

HEIDELBERG, SEPTEMBER 2022

ABB SmartTouch® 10"

Webinar - Building Academy Smart Buildings

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Webinar

Agenda

Introduction and Overview

Mounting and Installation

Programming KNX

KNX Control Elements

Operation

Programming ABB-free@home®

Programming ABB-Welcome

Commercial Aspects

Introduction and Overview

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Motivation

Since 2014 we have been successfully selling touch panels for ABB-free@home in combination with our Door Entry System ABB-Welcome, and ABB i-bus® KNX as well with ABB-Welcome

There is a demand for mounted but better panels with more functionality and operating comfort as well as modern design

The result is our new ABB SmartTouch® 10" which integrates our three main solutions in ABB's Home and Building Automation, with sophisticated design and hardware, powerful software both for integrators to program and for end users to operate and adapt it, to achieve a state-of-the art product which satisfies finally all stakeholders









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Target

- Increase sales of panels by delivering the right look, material and functionality for the right price
- Decrease the number of different panels
- Create one look and feel with one User Interface and User experience concept for all panels in the family and for the different systems KNX and free@home
- High-end product with real material like glass, aluminum or stainless steel in four trendy colors: stainless, graphite, gold and rose gold
- Good and clear view with a 10-inch highquality IPS HD Display
- KNX, Welcome and free@home in one panel







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Sophisticated design (white or black glass) for residential applications but also commercial buildings like hotels





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ABB SmartTouch[®] 10" aligns perfectly with our new design language for hardware and software like ABB RoomTouch[®]



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Features...

ABB SmartTouch® 10" presents a high-end touch panel that combines smart home automation and door communication in one device for residential applications, hotels, and commercial buildings

The slim stylish design features a 10" IPS screen, 1280 x 800 pixel resolution, white or black glossy glass and with a viewing angle of 75° in all directions, display mode as dark or light theme adjustable, all for optimal control at a glance

Only 14 mm from the wall and available in 4 sophisticated frame colors to enhance any interior design scheme

ARCHITECTUR

Price winning design:







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Features...

The high-quality capacitive display can be operated intuitively at the touch of a finger and with swipe gestures

This allows you to switch and dim the light, control the blinds and regulate the heating in the entire building

Complete scenes can also be created from all these functions

...and many more features...



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Features...

- Twisted pair connections for ABB i-bus KNX[®] or alternatively ABB-free@home[®] plus ABB-Welcome (twisted pair)
 - KNX
 - free@home
 - Welcome
 - KNX + Welcome
 - free@home + Welcome
- Built-in IP Gateway for connecting the Welcome APP to the device
- IP camera implementation
- Induction loop for hearing aid
- Online weather data display, can also be used as a screensaver
- Haptic feedback during operation
- Various solutions for flush or wall mounting, also easily possible to replace former touch panels



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One device for three systems

- ABB SmartTouch[®] 10" offers home control of ABB-free@home[®], or ABB i-bus[®] KNX system and the fully integrated functions of ABB-Welcome in one device
- In addition to a direct ABB i-bus[®] KNX or ABBfree@home[®] connection, the panel also has a direct two-wire connection for ABB-Welcome
- No need for an additional indoor station for ABB-Welcome, door calls can now be simply received via the ABB SmartTouch[®] 10", or via the matching App
- Creating a whole new dimension of home control - with maximum convenience, security and energy efficiency







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Main technical data

- Display screen with capacitive IPS display, 10" (25,4 cm), ratio 16:9
- Display resolution 1280 x 800 (HD)
- View angle Horizontal and vertical 75°
- Max. brightness: +/- 240cd/m² (adjustable)
- SD card slot for screensaver, video memory, back-up and own sounds (ringtone) and optional application download (KNX)
- Rating voltage 24 V --
- Power supply 20-32 V --
- Standby current 24 V ---, 60 mA
- Rating current 24 V -, 500 mA
- Power consumption < 12 W (Standby < 1,5W)

<u>Please note:</u> Supply either via external power supply or ABB-Welcome system controller



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Connection to Building and Home Automation

ABB-free@home®

- One page with 18 control elements (Twisted pair connection)
- More pages accessible via Wi-Fi connection, same amount of control and features as the ABB-free@home® App

ABB i-bus® KNX

- Commissioning is done with the ETS and same type of DCA like IPTouch 7 – 10 and RoomTouch
- 450 control elements are displayed on a maximum of 25 pages
- Pages with favourites, central and individual control for lights, blinds and temperature, time programs, notification and weather
- 20 Time programs can be programmed via DCA in ETS and in addition 20 by the user
- Logic functions, presence simulation, scene control and internal Room Temperature Controller and more







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ABB SmartTouch 10" – terminals, connections and more

No.	Function
1	*Outdoor station address Adjust the rotary switch to set the address of the default outdoor station. *Indoor station address Adjust the rotary switches and the dip switches to set the
2	address of the indoor station. Rotary switch X10 sets tens digits, rotary switch X1 sets unit digits, dip switches X100 and X200 set hundreds digits.
3	Only one indoor station in each apartment can be set as "Master" (ON=Master).
4	*Terminal resistor In video installations or mixed audio and video installations, the switch must be set as 'RC on' on the last device of the line (ON=RC on).
5	Binary input connector
6	Temperature sensor connector
7	Power input connector/bus connector
8	Connection for the floor call button
9	KNX connector/free@home connector
10	USB connector for firmware upgrade (only for factory use)
11	SD card slot
12	Temperature sensor
13	Microphone
14	Speaker

Overview ABB Panels (ABB i-bus® KNX)

	ABB i-bus® KNX			teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres teres t	
		ABB IP touch 7	ABB IP touch 10	ABB RoomTouch® 5"	ABB SmartTouch® 10"
Ę	Display Size	7"	10''	5"	10"
ttio	Display Resulution	1024 x 600	1280 x 800	1280 x 720	1280 x 800
Ша	Power supply	PoE / 24V	PoE / 24V	24V	20-32 VDC
for	KNX Connection	No	No	Yes	Yes
Ē	IP Connection	LAN/Wi-Fi	LAN/Wi-Fi	No	Wi-Fi
cal	Mounting	FM/SM	FM/SM	FM	FM/SM
ju L	Available Colors	Black/White	Black/White	Black/White	Black/White
sch	Number of pages	8	8	10	25
Ψ	Number of control elements	64	100	30	450
X ions	Switch, Dimmer, RGBW , Value Slider, Blinds, Fan Switch, Scene, Display, RTC Control Frame	yes	yes	yes	yes
KN nct	Split Unit Control	no	no	yes	yes
пц	Page Link	yes	yes	no	yes
	Audio Control	yes	yes	yes	yes
sc	Door Communication	IP	IP	no	2-wire
Other	Fault + Alarm Messages, Scene actuators, presence simulation, time programs, logic functions	yes	yes	yes	yes
f	RTC Internal	5	5	1	3

Overview ABB Panels (ABB-free@home®)

	ABB-free@home®	Mark State Mark State Mark State Mark State Mark State Mark State Mark State Mark State		Normality of the second	
		ABB IP touch 7	ABB IP touch 10	ABB- free@homeTouch 4.3"	ABB SmartTouch 10"
Б	Display Size	7"	10"	4,3"	10"
ati	Display Resulution	1024 x 600	1280 x 800	480 x 854	1280 x 800
E	Power supply	POE / 24V	POE / 24V	240	20-32 VDC
lfo	In Connection			Yes	Yes
	IP Connection Mounting				
ica	Mounting Available Colors	FIM/ SIM Black (White	FM/SM Black (White	FIM Black (White	FIM/ SIM Black /White
L L L	Number of pages				1 (with only TP)
Tec	Number of control elements	64	100	16	18 (with only TP)
h ions	Switch, Dimmer, RGBW , Value Slider, Blinds, Fan Switch, Scene, Display, RTC Control Frame	Partly	Partly	Partly	ALL
nct @	Split Unit Control	no	no	Yes	Yes
пц	Page Link	yes	yes	no	No
	Audio Control	yes	yes	yes	yes
รเ	Door Communication	IP	IP	no	2-wire
Other inctior	Fault + Alarm Messages, Scene actuators, presence simulation, time programs, logic functions	Partly	Partly	Partly	ALL
Ļ	RTC Internal	no	no	1	Yes

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Programming

Programming KNX



- Configuration via DCA SmartTouch in the ETS (like RoomTouch or IP touch)
- Download either via ETS and bus cable or via export of project file (*.pid) from ETS and import with SD card
- Programming button to be activated via system settings in the panel
- Firmware update online or file on SD card

