

OCTOBER 2020

# ABB IP touch 7"/10"

Webinar – Competence Center Europe – Smart Buildings

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# Agenda

ABB IP touch 7"/10"

Introduction

Technical Information

Applications:

ABB-Welcome IP

ABB i-bus KNX®

ABB-free@home®



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# Webinar ABB IP touch 7"/10"

Introduction

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# Webinar ABB IP touch 7"/10"

## Introduction

### Motivation

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The IP touch 7" and 10" control panels are IP-based and provide a far greater number of options for building control

Powerful and beautiful. The new ABB's IP touch has the most two built-to-last colors: white and black glossy glass are available

The end strips are easy to change with varieties of material and colors optional

The integration with home and building automation makes it the best universal visualization panel in residential and non-residential areas



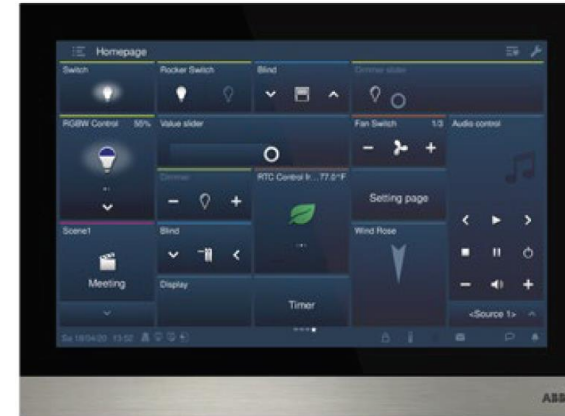


# Webinar ABB IP touch 7"/10"

## Introduction

### USPs

- With high resolution display
- Intuitive GUI on sliding screen
- Selection of installation box options ensure easy installation on all kind of walls
- Induction loop for hearing aid
- Only 7.8 mm depth when flush mounted
- Both LAN and WIFI version to connect to home network

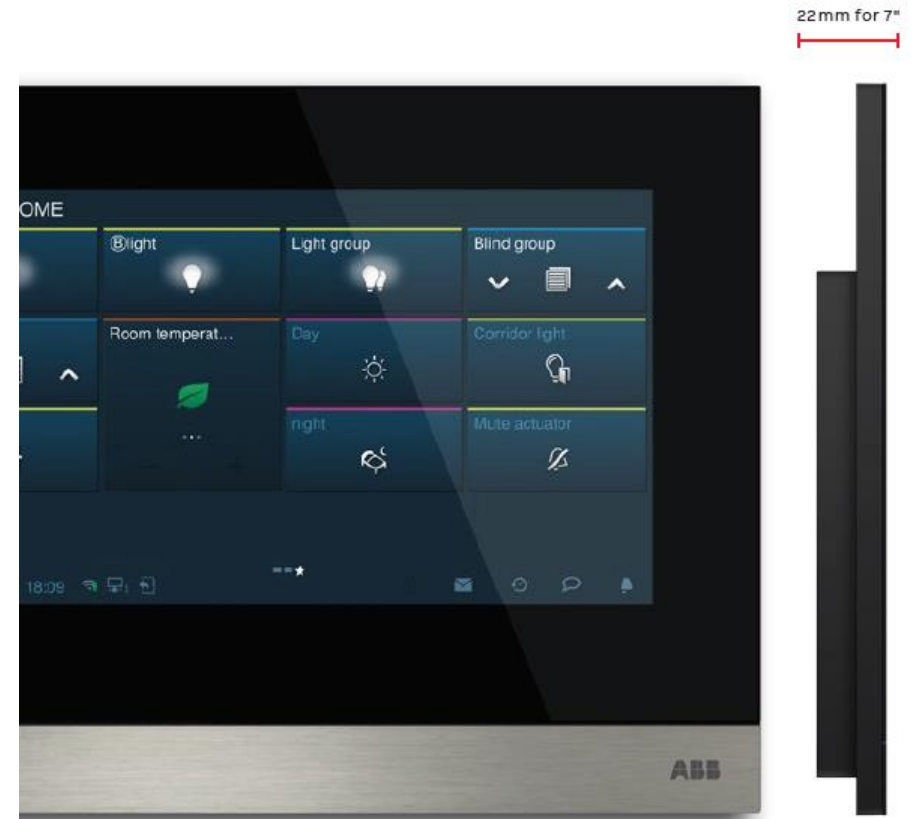


# Webinar ABB IP touch 7"/10"

## Introduction

### Main Functions

- Home and building dashboard
- Door entry communication: indoor station for Welcome IP with intercom function
- Easy app connection
- Easy commissioning



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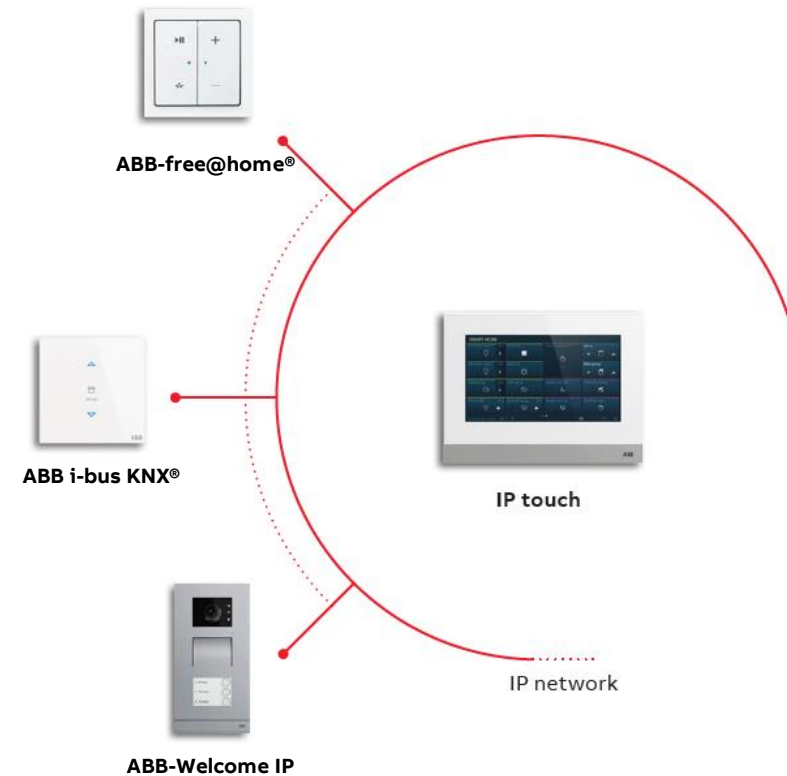
## Introduction

### One panel for all systems

#### smartIP eco system

The platform does away with restrictions on the number of devices and range, making planning and installation for projects of every size far simpler

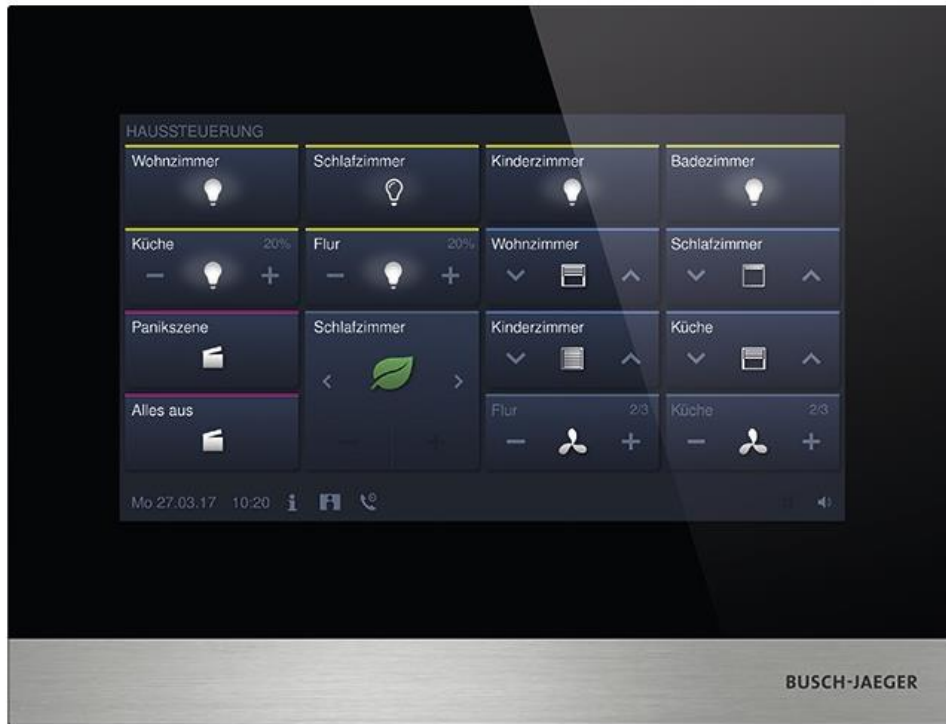
A glance into the future: With the integration of the ABB-free@home® and ABB i-bus KNX® systems into the IP world, ABB extends its functionality many times over



# Webinar ABB IP touch 7"/10"

## Introduction

### IP touch 7"



### IP touch 10"





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# Webinar ABB IP touch 7"/10"

Technical Information

# Webinar ABB IP touch 7"/10"

## Technical information

### IP touch 7"

- SD card slot for extension of the picture memory
- Capacitive display with glass surface (Resolution: 1024 x 600)
- For flush-mounted installation with 42361F-03
- Power supply via Power-over-Ethernet (PoE) 802.3af
- Alternative power supply 24 Volt DC, 280 mA
- Alternative power supply via adapter plug 53011PS-03
- Protection class (device): IP 30
- Temperature range (device): -10°C ... +55°C
- Dimensions: (L x W x D): 150 mm x 198.5 mm x 17 mm



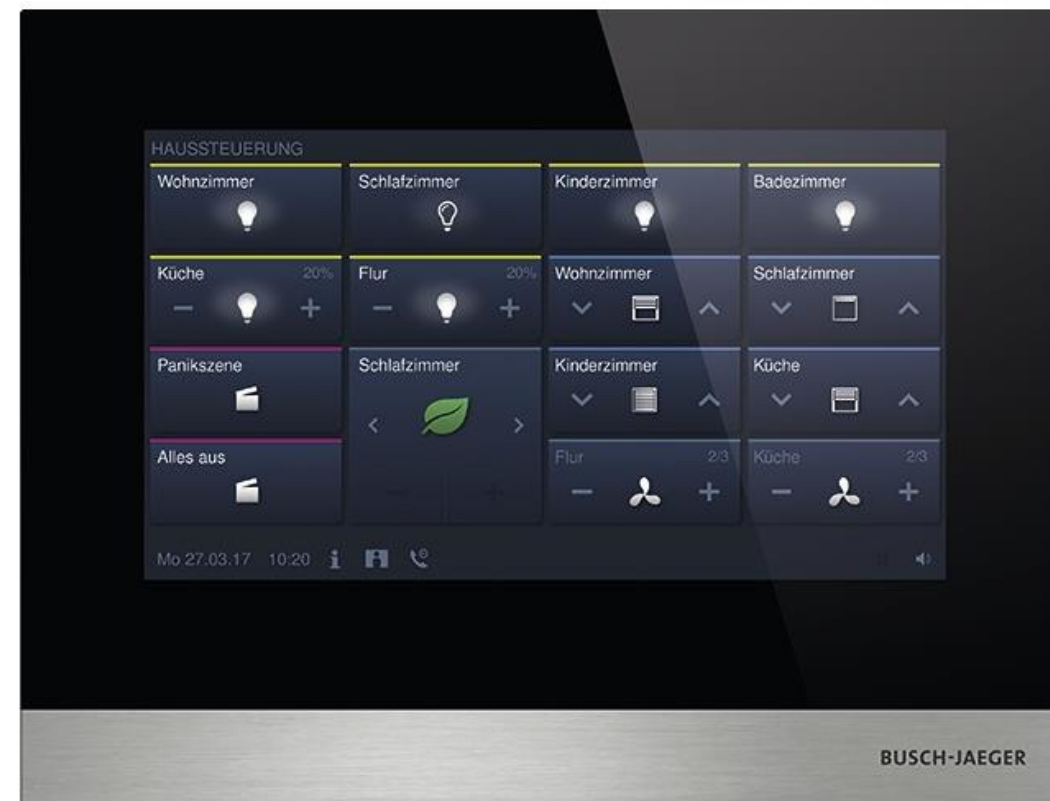
# Webinar ABB IP touch 7"/10"

## Technical information

### IP touch 7"

Black	ABB		Busch-Jaeger	
LAN/LAN	H8236-5B	2TMA130050 B0067	H82365-B-03	2TMA130050 B0017
LAN/WIFI	H8236-4B	2TMA130050 B0065	H82364-B-03	2TMA130050 B0016

White	ABB		Busch-Jaeger	
LAN/LAN	H8236-5W	2TMA130050 W0067	H82365-W-03	2TMA130050 W0017
LAN/WIFI	H8236-4W	2TMA130050 W0065	H82364-W-03	2TMA130050 W0016

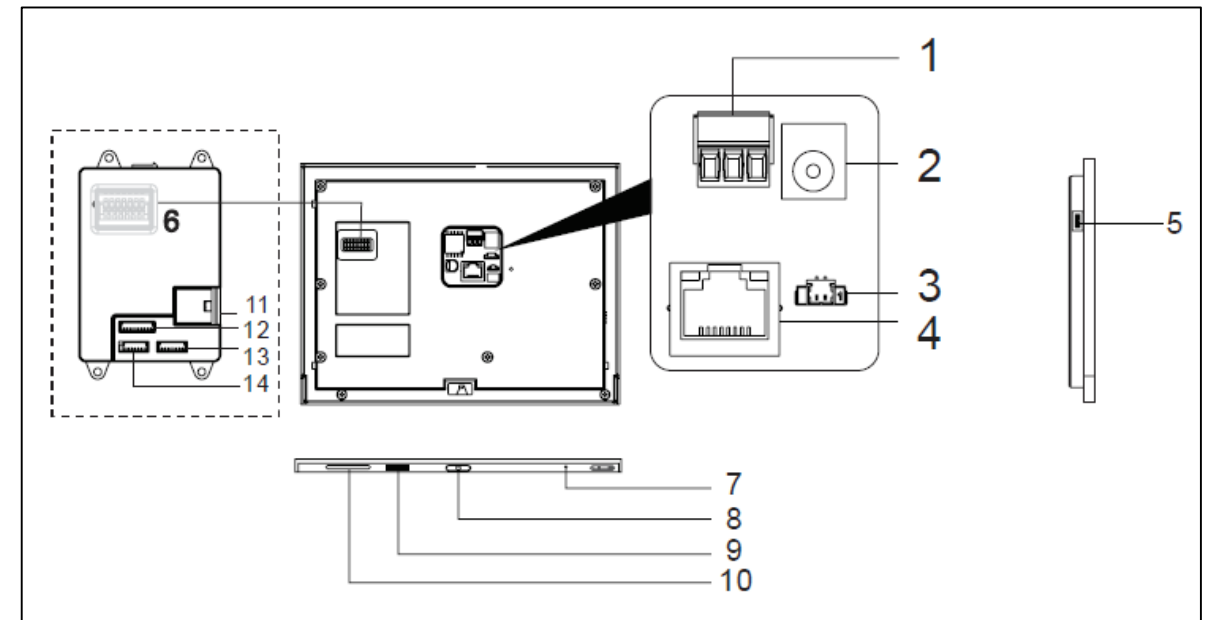


# Webinar ABB IP touch 7"/10"

## Technical information

### IP touch 7" – terminal description

No.	Function
1	Power input connector
2	Power input connector (DC-JACK input)
3	Doorbell connector
4	LAN1 (PoE)
5	Micro USB Upgrade connector
6	<sup>3</sup> Extension module connector
7	Microphone
8	Dismantling switch
9	Micro SD card connector
10	Speaker
11	<sup>2</sup> LAN2
12	<sup>2</sup> Alarm connector
13	<sup>2</sup> RS485 connector, 12 V output, emergency port (SOS, GAS, fire)
14	<sup>2</sup> Relay output



# Webinar ABB IP touch 7"/10"

## Technical information

### IP touch 10"

- SD card slot for extension of the picture memory
- Capacitive display with glass surface (Resolution: 1280 x 800)
- For flush-mounted installation with 42361F-03
- Power supply via Power-over-Ethernet (PoE) 802.3af
- Alternative power supply 24 Volt DC, 280 mA
- Alternative power supply via adapter plug 53011PS-03
- Protection class (device): IP 30
- Temperature range (device): -10°C ... +55°C
- Dimensions: (L x W x D): 185 mm x 251 mm x 31 mm



# Webinar ABB IP touch 7"/10"

## Technical information

### IP touch 10"

Black	ABB		Busch-Jaeger	
LAN/LAN	H8237-5B	2TMA130050 B0055	H8237-5B-03	2TMA130050 B0060
LAN/WIFI	H8237-4B	2TMA130050 B0054	H8237-4B-03	2TMA130050 B0058

White	ABB		Busch-Jaeger	
LAN/LAN	H8237-5W	2TMA130050 W0055	H8237-5W-03	2TMA130050 W0060
LAN/WIFI	H8237-4W	2TMA130050 W0054	H8237-4W-03	2TMA130050 W0058



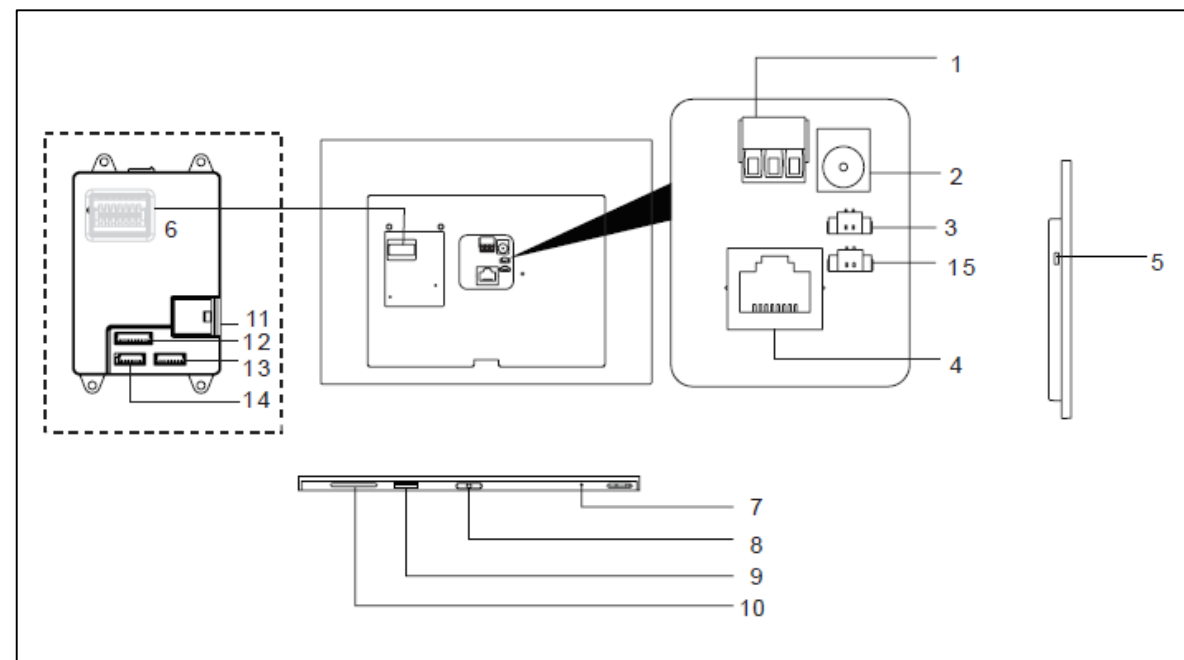


# Webinar ABB IP touch 7"/10"

## Technical information

### IP touch 10" – terminal description

No.	Function
1	Power input connector
2	Power input connector (DC-JACK input)
3	Doorbell connector
4	LAN1 (PoE)
5	Micro USB Upgrade connector
6	Interface module connector
7	Microphone
8	Dismantling switch
9	Micro SD card connector
10	Speaker
11	<sup>2</sup> LAN2
12	<sup>2</sup> Alarm connector
13	<sup>2</sup> RS485 connector, 12 V output (12 V output is not available when PoE powered), , emergency port (SOS, GAS, fire)
14	<sup>2</sup> Relay output
15	N/A

