SIEMENS

July 2010

25 CO Colour Touch-Panel 910201

Use of the application program

Product family: Product type:	Display Display units
Manufacturer:	Siemens
Name:	UP 588/12 Colour Touch Panel UP 588/13 Colour Touch Panel
	(AC 230 V)
Order no.:	5WG1 588-2AB12
	5WG1 588-2AB13
Name:	UP 588/22 Colour Touch Panel
	UP 588/23 Colour Touch Panel
	(AC/DC 24V)
Order no.:	5WG1 588-2AB22
	5WG1 588-2AB23

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Technical manual

1. Functional description

The UP 588 colour touch panel is a multi-functional display/control panel for the KNX-bus. The basis of the equipment is a high-quality 320 x 240 pixels TFT colour display with touch screen. The colour depth is 263 K (R, G, B, 6 bit).

The panel is operated directly via the touch screen. Pressure-sensitive areas permit operation similar to a wall switch using short and long pushes of the button. These display buttons can thus also be used to dim the lights, as a control command for the shutters or to recall and program scenes.

The display has an LED backlight that is dimmable from 50 % - 100 % via the user interface. During operation the LED backlight is activated and can be automatically switched off or dimmed after a configurable time.

The panel is equipped with an integrated slide show. This makes it possible to configure an individual start screen. In its idle state, presentation pictures and photographs can be displayed in a cycle.

Up to 500 MB memory are available for the slide show and the photos and pictures that are shown.

When first touching the panel in idle mode, basic lighting or a scene can be activated via the KNX-bus.

In addition, it is possible to activate a temporary cleaning function at the panel via the KNX-bus. During the cleaning function, the panel is blocked from any touch screen operation. This ensures that no control commands are triggered inadvertently while the display surface is being cleaned.

Four different design styles are available for the presentation of the display and control surface, functions and status messages. With styles ranging from modern to classic, most different customer and project requirements have already been taken into account. These designs can be changed by the user without using the ETS.

The colour touch panel is configured only with the ETS. In conjunction with the corresponding application program 25 CO Colour Touch-Panel 910201, the display can be used to view and control up to 110 KNX functions on up to 20 operating and viewing pages.

Both basic functions such as switching, dimming, controlling shutters, setting value, as well as complex functions such as scene control, heating and ventilator control can be used.

During configuration, the desired functions and status notifications are selected. For each selected function or status display the appropriate communication objects are made available dynamically, which are then linked with group addresses.

Every function, every identification, as well as the screen heading can be described with a text of up to 20 characters.

Symbols indicate statuses, functions and navigation instructions.

The symbols can be adjusted individually for every design style or replaced specifically for any client or project.

The 10 main control pages, as well as the configuration pages for the system setting, for scene configuration, for the weekly schedule, for the logic module and presence simulation can be protected with their own password respectively.

In addition, individual functions can be blocked separately via the KNX-bus.

Up to 64 scenes can be recalled and programed using the panel. Using a scene program, these scenes can be configured directly via the user interface on the display.

With a schedule program, weekly schedules can be set up for the functions. Any scheduled commands can be assigned to every function. The schedules are setup directly via the user interface on the display.

A recording of events can be activated via the user interface on the display. These recordings can be edited manually, like the schedule commands in the weekly schedules. In holiday periods, these recorded events can be played back thus carrying out a presence simulation.

A logic module with up to 32 logic gates can be configured directly via the user interface of the display. This serves to logically link up to 60 objects.

16 alarm functions are available in the panel. These alarm messages are displayed chronologically on an alarm screen. Variable triggering conditions of up to 16 objects serve as a threshold value or limit value switch. These can also be used for event orders.

A trending module displays and saves 1-, 2- and 4-byte status values via a given configurable time. You configure and display directly via the display interface

The display has a battery-buffered real-time clock

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to display the current time and date. It can thus function as the master clock in a KNX-system. The clock is used to control the program functions, such as schedule program, presence simulation, alarm function etc.

The display has an internal signal generator which indicates the alarm messages accoustically and is used as a response when a button is activated.

Note:

The application program is loadable with ETS version 3.0 d or higher.

Note:

The current firmware release is V1.1.1. The firmware is loaded in the Internet via our Service home page <u>http://www.siemens.de/gamma-td</u> (see section 2.12 Software Update).

From firmware release V1.1.1, there are, inter alia, layout changes in the menu page, configuration page and the browsing dependent on these for the program and fucntion modules. The trending module and the settings for the slide show are available from firmware release V1.1.1 and later.

Firmware release V1.1.1 can be loaded both on the colour touch panels UP 588/12 and UP 588/22 and on the colour touch panels UP 588/13 and UP 588/23.

2. Operating instructions

2.1 General operation

After starting the colour touch panel (once external voltage supply and bus voltage are supplied) or after a bus reset during the initialisation of the control pages, the backlighting is activated and the logo page is shown.

Note:

If, in the relevant configured path on the flash card, there is no image for a logo page or a number of images for a slide show, the *Siemens* logo page (see figure 1) is displayed.

Fundamentally, the image which, with its filename, is in the first position alphanumerically in the selected path, is used as the logo page.

The images in the slide show are also shown in this sequence (see section 2.11 Pictures of the logo / slide show).



Fig. 1: Logo page

The initialisation of the panel can take up to one minute. During this time, the device can not be operated.

In order to be able to indicate valid values after the start or process these values in corresponding programs, the panel can send a unique read request to certain status objects. All status objects with a set update flag are queried. A condition for this is the corresponding setting "Update of status objects after bus reset" in the ETS configuration (see section 3.1 General communication objects and parameters).

After this, the display starts up showing the menu page (see figure 2).

This page presents an overview of all ten main pages. It displays the buttons to jump to the individual main pages via which the individual KNX-functions are operated.

The individual pages are selected by touching the corresponding touch area.

The captions (see figure 3a) of the ten buttons are set individually via the ETS configuration: "Description / Headline of page".

Note:

In its factory default state, the system is set to the design style "magic". Accordingly the page, function and symbol representations are shown in the "magic" style in this description of the application.

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Conference 1	Office 1	
Conference 2	Office 2	
Meeting Room 1 🏻 💩	Reception	
Meeting Room 2	Kitchen	
Lobby	Corridor	
02:5 03/0	55 [™] 5/10	

Fig. 2: Menu page

Note:

This menu page display is the same as that for firmware release V1.1.1.



Fig. 3a: Page call button

Access to each of the ten main pages can be protected with an individual password. The selection of the pages that can be protected and the setting of the password can be handled in the ETS configuration: "Password page access."

The password-protected pages are marked by a lock symbol in the bottom right corner of the button area (see fig. 3b).

Meeting Room 2

Fig. 3b: Page call button with password protection

The password to activate this protected view is entered via a keypad (see section 2.8 Operation and input of the password via the password page).

In the lower part of the menu page, there are 4 function buttons to call up the configuration and special pages of the panel. These 4 function buttons with their navigation are fixed to the corresponding configuration and special pages and can not be changed via the ETS-configuration. A configuration or special page is selected by touching the corresponding button area. The configuration page can also be protected by an individual password.

If the configuration page is protected by a password, then no lock symbols are displayed on these small button areas.

The setting of the password are handled via the ETS-configuration: "Password of configuration...".

In detail, the following functions can be carried out with the function buttons:



Jump to the configuration page to select the system settings or special pages



Jump to the alarm page



Start or configuration of the logo / slide show



Enabling of the sleep mode

The date/time display is in the centre, between the function keys.



2.2 Operation and function of the main pages

A maximum of 10 main pages can be shown on the colour touch panel. Only those main pages for which standard functions have been configured will be displayed. Only then is selection from the menu page possible.

On the main pages the display and operation of the standard functions takes place (see section 3.3 Communication objects and parameters of the standard functions of the main pages 1 to 10).

Up to five standard functions can be placed on each main page. Thus, a total of 50 standard functions can be

shown on all ten main pages. Every main page offers the possibility to navigate between the main pages or the configuration and detail pages. Certain system functions can also be activated via the main pages.

The main pages are divided into three areas: the header (figure 4a), the function block (figure 4b) and the footer (figure 4c).



Fig. 4a: Header



Fig. 4b: Function block

In the header of the main page the page description is shown in the central area (1). The text of the page description is set individually via the ETS-configuration: "Description / Headline of page." The arrow buttons (2) to the right and left next to the page description can be operated. They serve to navigate directly to neighbouring main pages. Thus an operator can call up all ten main pages individually and in sequence, from beginning to end or end to beginning.

Time and date (3) are shown on the right side of the header. The time and date display is updated either via the internal real-time clock, or a synchronisation takes place with a time source in the KNX system. The time zone, the format of the display and setting of time and date can be adjusted in the configuration page of the system settings (see section 2.4.1 Operation and function of the configuration page for system settings). On the left side of the header is the Home button (4). Pushing the Home button returns the user to the menu page.

