

KNXperience 2023 - Latest KNX Products and News

ABB RoomTouch® 4"

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Operation and interaction in a smart room

- The way to interact as a user with smart buildings is as various as the functionality of modern and intelligent buildings
 - Conventional push button (with interface to KNX)
 - KNX push button
 - Touch Panel
 - App on Smart phone
 - Visualization on PC
 - Voice Control
- Even a local and mostly used powerful KNX pushbutton is limited
 - Number of operations
 - Showing status, values or text information
 - Missing, unclear or fixed description of the buttons
 - Button assignment flexible, but overall design determinated

















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... at a glance

- Operation of typical room functions like Light, Shutter, Room temperature control or scenes via a touch surface
- Smooth operation by swiping or clicking on the touch screen
- High resolution state of the art colored 4" display
- Fits in a standard installation box
- Easy to commission via DCA in the ETS
- White or black





Impressions - Operation









Impressions - Indication







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ABB RoomTouch® 4" aligns perfectly with ABB's new design language for hardware and software like the other panels



ABB RoomTouch® 4"



ABB RoomTouch® 5" KNX



ABB SmartTouch® 10"



Coming soon...

ABB Trevion® with 2,4" display – like a classical push button with a frame, similar functionality as ABB RoomTouch® 4"







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Main technical data (Hardware)

- Touch screen with IPS display, 4" (10,16 cm), square format
- Display resolution: 480 x 480 pixel
- Max. brightness: +/- 240cd/m²
- External Power supply 20-32 V —
- Rating current 24 V =, 100 mA
- Dimensions (L x W x D): (86mm x 86mm x 11mm)
- SD card slot for firmware update, optional import configuration from ETS, photos for screensaver
- Integrated temperature sensor
- Bus connection: KNX or ABB free@home
- Terminals for a binary input or external temperature sensor input (PT1000 / 6226/T)
- Life cycle: 20,000h with max brightness > 125cd/m²





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Further features

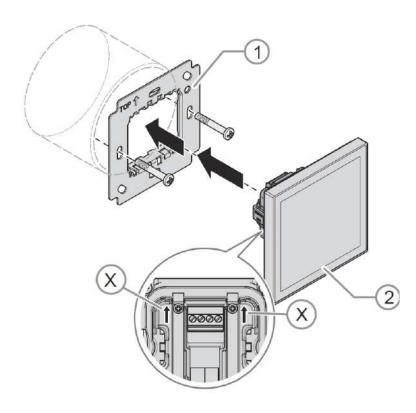
- Monoblock device (integrated Bus coupling unit)
- Glass surface and frame in black or white available
- Integrated proximity sensor
- Integrated brightness sensor
- Haptic feedback
- Global use in VDE and British Standard markets
- ABB and Busch-Jaeger Brand available (depending on market)



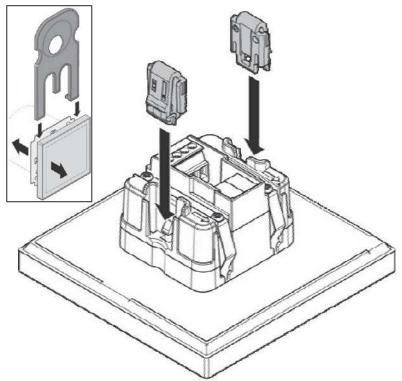


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Installation



Anti theft protection



Installation hints

- Installation in a standard flush mounting box
- Mounting frame (1) (part of delivery)
- Snap ABB RoomTouch 2 on the frame in the right position
 - See arrows up (X) on the rear side
- Option: Anti theft protection clamps
 - Removal via special plastic tool





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Software features

- 12 pages, each 1,2 or 4 functions
 - → easy and fast to operate
- 12 control functions including Room Temperature Control
 - → all room functions in one device
- Additional information page with up to 12 status information
 - → Get important status at a glance
- Integrated adaptable proximity sensor
 - → when approaching wake up the device and send a command
- Primary function
 - → Activate with 3 fingers or more the main room function
- KNX data secure capable
 - → prepared for secured communication on twisted pair cable