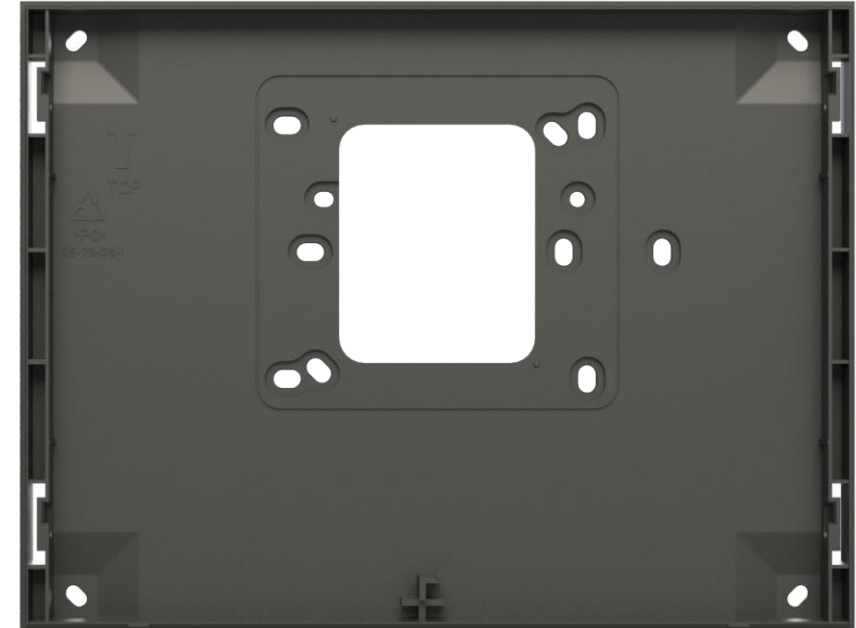


# Webinar ABB IP touch 7"/10"

## Technical information





### Installation material

Black	ABB		Busch-Jaeger	
Flush-mounted box and Pre installation box 7" and 10"	42361F	2TMA130160 B0132	42361F-03	2TMA130160 B0134
Surface mounted box for IP touch 7" panel	42361S-W 42361S-B	2TMA130160 W0017 2TMA130160 B0017	42361S-W-03 42361S-B-03	2TMA130160 W0021 2TMA130160 B0021
Surface mounted box for IP touch 10"	42371S-W 42371S-B	2TMA130161 W0001 2TMA130161 B0001	42371S-W-03 42371S-B-03	2TMA130160 W0041 2TMA130160 B0041



# Webinar ABB IP touch 7"/10"

## ABB panels overview (ABB i-bus® KNX)

					
		ABB IP touch 7	ABB IP touch 10	ABB RoomTouch® 5"	ABB SmartTouch® 7"
Technical Information	Display Size	7"	10"	5"	7"
	Display Resolution	1024 x 600	1280 x 800	720 x 1280	1024 x 600
	Power supply	PoE / 24V	PoE / 24V	24V	20-32 VDC
	KNX Connection	No	No	Yes	Yes
	IP Connection	LAN/WLAN	LAN/WLAN	No	No
	Mounting	FM/SM	FM/SM	FM	FM/SM
	Available Colors	Black/White	Black/White	Black/White	Black/White
	Number of pages	8	8	3 / 10	30
KNX Functions	Number of control elements	64	100	30	480
	Switch, Dimmer, RGBW	yes	yes	yes	yes
	, Value Slider, Blinds, Fan Switch, Scene, Display, RTC Control Frame				
	Split Unit Control	no	no	yes	no
	Page Link	yes	yes	no	yes
Other functions	Audio Control	yes	yes	yes	yes
	Door Communication	yes	yes	no	yes
	Fault + Alarm Messages, Scene actuators, presence simulation, time programs, logic functions	yes	yes	yes	yes
	RTC Internal	5	5	1	1

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ABB panels overview (ABB-free@home®)

					
		ABB IP touch 7	ABB IP touch 10	ABB-free@homeTouch 4.3"	ABB free@homeTouch 7"
Technical Information	Display Size	7"	10"	4,3"	7"
	Display Resolution	1024 x 600	1280 x 800	480 x 854	800 x 480
	Power supply	PoE / 24V	PoE / 24V	24V	20-32 VDC
	free@home Connection	No	No	Yes	Yes
	IP Connection	LAN/WLAN	LAN/WLAN	No	No
	Mounting	FM/SM	FM/SM	FM	SM
	Available Colors	Black/White	Black/White	Black/White	Black/White
	Number of pages	4	4	4	1
	Number of control elements	64	100	16	16
f@h Functions	Switch, Dimmer, RGBW, Value Slider, Blinds, Fan Switch, Scene, Display, RTC Control Frame	Partly	Partly	Partly	Partly
	Split Unit Control	no	no	Yes	Yes
	Page Link	yes	yes	no	No
	Audio Control	yes	yes	yes	Yes
Other functions	Door Communication	yes	yes	no	Yes (2-wire)
	Fault + Alarm Messages, Scene actuators, presence simulation, time programs, logic functions	Partly	Partly	Partly	Partly
	RTC Internal	no	no	1	No

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ABB-Welcome IP

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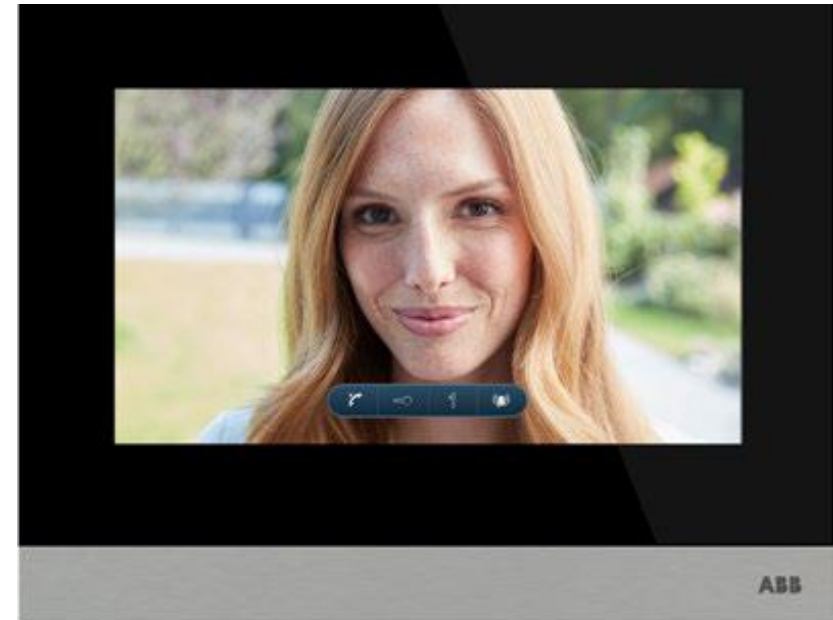
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ABB-Welcome IP

## Main functions

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- Up to 8 indoor stations in one apartment
- Integrated IP gateway
- Apartment to apartment intercom
- Intercom in the same apartment
- Automatic unlock
- Text communication
- Absence messages
- Direct integration of IP cameras



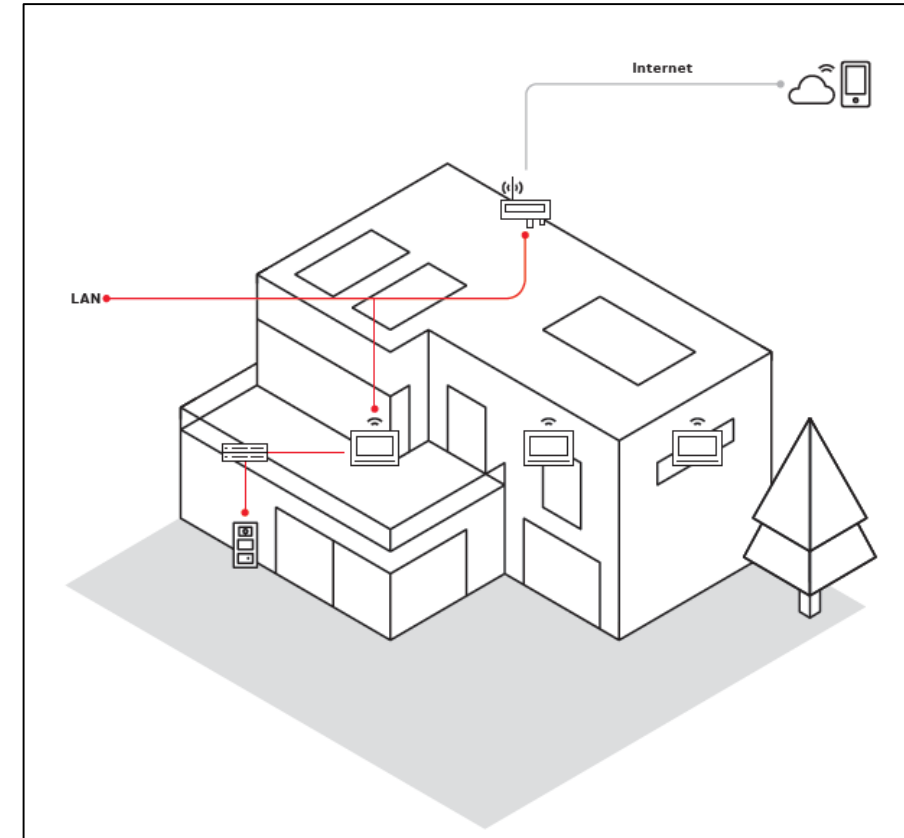


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ABB-Welcome IP

## Gateway between technical and private network

- The IP touch builds up the gateway between private and technical network to protect your private IP network
- Connection to technical network via LAN
- Connection to private network can be LAN or WLAN

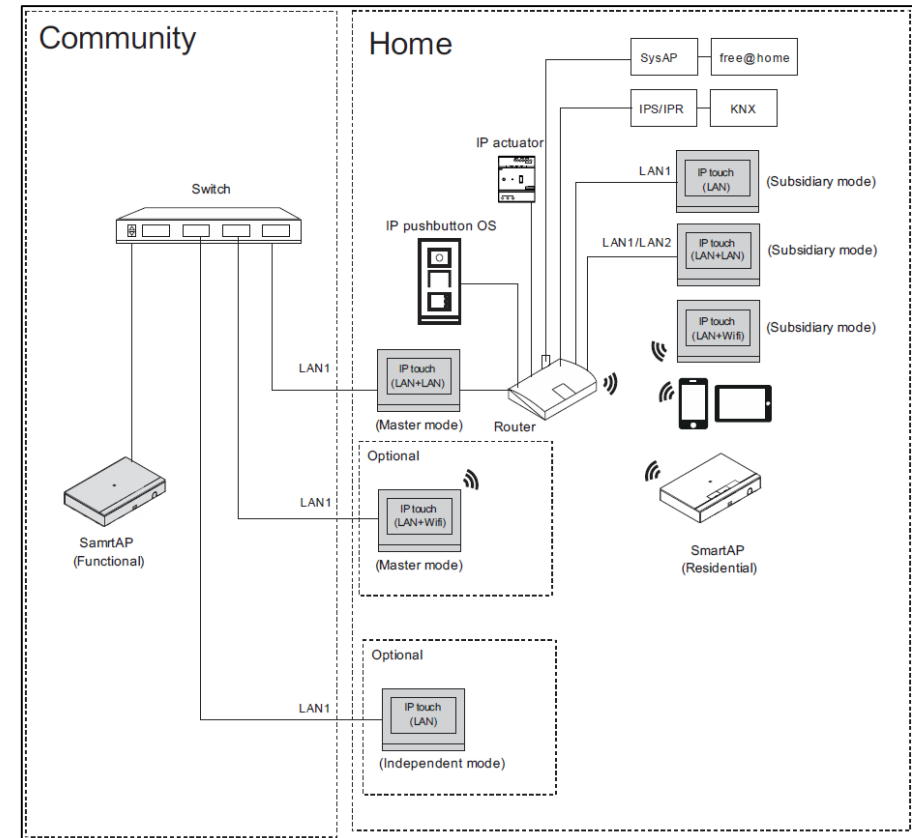


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# ABB-Welcome IP

## Application

- The SmartAP can be located in the technical network (functional mode) or in the private network (residential mode), depending on the application
- One IP touch is always used as a master device and builds up the gateway between technical and private network
- If you use the LAN/WIFI IP touch as a master panel, the WIFI port must be connected to the home network



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## ABB-Welcome IP

### Local settings (Engineering settings)

- In the engineering settings all relevant settings for Welcome IP, KNX and ABB-free@home® must be fulfilled
- Addressing and mode selection
- Selection of the home network port
  - If "Master mode"
    - LAN1/LAN2 (for H82365-.)
    - WIFI by default (for H82364-.)
  - If "Subsidiary mode"
    - LAN1/LAN2 (for H82365-.)
    - LAN/WIFI (for H82364-.)

Engineering settings

Engineering settings

Local settings

Outdoor station settings

IP actuator settings

Smart home settings

Password management

Call mode

Physical address ▼

Mode select

Master mode ▼

Block no.

001

Room no.

0101

Device no.

Tu 24/07/18 17:18

IP actuator settings

Smart home settings

Home network port

WIFI ▼

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ABB-Welcome IP

## Network settings (WIFI)

- Connection to the local WLAN must be setup in the system settings → Network settings
- WLAN must be selected via the button “WIFI settings”
- After entering the password the connection will be visible below the button

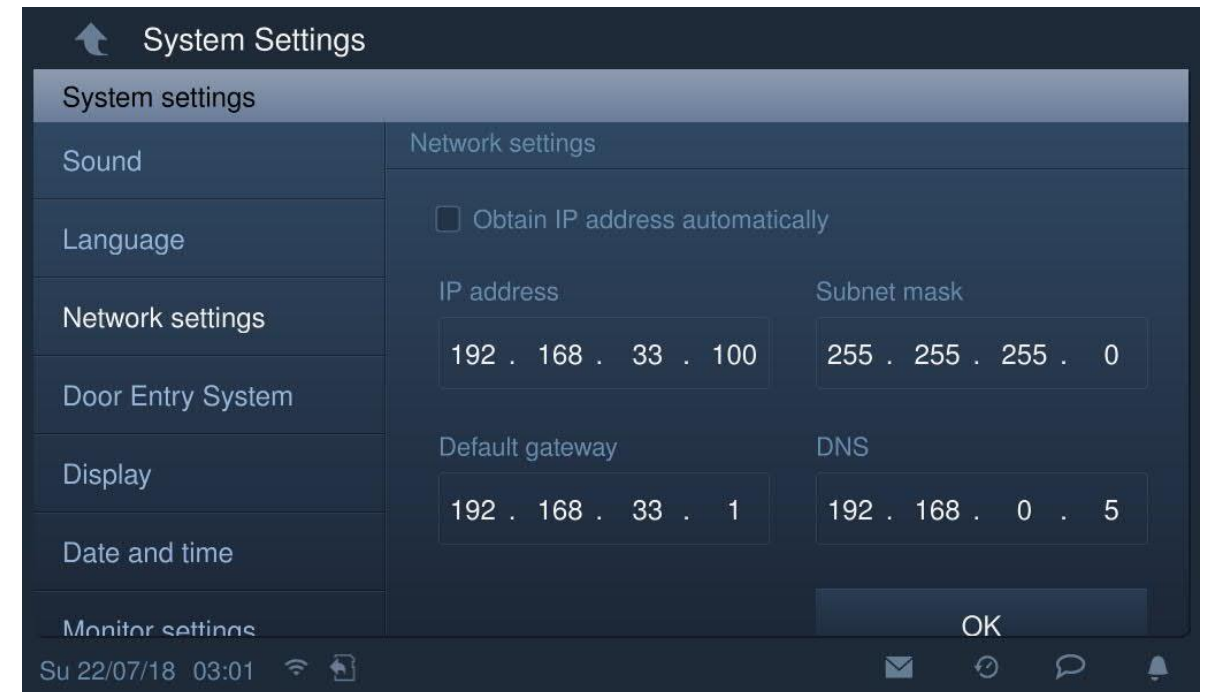


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ABB-Welcome IP

## Network settings

- IP address settings for the IP touch
- The indoor station uses DHCP to obtain an IP address from the router by default
- It is also possible to set the IP address by unticking the checkbox

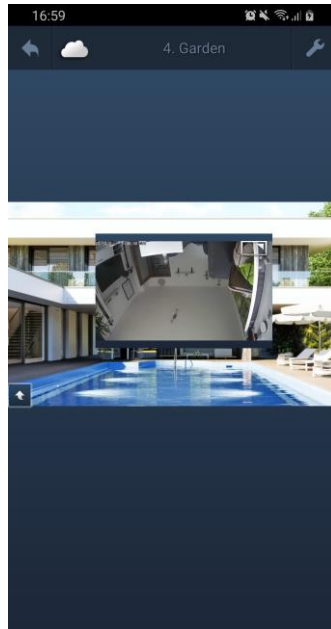


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ABB-Welcome IP

## Camera integration

- IP cameras, which are used in the same network, for example for the ControlTouch, can be used visualized with the IP touch
- IP cameras must support ONVIF Profile S



+ Add new project

Import project

> CT Scripts

Group Addresses

**Cameras**

Commands

Data Logger

Presence detection

Trigger

Scripts

Sonos KNX linking

Room thermostat controllers

Sonos Training

Tills Haus

Archive

Backups

Camera

Name

Type

URL

URL external

Width

Height

Interval (s)

Mobile / wifi

Username

Password

☐ Display no warnings for this camera.

Change

For Axis/Vapix or Mobotix camera's the URL should be the base url of the camera including a / at the end.  
For other camera's the url should be the full path to the MJpeg stream or image.


IP Cam Internal3
Other
http://192.168.0.243:80/cgi-bin/video.cgi?user
http://192.168.0.243:80/cgi-bin/video.cgi?user
1280 x 720
1280
720
0
Always get videostream
admin
.....