In the middle of the main page is the function block. A maximum of five standard functions can be placed in this block. In this area it is also possible to generate a blank line or to present pure text for description or structuring. The selection, the caption and the configuration of the standard functions, blank lines or character displays are carried out in the corresponding ETS-configuration.

- (A): Each function is shown with a description text with up to 20 characters
- (B): a control area with up to 2 buttons
- (C): and if necessary a display area for a status (in symbolic form or as plain text), between the description text and the control area.

The symbols for the standard functions are shown in the section 2.10.2 Symbols of the standard and additional functions.

- (D): When configuring a blank line, a continuous empty row is shown. The control area remains empty.
- (E): When configuring a text, the text is shown on the left in the description field. The control area remains empty (figure 4b).
- (F): When configuring special functions, such as switch only ON, switch only OFF, switch OVER etc., only a large button is shown in the control area.
- (G): When configuring status displays, the respective values are shown in the display area on the right next to the description text. The control area remains empty.
 If 1-, 2- or 4-byte status values have been configured and approved for the display in the trending module, then the symbol for trend display is shown in the display filed to the right of the caption and to the right beside the display value. You use this symbol to change to the graphic depiction of the status value (see figure 6b).

The following standard functions are available:

- Switching
- Switching/dimming with stop data telegram
- Switching with forced control
- Shutter
- Set value 1 byte (0...100 %)
- Set temperature level (2 byte)
- Set counter value

GAMMA<u>instabus</u> Application Program Description

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- Recall/program scene
- Set heating operating mode
- Heating fan setting
- Status display 1 bit
- Status display 1 byte
- Status display 2 byte
- Status display 4 byte

Depending on the function type, a standard function has up to three communication objects for bus communication available (see section 3.3 *Communication objects and parameters of the standard functions of the main pages 1 to 10*).

In the footer of the main page, there are up to six additional buttons.



```
Fig. 4c: Footer
```

Similar to the 4 function buttons on the menu page, the additional buttons on the main pages also serve to call up the configuration pages (see section 2.1 General operation). This offers another possibility to get to the configuration pages from the ten main pages. In addition, it is also possible to navigate directly from one displayed main page to other main pages. Detail pages can also be opened using the additional buttons. A detail page is a page that is subordinate to a main page (see section 2.3 Operation and function of the detail pages).

Finally it is also possible to trigger certain commands via the additional buttons, e.g. start sleep mode, activate or configure logo / slide show, temporarily block touch page (cleaning function). The function of the buttons and the allocation of a symbol for the buttons is handled via the ETS-configuration (see section 3.2 Communication objects and parameters of the standard functions of the main pages 1 to 10). The different pages are selected or commands triggered by touching the corresponding button.

The following symbols are used for the functions *Jump to main page 1...10*:



Symbol 7 (jump to main page 1)







Symbol 10 (jump to main page 4)



Symbol 11 (jump to main page 5)



Symbol 12 (jump to main page 6)



Symbol 13 (jump to main page 7)



Symbol 14 (jump to main page 8)



Symbol 15 (jump to main page 9)



Symbol 16 (jump to main page 10)

Aside from the general symbols, which only show the number of the page, there is also a number of symbols available. These symbols reflect room functions, rooms, object areas. A project-specific and plausible user interface can thus be planned and engineered.



Symbol 22 (weather data)



Symbol 23 (audio control)



Symbol 24 (lighting)



Symbol 25 (sun protection)

Symbol 26 (HVAC)

Symbol 8 (jump to main page 2)

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Symbol 42 (garage)

For the function Jump to detail page, there are the following symbols:



Symbol 5 (jump to detail page)

This general symbol to jump to an additional function page that is subordinate to the main page can be used if one jumps, for example, from the main page Conference 1 to the subordinate detail page Conference 1.

It is also possible to navigate from a main page to several different detail pages that are allocated to this main

In order to visually differentiate the jump to different detail page or to assign a room function or an area/range to a detail page, one can use the symbols 22 to 42 (see above), similar to calling up a main page.

The following additional buttons can be configured to activate special commands:



Symbol 1 (start sleep mode)



Symbol 2 (activate or configure logo / slide show)



Symbol 3 (cleaning mode)



Symbol 4 (disable)



Symbol 6 (jump to last operated page)





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Symbol 41 (staircase)

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2.3 Operation and function of the detail pages

In addition to the ten main pages, it is also possible to use additional detail pages to operate and display additional functions.

Detail pages are always subordinate to a main page. They can only be reached via the additional buttons of the main pages. It is possible to call up one or more detail pages via a main page (see fig. 5).

Up to 60 additional functions can be shown on the detail pages. The detail pages consist of a header (fig. 6a) and a function block (see fig. 6b).



Fig. 6a: Header

In the central area of the header, the page description (1) is shown again. This is copied from the superordinate main page. On the right side of the header, as on the main page, the time and date (2) are shown.

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Menu page



Fig. 5: Operating concept for the detail pages



On the left side of the header, as on the main page, there is a Home Button (3) to allow a direct jump to the menu page. On the right next to the Home button is the Back button (4) to jump to the superordinate main page.

In the function block of the detail pages, up to six additional functions are shown. If more than six additional functions are placed on a detail page, then a scroll bar appears on the right side of the page. The additional functions that are not shown can be made visible with the scroll bar.

The selection, the caption and the configuration of the additional functions and text fields, as well as the allocation to the corresponding main pages are handled via the corresponding ETS-configuration.

- (A): Each additional function is shown with a description Text with up to 20 characters
- (B): a control area with up to 2 buttons
- (C): and if necessary a display area for a status (in symbolic form or as plain text), between description text and control area, (see figure 4b).

The symbols for the additional functions are shown in the section 2.10.2. Symbols of the standard and additional functions.

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- (E): When configuring a text, the text is shown on the left in the description field. The control areas remain empty.
- (F): When configuring special functions, such as Switch only ON, switch only OFF, switch OVER etc., only a large button is shown in the control area.
- (G): When configuring status displays, the respective values are shown in the display field on the right next to the description text. The control areas remain empty.

If 1-, 2- or 4-byte status values have been configured and approved for the display in the trending module, then the trend depiction symbol will be displayed in the display field to the right, beside the labelling text and to the right beside the indicated value. You use this symbol to change to the graphic depiction of the status value (see figure 6b).

Note:

This depiction of the trending symbol in the status value display is compatible with firmware release V1.1.1.

The following additional functions are available:

- Switching
- Switching with forced control
- Set value 1 byte
- Set temperature level (2 byte)
- Set counter value
- Recall/program scene
- Set heating operating mode
- Heating fan setting
- Status display 1 bit
- Status display 1 byte
- Status display 2 byte

Additional functions differ from standard functions in that for every additional function there is only one communication object available (see section 3.4 *Communication objects and parameters of the additional functions 1 to 60*).

2.4 Operation and function of the configuration page

You call up the configuration page via the first button on the footer on the menu page.

The configuration page is an overview page for configuring all programs and function modules. The buttons for the system settings, the configuration pages

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for the scene programs, the logic functions, presence simulation, time program and trending module are depicted by lines one above the other (see figure 7).

r Configuratio	n
General	1
Scenes	ļ.
Logic	1 &-
Presence	ON
Schedules	Ð
Trending	腟

Fig. 7: Overview page for configuring all programs and function modules

The Home button for jumping directly to the menu page is in the top left part of the header.

The 6 keys shown route you to the relevant program and function module configurations.

Note:

This overview page display is the same as that for firmware release V1.1.1.

2.4.1 Operation and function of the configuration page for system settings

You call up the page for system settings with the first button on the configurations overview page (see section 2.4. Operation and function of the configuration page)



If configured accordingly, this page can also be called up with an additional button in the footer of the ten main pages.



The configuration page for system settings makes it possible for the user to set basic system configurations without the ETS. The page is shown as follows (see figure 8).



Fig. 8: Configuration page for system settings

In the upper area is the header, similar to the main pages and the detail pages. The page description (1), as well as time and date (2) are also shown in a similar way.

As usual, the Back button (3) for jumping to the previous page, via which the system settings were called up, is on the left.

On the right next to the Back button is the Save button (4). Certain system settings are saved with this button. The Cancel button (5) next to the Save button reverts settings that have just been configured.

The version of the equipment firmware is shown in the lower part of this configuration page. Available firmware updates can be transferred to the device via the USB interface on the front (see section 2.12Software update).

In the middle of the configuration page, 2 tabs are available for the system settings.

In the *Time* tab, the valid time zone and the display format for the time can be set.

By setting the valid time zone, the automatic conversion of daylight savings time in the respective time zone is ensured. The change of the time zone is only effective after the Save button has been pressed. After this, the panel is restarted. A corresponding message window is shown. If the Cancel button is pressed before saving, the settings revert to the previously saved time zone.

Setting the time format makes it possible to switch between a 12 h (e.g. 4:30:14 PM) and a 24 h display (e.g 16:30:14). The change of the format setting is only effective after the Save button has been pressed. After this, the panel is restarted. A corresponding message window is shown. If the Cancel button is pressed before saving, the settings revert to the previously saved format setting. If the panel is configured in the ETS configuration as the master clock in the KNX system (see section 3.1 General communication objects and parameters), then time and date are driven by the internal real-time clock. Two additional fields will then appear to adjust date and time. The current time and date will become effective after saving.