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Software features

- 10 logic functions
- 10 weekly timers for RoomTouch functions, adjustable by user
- 4 scene functions (10 different scenes with up to 15 participants)
- 13 different control elements
 - Switch/Rocker switch
 - Dimmer/Dimmer slider
 - RGBW Control
 - Value Slider
 - Blind
 - Fan Switch/Room Temp. Control/Split Unit- and VRV Control
 - Scene
 - Audio Control

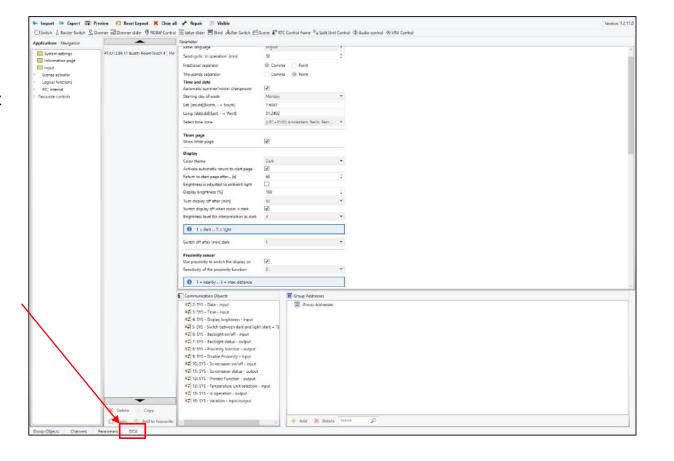




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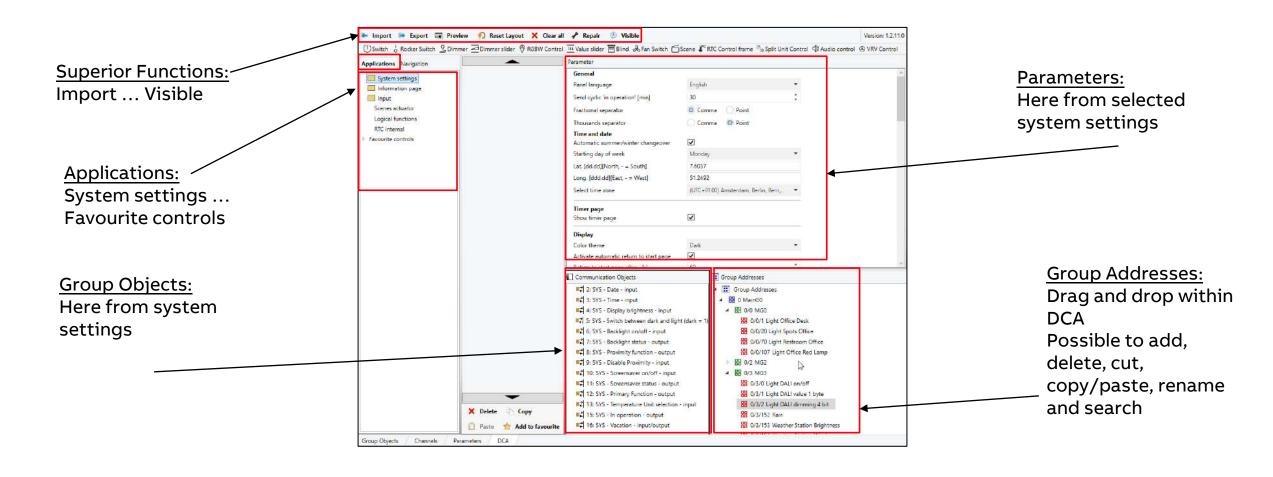
Programming KNX

- Configuration via Touch DCA in the ETS
- DCA (Device Configuration App) available on product homepage (abb.com/knx) or KNX App store https://my.knx.org/de/shop/ets-apps free of charge and to be imported into ETS
- Principle of parametrization and commissioning in the DCA is identical to ABB's RoomTouch® 5" or SmartTouch® 10" with similar functions