Programming ABB-free@home®



- Connection via bus cable: Programming in software of system access point, one page with 18 control elements
- Connection via Wi-Fi: Amount of Controls like ABB-free@home® App

Programming ABB-Welcome



 Configuration/Addressing via potentiometer and micro switches on the rear of the panel

Mounting and Installation

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One Device - One Size



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Installation

- Typical mounting height is 1,5 m
- Installation flush- or wall mounted
 - Flush-mounted installation box 6136/07 UP-500
 - Wall mounted frame ST/A10.1-811
- After inserting the panel into the frame or box it is fixed by movable slider on the bottom
- Further options:
 - Desk stand 83506-500 together with wall mounted frame
 - Wall mounted frame with standard flush mounted box 3040 or box 6136/UP from former ComfortTouch
- Therefore replacement is easily feasible, even as flush-mounted box is the same as also for the former SmartTouch









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- Configuration via DCA SmartTouch in the ETS
- DCA (Device Configuration App) available on product homepage (abb.com/knx) or KNX App store <u>https://my.knx.org/de/shop/ets-apps</u> free of charge and to be imported into ETS
- In principle the same App as for ABB RoomTouch[®] or IP touch, but a separate one is needed called ABB/BJE DCA SmartTouch 10
- New features
 - 20 Time programs, pre-programmed in ETS
 - More possibilities for RGB(W) and Color temperature
 - VRV control element
 - More predefined display elements for values like energy, voltage, water and more



Overview DCA



Overview DCA



KNX Control Elements

Superior Functions of DCA in ETS - Import

Import building structure	🗲 Import 🏓 Export 🐻 Preview 👩 F	leset Layout 🗙 Clear all 🦨 Repair 🙆 Visib	le	
Import sturcture from Terminal file	() Switch 回 Rocker Switch 淡 Dimmer 塗 Din	nmer slider 🔅 RGBW Control 🔳 Blind 👹 RTC Cont	rol frame 🐁 Fan Switch 🖙 Split Unit Co	ntrol 🐵 VRV Control 🖆 Scene 🌾 Value slider 🖷 D
Import project file	Applications Navigation		Parameter	
 Import building structure from ETS project Import structure from Terminal configurator 	 System settings Door communication Inputs Fault and alarm messages Scenes actuator Presence simulation Time programs Logical functions RTC internal 		General Panel language Name of Dashboard page Send cyclic 'in operation' [min] Fractional separator Thousands separator Time and date	English Dashboard (Mainpage) 30 Comma Point Comma Point
- Import project file (.stpl) from another SmartTouch	Favourite controls		Time format Date format Send / receive time and date ① The time and date can only be re	 12h ● 24h DD-MM-YY ▼ Only receive ▼ eceived if the panel is NOT connected to the interne

KNX Control Elements

Superior Functions of DCA in ETS - Export

	📭 Import 📄 Export 🐻 Preview 👩 Reset Layout 🗙 Clear all 🦨 Repair 🙆 Vis	ible	
Export image to pid file	🕛 Switch 回 Rocker Switch 谈 Dimmer 逸 Dimmer slider 滲 RGBW Control 🗏 Blind 🞍 RTC Co	ntrol frame 🛛 Fan Switch 🖙 Split Unit Contro	I 🕭 VRV Control 🖆 Scene 🌣 Value slider 👜 D
Export to project file	Applications Navigation	Parameter	
 export to project file .pid-file: to import configuration via SD-card .stpl-file: to create back- up of the configuration 	Applications Navigation System settings Door communication Door communication Inputs Fault and alarm messages Scenes actuator Presence simulation Time programs Logical functions RTC internal Favourite controls Favourite controls	General Panel language Name of Dashboard page Send cyclic 'in operation' [min] Fractional separator Thousands separator Time and date Time format Date format Send / receive time and date	English Dashboard (Mainpage) 30 Comma Point Comma Point 12h 24h DD-MM-YY Only receive
		The time and date can only be received.	ed if the panel is NOT connected to the interne

KNX Control Elements

Superior Functions of DCA in ETS - Preview

				🖛 Import 🛤 Export 🕠 Preview 🎦	Reset Layout 💢 Clear all 🦨 Repair 🛽 🔕 Visil
Smartfouch IU_uL_preview Overview Page 1	16:49 Tu 30-08-2022	ì 🗵 🕐	× × × × × × × × × × × × × × × × × × × × × × × × × × × × × × × × × × × × × × × × × × × × × × × × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - × - ×	() Switch 回 Rocker Switch 淡 Dimmer 巻 Di	mmer slider - 滲 RGBW Control 🗐 Blind 🞍 RTC Con
Room Category SMART TOUCH - MAIN PAGE ▲ Sauna ▲ Sauna ▲ Living Room ▶ Kitchen ▲ Master Bedroom ➡ Master Bathroom ➡ Junior Bedroom ▶ Ground Floor ↓ Ground Floor ↓ St Floor ↓ Basement	off 🔅	OFF Ö Light Floor Lamp Office	ین: RGBW C Living ro کالل Living room	Application System settings Door communication Inputs Fault and alarm messages Scenes actuator Presence simulation Time programs Logical functions RTC internal Favourite controls	ST/U10.x.1-8xx ABB SmartTouch 10



KNX Control Elements

Superior Functions of DCA in ETS – Reset Layout



ABB SmartTouch[®] 10"

KNX Control Elements

Superior Functions of DCA in ETS – Clear all

🖛 Import 🛤 Export 🐻 Preview 👩 Reset Layout 🗙 Clear all 🦨 Repair 🙆 Visible - Reset (Default 🕛 Switch 🗉 Rocker Switch 🔅 Dimmer 🏂 Dimmer slider 🕸 RGBN Control 🗐 Blind 👹 RTC Control frame 👶 Fan Switch 👾 Split Unit Control 🐵 VRV Control 🗂 Scene 👛 Value slider 🖷 D adjustment) of all functions, pages, Parameter Applications Navigation parameter etc. General System settings English Panel language Door communication Name of Dackboard page Dashboard (Mainpage) Inputs Commissioning Tool \times Fault and alarm messages 30 ation' [min] Scenes actuator 🔘 Comma 🔿 Point 2 Are you sure to set all parameters to default? Presence simulation 🔵 Comma (Point Time programs Logical functions OK. Cancel RTC internal 🔘 24h 12h Time format Favourite controls Date format DD-MM-YY Only receive Send / receive time and date 1 The time and date can only be received if the panel is NOT connected to the interne

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KNX Control Elements

Superior Functions of DCA in ETS – Repair

- If something went	🕪 Import 🛸 Export 🐻 Preview 👩 R	Reset Layout 🗙 Clear all 🕜 Repair 🌶 Visib	le				
wrong, it can be repaired with this button	🕛 Switch 回 Rocker Switch 🔅 Dimmer 🏂 Dimmer slider 👋 RGBW Control 🗐 Blind 👹 RTC Control frame 🕹 Fan Switch 😓 Split Unit Control 🐵 VRV Control 🖆 Scene 🌣 Value slider 👳 D						
	Applications Navigation		Parameter				
	System settings Door communication Inputs Fault and alarm messages		General Panel language Name of Dashboard page	English Dashboard (Mainpage)	•		
	 Scenes actuator Presence simulation Time programs Logical functions RTC internal Favourite controls 		Send cyclic in operation [min] Fractional separator Thousands separator	Comma Point			
		Time and date Time format Date format Send / receive time and date The time and date can only be rec	 12h 24h DD-MM-YY Only receive ceived if the panel is NOT connected to the 	• • interne			

KNX Control Elements

Superior Functions of DCA in ETS – Visible/Invisible

Vicible (Invicible	🝋 Import 🗎 Export 🐻 Preview 👩 Re	eset Layout 🗙 Clear all 🦨 Repair 🌘 Visi	ible		
Turn on or off useful	じ Switch 回 Rocker Switch 淡 Dimmer 塁 Dim	mer slider 🔅 RGBW Control 🔳 Blind 🛛 🐇 RTC Cor	trol frame 🛛 🖧 Fan Switch 🖙 Split Unit Co	ontrol 🛞 VRV Control 🗂 Scene 🌣 Va	lue slider 🖙 D
hints for some	Applications Navigation		Parameter		
parameters	System settings Door communication Inputs Fault and alarm messages		General Panel language Name of Dashboard page Send cyclic 'in operation' [min]	English Dashboard (Mainpage)	•
	 Scenes actuator Presence simulation Time programs Logical functions RTC internal Favourite controls 		Fractional separator Thousands separator	 Comma Point Comma Point 	
			Time and date Time format Date format Send / receive time and date The time and date can only be re	0 12h 0 24h DD-MM-YY Only receive eceived if the panel is NOT connected to	• • the interne