On the *General* tab, general settings can be carried out (see figure 9).

	×	Settings	0;	02:59™ 3/05/10
Time	Common			
Brightness		100%		•
Slideshow		20		4
Layout		magic		-
			Version:	9.3.0

Fig. 9: General settings

With the Brightness setting, the brightness of the backlighting in the active operation of the panel can be changed. A setting from 50% to 100% is possible. If the Save button was pressed after making the setting, the newly set brightness becomes effective. If the Cancel button is pressed before this, then the settings revert to the previously saved brightness percentage value.

With the Slide show setting, the picture change time in seconds between two pictures of the slide show is set. A condition for this is the presence of several pictures in the corresponding path on the flash card (see section 2.6

Operation and editing of the logo / slide show). A setting in the range between 10 to 100 seconds is possible. If the Save button was pressed after the picture change time was changed, then the newly set picture change time becomes effective. If the Cancel button is pressed before saving, the settings revert to the previously saved picture change time.

4 different design styles are available for the presentation of the display and user interface. The design style can be selected in the Layout field. The following styles are available: "magic", "modern", "classic" and "elegant" (see figure 10). In order for the newly set layout to become effective, the Save button must be pushed. After this, the panel is restarted. A corresponding message window is shown. If the Cancel button is pressed before saving, the settings revert to the previously set style.

Meeting Room 1	Office 1	Meeting Roo
Meeting Room 2	Office 2	Meeting Roo
Conference 1	Reception	Conference
Conference 2	Kitchen	Conference
Lobby	Corridor	Lobby
N A 02:-	55~ 🗖 🛱	1 4
magic		modern

magic



classic



Office 1 Office 2

Receptio

Figure 10: Design styles

2.4.2 Operation and function of the configuration page for scene programs

You call up the page for scene program configuration with the second button on the configurations overview page (see section 2.4. Operation and function of the configuration page)



Given a corresponding configuration, this page can also be called up with an additional button in the footer of the 10 main pages.



The configuration page for scene programs allows the user to configure up to 64 internal scene programs. The end user can change these settings himself directly at the panel. The page is shown as follows (see figure 11).





In the upper part is the header. As usual, the Back button (1) for jumping to the previous page, via which the scene program configuration was called up, is on the left. To the right of the Back button is the Save button (2). With this button all scene entries are saved in fixed form. This allows these settings to remain preserved after a reset. A sounds as the values beep are saved. The Plus button (3) next to the Save button inserts a new command in this scene.

In the middle of the header is a pull-down field (4) for the selection of the desired scene.

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The scenes are shown with their description. The description is entered via the ETS configuration. Scenes that have not been provided with a description are shown in the pull-down field with a hyphen "-". Before this, the scene module must be activated (see section 3.5 *Communication objects and parameters for the scenes*).

The previously configured and saved scenes are marked with a "*" in the pull-down list of all 64 internal scene programs. This is how it is clear which of the 64 scenes are already occupied and linked with an object.

After the selection of the desired scene, any objects and thus functions that may already have been defined for this scene are shown (see figure 11). Otherwise, a new object is defined with the Plus button. Another input page is then opened for this (see figure 12). This editing window can also be reached by clicking on an existing object.

	2	3 4
~	×	Meeting
Enab	oled	
Func	tion	Dimming Spotlight 📃 🔽
Val	ue	į 1

Fig. 12: Settings for scene objects

On the right next to the acknowledgement button (1), Cancel button (2) and Delete button (3), the scene name (4) appears, e.g. *Presentation*.

Below that is a release field. With this, the function in the scene can be released or blocked.

With the pull-down field after function, the objects and thus the functions that are to be allocated to this scene are selected. All the standard or additional functions that were released via the ETS configuration for the scene programs (see section 3.3 Communication objects and parameters of the standard functions of the main pages

1 to 10 and 3.4 Communication objects and parameters of the additional functions 1 to 60) are made available.

The functions in the pull-down field are displayed as allocated to the respective main pages on which they are shown or to which they are subordinated. The name of the main page will be shown in hyphens e.g. - *Conference 1* - and the functions will be shown below it. Additional functions on detail screens that are assigned to no main page and therefore can not be displayed for operation are shown at the end of the selection box.

The slide control is used to set the value for the function in the scene. The presentation and scaling of the slide control appears corresponding to the selected function or the data type in the ETS configuration.

Example scaling:

Switch on/off: Scaling from 0... 1, increment: 1

Dimming on/off: Scaling from 0... 1, increment: 1

Switching with forced control: Scaling from 0...3, increment: 1

Shutter up/down: Scaling from 0... 1, increment: 1

Set value 1 byte (0..100%), increment: 10%: Scaling from 0... 100, increment: 10

Set temperature value (2 byte), value variable 0..150°C variable set: Scaling from 0... 150, increment: 1

Set counter value 2 byte fixed value :

Scaling fixd to the set value; Change not possible

Set heating operating mode, with automatic operating mode: Scaling from 0 (auto)... 4 (frost/heat protection), increment: 1

Heating fan setting, 5 steps (0%, 20%..100%) scaling from 0...100, increment:20

With the acknowledgement button in the left side of the header, the setting is adopted and the navigation jumps back to the general configuration page for scene programs.



With the Cancel button one can jump back to the general configuration page for scene programs without adopting the current setting.

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The Delete button is used to delete a previously defined function. A security query appears before this element is deleted.

Example:

The functions displayed in fig. 11 in the scene Conference are released and switch off the ceiling lamps with the value 0 and dim the spots to the value 100%.

2.4.3 Operation and function of the configuration page for logic functions

You call up the page for logic function configuration with the third button on the configurations overview page (see section 2.4. Operation and function of the configuration page).



Given a corresponding configuration, this page can also be called up with an additional button in the footer of the 10 main pages.



The configuration page for logic functions allows the user to configure up to 32 logic function gates. The end user can make these settings directly on the panel, individually and personally. The page is depicted as follows (see figure 13).



Fig. 13: Configuration page logic functions

The Back button (1) for jumping to the previous page, via which the logic function configuration was called up, is in the header on the left.

On the right next to the Back button is the Save button (2). The configuration of the logic gates is saved in fixed form with this button.

The Delete button (3) next to the Save button serves to delete all settings of the logic gate.

In the middle of the header is a pull-down field (4) for the selection of the 32 logic gates.

Only those objects of the additional functions are available for the configuration of the inputs and outputs of the logic function gates that have been released for the logic function. This release of the additional functions is set via the ETS configuration (see section 3.4 *Communication objects and parameters of the additional functions 1 to 60*). Only the additional functions *Switch* or *Status display 1 bit* as well as 1 bit objects can be used in the logic gates.

Each of the 32 logic gates has 4 inputs and an output. The inputs and outputs can be inverted individually. *Inverting* is written in the upper text line on the left and right. A window to set the inverting is shown respectively in front of the pull-down lists of the inputs and behind the pull-down list of the output. With this inverting, additional logical operators like NAND and NOR can be designed. Cascading of logic gates can be used to generate logical operators beyond the standard operators, such as XOR or XNOR.

In the lower part of the configuration page, there is a enable field. With this, the gate can be enabled or blocked.

The objects to be used can be selected in the 4 pull-down lists under Input in the caption field. The objects that were released in the ETS configuration as additional functions for this are available.

The operator AND or OR is selected in the pull-down field under Function in the caption field.

The object to be used can be selected in the pull-down field under Output in the caption field. The result of the logical operation is written in there. The objects that were released after the ETS configuration as additional functions for this are available.

Note:

Objects that were already used in an output of a previous logic function are no longer shown for selection in the next output.

Each event at an input leads to a transmission event at the output, irrespective of whether the values in the inputs or the value at the output change.

Note:

Care should be taken that different objects are used for the logic gate outputs than for the logic gate inputs, especially when cascading logic gates. Avoid feedback loops. The constant transmission events could lead to excessive bus load!

After the logic gate has been completely configured, this setting must be saved using the Save button in the header. This allows these settings to remain preserved after a reset. These previously configured and saved logic gates are marked with an "*" in the pull-down list of all 32 logic functions. This makes it clear which of the 32 logic gates are already occupied.

With the Delete button in the header, all settings of the gate, the inputs and outputs, the link, the release and inverting, can be deleted. The gate is now released for a changed setting again.

After the initialisation of the panel (restart), the states of the logic inputs are set to undefined. Only an event on the corresponding object by a write or read process activates the logic for this input. A logic gate will send an output value if a valid input condition is present.

This principle is explained by the following two examples:

Example OR:

As soon as at least one input of the gate receives the value "1", the output is set to the value "1". This operation is unambiguous, independent of the undefined state of the other inputs. In order to set the output to the value "0", all inputs must have the defined state "0".