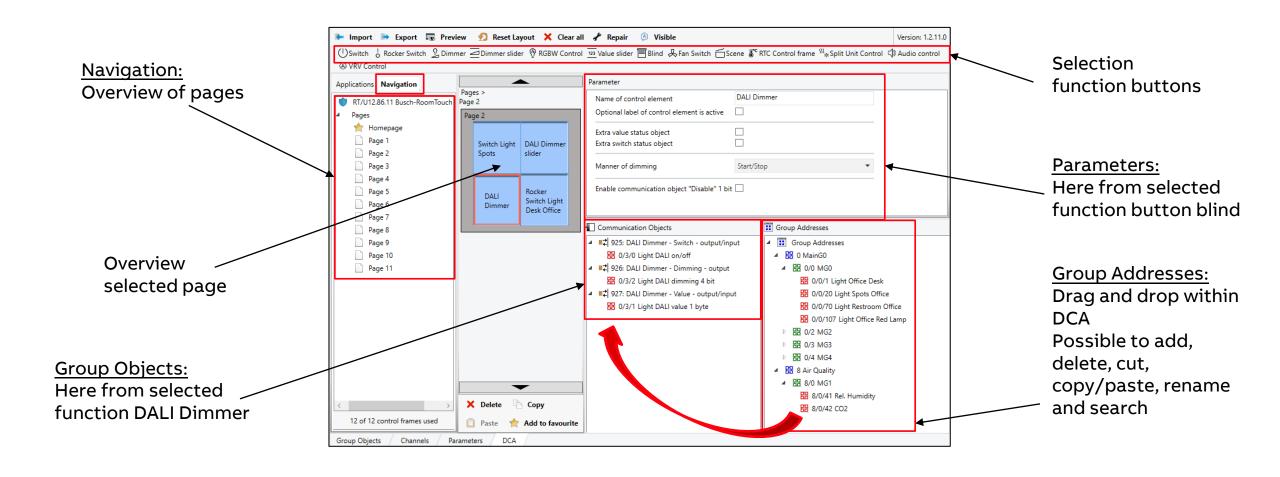


Overview DCA





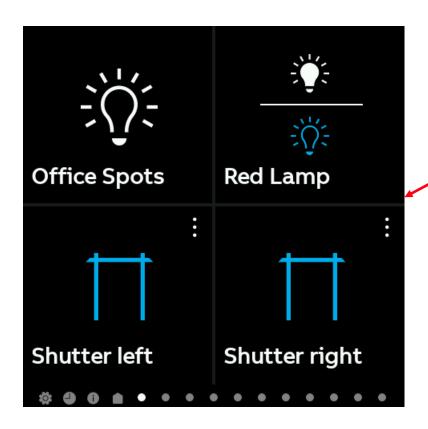
Overview DCA

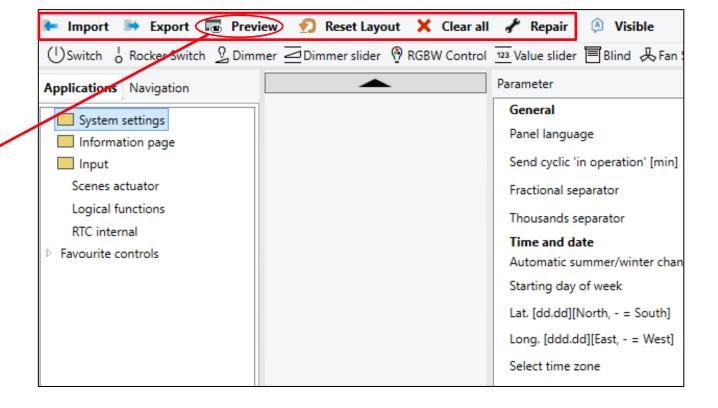




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Superior functions of DCA in ETS - Preview of your configuration in the ETS



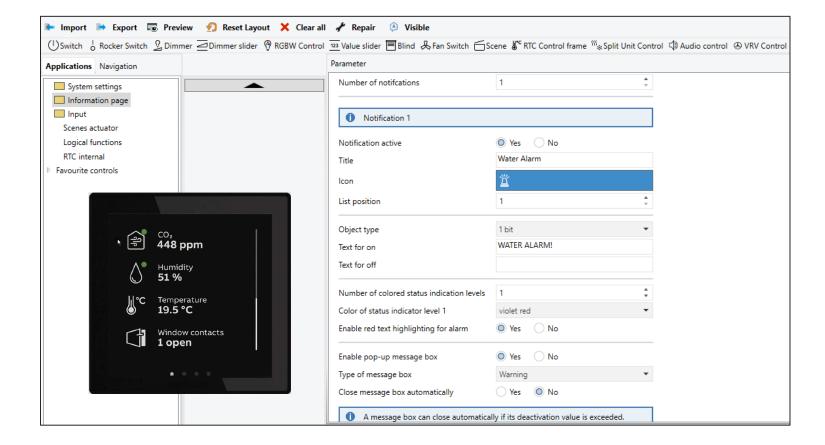




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Programming KNX

- Information Page
 - Up to 12 information, warnings or error
 - Evaluation of values with threshold
 - 1bit...1byte...2byte...4byte...14 byte (Text)
 - Visible on information page
 - Pop up message box possible to inform at once
 - Colored status indication