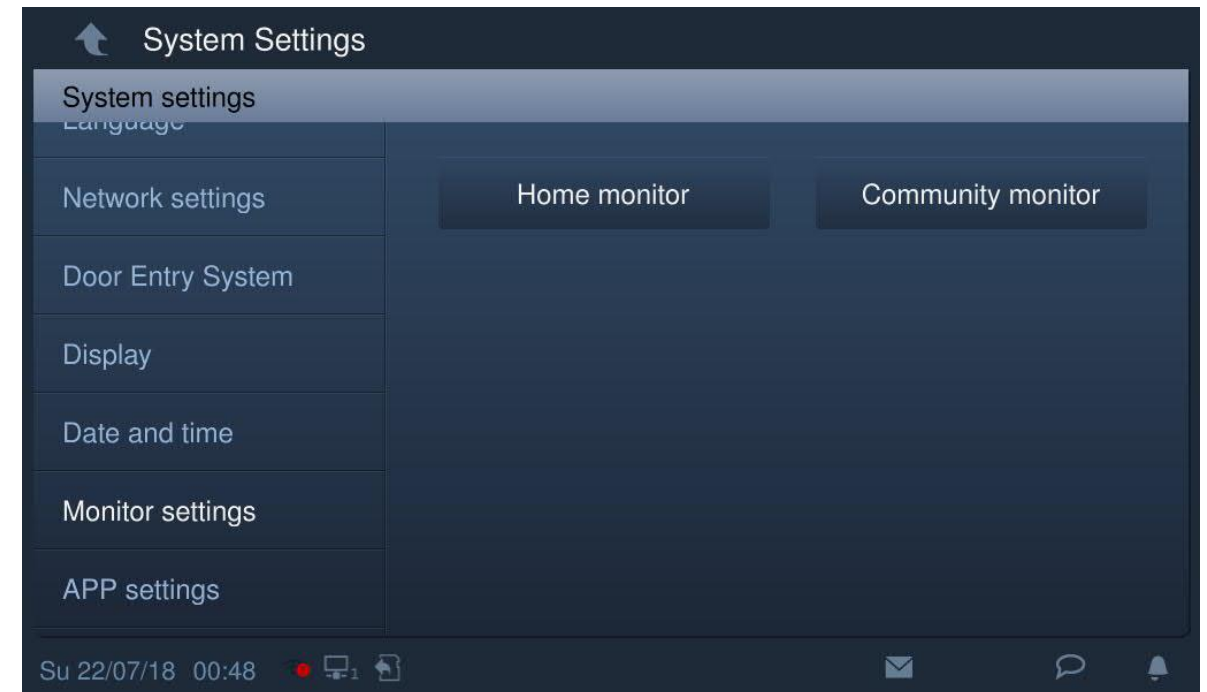


# Webinar ABB IP touch 7"/10"

ABB-Welcome IP

## Camera integration


- The indoor station and the camera must be on the same network
- On the “System settings” screen, click “Monitor settings”, “Home monitor”, then click  to access the corresponding screen

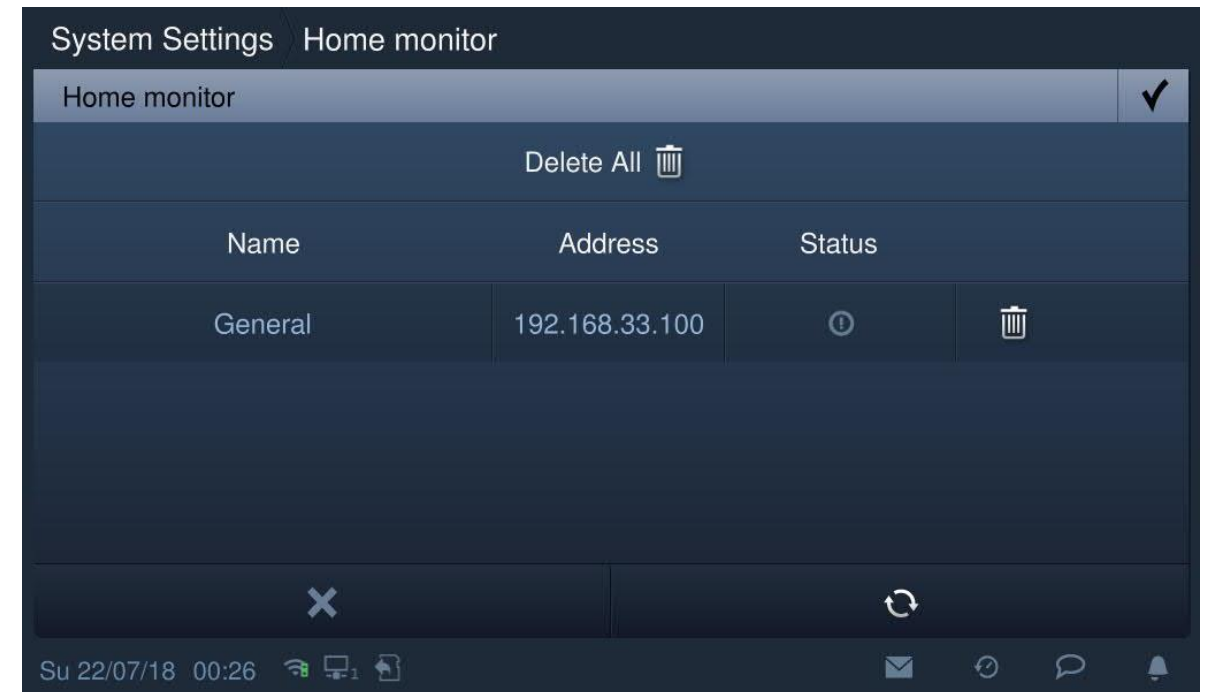


# Webinar ABB IP touch 7"/10"

ABB-Welcome IP

## Camera integration


- The indoor station and the camera must be on the same network
- On the "System settings" screen, click "Monitor settings", "Home monitor", then click  to access the corresponding screen
- Click to search the IP-Cams and create a camera list automatically
- Select a camera from the camera list and click. Enter the name, user account and password, then click "OK"

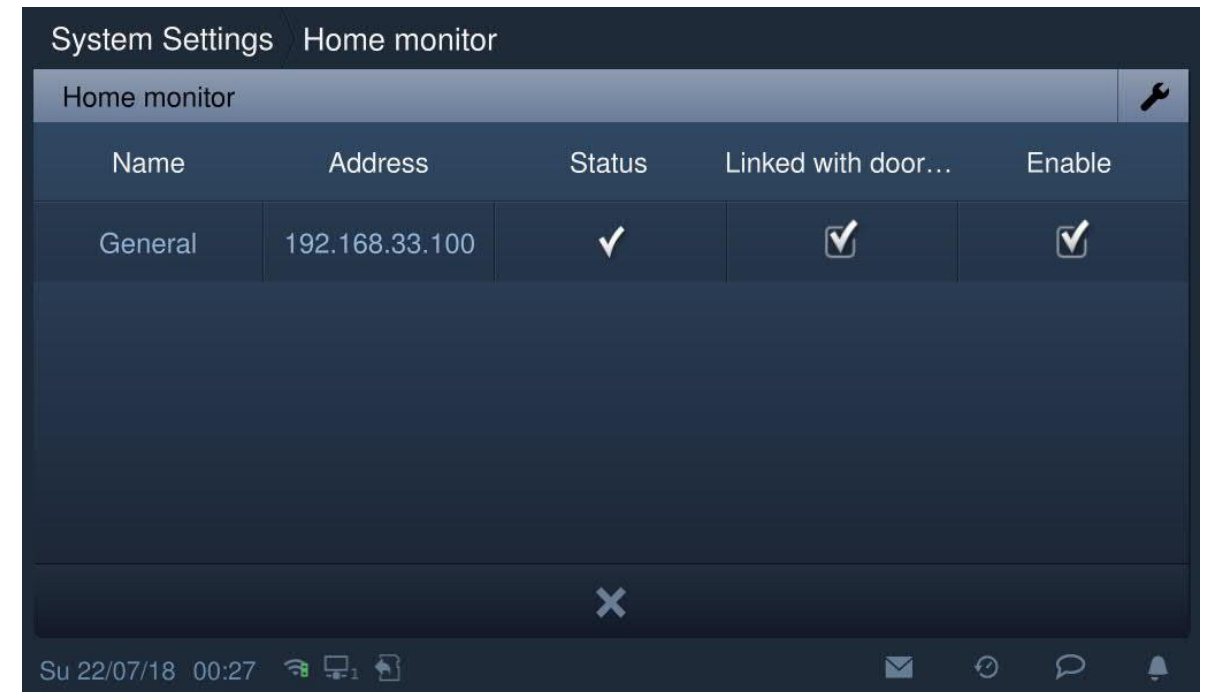


# Webinar ABB IP touch 7"/10"

ABB-Welcome IP

## Camera integration

- The indoor station and the camera must be on the same network
- On the “System settings” screen, click “Monitor settings”, “Home monitor”, then click  to access the corresponding screen
- Click to search the IP-Cams and create a camera list automatically
- Select a camera from the camera list and click . Enter the name, user account and password, then click “OK”
- On the "Home monitor" screen, tick “Enable” to enable the function
- With this setting, the register IP-Cam can be selected from the drop-down list on the “Door entry” screen



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# Webinar ABB IP touch 7"/10"

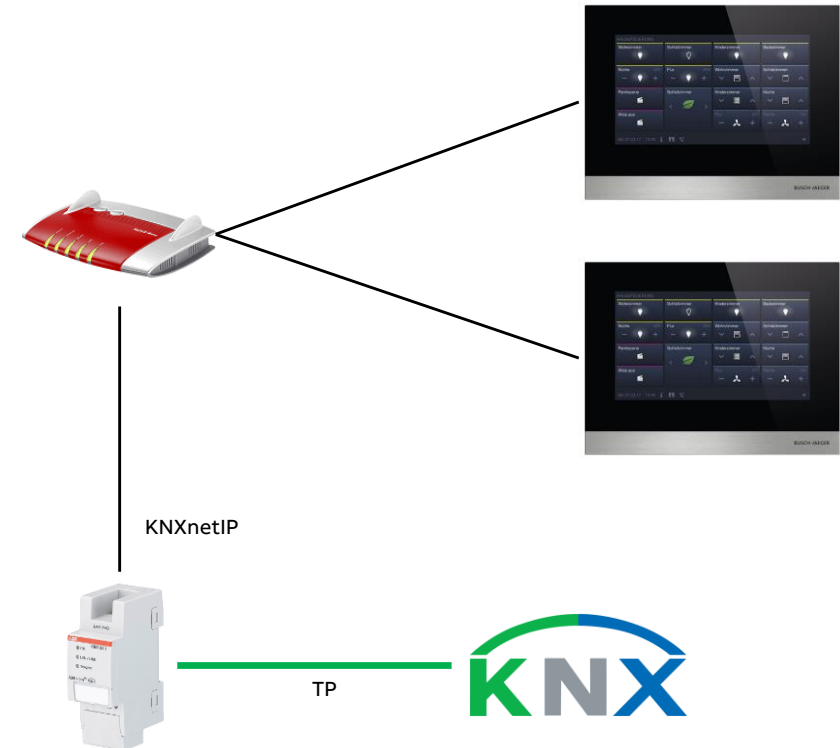
ABB i-bus KNX®

# Webinar ABB IP touch 7"/10"

ABB i-bus KNX®

## KNX integration

- IP touch must be connected to the IP network of the KNX IP Router with the home network connection of the panel (can be adjusted on the panel directly)
- Easy connection via LAN or WLAN
- Programming via SD card

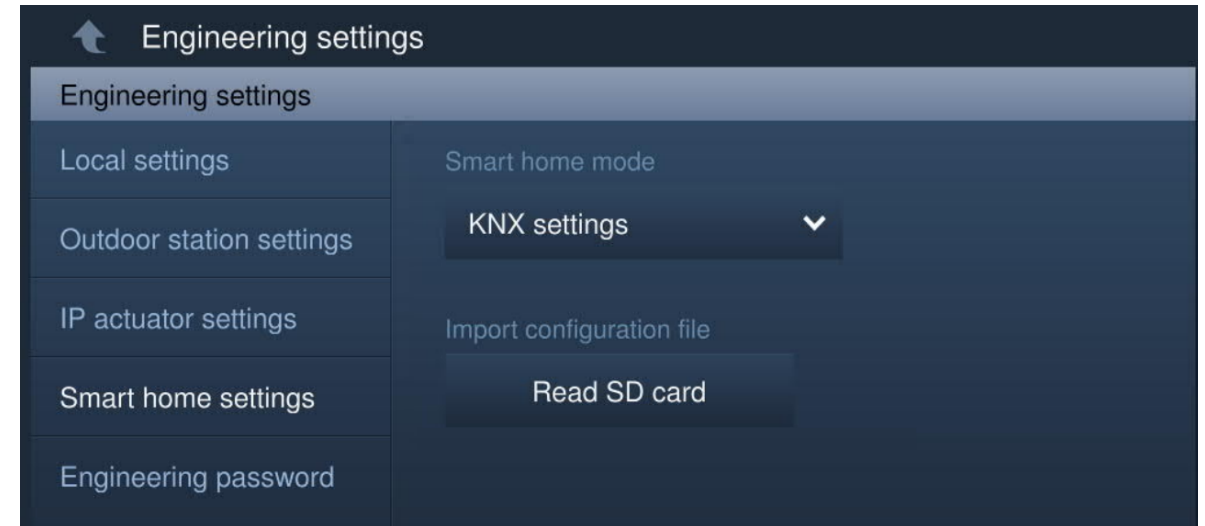


# Webinar ABB IP touch 7"/10"

ABB i-bus KNX®

## Panel settings

- On the “Engineering setting” screen, click “Smart home settings” to access the corresponding screen
- Select KNX
- KNX interface can be detected automatically or manual input of the IP-address







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


## ABB i-bus KNX® – Commissioning

### Overview DCA tool – Preperation

- The ABB IP touch 7"/10" is commissioned with the "ABB/BJE Touch DCA"
- DCA tool must be downloaded on <https://my.knx.org/de/shop/ets-apps> and activated in the ETS5
- All settings, parameters and group addresses will be adjusted in the DCA tool

Apps  

10 active / 18 installed

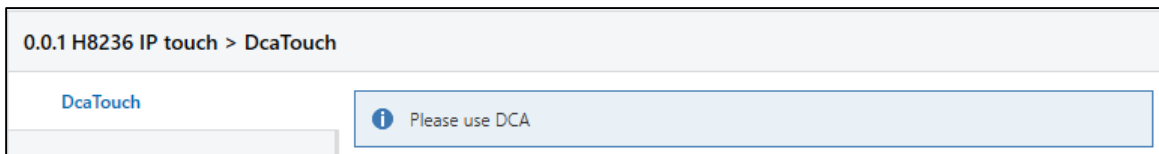
	Name	Vendor	Version	License
 	ABB IoT Dashboard ETS App	ABB	1.0.2.0	
 	ABB KNX Bus Update	ABB	1.0.37.0	
 	ABB SUG/U1.1 Configuration App	ABB	1.0.23.0	
 	ABB Touch DCA	ABB	1.0.136.0	

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## ABB i-bus KNX® – Commissioning

### Overview DCA tool – Get started

- After successful installation of the DCA tool the ABB IP touch can be added to the ETS project
- Tool will start by clicking on the tab “DCA”
- In the parameters no settings can be done



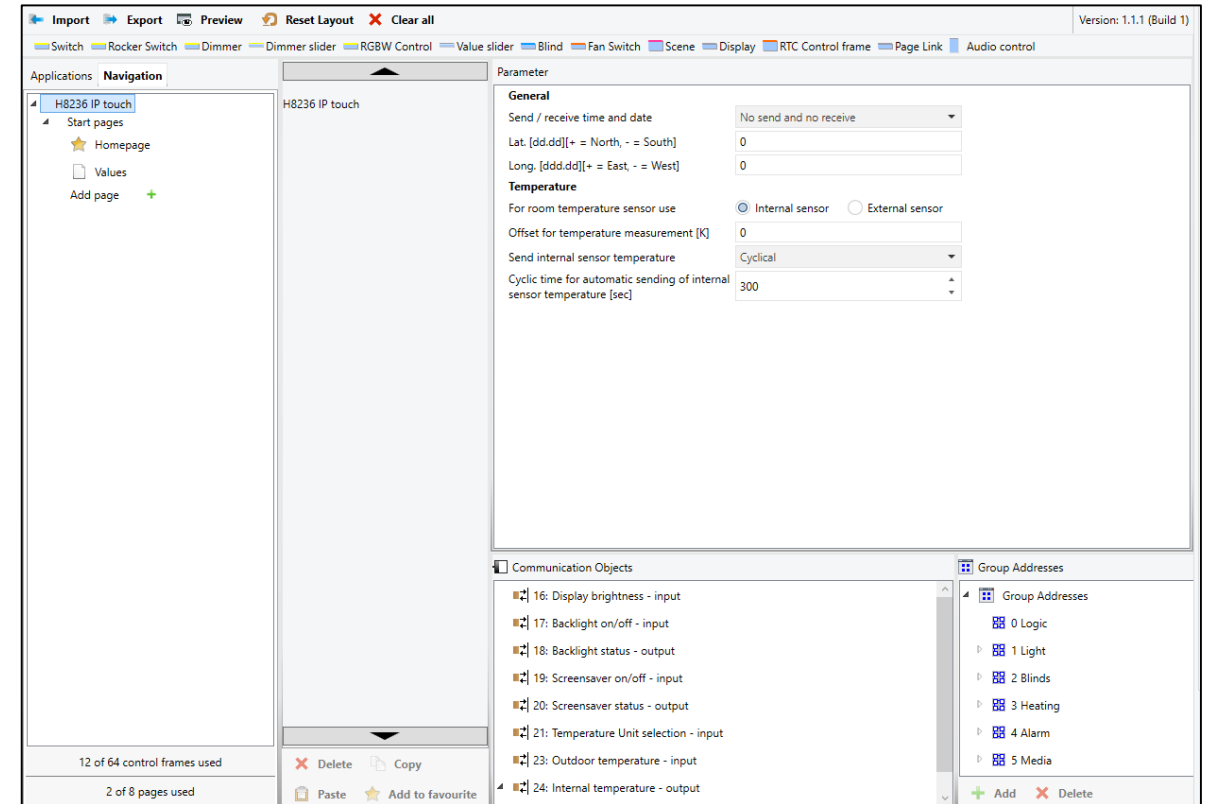
Buildings	Number	Name	Object Function	Description	Group Address	Length	C	R	W	T	U	Data Type	Priority
Dynamic Folders	1	Ringtone Volume	input/output			1 byte	C	-	W	T	U	percentag...	Low
Webinar RoomTouch	2	Increase/decrease ringtone volume	input			4 bit	C	-	W	-	U	dimming c...	Low
ABB RoomTouch	3	Speech Volume	input/output			1 byte	C	-	W	T	U	percentag...	Low
IP Touch	4	Increase/decrease speech volume	input			4 bit	C	-	W	-	U	dimming c...	Low
0.0.1 H8236 IP touch	5	Ringtone	output			1 bit	C	-	-	T	-	switch	Low
Other devices	6	Call started	output			1 bit	C	-	-	T	-	switch	Low
Trades	7	Call ended	output			1 bit	C	-	-	T	-	switch	Low
	8	Mute incoming calls	input/output			1 bit	C	-	W	T	U	switch	Low
	9	Switch Light	input			1 bit	C	-	W	T	U	switch	Low
	10	Open door	input			1 bit	C	-	W	T	U	switch	Low
	11	Block all timeprograms	input			1 bit	C	-	W	-	U	enable	Low
	12	Activate vacation	input			1 bit	C	-	W	-	U	start/stop	Low
	13	Status vacation	output			1 bit	C	-	W	T	U	start/stop	Low
	16	Display brightness	input			1 byte	C	-	W	-	U	percentag...	Low
	17	Backlight on/off	input			1 bit	C	-	W	-	U	switch	Low
	18	Backlight status	output			1 bit	C	-	-	T	-	switch	Low
	19	Screensaver on/off	input			1 bit	C	-	W	-	U	switch	Low
	20	Screensaver status	output			1 bit	C	-	-	T	-	switch	Low
Group Objects			Channels	Parameters	DCA								