Webinar

- Navigation
 - Many homepages
 - Homepages are directly available, all rooms, floors and categories in a tree structure on any page available
 - Pages for rooms and floors (with rooms)
 - By default category pages for lighting, climate and other functions exist, showing all related functions



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- Navigation
 - Pages can be added, up to 25 pages
 - Cut, copy and paste, delete and rename
 - Page order can be adapted with up and down
 - Overview of the homepages under 'Start pages'





Webinar

- Application / System Settings
 - System Settings with typical adjustments like language, time and date, display, proximity sensor, temperature, screensaver, information starting page, primary function, security (Page PIN codes)
 - Some of these functions can be also adapted directly in the panel by the user in the system settings

plications Navigation	Parameter	
System settings	General	
Door communication	Panel language	English
Inputs	Name of Dashboard page	Dashboard
Fault and alarm messages	Send cyclic 'in operation' [min]	30
Message 1	Fractional separator	Comma Point
Message 2	Thousands separator	Comma O Point
Message 3	Time and date	
Scenes actuator	Time format	12h 24h
Actuator 1	Time Iomat	2411
Actuator 2	Date format	DD-MM-YY
Presence simulation	Send / receive time and date	No send and no receive
Time programs	Automatic summer/winter changeover	\checkmark
Time program 1	Starting day of week	Monday
Lime program 2	Lat. [dd.dd][North, - = South]	49.62
Time program 2	Long. [ddd.dd][East, - = West]	8.11

Webinar

- Application / Door
 Communication
 - Enabling of door communication Welcome or Welcome M

() Switch 回 Rocker Switch 淡 Dimmer 整 Dimmer	er slider 滲 RGBW Control 圈 Blind 👹 RTC Contr	ol frame 🐣 Fan Switch 📼 Split Unit Control		
AND LODD AND AND CONTROL IN PADE LINK ACJ WEICC	ome Control		🛞 VRV Control 📋 Sc	ene 🦈 Value slider
Applications Navigation		Parameter		
System settings Door communication Inputs Fault and alarm messages Message 1 Message 2 Message 3 Scenes actuator Actuator 1 Actuator 1 Actuator 2 Presence simulation Time programs Time program 1 Time program 2 Time program 3 Time program 4 Logical functions Channel 1 Channel 2	× Delete Copy Paste	General Use door communication Which door communication system Page PIN-protected Use control elements The connection to one of the control in the settings of the panel	Welcome	Velcome M

Webinar

- Application / Door
 Communication
 - Enabling of door communication Welcome or Welcome M
 - Direct control of up to 5 KNX functions from the Welcome screen on SmartTouch

📭 Import 🛤 Export 🐻 Preview 👩 P	Reset Layout 🗙 Clear all 🦨 Repair 🖉 N	/isible	Version: 1.1.54.0			
🕛 Switch 回 Rocker Switch 淡 Dimmer 逸 Dimmer slider 滲 RGBW Control 🗐 Blind 🞍 RTC Control frame & Fan Switch 👾 Split Unit Control ④ VRV Control 🗂 Scene 心 Value slider 興 Display 🗇 Audio control 🖆 Page Link ぬ Welcome Control						
Applications Navigation		Parameter				
 System settings Door communication Inputs Fault and alarm messages Message 1 Message 2 Message 3 		General Use door communication Which door communication system Page PIN-protected Use control elements The connection to one of the contr in the settings of the panel	Welcome Welcome M			
Scenes actuator Actuator 1 Actuator 2 Presence simulation Time programs		How many control elements Type of control element 1 Name of control element 1	2 switch Presence			
Time program 1 Time program 2 Time program 3 Time program 4		Icon for control element 1 Type of control element 2 Name of control element 2 Icon for control element 2	8 bit scene Velcome Scene			
Logical functions Channel 1 Channel 2	X Delete Copy 📋 Paste	Value for control element 1 Value for control element 2	O off ○ on 3 ÷			
Webinar

- Application / Inputs
 - Enabling and adjustment of binary input and temperature sensor input of the panel
 - Either PT1000 or 6226/T from ABB

📭 Import 📄 Export 🐻 Preview 🕤 Reset Layout 🗙 Clea	all 📌 Repair 🙆 Visible	Version: 1.1.54/
(¹) Switch 回 Rocker Switch 淡 Dimmer 초 Dimmer slider 滲 RGBW Cor 굗 Display 데 Audio control 岱 Page Link & Welcome Control	rrol 🗏 Blind 👹 RTC Control frame 👶 Fan Switch 👾 Split Unit Control 🛞 VRV Contro	ol 🖆 Scene 🌣 Value slider
Applications Navigation	Parameter	
System settings	Binary Input	
	Use binary input	
	Object type 1-bit	•
Fault and alarm messages	Reaction on press/close Value 1	-
Message 1	Reaction on release/open Inactive	•
Message 2	Value 1 Off @) On
Message 3	Temperature sensor input	
Scenes actuator	Use temperature sensor input	
Actuator 1	Type of sensor OPT1000	O 6226/T
Actuator 2	The 6226/T is an external sensor provided by ABB/B	usch-Jaeger
Presence simulation		
Time programs	Temperature offset [x0.1 K] 0	÷
Time program 1	Line fault compensation None	•
Time program 2	Filter Inactive	-
Time program 3	Send output value Only on cha	nge 🔻
Time program 4	Output value must change bevor send [x0.1 ° C1	÷
4 Logical functions		

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- Application / Fault and alarm messages
 - Enabling and adjustment of fault and alarm messages
 - Type of message can be alarm (red screen), hint (blue line) and fault (orange line) with different sounds
 - Type of alarm 1 bit or 14 byte with text message
 - Group object to trigger alarm, optional object for acknowledgement or acknowledge by closing the window

🖝 Import 🛤 Export 🐻 Preview 👩 Reset Layout 🗙 Clear all 🖋 Repair	S Visible			Version: 1.1.54.0
()) Switch 回 Rocker Switch 淡 Dimmer 塗 Dimmer slider 巻 RGBW Control 🗐 Blind 👹 RTC	Control frame 🛛 🖧 Fan Switch 🖙 Split Unit Contr	ol 🐵 VRV Control 🖆 Scene 🖄	Value slider 🖙 Display 🗇	Audio control
ビ Page Link や Welcome Control				
Applications Navigation	Parameter			
System settings	Name of message	Message 1		
Door communication	Type of message	Alarm	-	
Fault and alarm messages	Type of the alarm	1 bit 14 byte		
Message 1	Text for alarm message	< Text >		
Message 2	Send 0 at acknowledge	\checkmark		
Message 3	Acoustic alarm signal	\checkmark		
Scenes actuator	Time of the audio signal [min]	1	* *	
Actuator 1 Actuator 2 Process simulation	Repeat alarm as long as it is active			
Time programs Time program 1	Communication Objects			
Time program 2	 ➡ 69: Message 1 - Message 1 [1 bit] - ➡ 71: Message 1 - Acknowledge mess 	input/output age 1 [1 bit] - input/output	Group Addresses	
Time program 3			Group Addresses	

Webinar

- Application / Scene Actuator
 - 1 bit trigger, values with different types sent out
 - 1 Byte telegram with scene number (send and receive)
 - 10 scenes with up to 15 participants

🖝 Import 🛤 Export 🐻 Preview 👩	Reset Layout 🗙 Clear all 🦨 Repa	ir 🙆 Visible			Version: 1.1.54.0
() Switch 回 Rocker Switch ፨ Dimmer 巻 Di	mmer slider 溥 RGBW Control 🔳 Blind ↓	🖁 RTC Control frame 🐁 Fan Switch 🖙 Split Unit Co	ontrol 🛞 VRV Control 🗂 Scene 🌣	Value slider 🖙 Display	데 Audio control 단 Page Link & Welcome Control
Applications Navigation		Parameter			
System settings	Scenes actuator	Name of scene actuator	Actuator 1		
Door communication		Number of participants	2	*	
Inputs		Number of scenes	1	*	
 Fault and alarm messages 		Overwrite scenes at download			
Message 1		Telegram delay	200ms	•	
Message 2	-				
Message 3		Type of object 1	1 byte value [0100%]	•	
 Scenes actuator 		Type of object 2	1 byte value [0100%]	•	
Actuator 1		Scene 1			
Actuator 2		Name of scene	Welcome		
Presence simulation		Scene number	7	*	
Time programs		Scene can be startet with a	1	•	
RTC internal		Scene can be saved	\checkmark		
 Favourite controls 		Object 1 should be shanged			
U Licht Spot Büro (Switch) Template 1		Object 2 should be changed	V		
		Value for abiant 1	100	*	
			100	• •	
		Value for object 2	60	•	
		Communication Objects			
		■2 909: Actuator 1 - Object 1 [send] - output		
		2 910: Actuator 1 - Object 1 (recei	vel - input		
		1 911: Actuator 1 - Object 2 frond	1- outout		Group Addresses
		======================================	1 - output		Group Addresses
		■ ↓ 912: Actuator 1 - Object 2 [recei	vej - input		()
		■2 939: Actuator 1 - Scene number	- input/output		+ Add 🗙 Delete Search 🔎
		■2 940: Actuator 1 - Activate scene	1 - input		
	🗙 Delete 📄 Copy 📋 Pas	ste ■2 941: Actuator 1 - Dim scene 1 -	input		