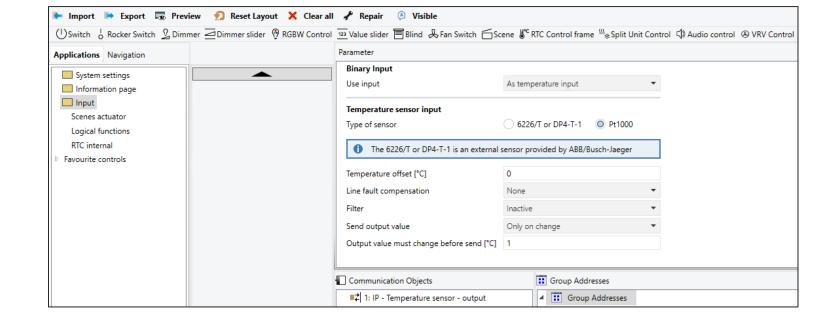




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Programming KNX

- Applications/Input
 - Enabling and adjustment of binary input or temperature sensor input of the panel (Connection terminals at the device)
 - Either any PT1000 sensor or 6226/T from ABB
- Practical application:
 - Window contact of the room
 - Conventional push button
 - Temperature sensor floor (Floor heating)
 - Weighted measurement with 2nd room temperature sensor

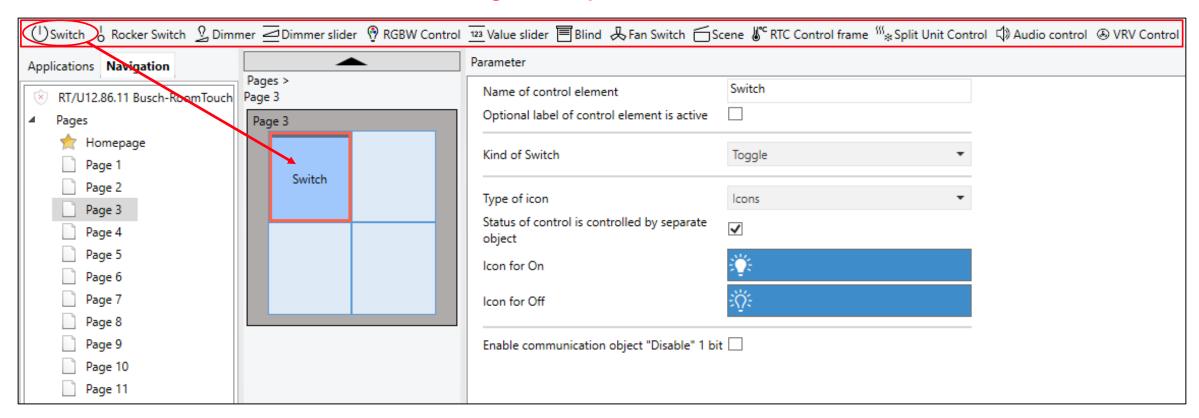






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Selection of KNX control elements in ETS via drag and drop



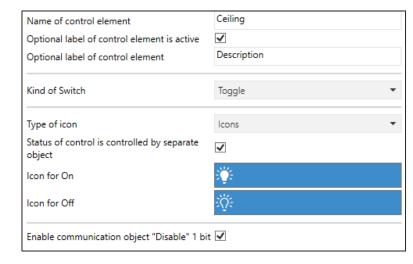


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Control element 'Switch'

- 'Standard' switch operation
 - Toggle, short/long operation or press/release operation, each with two values and different data types
 - Label, e.g. for function description
 - 1 bit sent to KNX
 - Icon or text for function and status
 - Status information via separate status object possible
 - Enable/disable