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## ABB i-bus KNX® – Commissioning

### Overview DCA tool – general setup

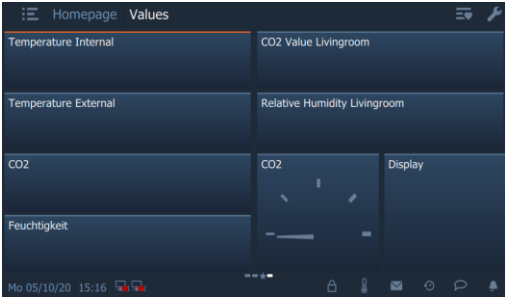
- The working area is separated into 5 blocks
  - Application/Navigation – internal functions and pages
  - Pages – setup of the control elements
  - Parameter
  - Communication Objects
  - Group Addresses
- Tool bar: all essential functions for the panel

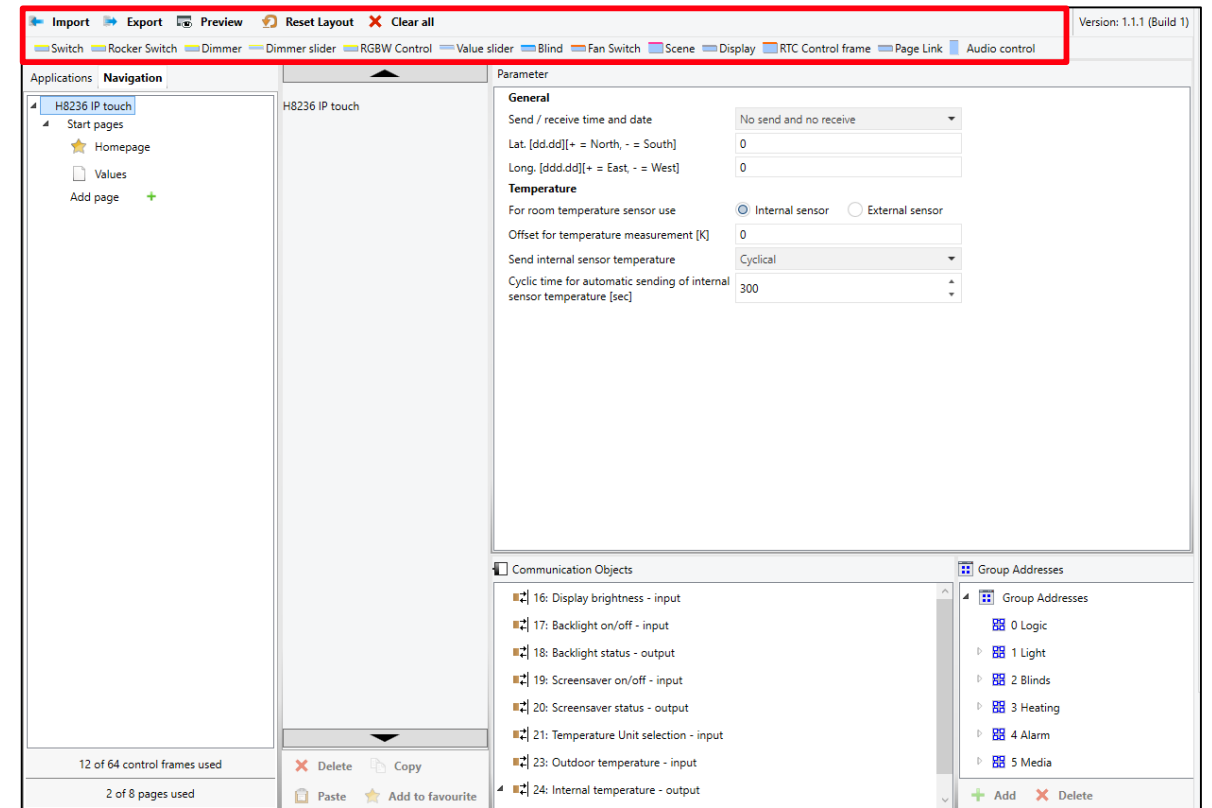


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## ABB i-bus KNX® – Commissioning

### Overview DCA Tool – Tool Bar

- Import project data (.stpl-file)
- Export
  - .pid-file: to import configuration via SD-card
  - .stpl-file: to create backup of the configuration
- Preview:
- Reset Layout: reset layout of the DCA tool
- Clear all: Reset of all functions, pages, parameter, etc.
- 2nd line: all available control elements

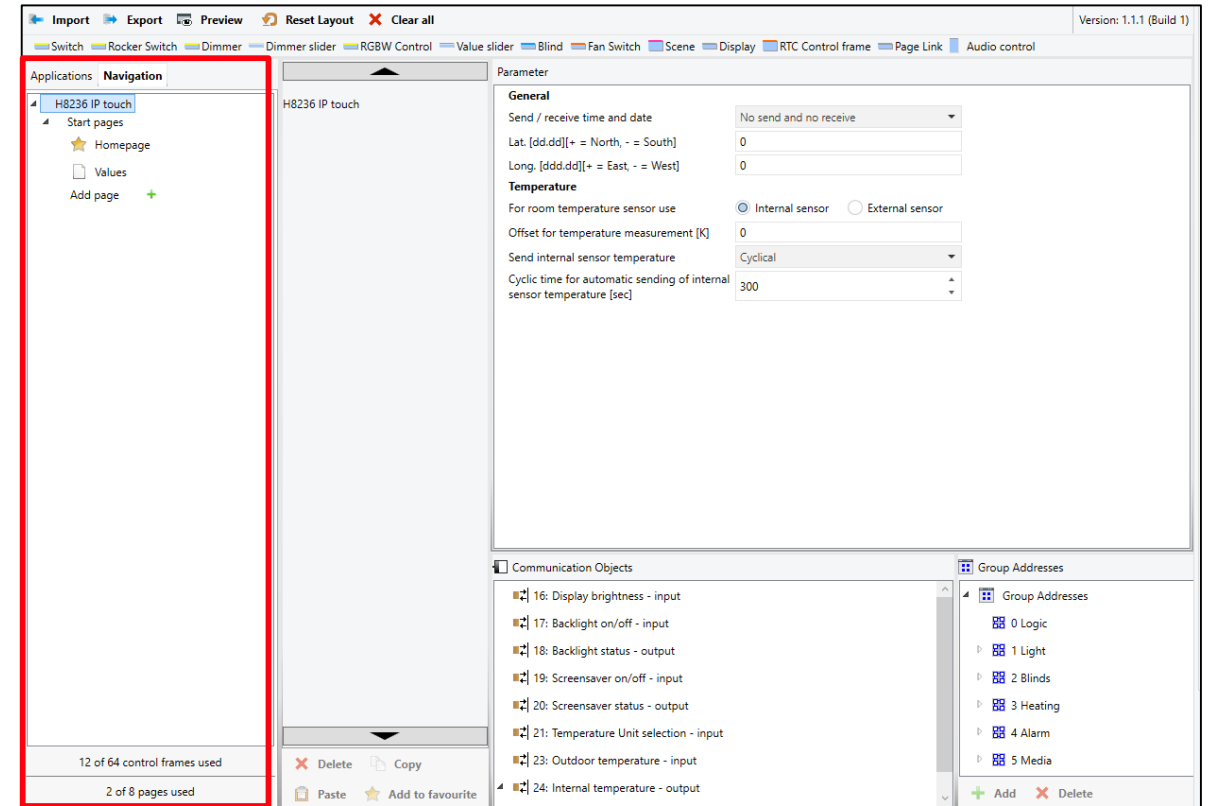


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## ABB i-bus KNX® – Commissioning

### Overview DCA Tool – Application/Navigation

- Application:
  - System settings
  - Activation of inputs
  - Fault and alarm messages
  - Scenes, time programs, logic functions
  - RTC
  - Favorites
- Navigation:
  - Creation of pages
  - Overview of used pages and control elements (only portrait mode)

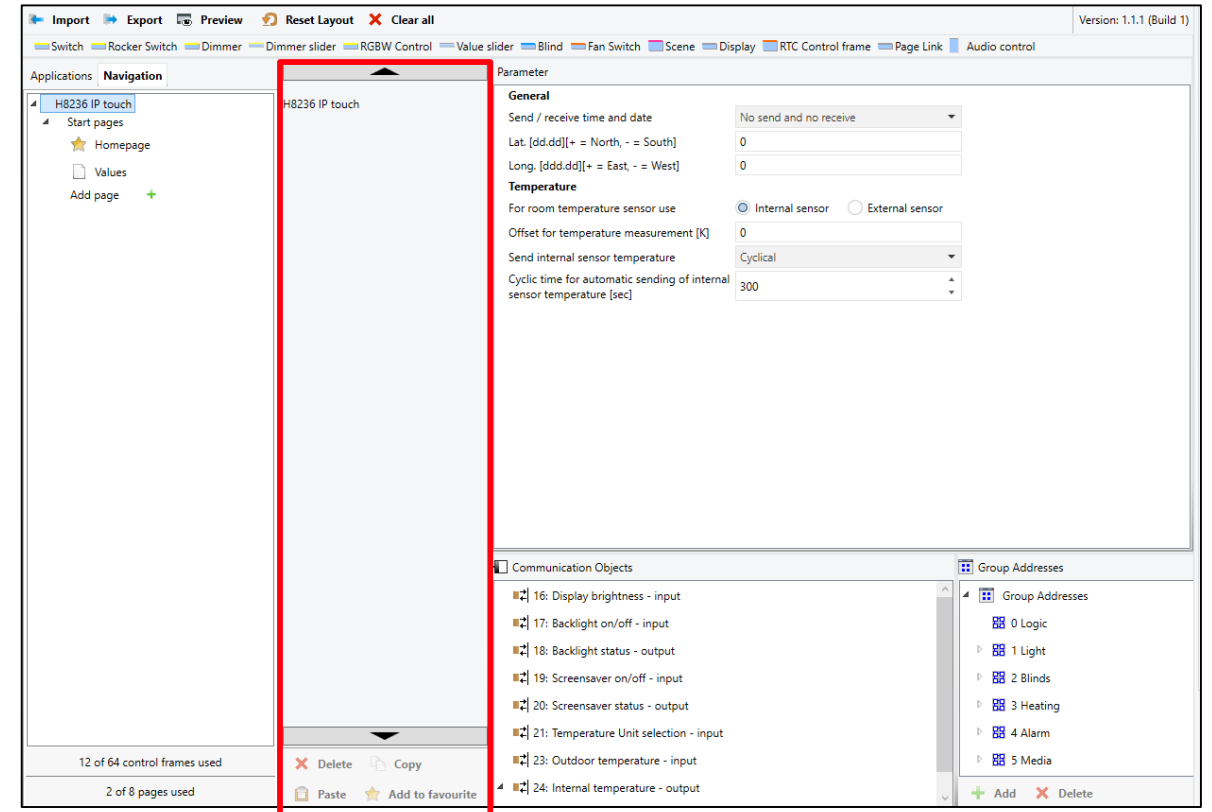


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## ABB i-bus KNX® – Commissioning

### Overview DCA Tool – Pages

- Setup for each page
- Control elements can be dragged from the task bar to the field of the page
- Each added control element can be deleted, copied or add to the favorites
- Copied control elements can be pasted on an empty spot

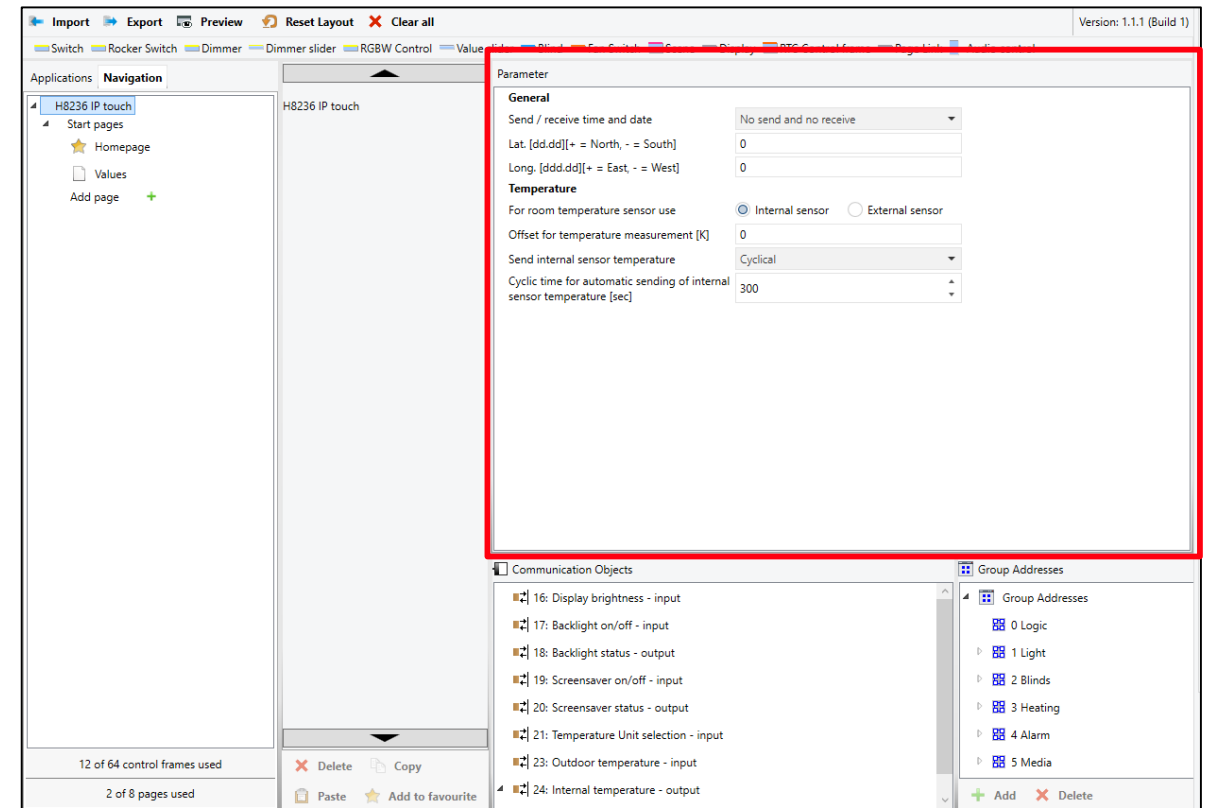


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## ABB i-bus KNX® – Commissioning

### Overview DCA Tool – Parameter

- General parameter for the panel itself, all pages and control elements
- Can only be adjusted in the DCA tool



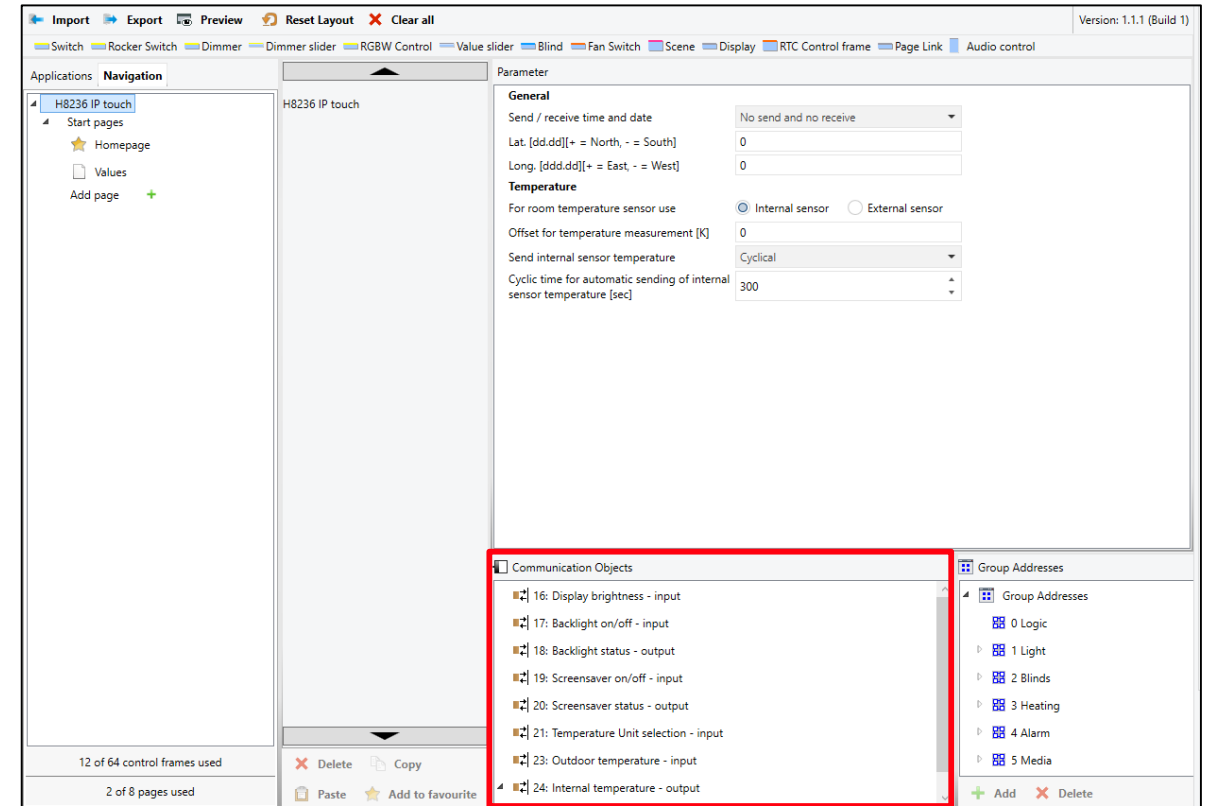


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## ABB i-bus KNX® – Commissioning

### Overview DCA Tool – Communication objects

- All available communication objects for the selected control element
- Can be linked also via the tab “Group Objects”