Example AND:

As soon as at least one input of the gate receives the value "0", the output is set to the value "0". This operation is unambiguous, independent of the undefined state of the other inputs. In order to set the output to the value "1", all inputs must have the defined state "1".

2.4.4 Operation and function of the configuration page for presence simulation

With the panel, a presence simulation can be carried out via the KNX system. The presence simulation can record the activities in a building that are visible from the outside to simulate their presence when the users are absent, by triggering the recorded activities in the same chronological sequence. Manually set events are also triggered at the set times.

This simulation thus resembles a sequence of scheduled commands carried out in a defined period.

These scheduled commands refer exclusively to objects that have been configured in the panel as a function for the presence simulation.

Foreign objects and thus other external functions in the KNX system are not recorded by the panel.

You call up the configuration page for presence simulation with the fourth button on the configurations overview page (see section 2.4. Operation and function of the configuration page).



If configured accordingly, this page can be called also by an additional button in the footer of the ten main pages.



The page is depicted as follows (see figure 14).

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Fig. 14: Configuration page for the presence simulation

All the standard or additional functions that have been released via the ETS configuration for the presence simulation (see section 3.3 *Communication objects and parameters of the standard functions of the main pages 1 to 10* and 3.4 *Communication objects and parameters of the additional functions 1 to 60*) will be taken into account in the presence simulation.

The presence simulation is started manually via the first button *Start*.

A green circle on the right in the header indicates this simulation mode.

During this simulation, no recording or editing of events can be carried out.

The presence simulation is terminated with the *Stop* button. The green indicator in the header goes off.

This means that the *Record* or *Modify* modes are free to be activated again.

The recording of the simulation can be started with the recording button.

In addition a red circle appears on the right in the header.

During the recording, the simulation or processing of events is once again blocked.

If it is not terminated manually first, the recording stops automatically after a period of one week or after approximately 1,000 recorded events.

The *Stop* Button is used to manually exit the recording. The red indicator in the header goes off.

This means that the *Simulation* or *Modify* modes are free to be activated again.

The resolution both for recording the events as well as the simulation is in steps of 1 minute. This means that the recording of changes of value of an object within a minute is not possible. The last value of the object in a minute is always the one that is saved. This operating principle is shown in the following diagram (see figure 15).

The recorded events can be subsequently edited or supplemented with additional events. Unwanted events can be deactivated.

The *Modify* button opens up a mode to edit the time entries of the functions.



Fig. 15: operating principle recording and simulation

This page to edit the simulation is similar to the configuration page for schedule programs and is shown as follows (see figure 16).



Fig. 16: Editing mode of the presence simulation

In the upper part is the header. On the left is the Back button (1) to jump to the superordinate presence simulation.

On the right next to the Back button is the Save button (2). With this button all schedule entries are saved in fixed form. This means that these settings will remain preserved after a reset. A beep sounds as the values are saved. The Plus button (3) next to the Save button inserts a new schedule command.

In the middle of the header is a pull-down field (4) for the selection of the function that is to be carried out at the corresponding times. All the standard or additional functions that were released via the ETS configuration for the schedule programs (see section 3.3 *Communication objects and parameters of the standard functions of the main pages 1 to 10 and 3.4 Communication objects and parameters of the additional functions 1 to 60*) are made available.

The previously configured and saved functions are marked with a "*" in the pull-down list. This is how it is clear which of the timer switching functions are already occupied and linked with an object.

The functions in the pull-down field are displayed as allocated to the respective main pages on which they are shown or to which they are subordinated. The name of the main page will be shown in hyphens e.g. - *Conference 1* - and the functions will be shown below it. Additional functions on detail pages that are assigned to no main pages and therefore can not be displayed for

operation from there are shown at the end of the selection box.

After selecting the desired object, the switching commands defined for this object previously are displayed if appropriate (see figure 16). These commands were already recorded for the presence simulation. On the other hand a new schedule command may be defined for the desired object with the Plus button. Another input page is then opened for this (see figure 17). This editing window can also be reached by clicking on an existing scheduled command point.



Fig. 17: Settings for schedule points

On the right next to the acknowledgement button (1), Cancel button (2) and Delete button (3), the name of the function (4) appears, e.g. *Floor lighting*.

Among them is a release field. With this, the schedule function can be released or blocked.

In the schedule window, the switching time is set with the arrow keys to the left and right.

Below that, the days of the week on which the schedule command is to be carried out are marked.

The slide control is used to set the value for the schedule point. The presentation and scaling of the slide control appears corresponding to the selected function or the data type in the ETS configuration.

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Example scaling:

Switch on/off: Scaling from 0... 1, increment: 1 Dimming on/off: Scaling from 0... 1, increment: 1 Switching with forced control: Scaling from 0...3, increment: 1

Shutter up/down: Scaling from 0... 1, increment: 1 Set value 1 byte (0..100%), increment: 10%: Scaling from 0... 100, increment: 10

Set temperature level (2 byte), value variable 0..150°C variable set: Scaling from 0... 150, increment: 1

Set counter value 2 byte fixed value:

Scaling fixed to the set value; Change not possible Set heating operating mode, with automatic operating mode: Scaling from 0 (auto)... 4 (frost/heat protection),

increment: 1 Heating fan setting, 5 steps (0%, 20%..100%) scaling

from 0...100, increment: 20

With the acknowledgement button in the left side of the header, the setting is adopted and the navigation jumps back to the editing mode of the presence simulation.



With the Cancel button one can jump back to the editing mode of the presence simulation without adopting the current setting.

The Delete button is used to delete a previously defined schedule command. A security query appears before this element is deleted.

A presence simulation is interrupted by a power failure. It is continued after power recovery with the next schedule entry.

If there is a power failure during a recording of events, this interrupted recording is deleted and the previous complete recording is used instead.

2.4.5 Operation and function of the configuration page for schedule programs

You call up the configuration page for time programs with the fifth button on the configurations overview

page (see section 2.4. Operation and function of the configuration page).

Schedules

With a corresponding configuration, this page can also be called via an additional button in the footer of the 10 main pages.



The configuration page for schedule programs allows the user to set the schedule commands for functions provided for this purpose. The end user can change these settings himself directly on the panel. The page is shown as follows (see figure 18).



Fig. 18: Configuration page for schedule programs

In the upper part is the header. As usual, the Back button (1) for jumping to the previous page, via which the timer program configuration was called up, is on the left. To the right of the Back button is the Save button (2). With this button all schedule entries are saved in non-

With this button all schedule entries are saved in nonvolatile memory. This allows these settings to remain preserved after a reset. A beep sounds as the values are

saved. The Plus button (3) next to the Save button inserts a new schedule command.

In the middle of the header is a pull-down field (4) for the selection of the function that is to be carried out at the corresponding schedule commands. All standard or additional functions are made available that were released via the ETS configuration for the schedule programs (see section 3.3 Communication objects and parameters of the standard functions of the main pages 1 to 10 and 3.4 Communication objects and parameters of the additional functions 1 to 60). Any number of schedule commands can then be assigned to any released function.

The previously configured and saved functions are marked with a "*" in the pull-down list. This is how it is clear which of the timer switching functions are already occupied and linked with an object.

The functions in the pull-down field are displayed as allocated to the respective main pages on which they are shown or to which they are subordinated. The name of the main page will be shown in hyphens e.g. - *Conference 1* - and the functions will be shown below it. Additional functions on detail pages that are assigned to

no main page and therefore can not be displayed for operation are shown at the end of the selection box.

After the selection of the desired object, any switching commands that may already have been defined for this object are shown (see figure 18). On the other hand a new schedule command may be defined for the desired object with the Plus button. Another input page is then opened (see fig. 19). This editing window can also be reached by clicking on an existing schedule command.



Fig. 19: Settings for schedule commands

On the right next to the acknowledgement button (1), Cancel button (2) and Delete button (3), the name of the function (4) appears, e.g. *Floor lighting*.

Below that is a release field. With this, the schedule function can be released or blocked.

In the schedule window, the schedule command is set with the arrow buttons on the left and right.

Below that, the days of the week on which the schedule command is to be carried out are marked.

The slide control is used to set the value for the schedule command. The presentation and scaling from the slide control appears corresponding to the selected function or the data type in the ETS configuration.

Example scaling:

Switch on/off: Scaling from 0... 1, increment: 1

Dimming on/off: Scaling from 0... 1, increment: 1

Switching with forced control: Scaling from 0...3, increment: 1

Shutter up/down: Scaling from 0... 1, increment: 1 Set value 1 byte (0..100%), increment: 10%:

Scaling from 0... 100, increment: 10

Set temperature level (2 byte), value variable 0..150°C: Scaling from 0... 150, increment: 1

Set counter value 2 byte fixed value:

Scaling fixed to the set value; change not possible Set heating operating mode, with automatic operating

mode: Scaling from $\overline{0}$ (auto)... 4 (frost/heat protection), increment: 1

Heating fan setting, 5 steps (0%, 20%..100%) scaling from 0...100, increment: 20

With the acknowledgement button in the left side of the header, the setting is adopted and the navigation jumps back to the general configuration page for schedule programs.



