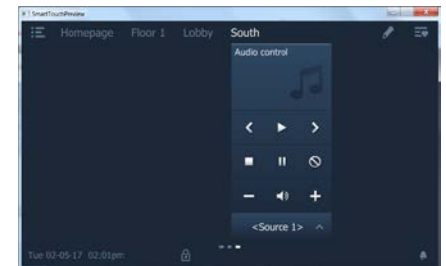
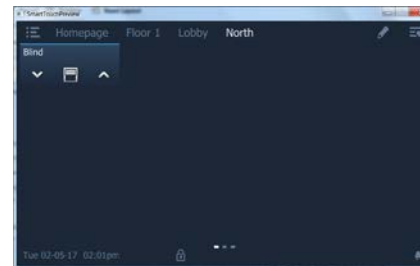
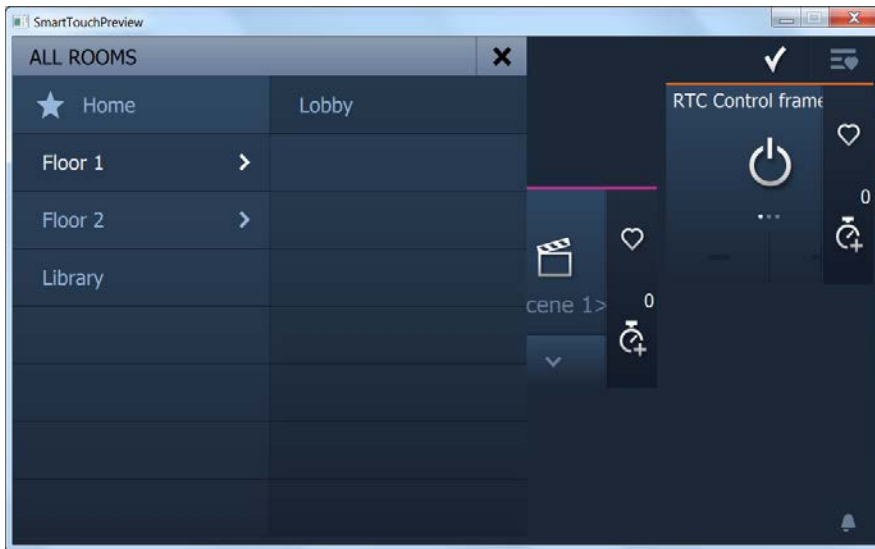
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Marking favorites



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Navigation on-site





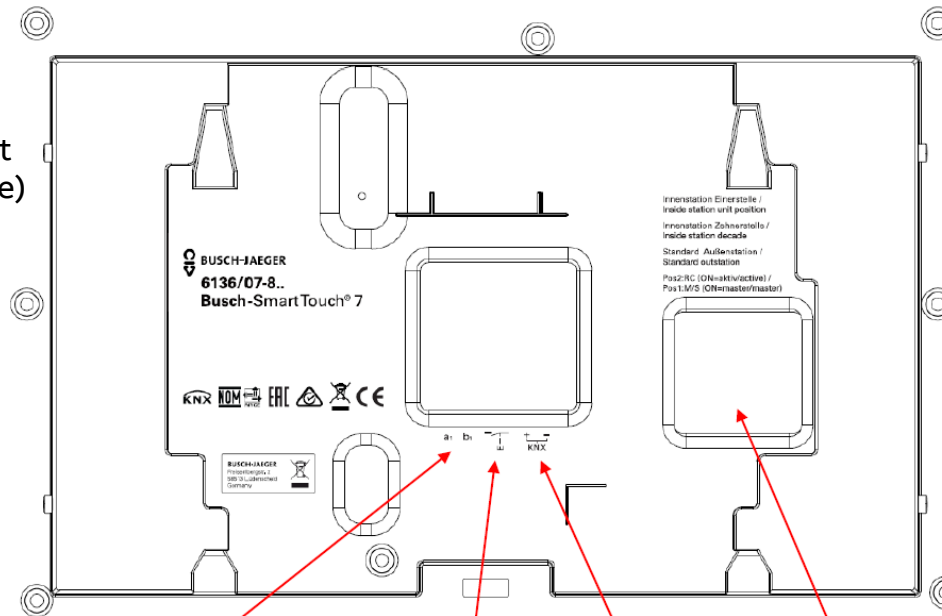
Installation

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Connections

Welcome/ Welcome M

- intercom yes but without picture (no camera inside)