Webinar

- Application / Presence simulation
 - Recording and replay of telegrams to simulate realistic activities in the building
 - Trigger (record and play) on the panel by the user or via KNX telegram
 - Export
 - 20 functions (1 bit or 1 byte) can be connected

Applications Navigation	Parameter			
System settings	Use presence simulation Function PIN-protected			
Inputs	Enable export	\checkmark		
Fault and alarm messages Message 1	Filename [.CSV]	Presence		
Message 2	Waiting time till activation [min]	2 *		
Message 3	0 = no waiting time			
Scenes actuator Actuator 1	Ohiert type 1	1 bit Value (1 Bute)		
Actuator 2	Object type 1	1 bit Value (1 Byte)		
Presence simulation	Object type 3	I bit Value (1 Byte)		
Logical functions	Object type 4	O 1 bit Value (1 Byte)		
RTC internal	Object type 5	1 bit Value (1 Byte)		
Pravourite controls	Object type 6	1 bit Value (1 Byte)		
	Object type 7	1 bit Value (1 Byte)		
	Object type 8	1 bit Value (1 Byte)		
	Object type 9	1 bit Value (1 Byte)		
	Object type 10	O 1 bit Value (1 Byte)		
	Communication Objects			
	■之 1419: PS - Activation - input/out	put		
	■之 1420: PS - Objekt 1 - input/outpu	ut	Group Addresses	
	■之 1421: PS - Objekt 2 - input/output	ut	Group Addresses	
	■↓ 1422: PS - Objekt 3 - input/outpu	ut		
	■↓ 1423: PS - Objekt 4 - input/outpu	ut	+ Add X Delete Search	
	1424: PS - Objekt 5 - input/output	ut		



Webinar

- Application / Time programs
 - Classical time program as weekly timer with up to 10 switch points
 - Active always, only or not on vacation
 - Vacation period defined in the panel
 - Predefined time programs are changeable by the user, new ones can be defined in the panel

Applications Navigation		Parameter				
 System settings Door communication Inputs Fault and alarm messages Message 1 Message 2 Message 3 Scenes actuator Actuator 1 Actuator 1 Actuator 2 Presence simulation Time program 1 Time program 2 Time program 3 Time program 4 Logical functions 	Time programs	General Name of program Type of program How many switch per When active Time Use End time Day of the week Value Astrofunction Not before Not before time Nof after Not after time	Switch time 1 Always 07:00 All days off on V 07:00 V 10:00	Time program 1 switch 2 Switch time 2 Always 2:30 All days	•	
 RTC internal Favourite controls 		Communication Ob Communicati	jects am 1 - Switch - outpu Büro	t		

Webinar

- Application / Logical functions
 - Logic gate, Multiplier, plexer, Multiplier, Gate, Temperature comparator, State converter (e.g. 1bit → text or 1 byte → 8x1 bit) and time function (staircase light and on/off delay)
 - For logic gate up to 10 inputs



Webinar

- Application / RTC internal
 - Functionality Room temperature control for the room installed, based on internal or external temperature sensor
 - Further two RTC's for other rooms possible with local temperature measurement

		Parameter	
Applications Navigation		Protection Constant Const	
System settings	RTC internal	General	
Door communication		Control function Heating and cooling	
Inputs		Operating mode after reset Comfort 👻	
 Fault and alarm messages 	_	Additional functions/objects	
Message 1		Control heating	
Merrage 2		Control value type (heating) 2-point 1 bit, (Off/On)	
intessage 2		Extended settings	
Message 3		Control cooling	
Scenes actuator		Control value type (cooling) Fan Coil Unit	
Presence simulation		Cooling type	
Time programs		Extended settings	
Logical functions		Combined heating and cooling modes	
		Switchover heating/cooling automatic 👻	
		Operating mode after reset O Cooling O Heating	
Envolutite controls		Output control value heating and cooling 🔷 via 1 object 💿 via 2 objects	
Pravounte controis		Setpoint settings	
		Setpoint heating comfort = setpoint cooling	
		Setpoints for standby and Eco are absolute values	
		Hysteresis for switchover heating/cooling 1	
		Communication Objects	
		■之 1440: RTC1 - Heating control value - Output	
		■ 1442: RTC1 - Cooling control value - Output Group Addresses	
		■ 1444: RTC1 - On/off confirmation (master) - Output Group Addresses	^
		■2 1445: RTC1 - Actual temperature - Output	Ň

Webinar

- Application / Favourite controls
 - Each created function element can be defined as a favourite
 - Right mouse button
 → Add to favourite
 or click on the
 bottom on 'Add to
 favourite'
 - Favourite controls can be used again on other pages with drag and drop



Webinar

Search Group Address

- Option to find where a group address is used
 - ① Right mouse button on group address in group address window, click 'Search'
 - Valid page is shown, by activating the page the function button and finally the group address is detected, green marked
 - 2 Entered group address in the search field detects address in the address list



Webinar

Details System Settings

<u>General</u>

- 19 panel languages
- Dashboard name (max. 2 pages with main function like all on/off, notification, favourites and more)
- Cyclical sending In operation to monitor the device
- Separators

Time and date

- Format
- Send or receive time and date or not
- Summer/winter time changeover
- Starting day of the week
- Latitude and longitude for Astro function and weather forecast



Webinar

Details System Settings

<u>Display</u>

- Normal/reduced control elements
 - Reduced: less text but icon, can be changed by end user in the panel as well
- Color theme dark/light/daylight dependent
- Further display oriented parameter...



Webinar

Details System Settings

<u>Proximity</u>

- When approaching SmartTouch display is turned on
- KNX command can be sent, e.g. to activate room light or scene

<u>Temperature</u>

- Room and/or outside temperature can be shown on top of the screen
- Also used for the internal RTC in the room

Proximity sensor		
Use proximity to switch the display on	✓	
Sensitivity of the proximity function	3	•
1 = nearby 3 = max. distance		
Use 1-bit output object from proximity function		
Enable communication object "Disable Proximity" 1 bit		
Temperature		
Temperature unit	○ °C ○ °F	
Show room temperature	\checkmark	
Show outdoor temperature	✓	
Room/outdoor temperature changeover interval [s]	5	* *
For room temperature sensor use	O Internal sensor ○ External sensor	
Offset for temperature measurement (x 0,1K) [K]	0	* *
Send internal sensor temperature	At change and cyclical	-
Cyclic time for automatic sending of internal sensor temperature [sec]	10	*

Webinar

Details System Settings

Haptic and acoustic feedback

 Operating a function by touching the screen can be accompanied by an acoustic and haptic feedback (vibration)

Screensaver

- Clock (digital/analogue)
- Slide with pictures from the SD card with adjustable parameters like interval time
- Weather data from KNX weather station with selectable values
- Weather data from Internet (with Wi-Fi connection and valid latitude and longitude entered)

Haptic and acoustic feedback	_	
Acoustic signal for button press		
Acoustic signal volume preset [%]	50	÷
Sensitivity of the haptic feedback	Middle	•
Screensaver		
Show screensaver [min]	10	•
Screensaver mode	Weather data	•
Show outdoor temperature	✓	
Show rain		
Show wind speed		
Show brightness		

Webinar

Details System Settings

Information starting page

- Text can be sent to SmartTouch, e.g. to welcome guest in a hotel room
- When SmartTouch wakes up from screensaver mode text will be shown

Primary function

- By touching the screen with 3 fingers a first function can be executed, like switching on the light in the room
- Object type 1 bit, 1 byte, scene and RTC operating mode
- Even action when releasing the touch is possible, e.g. light in the room is only turned on as long as I touch the screen, enough for short observation