With the Cancel button one can jump back to the general configuration page for schedule programs without adopting the current setting.

The Delete button is used to delete a previously defined switching command. A security query appears before this element is deleted.

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Example:

The switching command shown in fig. 19 is released and at 18:00 every Wednesday, Thursday and Friday switches on the light with the value 1.

2.4.6 Operation and function of the configuration page for the trending module

You call up the configuration page for the trending module with the sixth button on the configurations overview page (see section 2.4. *Operation and function of the configuration page*).



The trending module allows a graphic depiction of status values over a timeframe to be set. This is how physical parameters such as temperatures, wind speeds, brightnesses, together with energy and counter readings, as well as outputs can be recorded and displayed. You call up trend depiction both from the status functions on the main pages and from the status functions on the detail pages.

Note:

The trending module function is available from firmware release V1.1.1 and later.

The configuration page for the trending module allows the user to set the timeframe in question, the method of recording and the depicted area. The end user can make these settings directly on the panel, individually and personally. The page is depicted as follows (see figure 20).



Figure 20: Configuration page for the trending module

The header is in the upper area. As usual, the Back button (1) for jumping to the previous page, via which the trending module configuration was called up, is on the left.

The Save button (2) is on the right, next to the Back button. This button saves all trend settings. In this way, these settings remain after a reset. This saving is accompanied by a beep. The Delete button (3) on the right, by the Save button, is used to delete all trend settings. The button (4) on the right by the Delete button calls up the configured and saved trend depiction. There is a pull-down field (5) in the centre of the header for selecting the functions which are available for a trend configuration.

A trend configuration and representation is possible for the standard and supplementary functions: 1-byte status display, 2-byte status display and 4-byte status display (see section 3.3 Communication objects and parameters for the standard functions on main pages 1 to 10 and refer also to section 3.4 Communications objects and supplementary function parameters for additional functions 1 to 60) are possible.

The previously configured and saved functions are marked with a "*" in the pull-down list. This is how it is clear which of the trends is already occupied and linked with an object.

There is a release field below it. In this way, you release or bar trend depiction for the function.

In addition to the timeframe field, there is a pull-down window for selecting the time depiction area. There is an option to select a range of 2 hours, 6 hours, 12 hours, 24 hours, 48 hours a week or one month. Depending on

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this setting, the last time slot is used to collect, process and store trend data (see below Work instruction for data storage and analysis).

Besides the methods field, there is a pull-down window for the choice of the relevant values in the time frame. Either the average, minimum or maximum values for the time frame in question can be determined and used for illustration.

Besides the maximum scaling and minimum scaling fields, there is in each case an entry filed for limiting the illustration area on the y-axis of the trend curve. After pressing on the adjacent number fields, the following keypad opens for entering a numeric lower or upper limit or for entering a sign (see figure 21).

Scale Max. <mark>8</mark>				
	1	2	з	
	4	5	6	
	7	8	9	
	±	O	с	
	Ok Cancel			əl

Figure 21: Keypad for entering the scaling

According to the dimension of the status value to be depicted, a value for the lower and upper scaling between the following limits can be set.

Scaling:

Status display 1 bytes: 0...100 Status display 2 bytes: -671088...670760 Status display 4 bytes: -2147483648...2147483647

Working principle for data storage and analysis:

The data to be entered for the relevant object will be collected initially in a buffer.

If recorded data, e.g. temperatures, occur very frequently (1 event/second) and if these trends are stored and displayed over an extended timeframe, e.g. 1 week, data volume must be reduced. This occurs over intermediate intervals (see table). Depending on the method selected, the arithmetic mean will be formed for all data in the buffer or within the interim interval, or the minimum or maximum value calculated. If no values are entered in an interim interval, the value for the previous interval will be assumed. The calculated mean and interim values will be stored temporarily in the panel's RAM. If a buffer or an interim interval has been read out and processed, it will be deleted and new data collected.

In the final analysis, the data intervals are the values which are stored and depicted graphically (see table).

The method described here is used for data reduction.

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Trend depiction	Data	Interim	Interim	Interim	Interim	Interim
period	intervar	niter var	interval		interval	interval
Last month	6 hours	3 hours	1 hour	30 minutes	10 minutes	5 minutes
Last week	4 hours	1 hour	30 minutes	10 minutes	5 minutes	
Last 48 hours	60 minutes	10 minutes	5 minutes			
Last 24 hours	30 minutes	10 minutes	5 minutes			
Last 12 hours	20 minutes	10 minutes	5 minutes			
Last 6 hours	10 minutes					
Last 2 hours	5 minutes					





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Ex.:

A trend is depicted over 24 hours.

The configured method was that arithmetic means would be computed and analyzed.

After 5 minutes, the first interim interval is ended and a mean value MW_1 is formed from all the values recorded in this period. The data for forming the average is then deleted from the buffer.

The values recorded in the next 5 minutes are combined to generate a mean value MW_2 and the data for forming the mean is again deleted from the buffer.

Because a total of 10 minutes has now elapsed, the next interim interval is ended and a unitary average MW₁₂ is formed from the first computed average MW₁ and the second computed average MW₁₂ and the two former mean values are discarded.

The values recorded in the next 5 minutes are combined to generate a mean value MW_3 and the data for forming the mean is again deleted from the buffer.

The values recorded in the next 5 minutes are combined to generate a mean value MW_4 and the data for forming the mean is again deleted from the buffer.

Now, in other words after 20 minutes, a unitary mean MW₃₄ is formed from the third computed mean value MW₃ and the fourth computed mean value MW₄ and both former mean values MW₃ and MW₄ are discarded.

The values recorded in the next 5 minutes are combined to generate a mean value MW_5 and the data for forming the mean is again deleted from the buffer.

The values recorded in the next 5 minutes are combined to generate a mean value MW_6 and the data for forming the mean is again deleted from the buffer.

Now, in other words after 30 minutes, a unitary mean MW_{56} is formed from the fifth computed mean value MW_5 and the sixth computed mean value MW_6 and both former mean values MW_5 and MW_6 are discarded.

After 30 minutes, a total mean MWtot is formed from the previously computed means MW12, MW34 and MW56

This value after 30 minutes equals the data interval DI. It is accordingly depicted in the graphic representation of the trend as a base.

If the configuration has ended and stored with the Save button (2), the graphic depiction (see figure 23) can be called up with the trend button (4).

The status functions configured in this way on the main or detail pages then include on the right a trend button to call up the graphic depiction (see figure 23).



Figure 23: graphic depiction of status values

13:40

13:20

-10 + 13:00

The trend shows the movement of the status function (temperature in °C) over the set period (2 hours) looking backwards from the time when the page was called up. It is represented by an orange-yellow line. The data intervals can be recognized as white points on the graph. The scaling on the X- and Y-axes depends on the set illustration area (max. scaling: 30, minimum scaling: -10) and the period. The scaling will also be matched ideally to the surface area made available for the illustration. Graphic trends which are outside the Y-scaling will be shown as dotted lines. If the selected status function is connected with a physical unit, e.g. for 2 byte or 4 byte values, these are to be indicated on the Y-axis.

14:00

14:20

14:40

15:00

The graphic illustration of the trend displays the minimum and maximum values of the data intervals as a discrete number with a physical unit.

The Back button returns you to the former page, via which the trend depiction was called up.

2.5 Operation and function of the alarm page

The panel offers 16 alarm functions. In addition, the functions *Status display 1 bit* from the 60 additional functions can be used as alarm messages if they were released as an alarm function. In total, up to 76 alarm messages can be managed.

Once an alarm condition has been met, this alarm is activated and shown on the alarm page. The alarm page

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is called up automatically. In addition, the alarm page can also be called up via the corresponding function button on the menu screen.

The screen is shown as follows (see figure 24).



Fig. 24: Alarm page

Again, the header is shown in the upper area. As with the previous pages, the page caption (1), as well as the date and time (2) are shown. On the left, as usual, is the Home Button (3) to jump directly to the menu page.

If "Common acknowledgment of activated alarms" has been set in the ETS configuration (see section 3.6 *Communication objects and parameters for the alarms*), an acknowledgement button (4) will appear right next to the Home button.

Underneath the header, all pending alarms are shown in the order in which they arrived. The alarm with the most recent time stamp is at the top.

An alarm line consists of the alarm symbol. This is assigned to the alarm function via the ETS configuration.

Next is the time stamp for the activation of the alarm. In the field Description is the alarm text, also described via the ETS configuration. On the right next to this is the alarm value, followed by an acknowledgement button. With this acknowledgment button, an individual acknowledgment of each alarm takes place.

The following symbols are available for alarm notifications. The symbols can be specifically adjusted

depending on clients or projects. The symbols can be loaded to the flash card via the USB interface (see section 2.9 USB and removable media).