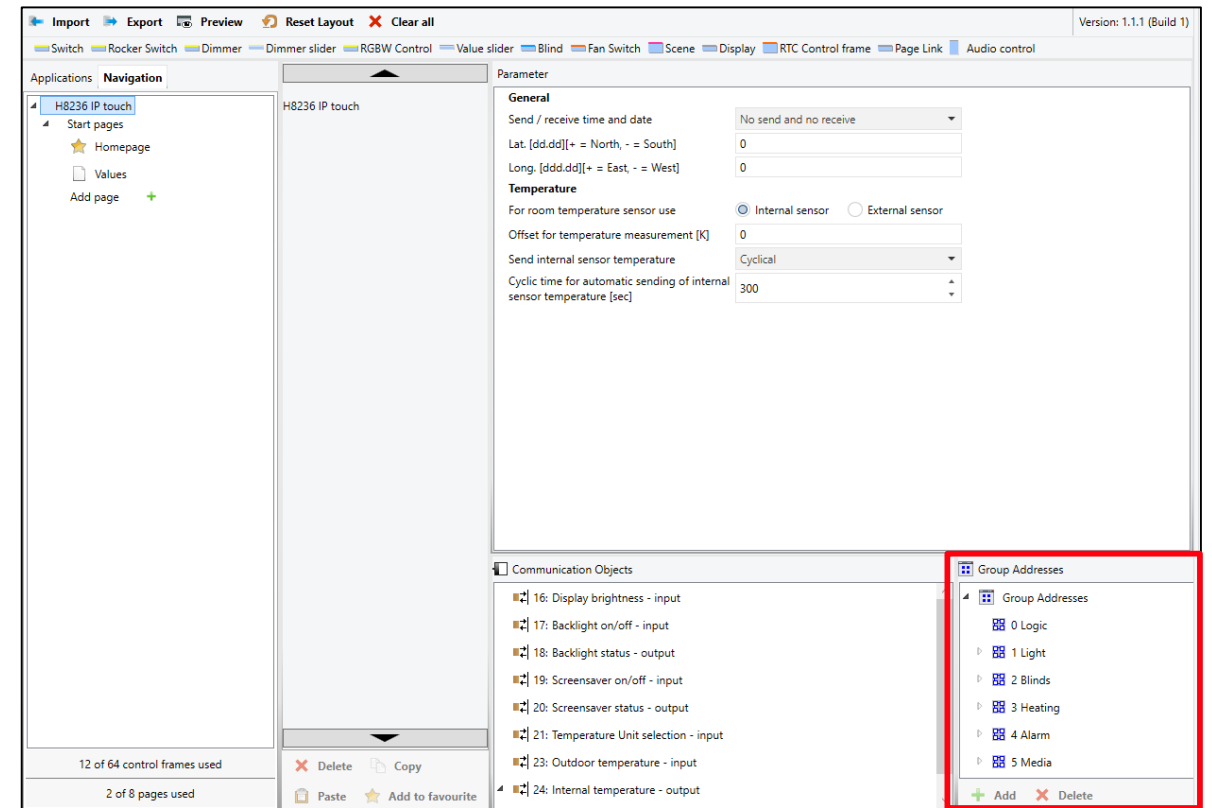


# Webinar ABB IP touch 7"/10"

## ABB i-bus KNX® – Commissioning

### Overview DCA Tool – Group addresses

- All available group addresses in the project
- To link the communication objects with the group addresses
- New group addresses can be created here
- Can be linked also via the tab “Group Objects”

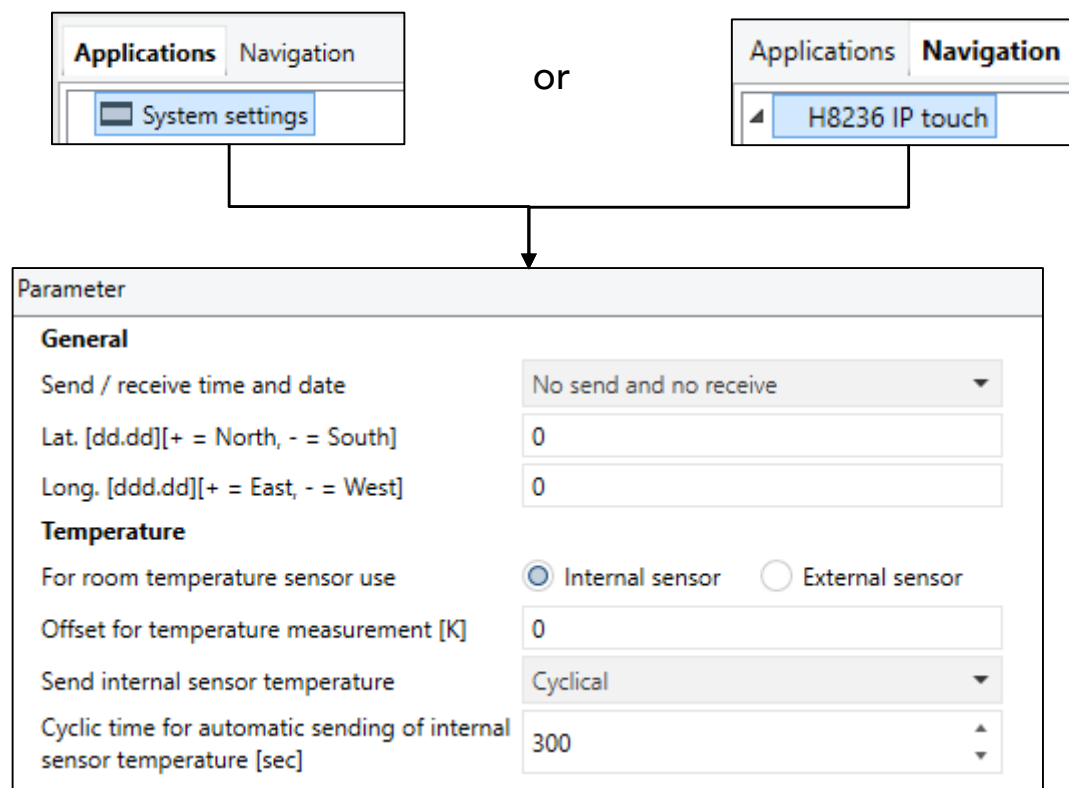


# Webinar ABB IP touch 7"/10"

## ABB i-bus KNX® – Commissioning

### System Settings – General & Temperature

- Time/Date settings can be sent or received
- Geo data
- Settings for the internal temperature sensor of the panel
- Internal measured temperature settings

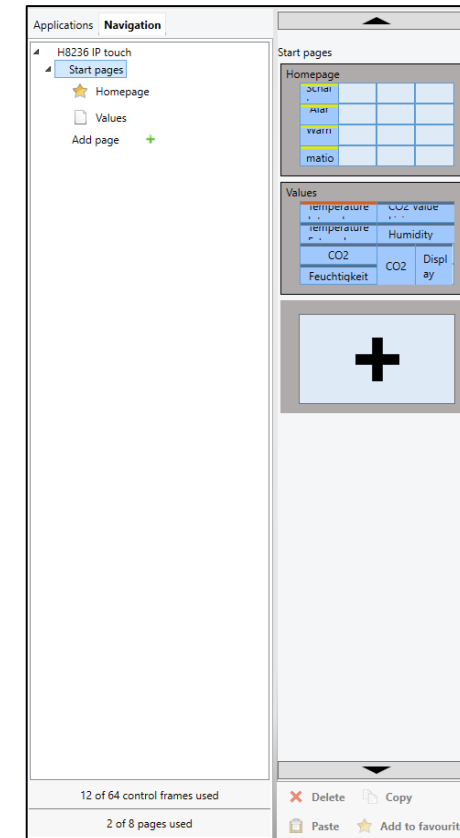


# Webinar ABB IP touch 7"/10"

## ABB i-bus KNX® – Commissioning

### Pages and Functions – New pages

- All pages and their functions are displayed in the “Navigation” tab
- New pages can be created by clicking on the plus icon next to “Add page”
- Up to 8 pages with 64 control elements can be created
- The new page will be displayed in the list

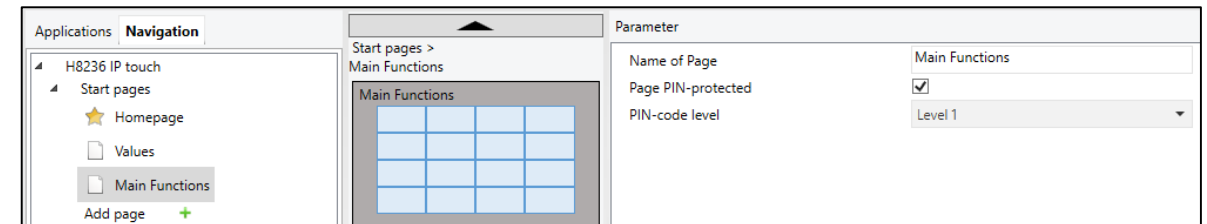


# Webinar ABB IP touch 7"/10"

## ABB i-bus KNX® – Commissioning

### Pages and Functions – Page settings

- Page settings:
  - Name of Page
  - Maximum 16 controls
  - Page PIN-protected (default: no)
  - PIN-code level: 1, 2 or 3 (see system settings “Security”)
- The order of the pages can be changed
- The first page of the list is the homepage

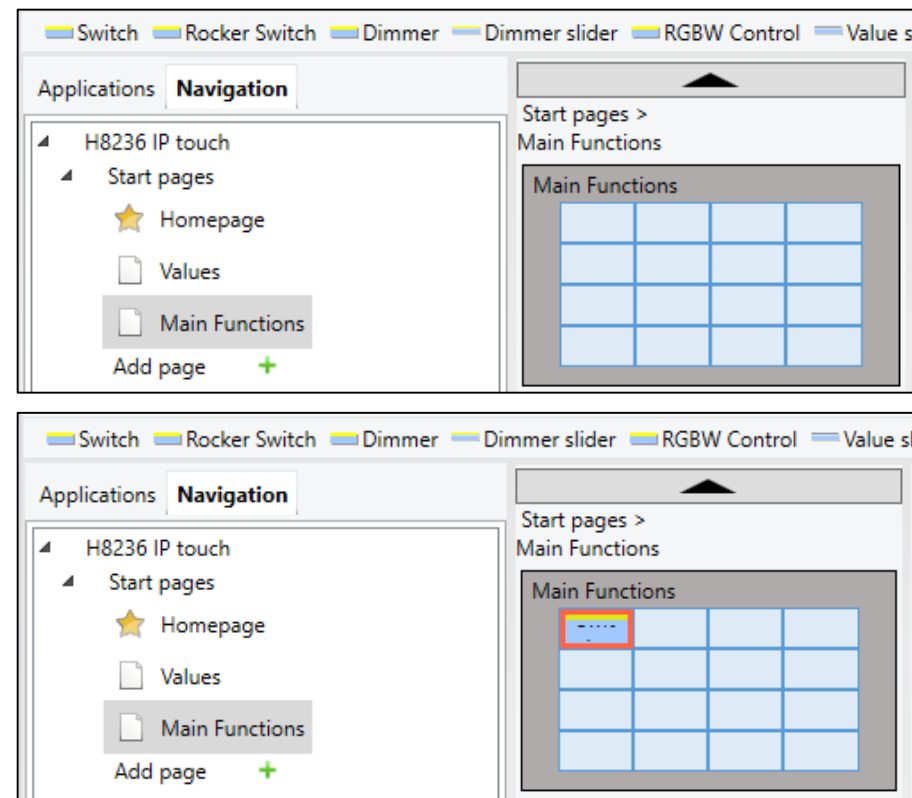
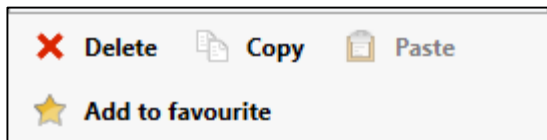


# Webinar ABB IP touch 7"/10"

## ABB i-bus KNX® – Commissioning

### Pages and Functions – Adding functions

- New functions can be added to a page by dragging the needed function from the tool bar to a free field of the page
- Available functions: switch, rocker switch, dimmer, dimmer slider, RGBW control, value slider, blinds, fan switch, display, scene, RTC control frame, page link, audio control
- Each control element can be deleted, copied or add to the favorites, when it is selected



# Webinar ABB IP touch 7"/10"

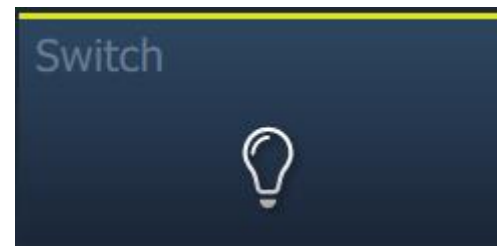
## ABB i-bus KNX® – Commissioning

### Pages and Functions – Switch

- Name of control element: will be displayed on the IP touch
- 1 column or 2 columns control element
- Kind of switch:
  - Toggle → switch between 1 and 0 (1-bit)
  - Press/Release → e.g. garage opener: press = 1 / release = 0 (different object types possible)
  - Short/Long → separate function for long and short press (different object types)
- Status can be controlled by separate object
- Icon can be changed
- Alternatively texts can be used instead of icons

The screenshot shows the 'Parameter' configuration window for a 'Switch' control element. The left pane shows a grid of 'Main Functions' with one cell highlighted. The right pane contains the following settings:

Parameter	
Name of control element	Switch
Function of control element	Light (Yellow)
Control size	<input checked="" type="radio"/> 1 column <input type="radio"/> 2 columns
Kind of Switch	Toggle
Status of control (Icon/Text) is controlled by separate object	<input type="checkbox"/>
Type of Icon	<input checked="" type="radio"/> Icons <input type="radio"/> Text
Icon for On	
Icon for Off	
Enable communication object "Disable" 1 bit	<input type="checkbox"/>



# Webinar ABB IP touch 7"/10"

## ABB i-bus KNX® – Commissioning

### Pages and Functions – Rocker switch

- Button up and button down control element
- 1 column or 2 columns control element
- Name, icon/text, type of icon and status-text (visible on the top left side) can be adjusted
- Object type can be chosen individually

switch  
forced operation  
1 byte value [0%..100%]  
1 byte value [0..255]  
1 byte value [-128..+127]  
Scene number  
RTC operating mode  
Temperature  
2 byte value [-32768..+32767]  
2 byte value [0..65535]  
2 byte floating point  
4 byte value [-2147483648..+2147483647]  
4 byte value [0..4294967295]  
14 byte text

Start pages >  
Main Functions

Main Functions

Switc	...	Dim	Blind
Dimmer	vv	Switc	
Value slider	Scen	Contr	
Dispi	Page		

Parameter

Name of control element: Rocker Switch

Function of control element: Light (Yellow)

Control size: ☒ 1 column ☐ 2 columns

Type of Icon: ☒ Icons ☐ Text

Icon for Left / Value 1:

Icon for Right / Value 2:

Status of control (Icon/Text) is controlled by separate object: ☐

**Button left => Value 1**  
**Button right => Value 2**

Object type: switch

sent value 1: ☐ 0 ☒ 1

sent value 2: ☒ 0 ☐ 1

Enable communication object "Disable" 1 bit: ☐





# Webinar ABB IP touch 7"/10"

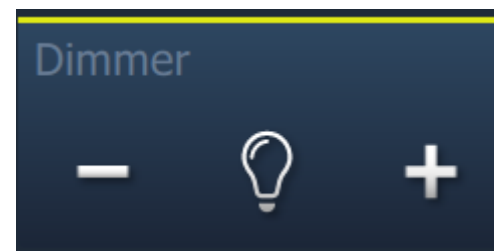
## ABB i-bus KNX® – Commissioning

### Pages and Functions – Dimmer

- Freely adjustable dimming control element
- Operation like push-button/sensor
- 1 column or 2 columns control element
- Manner of dimming:
  - Start/Stop (4-bit relative dimming)
  - Stepwise (4-bit)
  - Value (1-byte)
- Name and icons can be changed
- Status of control can be controlled by separate object

The screenshot shows the 'Parameter' configuration window for a 'Dimmer' control element. The left pane shows a grid of 'Main Functions' with 'Dimmer' highlighted. The right pane contains the following settings:

Parameter	Value
Name of control element	Dimmer
Function of control element	Light (Yellow)
Control size	<input checked="" type="radio"/> 1 column <input type="radio"/> 2 columns
Type of icons	<input checked="" type="radio"/> Standard <input type="radio"/> User-defined
Position for dim up icon	<input type="radio"/> Left <input checked="" type="radio"/> Right
Icon for dim up	+
Icon for dim down	-
Status of control (Icon) is controlled by separate object	<input type="checkbox"/>
Status dim value is controlled by separate object	<input type="checkbox"/>
Manner of dimming	Start/Stop
Long operation after ...	0.6 s
Enable communication object "Disable" 1 bit	<input type="checkbox"/>



# Webinar ABB IP touch 7"/10"

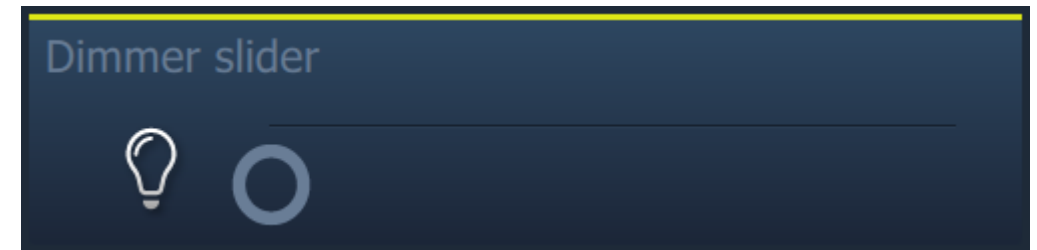
## ABB i-bus KNX® – Commissioning

### Pages and Functions – Dimmer slider

- Freely adjustable dimming control element
- 2 columns or 3 columns control element
- Value sender (when released or cyclically)
- Status icon can be separated

The screenshot shows the 'Parameter' configuration window for a 'Dimmer slider'. On the left, a 'Main Functions' palette displays various control icons, with the 'Dimmer slider' icon highlighted. The 'Parameter' window on the right contains the following settings:

Parameter	Value
Name of control element	Dimmer slider
Function of control element	Light (Yellow)
Control size	<input checked="" type="radio"/> 2 columns <input type="radio"/> 3 columns
Type of icons	<input checked="" type="radio"/> Standard <input type="radio"/> User-defined
Slider goes from	<input checked="" type="radio"/> Left to right <input type="radio"/> Right to left
Status of control (Icon) is controlled by separate object	<input type="checkbox"/>
Show value in Control	<input type="checkbox"/>
Slider sends	<input type="radio"/> When slider is released <input checked="" type="radio"/> cyclically
Brightness change [%]	1
Telegram is repeated every [s]	0.5s
Enable communication object "Disable" 1 bit	<input type="checkbox"/>

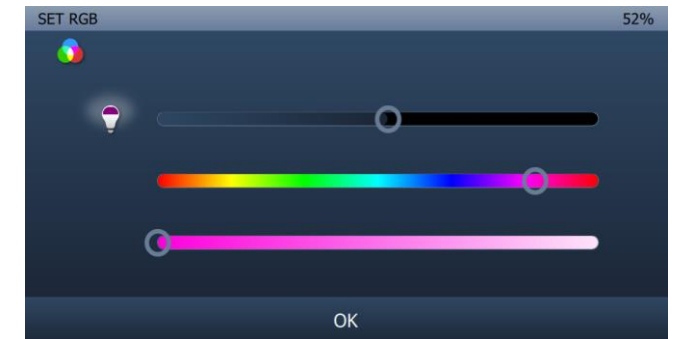
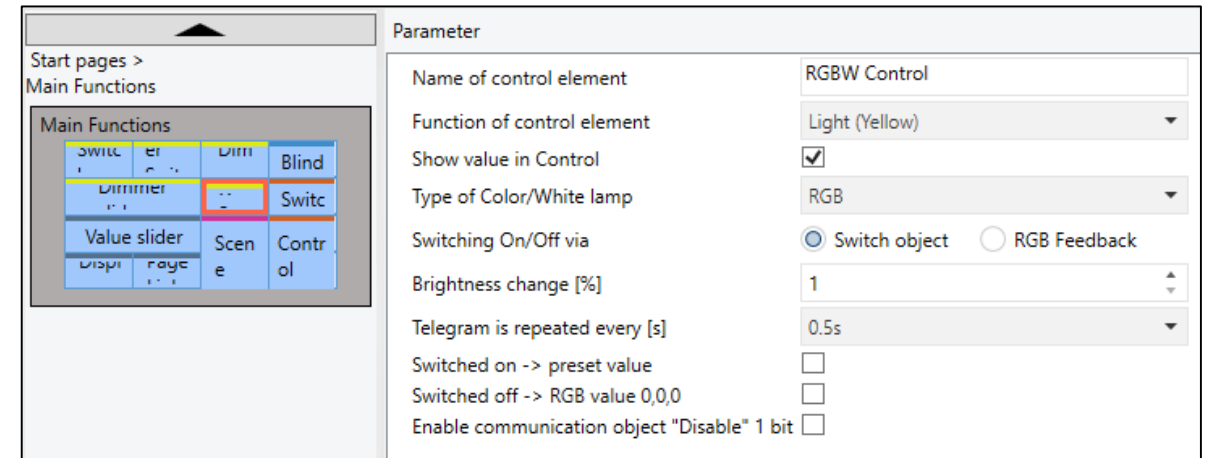
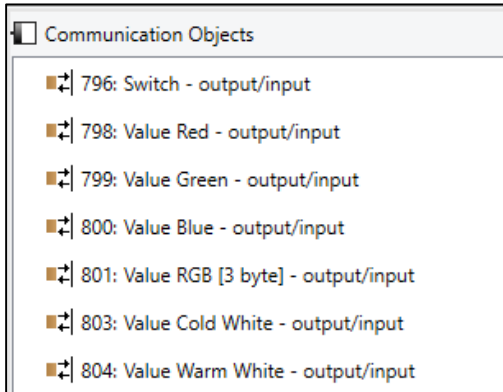