Webinar

Details System Settings

Security

- PIN-code with 4-6 digits can be used for each page to protect the page, e.g. security related functions like an alarm system
- 3 levels for normal pages, one more for system settings
- To be enabled at each page individually

Security

Length of PIN-Code	4 digits 👻
PIN-Codes can be changed by end customer	✓
Enable system settings for end customer	Yes With code
Code for system settings [00009999]	0000
PIN-Code Level 1	1111
PIN-Code Level 2	2222
PIN-Code Level 3	3333

KNX Control Elements

KNX Control Elements

Selection of Control Elements in ETS via Drag and Drop with adjustable size



KNX Control Elements

Control Element 'Switch'

'Standard' switch operation

- Toggle, short/long operation or press/release operation, each with two values and different data types
- 1 bit ... 14 byte objects sent to KNX
- Icon for function and status, optional text for status
- Status information via separate status object possible
- Enable/disable
- Press button on top → Adjust time function and define switch as favourite, shown on the dashboard

Parameter

Name of control element	SWITCH
Name of room (Option)	
This roomname is only visible when us	ing "normal" control elements.
Control size	2x2
Function icon	\bigcirc
This function icon is only visible when also determines under which category	using "normal" control elements. And this icon this control element is classified.
Kind of Switch	Short/Long
Long operation after	0.6 s
Short press => Value 1 Long press => Value 2	
Object type Value 1	switch
sent value 1	1
Object type Value 2	1 byte value [0255]
sent value 2 [0255]	100
Status of control (Icon/Text) is controlled by separate object	
Type of Icon	🔘 Icons Text
	0
Icon for switch	\mathcal{Q}



KNX Control Elements

Control Element 'Rocker Switch'

'Enhanced' switch operation

- Rocker with two parts (top/bottom) with individual commands but only one group object
- 1 bit ... 14 byte objects sent to KNX
- Icon for function and status, optional text for status
- Status information via separate status object for each command
- Enable/disable
- Press button on top → Adjust time function and define switch as favourite, shown on the dashboard

Parameter





KNX Control Elements

Control Element 'Dimmer'

- 'Standard' dimmer operation
- Start/Stop, stepwise and value dimming (1 byte)
- Icon for function
- Brightness information in %, via separate status object possible
- Enable/disable
- Press button on top → Adjust time function and define switch as favourite, shown on the dashboard or remove this function from all on/all off
- <u>Operation</u>: short press turns on and off, long press and moving finger up dims up, moving finger down dims down

Parameter



KNX Control Elements

Control Element 'Dimmer Slider'

'Enhanced' dimmer operation

- Value dimming (1 byte)
- Icon for function
- Brightness information in %, via separate status object possible
- Enable/disable
- Press button on top → Adjust time function and define switch as favourite, shown on the dashboard or remove this function from all on/all off
- <u>Operation</u>: like dimmer but with visible slider or click on top, new window appears with slider to dim

Parameter



User Interface



46%

59% Ö

Reduced

Set time

function

Add to

view*

Dimmer slider

19%

KNX Control Elements

Control Element 'RGBW Control'

Color Control e.g. DG/S x.64.5.1

- RGB, RGB+W, RGB+Tunable white, tunable white and HSV adjustable
- RGB
 - 1 byte per color (RGB)or 3 byte object
- RGB+W
 - 1 byte per color (RGBW) or 6 byte object
- RGB+Tunable White
 - 1 byte per color (RGB/CW/WW) or 3 byte
 - CW/WW also via temp/brightness obj.

– HSV

 1 byte each for Hue, Saturation and Value or 6 byte

Parameter

Name of control element	RGBW Control		
Name of room (Option)			
This roomname is only visible when us	ing "normal" control eleme	ents.	
Control size	2x2	•	
Function icon	÷Öʻ:	*	
• This function icon is only visible when also determines under which category	using "normal" control eler this control element is cla	ments. And this ico ssified.	
Show value in Control	~		
Type of Color/White lamp	RGB+Tunable white	•	
Controlling White via	Objects warm/cold	Objects temper	ature/brightness
Object Temperature	🔵 DPT 1 byte (DP	PT 7.600 2-byte	
Minimal Color Temperature	2000	*	
Maximum Color Temperature	6500	* *	
Switching On/Off via	🔵 1 object 🔵 2 obj	ects	
Brightness change [%]	1	* *	
Telegram is repeated every [s]	0.5s	•	
Status of control (Icon) is controlled by separate object			
Switched on -> preset value	~		
Switched off -> RGB value 0,0,0	✓		

User Interface RGB



KNX Control Elements

Control Element 'RGBW Control'

Color Control e.g. DG/S x.64.5.1

- RGB, RGB+W, RGB+Tunable white, tunable white and HSV adjustable
- RGB
 - 1 byte per color (RGB)or 3 byte object
- RGB+W
 - 1 byte per color (RGBW) or 6 byte object
- RGB+Tunable White
 - 1 byte per color (RGB/CW/WW) or 3 byte
 - CW/WW also via temp/brightness obj.

– HSV

 1 byte each for Hue, Saturation and Value or 6 byte

Parameter

Name of control element	RGBW Control		
Name of room (Option)			
1 This roomname is only visible when us	ing "normal" control elem	ents.	
Control size	2x2	•	
Function icon	÷ڳ:	*	
• This function icon is only visible when also determines under which category	using "normal" control ele this control element is cla	ments. And this ico ssified.	
Show value in Control	~		
Type of Color/White lamp	RGB+Tunable white	•	
Controlling White via	Objects warm/cold	 Objects temperat 	ture/brightne
Object Temperature	🔵 DPT 1 byte (D	PT 7.600 2-byte	
Minimal Color Temperature	2000	* *	
Maximum Color Temperature	6500	÷	
Switching On/Off via	🔘 1 object 🔵 2 obj	iects	
Brightness change [%]	1	* *	
Telegram is repeated every [s]	0.5s	•	
Status of control (Icon) is controlled by separate object			
Switched on -> preset value	✓		
Switched off -> RGB value 0,0,0	✓		
	_		

User Interface White



Brightness White or CW/WW

KNX Control Elements

Control Element 'RGBW Control'

Color Control e.g. DG/S x.64.5.1

- RGB, RGB+W, RGB+Tunable white, tunable white and HSV adjustable
- RGB
 - 1 byte per color (RGB)or 3 byte object
- RGB+W
 - 1 byte per color (RGBW) or 6 byte object
- RGB+Tunable White
 - 1 byte per color (RGB/CW/WW) or 3 byte
 - CW/WW also via temp/brightness obj.

– HSV

 1 byte each for Hue, Saturation and Value or 6 byte

Parameter

Name of control element	RGBW Control		
Name of room (Option)			
This roomname is only visible when us	ing "normal" control elements.		
Control size	2x2	•	
Function icon	ېږ: ۲	-	
• This function icon is only visible when also determines under which category	using "normal" control elements. And this this control element is classified.	ico	
Show value in Control			
Type of Color/White lamp	RGB+Tunable white	-	
Controlling White via	🔵 Objects warm/cold (Objects t	emperature/br	rightne:
Object Temperature	🔵 DPT 1 byte (DPT 7.600 2-byte	•	
Minimal Color Temperature	2000	÷	
Maximum Color Temperature	6500	÷	
Switching On/Off via	1 object 2 objects		
Brightness change [%]	1	*	
Telegram is repeated every [s]	0.5s	•	
Status of control (Icon) is controlled by separate object			
Switched on -> preset value	✓		
Switched off -> RGB value 0,0,0	✓		

User Interface White



KNX Control Elements

Control Element 'Blind'

Blind Control

- Function icon and icons for up and down
- With/without slat adjustment
- Different animation buttons for hanging position
- Enable/disable

Parameter

Name of control element	Blind
Name of room (Option)	Office 12
1 This roomname is only visible when using	ng "normal" control elements.
Control size	2x2 🔹
Function icon	-
This function icon is only visible when u also determines under which category t	sing "normal" control elements. And this icor this control element is classified.
Use 1 byte positioning	✓
Type of icons	Shutter Animation 🔹
Type of control	With Slat adjustment Without Slat adjustme
Position for Slat Up icon	🔵 Left (Right
lcon for Up / Open	CII.
Icon for Down / Close	<i>4</i> /
Telegram "Slat adjustment" is repeated every	0.4 s 👻
Status of control (Icon) is controlled by separate object	
Feedback type	1 byte [0100%]
recubler type	
Show value in Control	✓