0	Symbol 1 (alarm general)
<u>ک</u>	Symbol 2 (bolt)
\odot	Symbol 3 (alarm bell)
	Symbol 4 (alarm flashlight)
⚠	Symbol 5 (attention !)
◬	Symbol 6 (attention ?)
◬	Symbol 7 (window)
Â	Symbol 8 (door)
0	Symbol 9 (info message)
PP	Symbol 10 (wind)
	Symbol 11 (rain)
₩	Symbol 12 (frost)
۸	Symbol 13 (temperature)
0	Symbol 14 (first aid)
4	Symbol 15 (fire)
5.P	Symbol 16 (service/maintenance)

In the alarm list, the current value of the alarm object is shown every time the alarm page is called up. As long as the alarm is active, this value is shown in red. As soon as the alarm is no longer active (i.e. the value of the alarm object no longer meets the alarm condition), the value is shown in green. Irrespective of whether the alarm condition has been met or not, the alarms are shown in the alarm list if they have not yet been acknowledged.

The acknowledgment button for individual acknowledgment disappears after the alarm has been acknowledged.

Alarms are removed from the alarm list when the values of the alarm object no longer meets the alarm condition and the alarm has been acknowledged either collectively or individually via the acknowledgement button.



Acknowledging an alarm leads to the immediate termination of the alarm tone, as long as this has been set in the ETS configuration (see section 3.6 *Communication objects and parameters for the alarms*). In case of several active alarms that have not been acknowledged, then the individual acknowledgement of a single alarm already leads to the termination of the alarm tone.

If the panel is not operated within a configured time, then the logo page or slide show will become active. The alarm page will then be faded out. As long as the alarm is active and has not been acknowledged, the alarm tone will continue to sound. If the panel is not operated in an additional configured time, then the device will go into idle mode and the alarm tone will terminate.

If another alarm occurs during idle mode or during the logo / slide show, then the alarm page is shown with the active alarm. The alarm tone sounds again. If the display is operated again during idle mode or during the logo / slide show, the alarm page is displayed.

When the panel is restarted, the alarm list is initially erased. All object values are set to an undefined state. By querying the object values on restart (prerequisite for this is the ETS configuration for a one-time read request of the status objects), all current values are again checked for the alarm condition and entered on the alarm page accordingly. The status objects with a set update flag are queried. This allows for the alarm page to be up to date shortly after the device is restarted.

Note:

During the configuration of the alarms it should be ensured that the objects of the alarm-initiating devices have the read flag set. These objects are connected to the respective alarm objects via the group addresses.

The alarm conditions to activate an alarm depend on the respective data type of the object. The alarm conditions and the data type to be used are set with the ETS configuration (see section 3.6 Communication objects and parameters for the alarms).

The following alarm conditions will trigger an alarm: if the value of the alarm object:

is equal to the threshold value (always)

is greater than the threshold value is smaller than the threshold value

is greater than or equal to the threshold value:

is smaller than or equal to the threshold value

is equal to the threshold value (unique)

exceeds the threshold value (rising flank)

falls below the threshold value (falling flank)

is equal to the threshold value (always)

Whenever the value of the alarm object is equal (=) to the threshold value, an alarm is triggered. The value is shown in red. Every time the alarm condition is met again, the time stamp is updated.

If the value of the alarm object (\neq) is not identical to the threshold value and if the alarm has not yet been acknowledged, the value is shown in green. A renewed change of the alarm value (\neq) not equal to the threshold value does not lead to the values being updated on the display.

is greater than the threshold value:

Whenever the value of the alarm object is greater than the threshold value, an alarm is triggered. The value is shown in red. Every time the alarm condition is met again, the time stamp is updated.

If the value of the alarm object is smaller than or equal to the threshold value and if the alarm has not yet been acknowledged, the value is shown in green. A renewed change of the alarm value smaller than or equal to the threshold value does not lead to the values being updated on the display.

is smaller than the threshold value

Whenever the value of the alarm object is smaller than the threshold value, an alarm is triggered. The value is shown in red. Every time the alarm condition is met again, the time stamp is updated.

If the value of the alarm object is larger than or equal to the threshold value and if the alarm has not yet been acknowledged, the value is shown in green. A renewed change of the alarm value greater than or equal to the threshold value does not lead to the values being updated on the display.

is greater than or equal to the threshold value:

Whenever the value of the alarm object is greater than or equal to (=) the threshold value, an alarm is triggered. The value is shown in red. Every time the alarm condition is met again, the time stamp is updated.

If the value of the alarm object is smaller than the threshold value and if the alarm has not yet been acknowledged, the value is shown in green. A renewed change of the alarm value smaller than the threshold value does not lead to the values being updated on the display.

is smaller than or equal to the threshold value:

Whenever the value of the alarm object is smaller than or equal to (=) the threshold value, an alarm is triggered. The value is shown in red. Every time the alarm condition is met again, the time stamp is updated.

If the value of the alarm object is greater than the threshold value and if the alarm has not yet been acknowledged, the value is shown in green. A renewed change of the alarm value greater than the threshold value does not lead to the values being updated on the display.

is equal to the threshold value (unique):

Whenever the value of the alarm object is equal to the threshold value, an alarm is triggered. The value is shown in red. The current time stamp is shown. An additional alarm, i.e. when the alarm condition is met again, is not shown as a new alarm and thus does not lead to the time stamp or the alarm list being updated.

If the value of the alarm object (\neq) is not equal to the threshold value and if the alarm has not yet been acknowledged, the value is shown in green. A renewed change of the alarm value not equal to the threshold value does not lead to the values being updated on the display.

If an alarm value not equal to the threshold value has now been received and if as a consequence the alarm condition is met again (value of alarm object = threshold value), then this alarm is shown in the alarm list with the current time stamp.

exceeds the threshold value (rising flank)

Whenever the value of the alarm object is smaller than the threshold value, an alarm is triggered. The value is shown in red. The current time stamp is shown. An additional alarm, i.e. when the alarm condition is met again, is not shown as a new alarm and thus does not lead to the time stamp or the alarm list being updated.

If the value of the alarm object is smaller than the threshold value and if the alarm has not yet been acknowledged, the value is shown in green. A renewed change of the alarm value smaller than or equal to the threshold value does not lead to the values being updated on the display.

If an alarm value smaller than or equal to the threshold value has now been received and if as a consequence the alarm condition is met again (value of alarm object is greater than threshold value), then this alarm is shown in the alarm list with the current time stamp.

Falls below the threshold value (falling flank)

Whenever the value of the alarm object is smaller than the threshold value, an alarm is triggered. The value is shown in red. The current time stamp is shown. An additional alarm, i.e. when the alarm condition is met again, is not shown as a new alarm and thus does not lead to the time stamp or the alarm list being updated.

If the value of the alarm object is larger than or equal to the threshold value and if the alarm has not yet been acknowledged, the value is shown in green. A renewed change of the alarm value greater than or equal to the threshold value does not lead to the values being updated on the display.

If an alarm value greater than or equal to the threshold value has now been received and if as a consequence the alarm condition is met again (value of alarm object is smaller than threshold value), then this alarm is shown in the alarm list with the current time stamp.

Note:

If after a restart of the panel the equipment is initialised and all object values of the alarm list were set to an undefined condition, then each alarm event that was received by a write or read request and for which the alarm condition has been met leads to an alarm notification.

This also applies to the triggering conditions: exceeds threshold value (rising flank) and falls below threshold value (falling flank).

This ensures that all alarm states can be shown automatically after the panel is restarted.

Alarm function via a text message:

It is possible to use a text message as a triggering condition for the first two alarm objects via the ETS

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configuration (see section 3.6 Communication objects and parameters for the alarms). Whenever any arbitrary text is received, an alarm is triggered. The text appears in red in the description field. Every time another text message is received, the time stamp is updated. After the text message is acknowledged, it is deleted.

Additional function "Status display 1 bit" as additional alarm function

In addition to the classic 16 alarm functions, the functions *Status display 1 bit* from the 60 additional functions can be used as alarm messages if they were released as an alarm function.

If the value of the additional function *Status display 1 bit* = TRUE "1", then an alarm is triggered. The value is shown in red. The current time stamp is shown. If an alarm is displayed by additional functions, then no alarm tone sounds. Additional alarm events with the value of the additional function *Status display 1 bit* = TRUE "1" do not change the time stamp.

If the value of the additional function *Status display 1 bit* to = "0" and if the alarm has not yet been acknowledged, the value is shown in green. Additional alarm events with the value of the additional function *Status display 1 bit* = TRUE "0" do not change the time stamp.

Only a renewed alarm event with the value of the additional function *Status display* 1 bit = TRUE "1" updates the time stamp.

This alarm function with the additional function *Status display 1 bit* in its functionality corresponds to the alarm condition exceeds threshold value (rising flank).

2.6 Operation and editing of the logo / slide show

The third button in the footer enables the logo *l* slide show on the menu page.

If configured accordingly, this logo / slide show also can be called up by an additional button in the footer of the ten main pages.