# Webinar ABB IP touch 7"/10"

## ABB i-bus KNX® – Commissioning

### Pages and Functions – RGBW Control

- Control for RGBW control
  - RGB
  - RGBW
  - RGBW + WW/CW
  - WW/CW
- Advanced settings for each control mode



# Webinar ABB IP touch 7"/10"

## ABB i-bus KNX® – Commissioning

### Pages and Functions – Value slider

- Value slider for 1/2/4-byte objects

1 byte value [0..100%]  
1 byte value [0..255]  
1 byte value [-128..+127]  
2 byte value [0..65535]  
2 byte value [-32768..+32767]  
2 byte floating point  
4 byte value [0..4294967295]  
4 byte value [-2147483648..+2147483647]  
4 byte floating point

- 2 columns or 3 columns control element
- Minimum and maximum value must be defined
- Controlled by swiping

The screenshot displays the 'Value slider' configuration window. On the left, a 'Main Functions' grid shows 'Value slider' selected. The right panel, titled 'Parameter', contains the following settings:

Parameter	Value
Name of control element	Value slider
Function of control element	Undefined (Grey)
Control size	<input checked="" type="radio"/> 2 columns <input type="radio"/> 3 columns
Slider goes from	<input checked="" type="radio"/> Left to right <input type="radio"/> Right to left
Show value in Control	<input type="checkbox"/>
Slider sends	<input type="radio"/> When slider is released <input checked="" type="radio"/> cyclically
Telegram is repeated every [s]	0.5s
Object type	1 byte value [0..100%]
Value change [%]	1
Minimum object value	0
Maximum object value	100
Minimum displayed value	0
Maximum displayed value	100
Enable communication object "Disable" 1 bit	<input type="checkbox"/>

# Webinar ABB IP touch 7"/10"

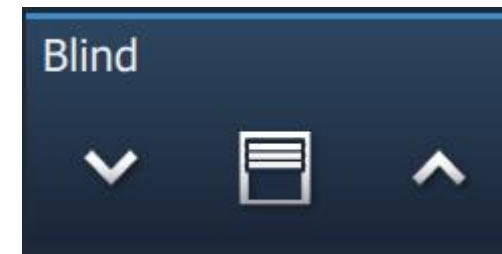
## ABB i-bus KNX® – Commissioning

### Pages and Functions – Blinds

- Predefined icons for blinds, shutter, marquee and hang
- Slat adjustment can be turned off
- 1 column or 2 columns control element

The screenshot shows the 'Parameter' configuration window for a 'Blind' control element. On the left, a 'Main Functions' palette displays various icons, with the 'Blind' icon highlighted. The 'Parameter' window on the right contains the following settings:

- Name of control element: Blind
- Function of control element: Blind (Blue)
- Control size: ☒ 1 column ☐ 2 columns
- Type of control: Short = Stepwise/Stop, Long = Move
- Type of icons: Blind Animation
- Position for Up / Open icon: ☐ Left ☒ Right
- Icon for Up / Open: [Up arrow icon]
- Icon for Down / Close: [Down arrow icon]
- Status of control (Icon) is controlled by separate object: ☐
- Long operation after ...: 0.6 s
- Enable communication object "Disable" 1 bit: ☐

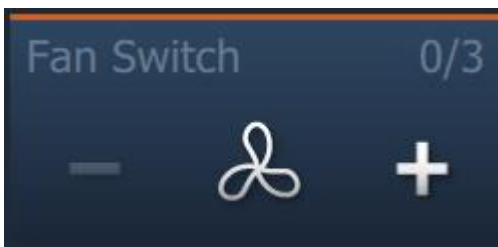


# Webinar ABB IP touch 7"/10"

## ABB i-bus KNX® – Commissioning

### Pages and Functions – Fan Switch

- 1 column or 2 columns control element
- Number of steps can be adjusted (1-8)
- Object type can be 1-bit or 1-byte
- Value for each step can be adjusted (1-byte → 0 – 255)
- Separated communication objects for 1-bit operation
- 1-bit switch pattern:
  - 1 of n
  - X of n
  - Gray-code



Parameter	
Name of control element	Fan Switch
Function of control element	Temperature (Orange)
Control size	<input checked="" type="radio"/> 1 column <input type="radio"/> 2 columns
Disable Off control	<input type="checkbox"/>
Type of icons	<input checked="" type="radio"/> Standard <input type="radio"/> User-defined
Position for step up icon	<input type="radio"/> Left <input checked="" type="radio"/> Right
Icon for step up	+
Icon for step down	-
Telegram is repeated every [s]	0.5s
Number of steps	3
Object type	<input type="radio"/> 1 bit [0/1] <input checked="" type="radio"/> 1 byte unsigned [0..255]
Value Off	0
Value step 1	1
Value step 2	2
Value step 3	3
Display Status	Default
Text Out of range	Fault
Enable communication object "Disable" 1 bit	<input type="checkbox"/>

# Webinar ABB IP touch 7"/10"

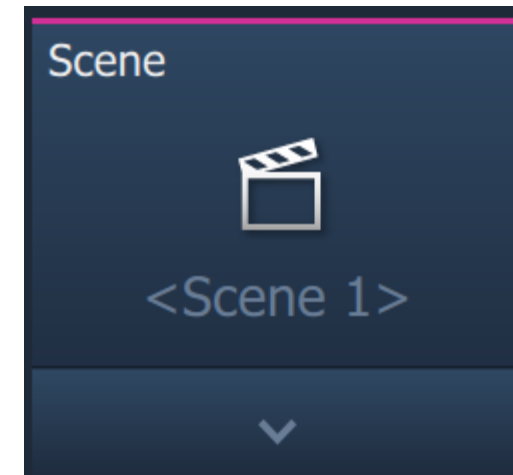
## ABB i-bus KNX® – Commissioning

### Pages and Functions – Scene

- Up to 10 Scenes in one control element
- Easy adjustment of each scene (name, scene number)
- Scenes can be stored/overwritten by long press

The screenshot shows the 'Scene' configuration page in the ABB i-bus KNX commissioning software. The left sidebar contains a 'Main Functions' menu with options: Switch, Dimmer, Value slider, Scene (highlighted with a red border), and Control. The main area is titled 'Parameter' and contains the following settings:

Parameter	Value
Name of control element	Scene
Function of control element	Scene (Magenta)
Start the scene as it is selected	<input checked="" type="checkbox"/>
Long operation after ...	0.6 s
Number of scenes [1..10]	1
Scene number 1 [1..64]	1
Name of scene 1	<Scene 1>
Store scene 1 by long press	<input type="checkbox"/>
Enable communication object "Disable" 1 bit	<input type="checkbox"/>

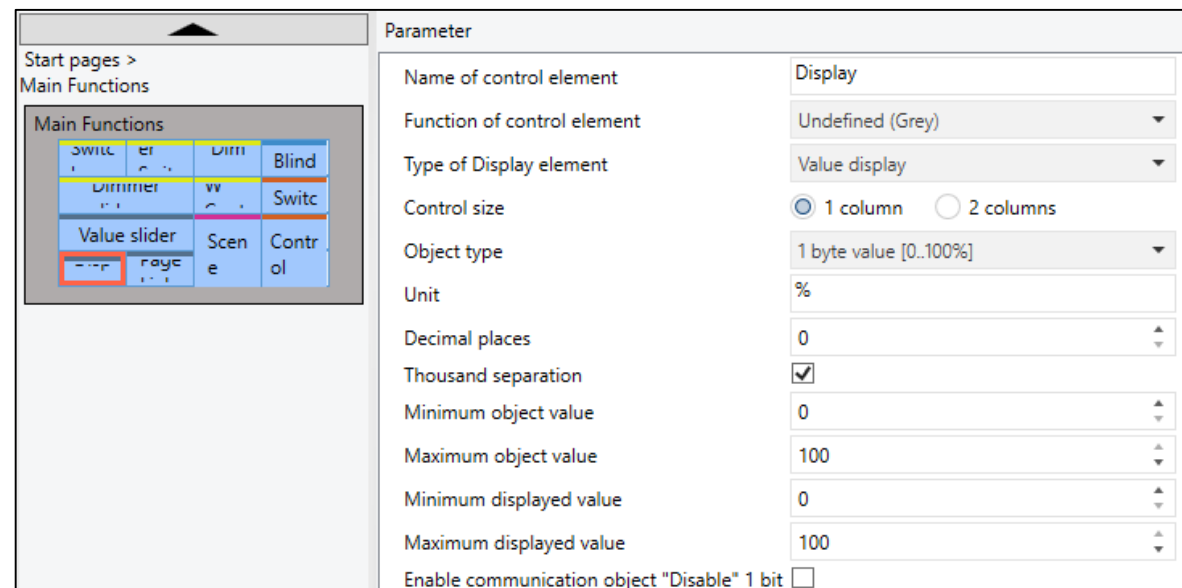


# Webinar ABB IP touch 7"/10"

## ABB i-bus KNX® – Commissioning

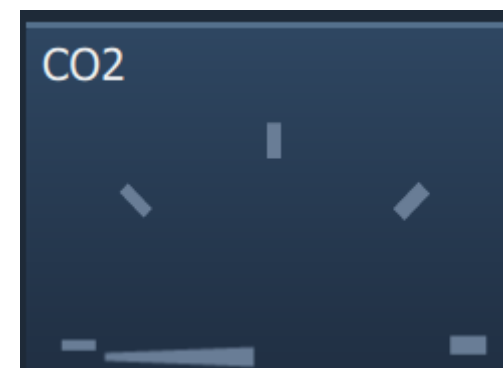
### Pages and Functions – Display

- Display different values like energy data, temperature, CO2, ppm,...
- 13 different display types
  - 9 predefined types
  - 4 types, which can be adjusted individually
- Display of energy data with 4-byte object possible
- Can be used for many different applications



The screenshot shows the ABB i-bus KNX commissioning software interface. On the left, the 'Main Functions' menu is visible, with a red box highlighting the 'Display' function. On the right, the 'Parameter' configuration window is open, showing various settings for the selected 'Display' element.

Parameter	
Name of control element	Display
Function of control element	Undefined (Grey)
Type of Display element	Value display
Control size	<input checked="" type="radio"/> 1 column <input type="radio"/> 2 columns
Object type	1 byte value [0..100%]
Unit	%
Decimal places	0
Thousand separation	<input checked="" type="checkbox"/>
Minimum object value	0
Maximum object value	100
Minimum displayed value	0
Maximum displayed value	100
Enable communication object "Disable" 1 bit	<input type="checkbox"/>



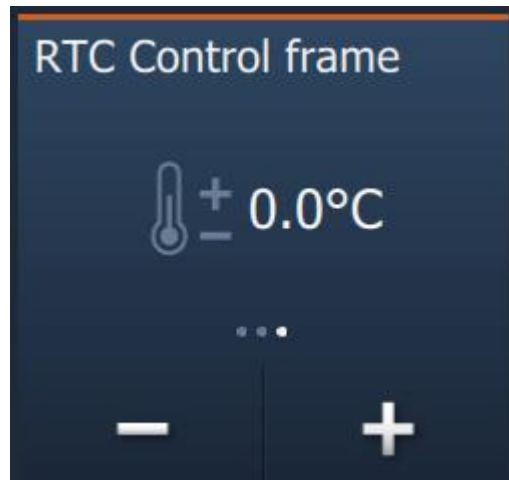


# Webinar ABB IP touch 7"/10"

## ABB i-bus KNX® – Commissioning

### Pages and Functions – RTC Control Frame

- Unified RTC 2.0
- Slave control element
- Comprehensive settings for display and function of the RTC control frame



Start pages >  
Main Functions

Main Functions

Switch	Dimmer	Blind
Value slider	Scene	Control

Parameter

**General**

Name of control element: RTC Control frame

Function of control element: Temperature (Orange)

Additional functions/objects: ☐

**Temperature reading**

Inputs of temperature reading: ☐ Internal measurement ☒ External measurement

**Operating functions**

Show actual temperature value: ☐

Hide temperature unit: ☐

Temperature unit: ☒ °C ☐ °F

Switchover heating/cooling: ☒

Fan coil control during heating mode: ☒

Fan coil control during cooling mode: ☒

**Changing setpoint**

Step size of setpoint adjustment: 0.5 °C

Setpoint adjustment master/slave via communication object: Absolute temperature value

**Fan Coil settings**

Number of fan devices: ☒ Heating/cooling via one system ☐ Heating/cooling via two systems

Fan speed data format Master-Slave: ☐ Counter values (e.g. 0 - 5) ☒ Percentage values

**Fan speed levels**

Number of fan speeds: 3 speeds

Lowest manually adjustable fan speed level: ☐ Speed 0 ☒ Speed 1

**Fan coil settings**

Step values: ☒ According to standard values table ☐ Specify single

# Webinar ABB IP touch 7"/10"

## ABB i-bus KNX® – Commissioning

### Pages and Functions – Page Link

- Links to other pages can be added
- 1 column or 2 columns control element
- All other pages can be called
- Direct links to system settings, time programs and door communication possible

The screenshot shows the 'Main Functions' grid on the left and the 'Parameter' settings on the right. The grid contains various control elements like 'Switch', 'Dimmer', 'Value slider', 'Scene', 'Blind', and 'Control'. The 'Parameter' section on the right is configured for a 'Page Link' control element.

Parameter	
Name of control element	Page Link
Function of control element	Undefined (Grey)
Control size	<input checked="" type="radio"/> 1 column <input type="radio"/> 2 columns
Linked to page	Homepage
Enable communication object "Disable" 1 bit	<input type="checkbox"/>

The screenshot shows the 'Linked to page' dropdown menu. The 'Homepage' option is selected and highlighted in blue. Other options listed include 'Values', 'Main Functions', 'System settings', 'Time programs', and 'Door communication'.

Linked to page
Homepage
Values
Main Functions
System settings
Time programs
Door communication

# Webinar ABB IP touch 7"/10"

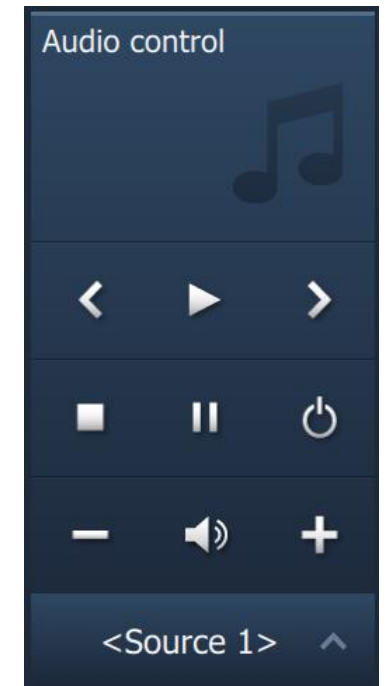
## ABB i-bus KNX® – Commissioning

### Pages and Functions – Audio Control

- Flexible settings for audio control
- Can be combined with different audio sources
- Object type can be changed – depending on the needs (Example: object type for mute control: 1-bit/1-byte)

The screenshot displays the 'Audio Control' parameter configuration window. On the left, a small preview shows a grid of control elements with one labeled 'Audio control'. The main area is a list of parameters with their respective settings:

Parameter	Value
Name of control element	Audio control
Function of control element	Undefined (Grey)
Number of sources	1
Source 1 name	<Source 1>
Source 1 type	<input checked="" type="radio"/> 1 bit <input type="radio"/> 1 byte value [0..255]
Use play control	<input checked="" type="checkbox"/>
Object type play control	<input checked="" type="radio"/> 1 bit <input type="radio"/> 1 byte value [0..255]
Value for play	<input type="radio"/> 0 <input checked="" type="radio"/> 1
Use pause control	<input checked="" type="checkbox"/>
Object type pause control	<input checked="" type="radio"/> 1 bit <input type="radio"/> 1 byte value [0..255]
Value for pause	<input checked="" type="radio"/> 0 <input type="radio"/> 1
Use stop control	<input checked="" type="checkbox"/>
Object type stop control	<input checked="" type="radio"/> 1 bit <input type="radio"/> 1 byte value [0..255]
Value for stop	<input type="radio"/> 0 <input checked="" type="radio"/> 1
Use skip forward control	<input checked="" type="checkbox"/>
Object type skip forward control	<input checked="" type="radio"/> 1 bit <input type="radio"/> 1 byte value [0..255]
Value for skip forward	<input type="radio"/> 0 <input checked="" type="radio"/> 1
Use skip backward control	<input checked="" type="checkbox"/>
Object type skip backward control	<input checked="" type="radio"/> 1 bit <input type="radio"/> 1 byte value [0..255]
Value for skip backward	<input type="radio"/> 0 <input checked="" type="radio"/> 1
Use mute control	<input checked="" type="checkbox"/>
Object type mute control	<input checked="" type="radio"/> 1 bit <input type="radio"/> 1 byte value [0..255]
Value for mute	<input type="radio"/> 0 <input checked="" type="radio"/> 1
Value for unmute	<input checked="" type="radio"/> 0 <input type="radio"/> 1
Use volume control	<input checked="" type="checkbox"/>
Object type volume control	1 byte value [0..100%]
Volume change [%]	5
Telegram is repeated every [s]	0.5s
Use on/off control	<input checked="" type="checkbox"/>
Object type on/off control	<input checked="" type="radio"/> 1 bit <input type="radio"/> 1 byte value [0..255]
Value for on	<input type="radio"/> 0 <input checked="" type="radio"/> 1
Value for off	<input checked="" type="radio"/> 0 <input type="radio"/> 1
Enable communication object "Disable" 1 bit	<input type="checkbox"/>

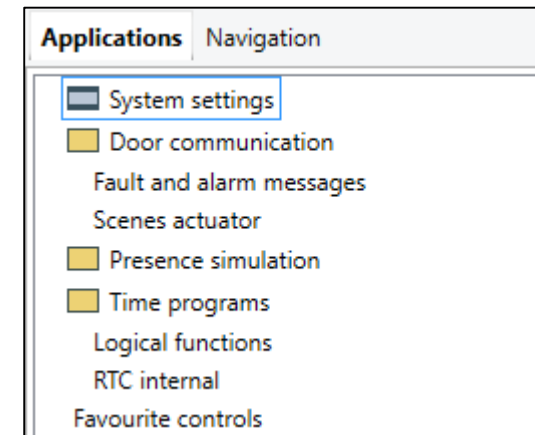


# Webinar ABB IP touch 7"/10"

## ABB i-bus KNX® – Commissioning

### Applications

- Special applications and functions of the ABB IP touch
- By activating some of the functions additional application pages will be activated in the display
- Other functions will run in the background and must be configured in the ETS