KNX Control Elements

Control Element 'RTC Control'

RTC Control frame

- Pure operating element
- Controller to be parametrized separately as RTC internal in DCA
- Connection of known group addresses from Master (RTC internal) to slave (RTC Control)

Parameter





KNX Control Elements

Control Element 'Fan Switch'

Fan Speed Control

- Up to 8 fan stages
- 1 byte object 0...8 or individual
- Individual 1 bit objects with different switch patterns (1 of n), x of n, gray-code)
- Disable OFF control (fan minimum in lowest level)
- Enable/disable
- Status information with individual text
- Icon for function and on/off
- <u>Operation</u>: short press turns on 1st stage, long press with sliding finger up and down allows to select the level. Short press again activates it

Parameter



KNX Control Elements

Control Element 'Split Unit Control'

Split Unit Control

- Minimum/Maximum setpoint
- Number of fan levels
- Enabling of different modes like cooling and operating modes like scene to access the related group objects
- <u>Suitable actuator</u>: ABB Split unit gateway
 SUG/U 1.1

Parameter



User Interface





KNX Control Elements

Control Element 'VRV Control'

VRV Control

- Minimum/Maximum setpoint
- Number of fan levels (1 byte)
- Enabling of different modes with allocation of 1 byte values
- Function icon
- Enable/disable
- <u>Suitable actuator</u>: KNX Gateway to VRV Control

Parameter

Name of control element	VRV CONTROL	
Name of room (Option)	Meeting Room Challenge	
Control size	2x2	•
Function icon	٨	
Operating mode		
Value [1-byte 0255] for Heating mode	1	\$
Value [1-byte 0255] for Cooling mode	2	;
Use Fan Only mode		
Use Dehumidification mode		
Use Auto mode	✓	
Value [1-byte 0255] for Auto mode	5	;
Fan		
Fan speed levels	3	
Value [1-byte 0255] for Fan Speed 1	1	;
Value [1-byte 0255] for Fan Speed 2	2	
Value [1-byte 0255] for Fan Speed 3	3	;
Use Auto Fan Speed	✓	
Value [1-byte 0255] for Auto Fan Speed	6	;
Setpoints		
Stepsize	1.0 °C	•
Max. setpoint [°C]	30	
Min. setpoint [°C]	10	
Fault display		
Use VRV Temperature sensor Fault Display [1 bit]		
Use VRV Fault Display [1-byte]		

User Interface





KNX Control Elements

Control Element 'Scene'

Scene Control

- 1 byte scene
- Up to 10 scenes
- Store scene by long press
- Function icon
- Enable/disable
- Long press with sliding finger up and down allows to select the scene
- Background picture of scene icon adjustable by end user

Parameter

Name of control element	SCENE	
Name of room (Option)	Living Room	
Control size	2x2	•
Function icon	б	-
Background of scene	🔵 icon 🧿 picture	
Start the scene as it is selected	✓	
Long operation after	0.6 s	•
Status of control (Icon) is controlled I separate object	by	
Number of scenes [110]	2	*
Scene number 1 [164]	1	* *
Name of scene 1	Dining	
Background for scene 1	Afternoon	•
Store scene 1 by long press	✓	
Scene number 2 [164]	2	÷
Name of scene 2	TV	
Background for scene 2	TV	•
Store scene 2 by long press	✓	
Funkle communication which (Dirach		

User Interface



KNX Control Elements

Control Element 'Value Slider'

Value Slider

- 1/2/4 byte values
- Unsigned, signed, floating (2/4 byte), 0-100% (1 byte)
- Assignment of min/max object value to min/max display value
- Function icon
- Enable/disable
- Long press with sliding finger up and down allows to change the value
- Group object is in- and output, can be also used for indication only

Parameter





KNX Control Elements

Control Element 'Display' User Interface Parameter Value Slider 27.6 °C Reduced Status display 1 bit/1 byte with text view* assignment Function Display - Value display (1/2/4/14 byte) with gauge Name of control element DISPLAY icon Outside Temperature - Various weather values, electrical values, Name of room (Option) Name 2x2 Display Control size gas, water and flow available Ö Outside Temperature Function icon - Assignment of min/max object value to min/max display value Type of Display element Temperature - Function icon ● °C ● °F Unit Add to - Enable/disable favourite Enable communication object "Disable" 1 bit

KNX Control Elements

Control Element 'Audio Control'

Audio Control

- Up to 8 audio sources selectable
- Audio commands like play, stop, forward mute, volume, …
- Data point types either 1 bit or 1 byte
- Function icon
- Enable/disable
- Used in combination with KNX audio actuator

Parameter

Name of control element	AUDIO CONTROL	
Name of room (Option)	Living room	
Control size	2x2	*
Function icon	⊲ »	•
Number of sources	2	* *
Source 1 name	CD Player	
Source 1 type	🔵 1 bit (1 byte value [0255]	
Source 1 value	0	*
Source 2 name	TV	
Source 2 type	🔵 1 bit (1 byte value [0255]	
Source 2 value	1	÷
Object type play/pause control	● 1 bit ○ 1 byte value [0255]	
Value for play	🔵 0 🔘 1	
Value for pause	● 0 ○ 1	
Use skip forward/backward control		
Object type skip forward/backward control	🔵 1 bit (1 byte value [0255]	
Value for skip forward	1	*
Value for skip backward	0	* *
Use mute control	✓	
Object type mute control	1 bit 1 byte value [0255]	
Value for mute	🔾 0 🔘 1	
Value for unmute	0 0 1	

User Interface





KNX Control Elements

Control Element 'Page Link' User Interface Parameter Page Link Reduced - Button to jump to a further page view* Function • Homepage(s) icon • Dashboard(s): Favourite functions Name of control element PAGE LINK 🗹 Page Link Page name • Room- or floor pages Page Link Name of room (Option) 2x2 • System Settings Control size ď Function icon • Time programs Door communication Linked to page Homepage Add to • Fault and alarm messages Enable communication object "Disable" 1 bit favourite $(\cap$ *Reduced or normal icon view, adjustable in ETS or by user under System Settings

KNX Control Elements

Control Element 'Welcome Control'

Welcome Control

- Access to
 - Outdoor station
 - Analogue camera
 - IP camera
- Trigger object, e.g. to show video from outdoor camera in case of presence of person (via KNX motion sensor)

Name of control element WELCOME CONTROL Name of room (Option) Main entrance 2x2 Control size 。 Function icon Type of control element Outdoor station -Use trigger object \checkmark Triggered with a 1 -Enable communication object "Disable" 1 bit

Parameter

User Interface



Operation
General Operation

Quick and user friendly access to all pages and functions behind by scrolling the pages





General Operation - Icon

Tap to switch or activate



Swipe up/down to change values



Tap the upper right corner to access additional settings



Webinar

- Main page (Dashboard, max. 2, not adjustable via KNX) with light and blind button for all on/off (light) and all up/down/stop (shutter) plus access to all individual circuits like RTC controls
- Main page displays weather forecast (when connected to myBuildings portal and existing Internet access)
- Notification center for missing calls (ABB welcome) or fault messages (KNX) with Fault (Warning), Hint (Information), Error (Alarm with red window)



Webinar

- Main page (Dashboard, max. 2, not adjustable via KNX) with light and blind button for all on/off (light) and all up/down/stop (shutter) plus access to all individual circuits like RTC controls
- Main page displays weather forecast (when connected to myBuildings portal and existing Internet access)
- Notification center for missing calls (ABB welcome) or fault messages (KNX) with Fault (Warning), Hint (Information), Error (Alarm with red window)
- Main page shows time functions of today and the next two days
- Time programs contain predefined ones from ETS programming (these can be adjusted by the user) or new ones can be created



Webinar

- Main page (Dashboard, max. 2, not adjustable via KNX) with light and blind button for all on/off (light) and all up/down/stop (shutter) plus access to all individual circuits like RTC controls
- Many homepages depending on parametrization in ETS
- Easy scrolling between all dashboard pages and homepages from left to right and vice versa
- On top of the screen page name, date and time, optional in- and outside temperature
- Further buttons to access door entry (outdoor station) operating help, notification and sound adjustments of door bell



Webinar

- Menu
 - <u>Room:</u> Structure parametrized in ETS with rooms, floors and room underneath the floors. Rooms can be selected directly



Webinar

- Menu
 - <u>Room:</u> Structure parametrized in ETS with rooms, floors and room underneath the floors. Rooms can be selected directly
 - <u>Category:</u> Lighting, Shading, Scenes, Security and others depending on categories activated in ETS programming. All related functions parametrized can be found there to be seen and if possible operated directly