Pushing this button will manually start the logo / slide show. It is shown in full screen mode.

The images that are to be shown as the logo screen or in sequence as a slide show are on the flash card of the

panel (see section 2.9 USB and removable media). The operator has the option to change the pictures for the logo / slide show, as well as to delete them or add to them. There is also the option to file the pictures in various sub-folders under the folder \photos\..., isolated by topic (see section 2.11 Logo/slide show images).

If the display is touched in the lower area during the logo / slide show in a strip approx. 1 cm from the lower screen edge, a control bar appears on the bottom edge (see figure 25).



Figure 25: Logo / slide show with control bar

4 keys are displayed in the control bar. The button (1) displays the next image in the collection. The button (3) displays the previous image in the collection. Both buttons together pause the automatic logo / slide show. Button (2) is the "Play/Stop" key. The "Play" feature starts the logo/slide show. The logo / slide show shows the pictures automatically with the set picture change times. The "Stop " feature halts the logo / slide show. The control bar puts the logo / slide show into a pre-run mode. You can control the display of the images manually.

If the buttons in the control bar are not used for approx. 10 seconds, the control bar is faded out.

Button (4) produces a switch to configuration mode for the logo / slide show (see figure 26).

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Figure 26: Logo/slide show configuration mode

The left half of the configuration page shows the selection tree "Images" with the sub-folders in which the pictures are. This selection tree equates to the directory tree \photos on the data medium. Choosing a relevant sub-folder will select it as the active folder for the logo I slide show.

The right half of the configuration page then displays in each case the first image within the selected folder as a smaller scale preview. You can also choose additional images in the selected folder with both arrow keys under the preview image.

Button (2) accepts the sub-folder set for the logo / slide show as the default setting. This set sub-folder is re-used after a system restart. In this way, the Save button (2) appears only if a sub-folder other than the default subfolder for the logo / slide show has been selected. If the sub-folder for the logo / slide show is changed without saving, these images are used for the logo / slide show pending a system restart.

The Back button (1) returns you to full screen mode for the logo / slide show.

If the top part of the display is touched, the logo / slide show ends. The last screen used will then be shown.

Note:

In the logo/slide show feature, pre-run mode and the configuration page are only available from firmware release V1.1.1.

2.7 Enabling sleep mode

The fourth button in the footer on the menu page puts the display to rest status.

With a corresponding configuration, the rest status of the display can also be enabled by an additional key in the footer of the 10 main pages.



The rest status can be configured. The display is either completely dark or it can be lightened by 10% - 30% with an illumination screen. When configuring a low light level, the images of the logo / slide show are to be perceived in the background.

If the display is in the rest state and you press at any point on the display interface, the logo / slide show or the last page used will be shown, depending on the configuration.

2.8 Operation and input of the password via the password page

All ten main pages but also the configuration pages for system settings, for logic functions, for schedule programs, for scene programs and for the presence simulation can be protected individually with passwords. Different passwords can be specified for all 10 main pages and all configuration pages. The passwords are set via the ETS configuration (see section 3.1 General communication objects and parameters and 3.2 Communication objects and parameters of the main pages 1 to 10).

Only numbers are used as passwords.

The passwords can be up to 5 numbers long, i.e. 1...99999. The standard setting 0 means no password.

Example:

If the password "123" is set via the ETS configuration, this sequence of numbers is expected accordingly on the password page.

Main pages that are password-protected are indicated with a small *Lock* symbol on the buttons of the menu screen.

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A password protection of the configuration pages is not indicated with a symbol.

After calling up a password-protected main or configuration page, the following button keypad appears (see figure 27).



Fig. 27: Keypad for password query

The password can be entered with the number buttons of the keypad and confirmed with the Enter key. The entered numbers are shown in hidden form as little crosses in the white field.

The name of the wanted page which is called up after a correct password is entered will be indicated via the number keys.

If the correct password is entered, the desired screen will open. If an incorrect password is entered, the navigation automatically jumps back to the menu page.

Note:

This keypad depiction with page display is the same as that for firmware release V1.1.1.

Note:

If the password for a protected page is forgotten, it is possible to view the password in the ETS configuration, see sections 3.1 General communication objects and parameters and 3.2 Communication objects and parameters of the main pages 1 to 10).

2.9 USB and removable media

The touch panel, aside from the KNX communication interface has an additional USB interface and a removable data carrier. This flash card contains the different image files for the:

- symbols of the standard function buttons
- symbols of the additional function buttons
- symbols of the functions' feedback messages
- symbols of the function buttons
- symbols of the additional buttons
- Symbols of the alarms
- logo / slide show

In addition it is possible to save new software updates and data on the flash card.

To communicate with the removable data carrier, a USB connection must be established with the panel. The panel has a mini USB socket on the front for this purpose (see figure 28).



Fig. 28: Mini USB socket

In order to make this socket accessible, the passepartout frame and, if necessary, the design frame must be removed.

The supplied USB cable is used to connect the panel to the mini USB jack to the PC. Please use only the cable provided (mini USB type B -> USB type A, length 1 m).

Now a connection to a PC or a laptop computer is established automatically. The panel registers as a removable data carrier on the attached PC or laptop computer or it is recognised as new hardware by the PC or laptop computer.

Corresponding to the respective drive designation of your PC, the data structure on the removable media using, for example, Windows Explorer is shown as follows:

F:\data

\DESIGN-1 \DESIGN-2 \DESIGN-3 \DESIGN-4 \photos \update

The desired changes regarding symbols, photos or updates can now be carried out.

After these changes are made, the USB cable can be disconnected from the panel (removing hardware certain before about the Windows toolbar). The panel must now be restarted (disconnecting the mains supply or pushing the reset button). All changes are now adopted.

2.10 Display and adjustment of the symbols

The display of the different symbols is optimally coordinated with the 4 existing design styles "magic", "modern", "classic" and "elegant". Sophisticated styles for operation and feedback notifications have already been specified. The large selection of symbols for all kinds of functions already covers a broad application portfolio.

All symbols are freely accessible and can be adjusted or replaced individually. If the extensive range of symbols should not be sufficient, these can be modified on the basis of the existing symbols, or new symbols can be provided. The existing image files should be used so that the type (JPG, BMP, GIF..) and image size (e.g. 320 x 240 pixel) can be used as a template.

Note:

Before changing or editing the image files, these should be saved beforehand.

To edit the image files, a USB connection to the panel is necessary, as described above.

The symbols are in the $\ensuremath{\textit{DESIGN}}$ directories on the flash card.

DESIGN-1 contains the symbols of the style "magic".

DESIGN-2 contains the symbols of the style "modern".

DESIGN-3 contains the symbols of the style "classic".

DESIGN-4 contains the symbols of the style "elegant".

2.10.1 Symbols of the alarm messages

The symbols that are available for the different alarm messages are in the directory:

DESIGN\images\alarm

In the section 2.5 Operation and function of the alarm screen, these symbols are shown with their descriptions.

The different symbols can be assigned to the respective alarm messages via the ETS configuration.

<u>2.10.2 Symbols of the standard and additional functions:</u> The symbols that are available for the different command buttons of the standard and additional functions are in the directory:

DESIGN\images\commands

The following symbols are available for the command buttons:

Note:

The symbols are shown by way of example in the "magic" design style.

Symbol 1 (general on/off style 1)







Symbol 2 (general on/off style 2)



only Off

On

only On / switch over

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GAMMA<u>instabus</u> Application Program Description

July 2010

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2.10.3 Symbols of the feedback messages of the functions:

The symbols that are available for the different feedbacks of the standard- and additional functions are in the directory:

DESIGN\images\states

The same symbols are used for the feedback messages as already shown above for the standard and additional functions.

The different symbols can be assigned to the respective feedback messages via the ETS configuration.

For some feedback messages, fixed symbols are saved, such as for:

- Set heating operating mode



Heating fan adjustment



Note:

The pictures for the symbols of the feedback messages are of the file type bmp. They have a size of $32 \times of 32$ pixels.

2.10.4 Symbol of the function buttons:

The symbols for the 4 functional buttons on the main pages are in the directory: DESIGN\images\links

In the section 2.1 General operation these symbols are shown in the design style "magic" along with their function.

These function buttons are firmly set with their navigation to the corresponding configuration and special pages and with the corresponding symbol and can not be changed via the ETS configuration (see section 2.1 General operation).

Note:

The pictures for the symbols of the function buttons are of the file type bmp. They have a size of 53×0.46 pixels.

2.10.5 Symbols of the additional buttons

The symbols for the additional buttons on the main pages are in the directory: DESIGN\images\links

In the section 2.2 Operation and function of the main pages these symbols are shown in the design style "magic" along with their function.

The symbols and the allocation of the function for the keys are set via the ETS configuration (see section 3.2 *Communication objects and parameters of the main pages 1 to 10*).

Note:

The pictures for the symbols of the function buttons are of the file type bmp. They have a size of $53 \times of 46$ pixels.

2.11 Pictures of the logo / slide show

The panel can display a special picture as the logo page or several pictures in a cycle as a slide show.