Welcome bus or external power supply

Level doorbell

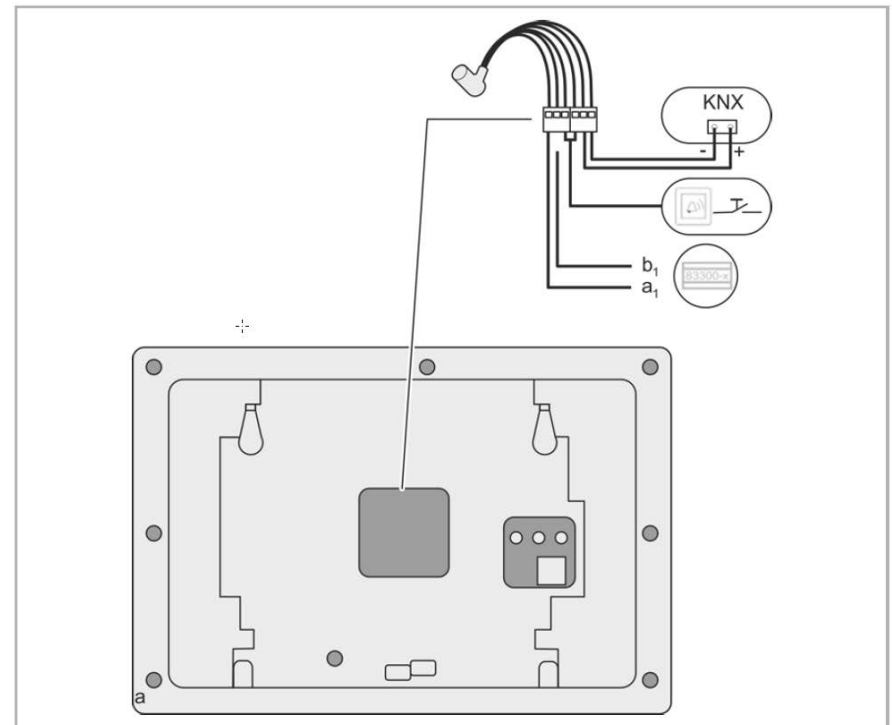
KNX bus

Welcome addressing Master/Slave terminating resistor

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Connections

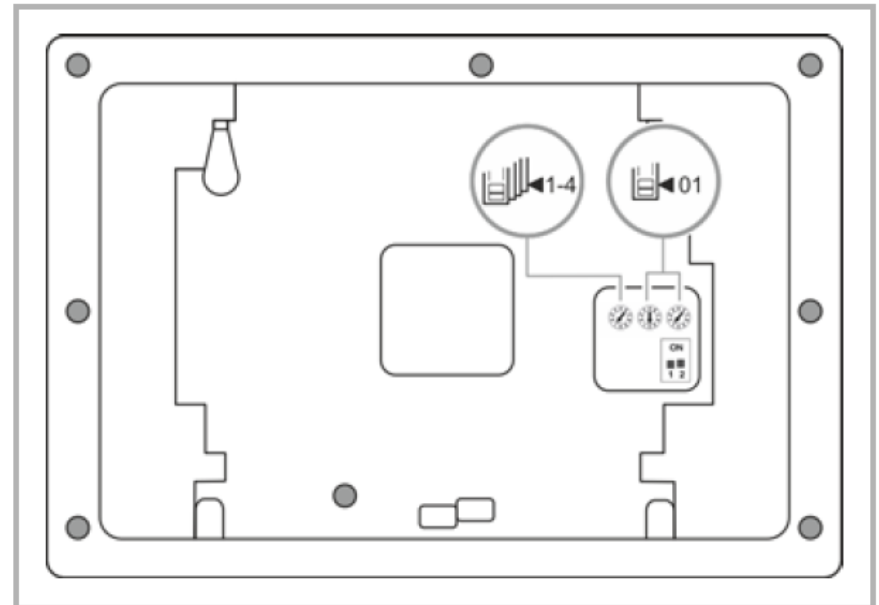
- Connector for Welcome system controller or external power supply (e.g. 6358-101)
- KNX bus and level door bell



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Connections

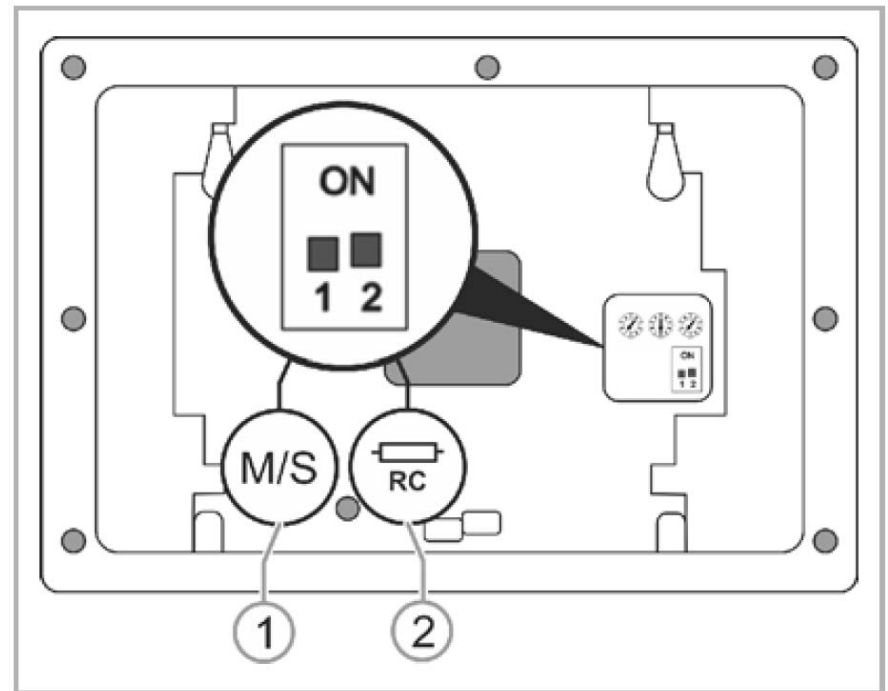
- Address for the Welcome outdoor station and the indoor station