# Webinar ABB IP touch 7"/10"

## ABB i-bus KNX® – Commissioning

### Applications – Door Communication

- Communication Objects for door communication (Welcome IP)
- Ringtone and speech volume control
- Information about ringing and calls can be used
- Switching light and opening doors possible

Parameter	
Use door communication objects	<input checked="" type="checkbox"/>

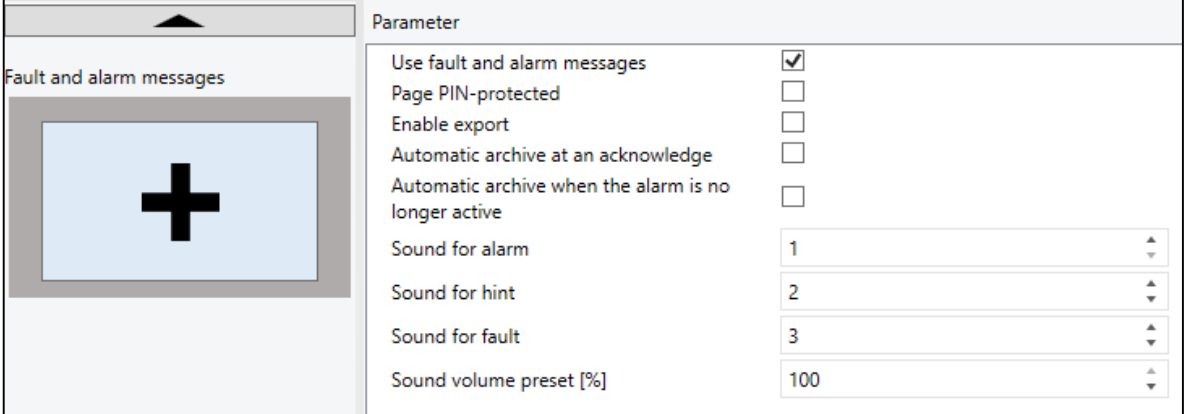
Communication Objects	
1: Ringtone Volume - input/output	
2: Increase/decrease ringtone volume - input	
3: Speech Volume - input/output	
4: Increase/decrease speech volume - input	
5: Ringing - output	
6: Call started - output	
7: Call ended - output	
8: Mute incoming calls - input/output	
9: Switch Light - input	
10: Open door - input	

# Webinar ABB IP touch 7"/10"

## ABB i-bus KNX® – Commissioning

### Applications – Fault and alarm messages

- Up to 20 fault and alarm messages can be created
- Page for alarm messages can be protected with PIN
- 5 different sounds for 3 alarm types



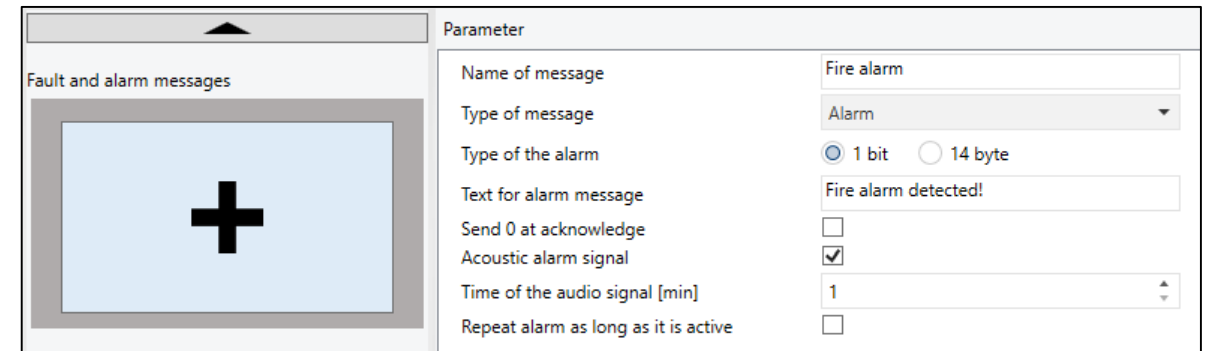
Parameter	
Use fault and alarm messages	<input checked="" type="checkbox"/>
Page PIN-protected	<input type="checkbox"/>
Enable export	<input type="checkbox"/>
Automatic archive at an acknowledge	<input type="checkbox"/>
Automatic archive when the alarm is no longer active	<input type="checkbox"/>
Sound for alarm	1
Sound for hint	2
Sound for fault	3
Sound volume preset [%]	100

# Webinar ABB IP touch 7"/10"

## ABB i-bus KNX® – Commissioning

### Applications – Fault and alarm messages

- Type of message: Alarm , Hint or Fault
- Type of alarm: 1-bit or 14-byte for flexible alarm messages



The screenshot shows the 'Fault and alarm messages' configuration window. On the left is a large blue square with a black plus sign. On the right is a 'Parameter' table with the following settings:

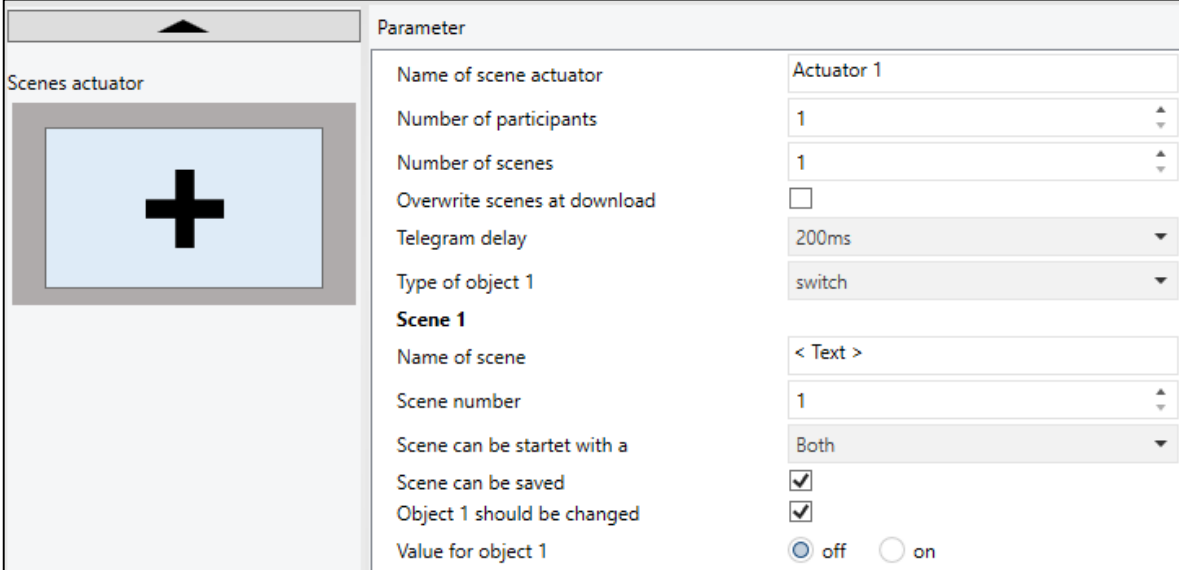
Parameter	
Name of message	Fire alarm
Type of message	Alarm
Type of the alarm	<input checked="" type="radio"/> 1 bit <input type="radio"/> 14 byte
Text for alarm message	Fire alarm detected!
Send 0 at acknowledge	<input type="checkbox"/>
Acoustic alarm signal	<input checked="" type="checkbox"/>
Time of the audio signal [min]	1
Repeat alarm as long as it is active	<input type="checkbox"/>

# Webinar ABB IP touch 7"/10"

## ABB i-bus KNX® – Commissioning

### Applications – Scene Actuator

- Scene actuators (4 actuators with each 15 participants)
- 4 scenes per actuator channel



Parameter	
Name of scene actuator	Actuator 1
Number of participants	1
Number of scenes	1
Overwrite scenes at download	<input type="checkbox"/>
Telegram delay	200ms
Type of object 1	switch
<b>Scene 1</b>	
Name of scene	< Text >
Scene number	1
Scene can be startet with a	Both
Scene can be saved	<input checked="" type="checkbox"/>
Object 1 should be changed	<input checked="" type="checkbox"/>
Value for object 1	<input checked="" type="radio"/> off <input type="radio"/> on



# Webinar ABB IP touch 7"/10"

## ABB i-bus KNX® – Commissioning

### Applications – Presence Simulation

- Up to 10 objects can be used for the presence simulation (1-bit and 1-byte)
- Activation of the presence simulation via panel

Parameter	
Use presence simulation	<input checked="" type="checkbox"/>
Function PIN-protected	<input type="checkbox"/>
Enable export	<input type="checkbox"/>
Waiting time till activation [min]	<input type="text" value="2"/>
Object type 1	<input checked="" type="radio"/> 1 bit <input type="radio"/> Value (1 Byte)
Object type 2	<input checked="" type="radio"/> 1 bit <input type="radio"/> Value (1 Byte)
Object type 3	<input checked="" type="radio"/> 1 bit <input type="radio"/> Value (1 Byte)
Object type 4	<input checked="" type="radio"/> 1 bit <input type="radio"/> Value (1 Byte)
Object type 5	<input checked="" type="radio"/> 1 bit <input type="radio"/> Value (1 Byte)
Object type 6	<input checked="" type="radio"/> 1 bit <input type="radio"/> Value (1 Byte)
Object type 7	<input checked="" type="radio"/> 1 bit <input type="radio"/> Value (1 Byte)
Object type 8	<input checked="" type="radio"/> 1 bit <input type="radio"/> Value (1 Byte)
Object type 9	<input checked="" type="radio"/> 1 bit <input type="radio"/> Value (1 Byte)
Object type 10	<input checked="" type="radio"/> 1 bit <input type="radio"/> Value (1 Byte)

# Webinar ABB IP touch 7"/10"

## ABB i-bus KNX® – Commissioning

### Applications – Time Programs

- Setup of all time programs must be done on the IP touch
- Time programs can be protected with PIN

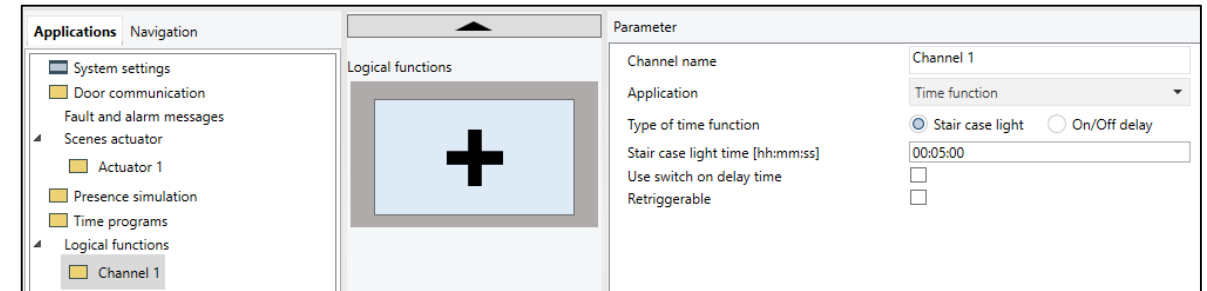


# Webinar ABB IP touch 7"/10"

## ABB i-bus KNX® – Commissioning

### Applications – Logic functions

- Up to 10 logic functions can be used
- Available functions:
  - Logic gate
  - Multiplexer
  - Multiplier
  - Gate
  - Temperature comparator
  - State converter
  - Time function

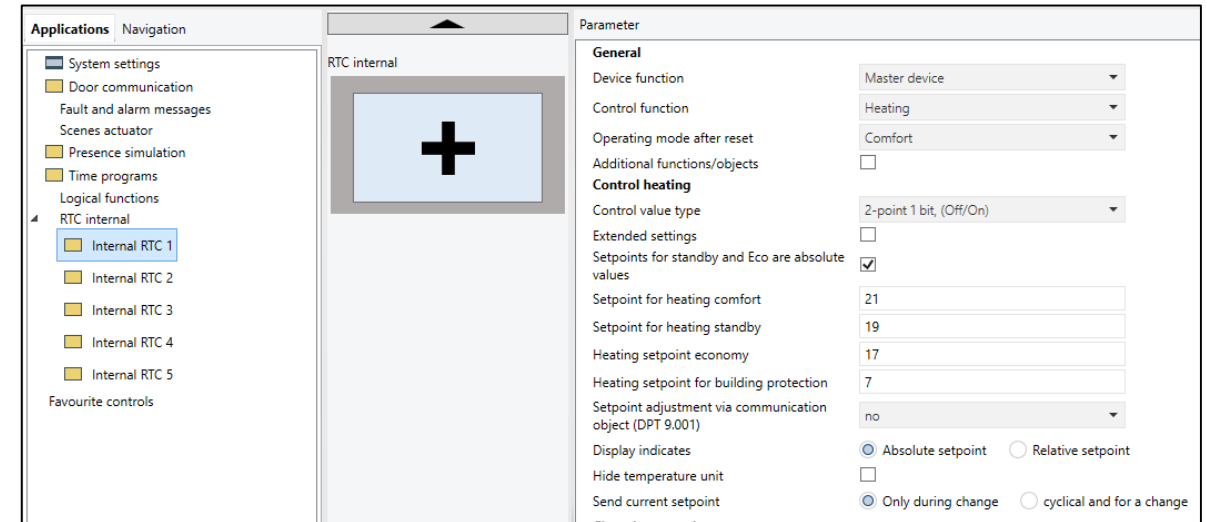


# Webinar ABB IP touch 7"/10"

## ABB i-bus KNX® – Commissioning

### Applications – Internal RTC

- Five integrated Master RTC
- 6 different control functions (heating, cooling, heating and cooling, + additional stages)
- Setpoint adjustment via 1-byte, absolute or relative value

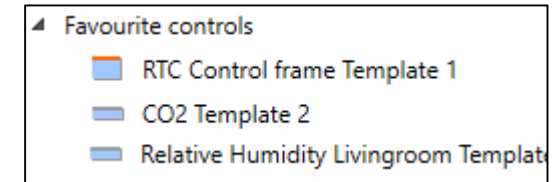


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## ABB i-bus KNX® – Commissioning

### Applications – Favorites

- Control elements can be marked as a favorite to fasten the configuration
- All adjusted parameters will be stored in the template



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# Webinar ABB IP touch 7"/10"

ABB-free@home®

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# Webinar ABB IP touch 7"/10"

ABB-free@home®

## Introduction

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Now ABB-free@home® also has a super-flat panel with simple IP integration via LAN or WIFI, fast commissioning via the familiar ABB-free@home® APP and, if required, integration of IP door communication

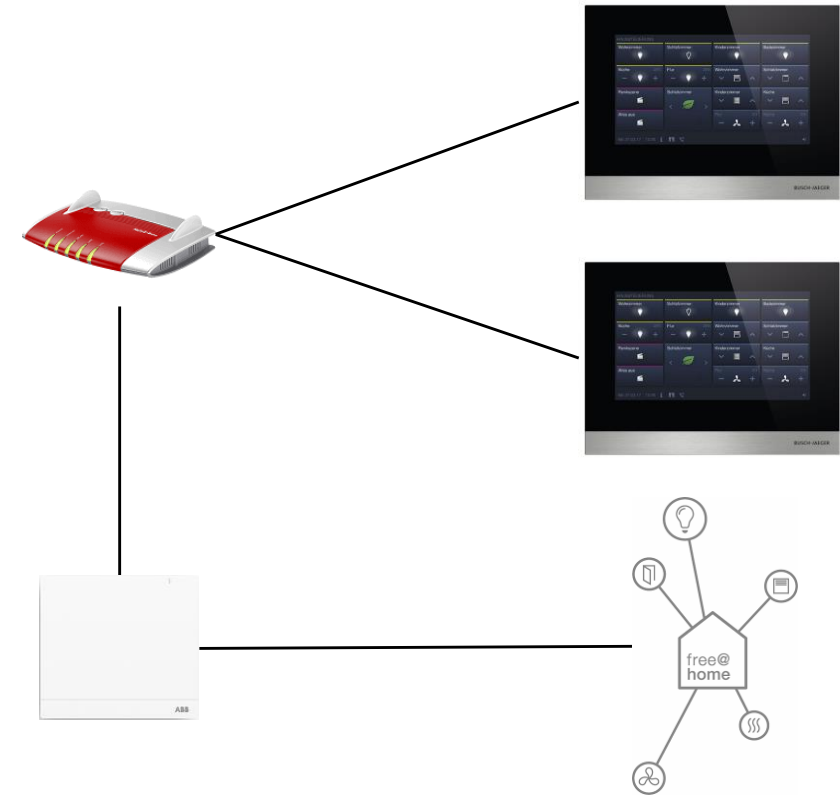


# Webinar ABB IP touch 7"/10"

ABB-free@home®

## ABB-free@home® integration

- IP touch must be connected to the IP network of the ABB-free@home® SysAP with the home network connection of the panel (can be adjusted on the panel directly)
- Easy connection via LAN or WLAN
- Programming ABB-free@home® interface



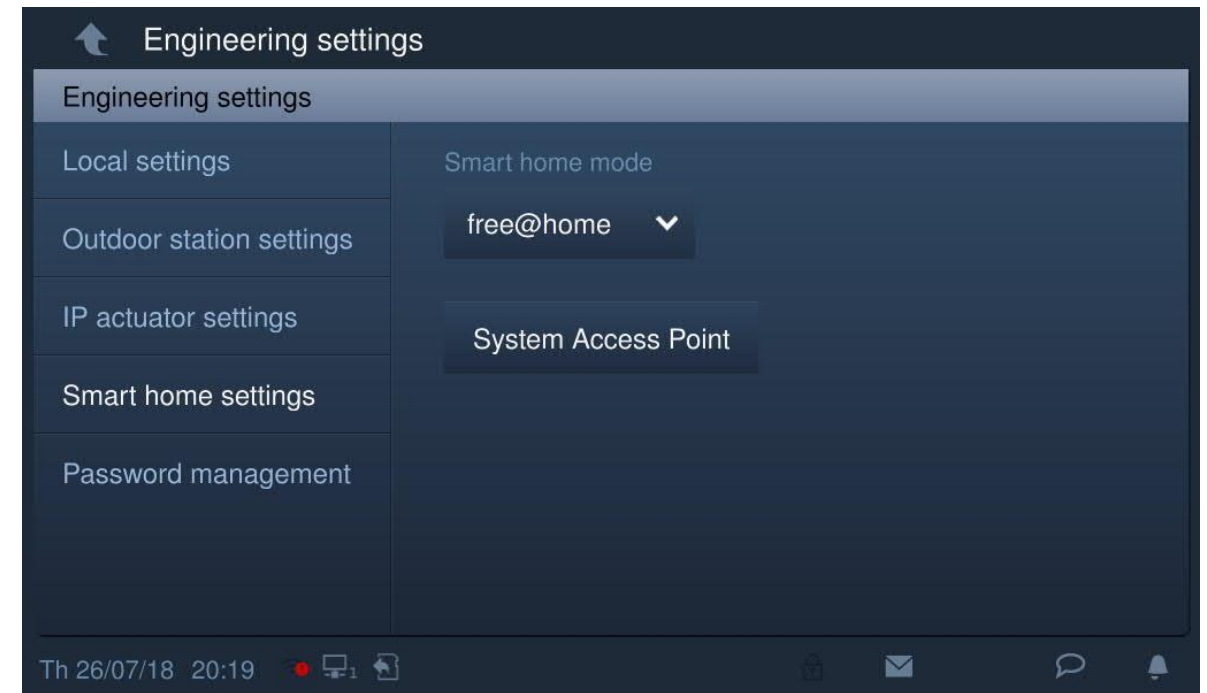


# Webinar ABB IP touch 7"/10"

ABB-free@home®

## Connection

- IP touch must be connected to the IP network of the ABB-free@home® SysAP with the home network connection of the panel (can be adjusted on the panel directly)
- free@home and IP touch must be paired via the interface of the panel
- On the “Engineering setting” screen, click “Smart home settings” to access the corresponding screen
- Smart home mode = free@home
- On the “Smart home settings” screen, click “System Access Point”, followed by the name of the SysAP



