INTRODUCTION

Busch-SmartTouch® KNX

The 7” SmartTouch
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

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

- Welcome bus or external power supply
- Level doorbell
- KNX bus
- Welcome addressing Master/Slave terminating resistor
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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
Busch-SmartTouch® KNX

Connections

Old SmartTouch box
Installation box
CH installation box
Table stand
## Busch-SmartTouch® KNX

Comparison old -> new

<table>
<thead>
<tr>
<th>Function</th>
<th>Old panel: 5.7”</th>
<th>New: Busch-Smart Touch® KNX 7”</th>
</tr>
</thead>
<tbody>
<tr>
<td>KNX control elements</td>
<td>210</td>
<td>480</td>
</tr>
<tr>
<td>RGB control element</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Pages</td>
<td>21</td>
<td>30</td>
</tr>
<tr>
<td>Alarm messages</td>
<td>50</td>
<td>80</td>
</tr>
<tr>
<td>Alarm system</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Infrared (RC5 or B&amp;O)</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Presence simulation</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Scene actuator</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Logic functions</td>
<td>20</td>
<td>30</td>
</tr>
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## Busch-SmartTouch® KNX

Comparison old -> new

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<tr>
<td>Internal RTC</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Time programs</td>
<td>20</td>
<td>30</td>
</tr>
<tr>
<td>ABB-Welcome</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Favorite page</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Macro Recorder</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Power supply</td>
<td>230 V</td>
<td>24 V</td>
</tr>
<tr>
<td>Touchscreen</td>
<td>resistive</td>
<td>capacitive</td>
</tr>
<tr>
<td>Material</td>
<td>plastic</td>
<td>glass</td>
</tr>
<tr>
<td>Display size</td>
<td>5.7 Inch</td>
<td>7 Inch</td>
</tr>
<tr>
<td>Pixel</td>
<td>320 x 240</td>
<td>1024 x 600</td>
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# Busch-SmartTouch® KNX

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<td>Additional connections</td>
<td>KNX, ABB-Welcome 2-wire, induction loop</td>
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<td>244 x 166 x 24 mm, on top of the wall 13 mm</td>
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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)
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Power-Tool

Set-Up and functions

Preview

Parameter

Group addresses
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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
Busch-SmartTouch® KNX

Navigation on-site
Installation
Welcome/Welcome M
- intercom yes but without picture (no camera inside)

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Connections

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.
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Initial operation

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

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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Creating timer on-site
Busch-SmartTouch® KNX

Creating timer on-site