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Connections

1. Master/ Slave function and
2. Termination resistor



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Initial operation

1. Follow the instructions on the screen
2. Insert the enclosed micro SD card in the card slot (see chapter 10.6 „inserting a micro SD card (SDHC)“ on page 110)

Note

- The duration of initial operation with this application is approximately 10 minutes. The duration is displayed on the screen.



Busch-SmartTouch® KNX

Initial operation

Installation successful



PASSED

3. Remove the micro SD card. You can now configure the device (see chapter 9 “Commissioning” on page 34).

Installation not successful



FAILED

3. Repeat the process. Disconnect the panel from the power supply and reconnect it. If for example there is no image file on the card, the not “No valid image file” is given.



Exercises

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Exercises



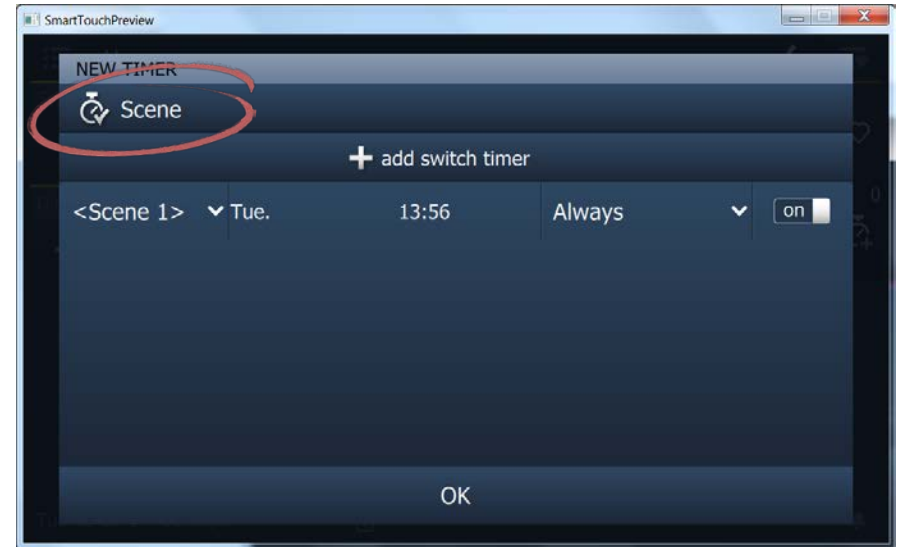
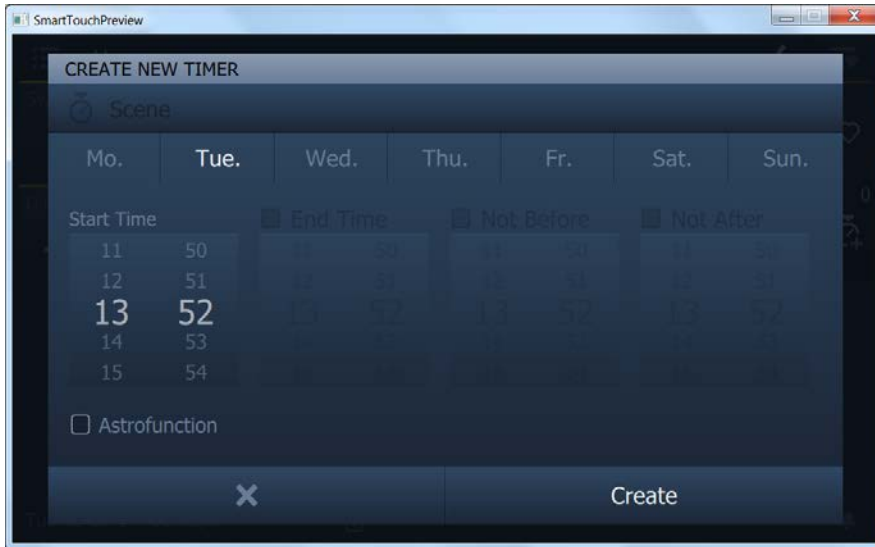
- 1. Floor (Living room, Kitchen)
- 2. Floor (Bedroom, Bath)
- Living room (“Blind Living”, “Ceiling light”, “Spot”)
- 4x Scenes (All on/off, Comfort, TV)
- Create a Timer
- (Door Entry)
- Fault and Alarm: window contact “living room”
- RTC: priOn master, Smarttouch slave

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ABB

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Creating timer on-site



Busch-SmartTouch® KNX

Creating timer on-site