Parameter



User interface



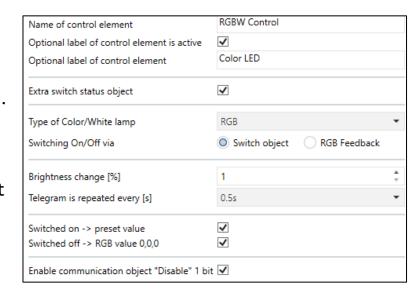


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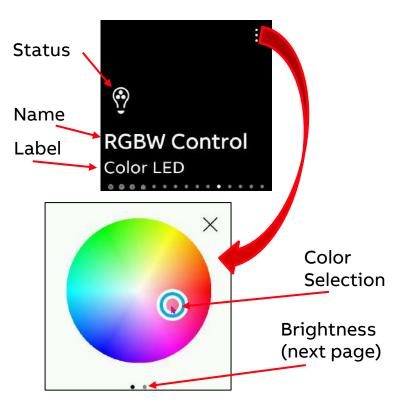
Control element 'RGBW Control'

- Color Control e.g. DG/S x.64.5.1
- RGB
 - 1 byte per color (RGB) or 3 byte obj.
- RGB+W
 - 1 byte per color (RGBW) or 6 byte obj.
- RGB+Tunable White
 - 1 or 3 byte per color (RGB/CW/WW)
 - CW/WW via temp./brightness object
- Tunable white
 - 1 or 2 byte brightness/color temp.
- HSV
 - 1 byte each for Hue, Saturation and Value or 6 byte

Parameter



User interface RGBW





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Control element 'Split Unit Control'

- Split Unit Control
 - Minimum/Maximum setpoint
 - Display of setpoint and room temperature
 - Number of fan levels
 - Enabling of different modes like Cooling and operating modes like Scene to access the related group objects
 - Suitable actuator: ABB Split Unit Gateway SUG/U 1.1

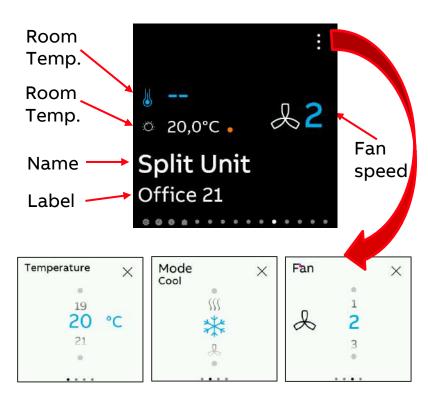
Name of control element Optional label of control element is active Optional label of control element Office 21 Main displayed temperature is Show optional temperature Optional displayed temperature Optional displayed temperature is Setpoint temperature Room temperature Setpoints Minimum Setpoint value 16 Aximum Setpoint value 32 Step size of setpoint adjustment 1.0°C T

Parameter

Number of Fan speeds (without Auto) Operating modes ✓ Use Automatic Mode for Fan **~** Use modus: Automatic ✓ Use modus: Heating **~** Use modus: Cooling **~** Use modus: Drying Use modus: Fan Use horizontal swing Use vertical swing Additional operating modes Use extra mode: Silence Mode Use additional modus: Boost Use additional modus: Forced operation Use additional modus: Scene Use additional modus Window contact Use additional modus Presence

Enable communication object "Disable" 1 bit 🗌

User interface

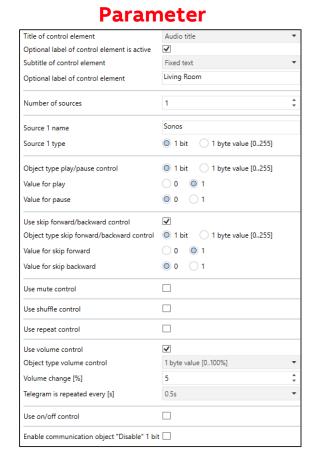


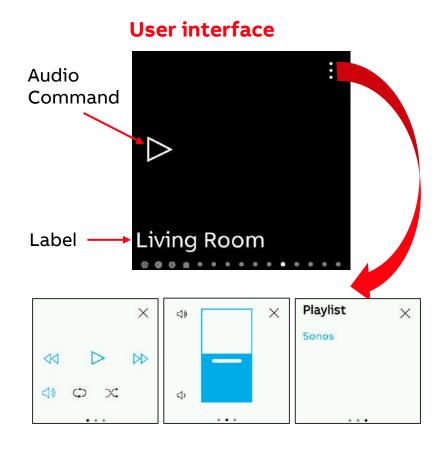


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Control element 'Audio Control'