Webinar

- Menu
 - <u>Room:</u> Structure parametrized in ETS with rooms, floors and room underneath the floors. Rooms can be selected directly
 - <u>Category:</u> Lighting, Shading, Scenes Security and others depending on categories activated in ETS programming. All related functions parametrized can be found there to be seen and if possible operated directly
 - <u>Icon gear</u>: Access to System Settings with various functions both for the end user and integrator like display, time and date, software update and more
 - <u>Icon clock</u>: Adaption and creation of time functions, presence simulation and vacation period
 - <u>Icon pen</u>: Positioning of favourite controls on the dashboard(s)



Webinar

System Settings

Access to various settings both for the end user and system integrator/Installer

- <u>Display</u>: dark/light theme, proximity sensor, starting page, screensaver
- <u>Sound:</u> Click sound, ringtone, signaling tones, (volume and type)
- <u>Network connections</u>: Wi-Fi connection panel, access myBuildings portal
- <u>Time and date</u>: time server, location (latitude and longitude for weather forecast)
- <u>Access management</u>: Pincode for System, level
 1-3 and page advanced settings
- <u>User settings</u>: Language, decimal and thousands separator
- <u>Video Surveillance</u>: Setting IP cameras

X System Settings		13:20 Mo 04-07-2022 🕼 23.0°C	<u>A</u>	?	Ĵ	⊴ »
System Settings	SETTINGS	SCREENSAVER				
① Display		🐔 Activate display cleaning mode				
석୬ Sound						
ত্তি Network connections		10 	0%			
ව _{ිඩ} Time and date						
≪∂ Access management						
入 User settings		Starting page				
。 か Video Surveillance		Dashboard				
Programmable button		Display mode				
ည် Advanced settings		Color theme V Dark theme				
$ \mathcal{G} $ Software update			×-			
i About						
		Use proximity sensor	ince 3			

Webinar

System Settings

Access to various settings both for the end user and system integrator/Installer

 <u>Programmable button</u>: Definition and positioning of function buttons on Welcome page, Welcome actuator

imes System Settings	13:5	50 Mo 04-	07-2022 🕼 22.1°	°C		2	?	Ĵ	⊲»
System Settings	PROGRAMMABLE BUTTON	DOOR C	OMMUNICATION S	CREEN	ACTUATOR IN W	/ELCOME	APP		
Oisplay									
句》 Sound	Light entrance on			Name Light ent	rance on				
Network connections	♀ Light entrance off								
ම _ස Time and date									
ංන Access management			'	Show	on dashboard				
名 User settings									
ん Video Surveillance									
Programmable button									
දිලී Advanced settings									
${\cal G}$ Software update									
(i) About	+								

Webinar

System Settings

Access to various settings both for the end user and system integrator/Installer

- <u>Programmable button</u>: Definition and positioning of function buttons on Welcome page, Welcome actuator
- <u>Advanced settings</u>:
 - Access via pin code (Default 345678)
 - Indication of individual address (KNX)
 - Activation programming mode and application download from SD card via exported pid file (KNX)
 - Door entry settings like configuration imand export
 - Factory Reset

X System Settings		13:04 Tu 30	-08-2022 ∦ ^{C)} 32.2°C	A	?	Д,	\$
System Settings ④ Display 	DOOR ENTRY	BUILDING AUTOMAT	TION RESET OPTION				
ି Network connections ଅଧି Time and date			① Current physical address: 2.0.59				
∞ Access management 凡 User settings			Program via bus: Activate programming mode 🛛 🔵				
Video Surveillance Programmable button		-	Program via SD card:				
Software update			Read .pid file from SD card				



Webinar

System Settings

Access to various settings for the end user and system integrator

- <u>Software update</u>:
 - Version information
 - Firmware update (Online or SD card)
 - Manual or automatic Panel back-up and load back-up

imes System Settings		13:49 Mo 04-07-2022 👔 22.6°C	2	?	Ļ	⊴ »
System Settings	FIRMWARE UPDATE	PANEL BACK-UP				
• Display		Software version ASI19_V0.99_20220627_PP_IMX6SOLC)			
니》 Sound		MCU version MCU_V1.01_20220617				
ত্তি Network connections		KNX MCU version: KNX_MCU_V1.1.3_161				
ව _{ීම} Time and date						
∞ Access management		Update from internet:				
人 User settings		Check for update Check and downlo	ad automat	ically		
🕁 Video Surveillance						
Programmable button		Update from SD card:				
ඩ්ටු Advanced settings		Read SD card				
${\cal G}$ Software update						
(i) About		Reboot this panel:				
		© Reboot panel				

Webinar

System Settings

Access to various settings for the end user and system integrator

- <u>Software update</u>:
 - Version information
 - Firmware update (Online or SD card)
 - Manual/automatic Panel back-up and load back-up
- <u>About</u>:
 - Wi-Fi address of the panel
 - Welcome in- and outdoor addresses
 - KNX individual address
 - Status of log in to myBuildings portal
 - CPU, MCU and hardware version, export log file to SD card
 - QR code to ABB product site

X System Settings		11:53 Fr 02-09-2022 👔 22.5°C	A	?	Ĵ	\$
System Settings	WIFI WELCOM	E KNX MYBUILDINGS PORTAL COMMON QR COI	DES			
Oisplay						
니》 Sound 				~		
Retwork connections		DES version: MCU V1.01 20220617		0		
ම _ස Time and date		KNX MCU version: KNX_MCU_V1.1.3_164				
≪⊃ Access management		Hardware version: version 2				
名 User settings		Licence agreement Software				
ん Video Surveillance		Licence agreement End User-agreement				
Programmable button		Export log file to SD card				
හි Advanced settings						
${\cal G}$ Software update						
(i) About						

Webinar

- SmartTouch can be registered in my Buildings portal (powered by ABB Ability[™])
 - If not yet existing for other devices (e.g. ControlTouch) setup an account under <u>www.mybuildings.abb.com</u>
 - Login to the portal in the System Settings of SmartTouch under Network connections/ myBuildings portal to your account

X System Settings			15:04 Fr 01-07-2022 👔 🤅	22.5°C	2	?	Ĵ	⊲ »
System Settings	WIFI	WELCOME APP	MYBUILDINGS PORTAL					
් Sound								
ি Network connections			i Logged in as:	trybel				
ூ⊟ Time and date								
			Disconnect from my	/Buildings portal:				
入 User settings								
。								
Programmable button								
ପ୍ରୈ Advanced settings								
♀ Software update								
i About								

Webinar

- SmartTouch can be registered in my Buildings portal (powered by ABB Ability[™])
 - If not yet existing for other devices (e.g. ControlTouch) setup an account under <u>www.mybuildings.abb.com</u>
 - Login to the portal in the System Settings of SmartTouch under Network connections/ myBuildings portal to your account
 - Check under *About/mybuildings portal* successful log in and device ID

X System Settings			15:04	4 Fr 01-07	7-2022 👔 22.6	5°C		A	?	Ĵ	⊲»
System Settings	WIFI	WELCOME	KNX	MYBUILD	DINGS PORTAL	COMMON	QR CODES				
Display											
다 Sound											
Retwork connections			Logir	n status	Logged in						
			Devic	e name	SmartTouch	n 10 panel					
®∰ Time and date			Devic	e ID	cefb5823-84	464-47ad-8	951-5bdca8f	⁻ e53e6			
≪ Access management											
ዲ User settings 											
Hideo Surveillance											
Programmable button											
र्8्रे Advanced settings											
${\cal G}$ Software update											
(i) About											

Webinar

- SmartTouch can be registered in my Buildings portal (powered by ABB Ability[™])
 - If not yet existing for other devices (e.g. ControlTouch) setup an account under www.mybuildings.abb.com
 - Login to the portal in the System Settings of SmartTouch under Network connections/ myBuildings portal to your account
 - Check under *About/mybuildings portal* successful log in and device ID
 - Log in to the portal via browser and find your device including ID and firmware version





Webinar

- SmartTouch can be registered in my Buildings portal (powered by ABB Ability™)
 - If not yet existing for other devices (e.g. ControlTouch) setup an account under www.mybuildings.abb.com
 - Login to the portal in the System Settings of SmartTouch under Network connections/ myBuildings portal to your account
 - Check under *About/mybuildings portal* successful log in and device ID
 - Log in to the portal via browser and find your device including ID and firmware version
 - See missing door calls
 - Enable email notification about passed activities (door calls)