# Webinar ABB IP touch 7"/10"

ABB-free@home®

## Connection

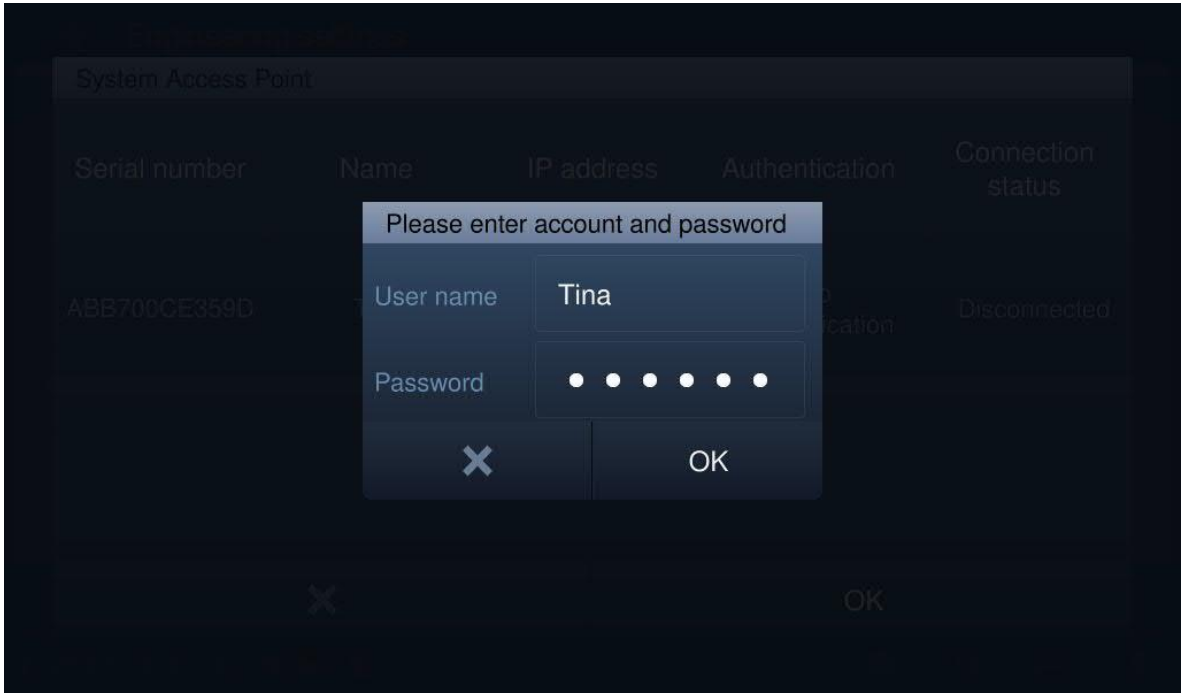
- IP touch must be connected to the IP network of the ABB-free@home® SysAP with the home network connection of the panel (can be adjusted on the panel directly)
- free@home and IP touch must be paired via the interface of the panel
- On the “Engineering setting” screen, click “Smart home settings” to access the corresponding screen
- Smart home mode = free@home
- On the “Smart home settings” screen, click “System Access Point”, followed by the name of the SysAP

System Access Point				
Serial number	Name	IP address	Authentication	Connection status
ABB700CE359D	Tina	192.168.12.107	No authentication	Disconnected
✕			OK	

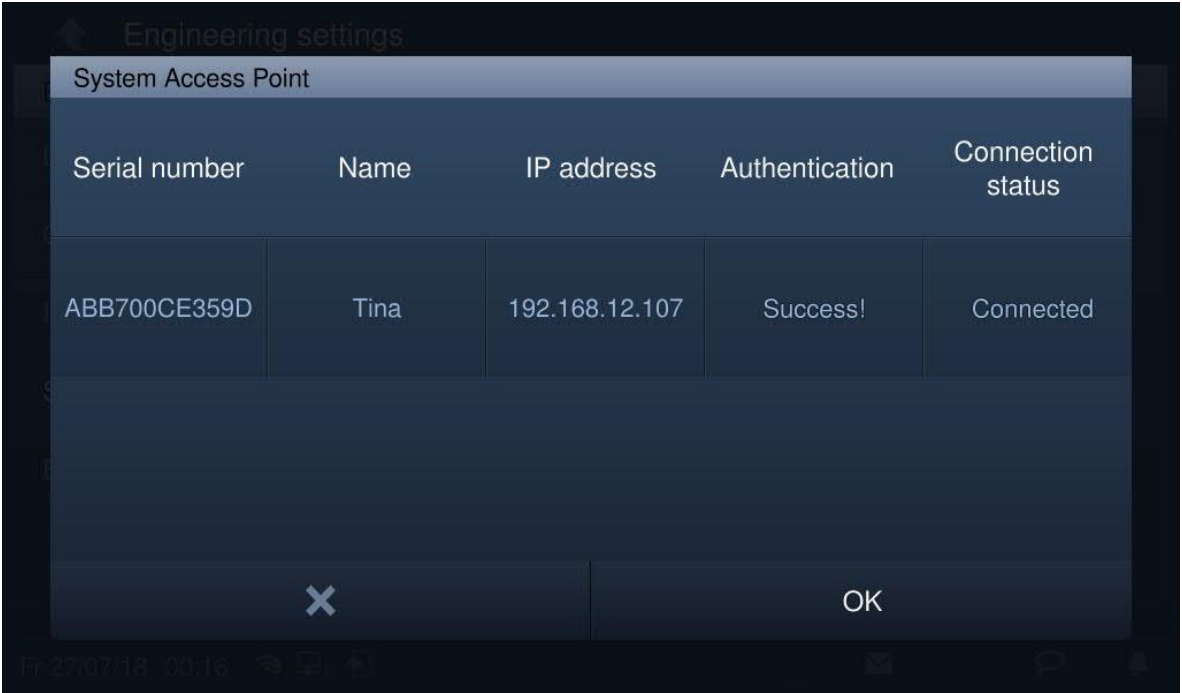
# Webinar ABB IP touch 7"/10"

ABB-free@home®

## User name and password



## Connection success

















# Webinar ABB IP touch 7"/10"

ABB-free@home®

## Commissioning

- The IP touch will appear in the ABB-free@home® interface now

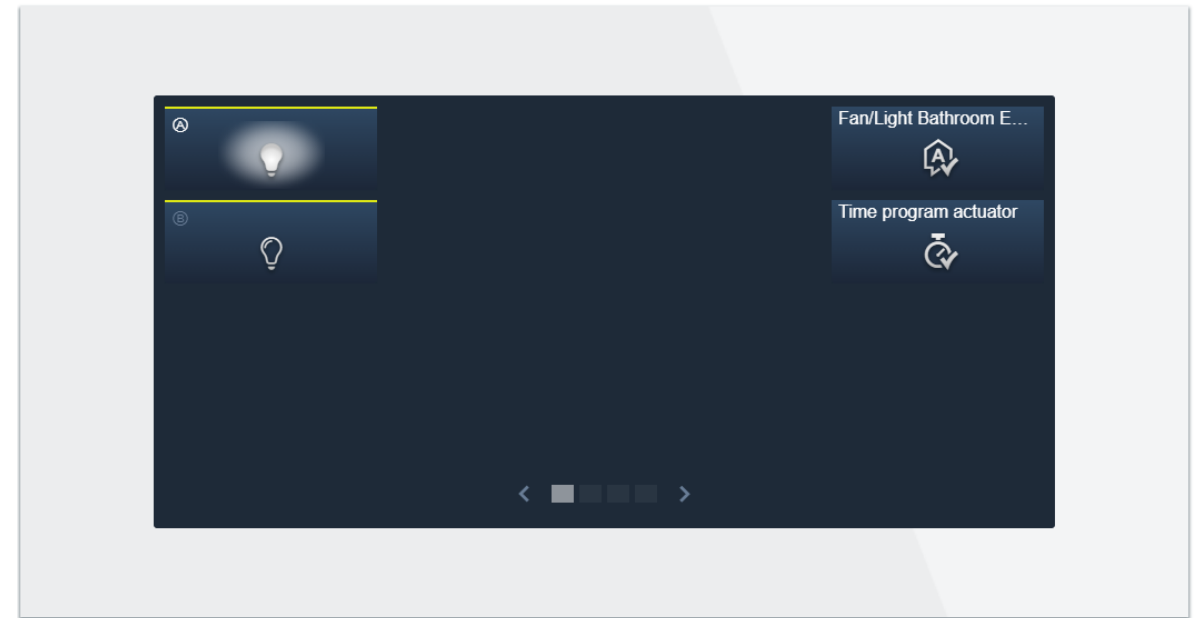
free@homeTouch 7" IP	
Device type	free@homeTouch 7" IP
 ABB-free@homeTouch 4.3" >	 free@homeTouch 7" IP #807A7F02DA91 >
 Binary input, 4gang, MDRC >	
 Blind actuator, 4gang, MDRC >	
 Carbon Monoxide Sensor >	
 Dimming actuator, 4gang >	
 Fan coil actuator, PWM, MDRC >	
 free@homeTouch 7" >	
 free@homeTouch 7" IP >	
 Heating actuator, 6gang, MDRC >	
 Media Player >	
 Smoke/Heat Detector >	
 Split Unit Gateway >	
 Switch actuator, 4gang, 16 A, MDRC >	

# Webinar ABB IP touch 7"/10"

ABB-free@home®

## Commissioning

- Panel can be commissioned like any other ABB-free@home® panel
- 4 pages with up to 64 functions available

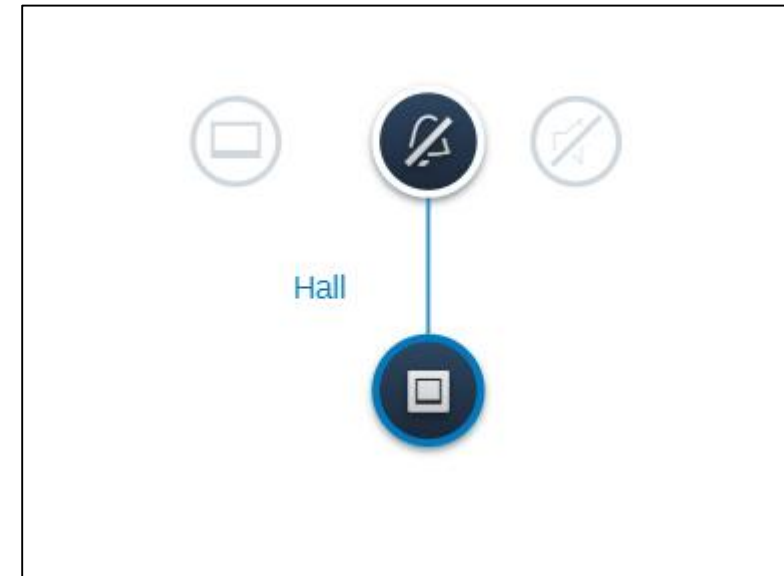


# Webinar ABB IP touch 7"/10"

ABB-free@home®

## Functions in ABB-free@home® - Mute

- Door call be muted and unmuted via free@home
- Sensor for operation via panel (if door call is muted)
- Example: turn off door call in the night

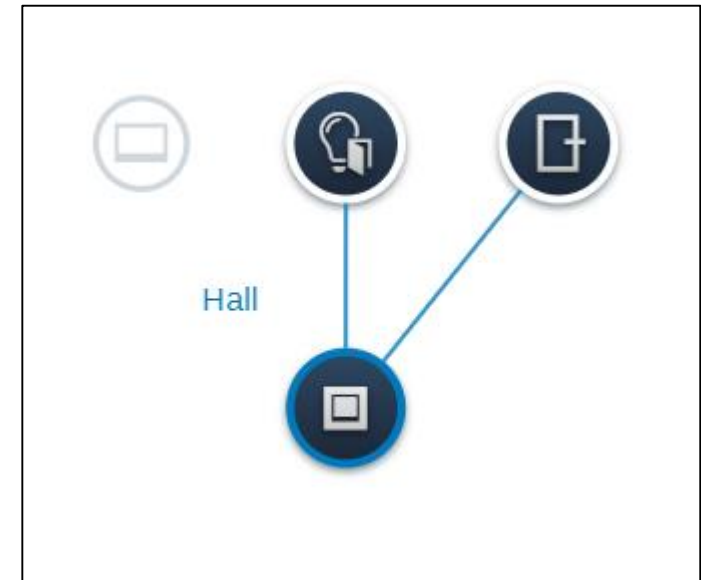


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ABB-free@home®

## Functions in ABB-free@home® – Door opener and corridor light

- Opening the door via free@home sensor
- Corridor light can be controlled also



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## Functions in ABB-free@home® – Level door call

- Local/Level door call via free@home sensor





# Webinar ABB IP touch 7"/10"

## Homepage

[www.abb.com/KNX](http://www.abb.com/KNX)

- Products and Downloads
  - Visualization, Display and Signalling
  - Search Options IP touch
- Product Manual
- Installation and Operating Instructions
- ETS Application
- . . .

**ABB** PRODUCT-DETAILS GLOBAL SITE

You can view this page in: [EN](#) [DE](#) [SV](#) [FI](#) [CS](#) [DA](#) [EL](#) [ES](#) [FR](#) [HU](#) [IT](#) [JA](#) [KO](#) [NL](#) [NO](#) [PL](#) [PT](#) [RU](#) [SK](#) [TR](#) [ZH](#)

### Detailed information for: H8237-4B


This page contains technical data sheet, documents library and links to offering related to this product. [Print...](#)  
If you require any other information, please contact us using form located at the bottom of the page. [Print to Pdf...](#)

[Data Sheet](#) [Downloads](#)

#### H8237-4B


General Information

Extended Product Type:	H8237-4B
Product ID:	2TMA130050B0054
EAN:	6955891815155
Catalog Description:	H8237-4B IP touch 10,DES+KNX+f@h+APP,LAN+WiFi,T-loop,Black
Long Description:	ABB Welcome IP touch 10, with cyber security boot & storage, support DES+KNX+f@h+APP, LAN + WiFi, DC&PoE, with T-loop, end strip, SM&FM, black



#### Categories

Products » Low Voltage Products and Systems » Home and Building Automation » Door Entry Systems » Welcome IP » Video Indoor Stations



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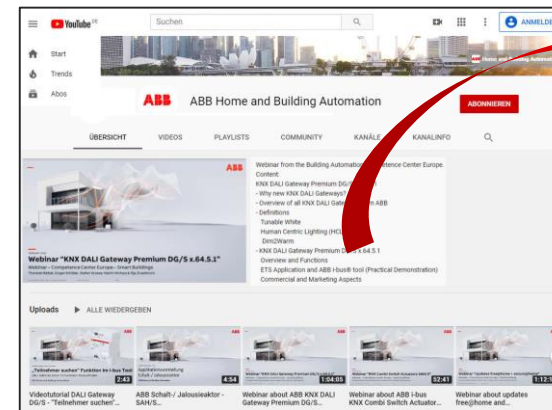
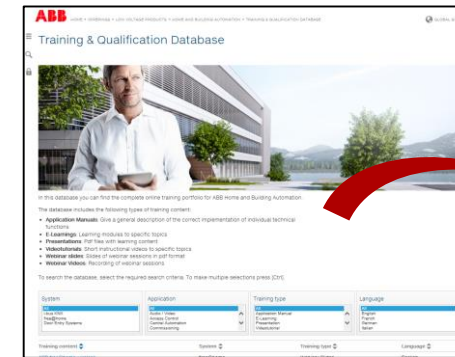
## Training Material

### Training & Qualification Database

- The database contains extensive training content
  - Presentations
  - Video tutorials
  - Webinar slides and videos
  - and more ...
- <https://go.abb/ba-training>
- [www.abb.com/knx](http://www.abb.com/knx) (→ Services & Tools → Training and Qualification → Training Database)

### YouTube

- Channel “ABB Home and Building Automation”
  - <https://www.youtube.com/user/ABBibusKNX>



# Webinar ABB IP touch 7"/10"

## 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

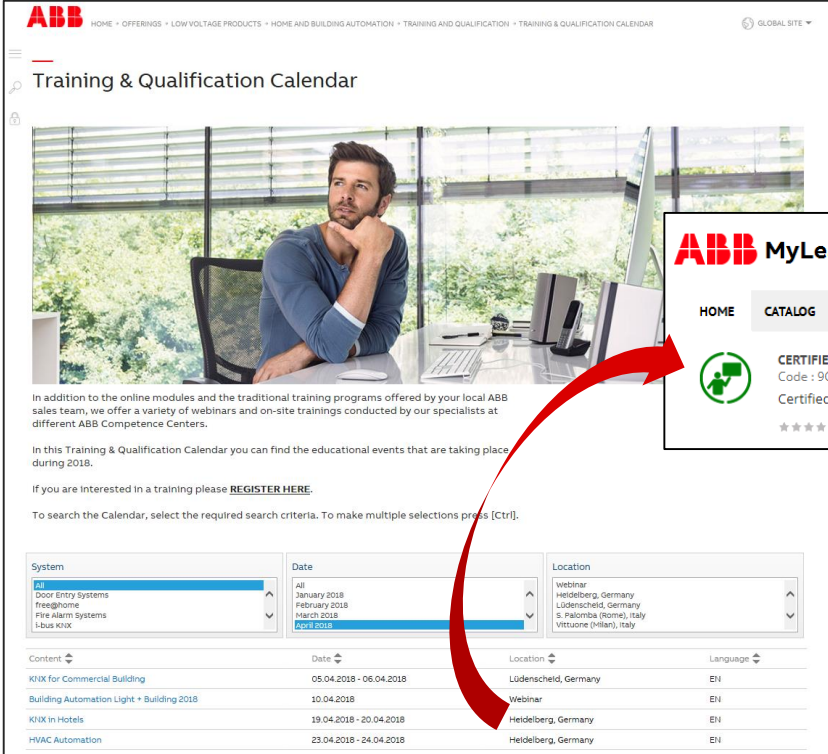
If you are interested in a training please click the training und you will be forwarded to register in "ABB MyLearning"

[www.abb.com/knx](http://www.abb.com/knx) or <https://go.abb/ba-training>

→ Services & Tools

→ Training and Qualification

→ Training Calendar



System	Date	Location
ABB	All	Webinar:
Door Entry Systems	January 2018	Heidelberg, Germany
Fire Alarm Systems	February 2018	Lödenscheid, Germany
I-bus KNX	March 2018	S. Pajombia (Rome), Italy
	April 2018	Vittuone (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

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