- 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
 - Enable/disable
 - Used in combination with ABB's ControlTouch linked to Sonos sound system or external KNX audio actuator









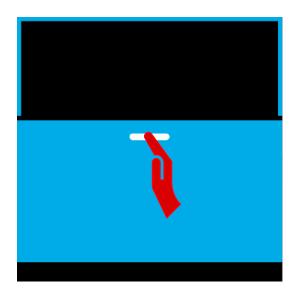
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Tap to switch or activate





Swipe up/down to change values



Tap the upper right corner for further operations

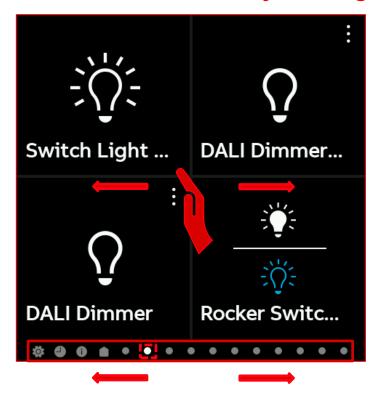






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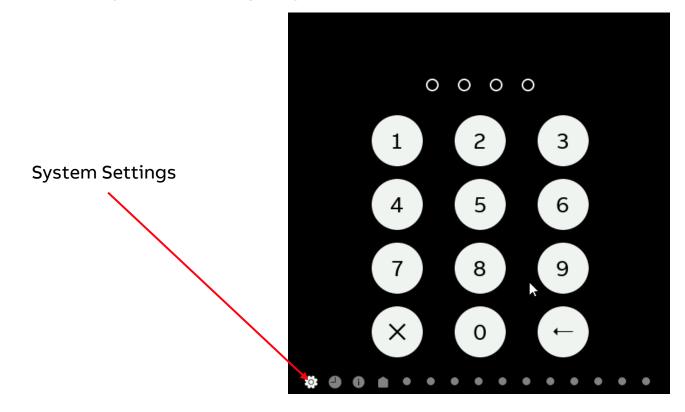
Quick and user friendly access to all pages and functions behind by scrolling the pages to left and right





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Click on gear to enter System Settings. Type in PIN code (when activated in ETS)

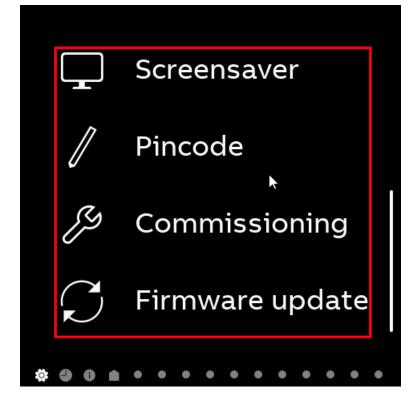




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System Settings: 9 different menu entries to select



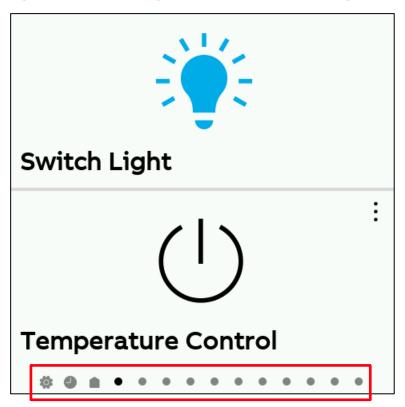


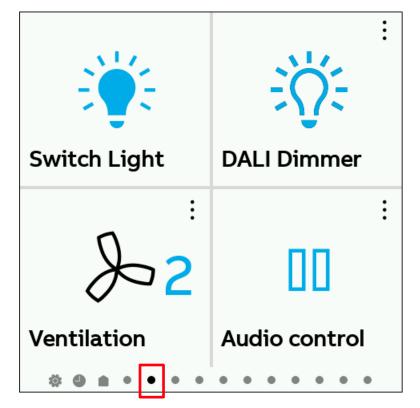




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System settings, information page, time functions, homepage and up to 11 pages









Questions???









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