Webinar

ABB myBuildings portal

- Please note:

To see the weather forecast on the upper right side of your main/dashboard pages a connection to the account in the ABB myBuilding portal is required



Programming ABB-free@home®

ABB-free@home®

- SmartTouch 10 must be connected to the free@home twisted pair network
- Connection via bus cable: Programming in the software of the System Access Point, one page with 18 control elements feasible
- To increase the number of features, it can be connected to the same Wi-Fi Network as the ABB-free@home[®] System Access Point
- First connection done by the installer via the twisted pair connection
- End customer can easily connect the device via Wi-Fi



ABB-free@home®

- When the panel starts for the first time, select free@home or free@home + Welcome
- free@home and SmartTouch must be paired via the interface of the panel
- The panel will then appear in the System Access Point of ABBfree@home[®]

SmartTouch 10"	
Select system	
• KNX	
• free@home	
Welcome	
• KNX + Welcome	
• free@home + Welcome	
Restore panel back-up	
Back	Continue

ABB-free@home®

- SmartTouch 10 must be connected to the IP network of the ABB-free@home® System Access Point via Wi-Fi to achieve all functions from the ABB free@home next App
- Click on this network in the list to connect

SmartTouch 10"	
Activate WiFi Connect manually Available networks (2.4G Only)	Connected
Back	Continue

ABB-free@home®

- Automatically the panel will detect the System Access Point on the network
- Choose the one you want to connect to
- After confirmation the complete configuration is now transferred to the SmartTouch panel

\times	System Settings			10:42 Fr 29	-07-2022		?	Ĵ
Syste	em Settings		WIFI N	YBUILDINGS PORTAL				
۲	Display	\wedge	Warning			×		
	Sound							
((0	Network connect							
e E	Time and date		Please select one Sy Panel:	/sAP from the followin	g list to establish a connectic	on with this		
	Access managen		SysAP Serial Number	SysAP IP	SysAP Name			
_ب بر	User settings		ABB700DBEC2A	192.168.178.151	free@home			
, et	Video Surveillanc		ABB700D5B03E	192.168.178.126	System Access Point			
දුරු	Advanced setting							
Ø	Software update							
()	About							

ABB-free@home®

ABB-free@home® integration

 The panel will ask to confirm the installation in the free@home App



ABB-free@home®

- Open the App
- Go to 'See messages'
- Select the one to confirm the connection
- Confirm message 'Device authentification' with "yes"
- The complete configuration is now transferred to the SmartTouch panel



Programming ABB-Welcome

ABB-Welcome

Main functions

- Up to 8 indoor stations (\rightarrow SmartTouch) in one apartment
- Integrated IP gateway
- Apartment to apartment intercom (only Welcome M)
- Intercom in the same apartment (only Welcome M)
- Automatic unlock in case of call
- Integration of IP cameras
- Direct control of max. 5 KNX or free@home actions



ABB-Welcome

Local settings for Welcome

- SmartTouch as indoor station obtains like outdoor stations an address
- The rotary switches and dip switches must be set to the correct address
- The dip switch M/S (Master/Slave) should be set correctly
 - One panel must be master, further panels used as indoor station are slave
- RC-Switch: End of line resistor, for video installation position on



ABB-Welcome

Settings in the panel

System Settings/Video Surveillance

- New IP cameras can be added and administrated, e.g. to monitor the garden or house
- Cameras can be searched automatically or entered manually
- Welcome IP camera and outdoor stations can be named and added to the dashboard as shortcuts
- Define a control element 'Welcome Control' on a KNX page (via DCA in ETS) and connect a camera to this control element (see chapter 'KNX Control Elements')

Oisplay	IP CAMERAS WELCOME CAMERA LIST	
弌》 Sound		
Network connections	🖈 Camera 1	
ව _ස Time and date	🖈 Garden Camera	
≂⊙ Access management	Camera 3	
久 User settings	Outdoor station 1	
🕁 Video Surveillance	B Outdoor station 2 Garden Camera	
0 Intercom list	Visual doorbell	
Program button	Default Outdoor Station Camera Address	
රි Advanced settings	002	
🕽 Software update	Show on dashboard	
i) About	Location V Outdoor area	

ABB SmartTouch[®] 10"

ABB-Welcome

Settings in the panel

System Settings/Programmable button

- Buttons parametrized in DCA under Application/Door communication (up to 5, see chapter KNX control elements/Welcome Control) can be administrated here
 - Show on dashboard
 - Position on the Welcome screen
- Add new programmable button (+ icon) with function unlock, relay, garage or turn on the light
- Furthermore selection of actuator which shall be controlled via Welcome App

∠ system settings	16:17 Th 01-09-202	2 🗈 23.2°C 🖾 🕐	4) <]»	Add_nev	w programmable button
System Settings	PROGRAMMABLE BUTTON DOOR COMMUN	NICATION SCREEN ACTUATOR IN WELCOME APP			
Display					
Sound	儿 Presence	Norme Presence			Type
Network connections	G Welcome Scene	Type v			Unlock
0 Time and date		swich			Name
Access management		Show on dashboard			Unlock
,ද, User settings					Arithmer
🖒 Video Surveillance					PARE25
Programmable button					Chevron dackheard
Advanced settings		/			Show on dashboard
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ACTUATOR IN WELCOME APP

ABB-Welcome

Settings in the panel

System settings/Advanced settings (PIN code) of SmartTouch

- Possibility for some general settings of the available functions in the door communication
 - Surveillance Call (the customer can make contact to the outdoor station)
 - Manual snapshot (the customer can make a snapshot of the camera)

imes System settings	11:17 THU 01.04.2021	
Oisplay	DOOR ENTRY BUILDING AUTOMATION RESET OPTION	
↓》 Sound	Surveillance Call	Automatic snapshots
© Network connections	Manual snapshot Manual video recording	3 sec.
Access management	Edit Camera View Cameramodul 180	
入 User settings	Auto Unlock Copy Snapshot to SD-Card	
。」 Video Surveillance	Delete Image History	Import configuration via SD card:
${\mathbb Q}$ Intercom list	Cdit Cameralist	
Program button	Open assigned Outdoor Station	Export configuration on SD card:
र्छ्उ Advanced settings	Select V	Save file to SD card
${igcup}$ Software update	002	
(i) About	003	
	009	

Commercial Aspects

ABB SmartTouch[®] 10"

Webinar



New



SmartTouch 10" KNX/free@home Price group 26

Advantages

- Only one order code -
- Only one transfer price (for every device)
- Only one device -
- Only one KNX price group -
- Only one design -
- Only one flush mounting box from KNX -(6136/07 UP-500)
- Only one flush mounting frame -
- No separate devices for KNX and free@home!

Webinar

Overview with Order Details

White	ABB		Busch-Jaeger		
Stainless	ST/U10.1.1-811	2TMA310051W0001	ST/U10.1.11-811	2TMA310050W0001	
Graphite	ST/U10.2.1-811	2TMA310051W0002	ST/U10.2.11-811	2TMA310050W0002	
Satin Gold	ST/U10.3.1-811	2TMA310051W0003	ST/U10.3.11-811	2TMA310050W0003	
Rose gold	ST/U10.4.1-811	2TMA310051W0004	ST/U10.4.11-811	2TMA310050W0004	
Black	ABB		Busch-Jaeger		
Stainless	ST/U10.1.1-825	2TMA310051B0001	ST/U10.1.11-825	2TMA310050B0001	
Graphite	ST/U10.2.1-825	2TMA310051B0002	ST/U10.2.11-825	2TMA310050B0002	
Satin Gold	ST/U10.3.1-825	2TMA310051B0003	ST/U10.3.11-825	2TMA310050B0003	



Webinar

Installation Material SmartTouch® 10"

	ABB		Busch-Jaeger	
Flush-mounted box	6136/07 UP-500	2CKA006136A0212	6136/07 UP	2CKA006136A0211
Surface mounted frame White	ST/A10.1-811	2TMA310161W0001	ST/A10.11-811	2TMA310160W0001
Surface mounted frame Black	ST/A10.1-825	2TMA310161B0001	ST/A10.11-825	2TMA310160B0001



6136/07 UP-500

ST/A10.1-811 (white) ST/A10.11-825 (black)

Webinar

Homepage

www.abb.com/KNX

- ightarrow Products and Downloads
 - \rightarrow Visualization, Display and Signalling
 - \rightarrow Search for SmartTouch
- Product Manual
- Installation and Operating Instructions
- ETS Application
- Device Configuration App (DCA)
- • •




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