The logo page is also shown as a starting page after a restart of the panel (see section 2.1 General operation).

The pictures for the logo / slide show are in the directory: \photos

It is possible to save the images in various sub-folders under the folder \photos\..., topically isolated, e.g.:

\photos\subfolder 1

\photos\subfolder 2

\photos\subfolder 3

(see section 2.6 Operation and editing of the logo / slide show and section 2.9 USB and Removable Media).

The photos in this directory can be changed or deleted, or new photos can be added. The photos are shown in alphanumerical sequence according to file name. The first photo is the start or logo page. If there is only a single image in the folder \photos, then this is shown permanently.

Note:

The pictures for the logo / slide show are of the file type jpg. They have a size of 320×10^{-10} slide show are of 240 pixels. The maximum size per picture is 500 KB.

Altogether, 500 MB are available for the pictures.

2.12 Software update

The panel makes it possible to carry out a firmware update if this is made available by the manufacturer. The current version of the device firmware is shown on the configuration page for system settings (see section 2.4.1 *Operation and function of the configuration page for system settings*). A new device firmware is made available in the form of a file: *UpgradeUP588_V111.exe*. This executable file starts the touch display UP588 upgrade tool (see figure 29: Touch Display UP588 Upgrade Tool).

🐝 Touch Display U	2588 Upgrade Tool
**	Willkommen zum Touch Display UP588 Upgrade Tool Bitte verbinden Sie ihr Gerät mit dem entsprechenden USB Kabel. Das Display verbindet sich dann automatisch als zusätzliches Laufwerk mit dem Computer. Wählen Sie das entsprechende Laufwerk aus und drücken Sie anschießend OK. Welcome to Touch Display UP588 Upgrade Tool. Please, connect the device to your PC by corresponding USB cable. The display is connected to your PC automatically as additional hard drive. Select the right hard drive and press OK afterwards.
	Destination folder defenung\Touch-Panel UP 588_13 UP 588_23\Firmware Browse Installation progress
	Install Cancel

Figure 29: Touch Display UP588 Upgrade Tool).

Follow the instructions on the Welcome page. Select the relevant data medium via the Browse button. This is shown in the browser as a local data medium, e.g.: F:

The Install button starts the installation. This is indicated accordingly on the progress bars.

The following data structure is also on the removable media:

F:\data \DESIGN-1 \DESIGN-2 \DESIGN-3 \DESIGN-4

\photos \update

This new update file, updatexxx.tpc, is stored in the directory *\update* (see section 2.9 USB and data medium change).

The USB connection is terminated. After this, the panel must be restarted (disconnection of mains supply or pushing the reset button).

The new update is now activated.

The file *update xx.tpc* was deleted from the directory *\update.* The current version of the device firmware must now be verified in the system settings.

Update: http://www.siemens.com/gamma

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2.13 Data protection

Some user-specific functions such as the modules schedule programs, scene programs, logic, presence simulation and trending module are configured directly on the panel or recorded on the panel.

So that the settings of these functions can be saved and, if necessary, recalled, it is possible to access the directories *Logic, Scenes, Schedules* in the subdirectory *\data* via the USB connection. The files with the suffixes .bin or .list can be found in the respective subdirectories.

The schedule programs, scene programs, logic programs configured on the panel and the presence simulation are saved in these files.

In particular in the case of very extensive programs it is recommended to save the entire folder \data after the configuration has been completed. Again, the USB connection is used for this.

In case the devices need to be exchanged, the protected data of the programs can easily be loaded into a new device. The prior state is recalled immediately.

If a trending function has been configured with the touch panel and the corresponding values recorded, all these data intervals will be recorded hourly in a xml file, *trends.xml*. The set time for consideration, the recording methods and the scaling of the Y-axis will in each case be stored in this file (see section 2.4.6 Operation and Functioning of the Configuration Page for the Trending Module).

If the configured trending functions on the touch panel are changed and/or deleted, then the trend recordings in the .xml file will also be resaved or deleted. Recorded data intervals, which are before the set consideration period, will also be deleted in the xml file. The file *trends.xml* is also in the sub-directory *data\Trending*.

Note:

The trending module feature and therefore the opportunity of data removal from a xml file is available from firmware release V1.1.1.
3. Communication objects

The communication objects listed in the following are available for the colour-touch-panel. Which of them are visible and which can be linked with group addresses is determined by setting the parameters.

Maximum number of group addresses:	254
Maximum number of allocations:	255

Note:

The number and kind of visible objects can vary. All objects are never available at the same time.

3.1 General communication objects and parameters

The next picture shows the parameter window that pops up after you choose the ETS function "Edit Parameters..." in an as yet unconfigured device (see figure 30). The parameter settings "General" are visible in particular.

		General
Language used in display configuration menu	German	~
Function of display in sleep mode	screen dark	~
Logo/slideshow activation after last operation within	5 minutes	~
Sleep mode activation after logo/slide show presentation of	2 minutes	~
On touch in sleep mode jump to	logo / slide show	~
Duration of blocking on receipt of disable object	30 seconds	~
Password of configuration page [Enter: 0 => no password]	0	*
Password configuration of schedules [Enter: 0 => no password]	0	*
Password configuration of scenes [Enter: 0 => no password]	0	*
Password configuration of presence simulation [Enter: 0 => no password]	0	*
Password configuration of logic program [Enter: 0 => no password]	0	*
Time synchronisation by	by knx (slave)	~
Update of status objects after bus reset (Request rate 500msec.)	yes	~
After busreset request starts within	10 seconds	~
Acustic feedback	yes	~
Long push	0.8 seconds	~

Fig. 30: "General" parameters window



Parameter	Settings
Logo/slideshow activation	10 seconds
after last operation within	30 seconds
	1 minute
	2 minutes
	3 minutes
	4 minutes
	5 minutes
	6 minutes
	10 minutes
	15 minutes
	20 minutes
	25 minutes
	30 minutes

This parameter is used to set a time. If the device is not operated within this time, then the logo / slide show is started automatically. If the panel is touched, the logo / slide show is terminated. The last page viewed will then be shown.

Parameter	Settings
Sleep mode is	10 seconds
activation after logo/	30 seconds
slide show presentation	1 minute
of .	2 minutes
	3 minutes
	4 minutes
	5 minutes
	6 minutes
	10 minutes
	15 minutes
	20 minutes
	25 minutes
	30 minutes
	no automatically rebound
This parameter is used to s logo / slide show. If the	et the display duration of the
interrupted by an operati	on, the panel automatically
goes to sleep mode once t	this time expires. The setting
"no automatically rebound	" means that the logo / slide

"no automatically rebound" means that the logo / slide show will be shown permanently. Touching the panel terminates the logo / slide show. The last page viewed will then be shown.

On touch in sleep mode jump logo / slide show to last operated page

This parameter is used to adjust whether after touching the panel in sleep mode the logo / slide show is to be started or the last page viewed is to be opened.

Parameter	Settings
Duration of blocking on receipt of disable objrct	10 seconds 20 seconds 30 seconds 1 minute
This parameter is used to set a t value "1" in object 4 (button ope of the panel is blocked for the se show is displayed during this. display can, for example, be clear unwanted functions (cleaning fur	time. On receiving the eration), the operation t time. The logo / slide During this time, the ned without triggering nction)

Parameter	Settings
Password of configuration	0. .99999
[Enter 0 => no password]	
This parameter is used to define access protection for the configu settings. Only numbers can be us The value "0" means no passwo page.	a 5-digit password as ration page for system ed. ord protection for the

Parameter		Settings
Password configuration schedule	of	0. .99999
[Enter 0 => no password]		

This parameter is used to define a 5-digit password as access protection for the configuration page for the schedule programs. Only numbers can be used. The value "0" means no password protection for the page.

Parameter			Settings	
Password	configuration	of	0. .99999	
scenes				
[Enter 0 =>	no password]			

This parameter is used to define a 5-digit password as access protection for the configuration page of the scene programs. Only numbers can be used. The value "0" means no password protection for the

The value "0" means no password protection for the page.

Parameter	Settings	Parameter	Settings
Password configuration of	0. .99999	Update of status objects after	No
presence simulation		bus reset (Request rate 500	Yes
[Enter 0 => no password]		msec.)	
This parameter is used to define	a 5-digit password as	This parameter is used to set w	hether a query of all
access protection for the confi	guration page of the	configured status objects is to t	ake place after a bus
presence simulation. Only number	ers can be used.	reset.	
The value "0" means no passw	ord protection for the	Note:	
page.		Since it is possible that over 100	status objects need to
		be queried, this process can lea	d to an increased bus
Parameter	Settings	load. This becomes even more s	erious if several touch
Password configuration of	0 99999	panels are used within a KNX sy	stem. Because of this,
logic program	0	care should be taken that the be	eginning of the status
[Enter $0 \Rightarrow no password$]		query is onset in time!	
This parameter is used to define	a E digit password as	After busreset request starts	10 seconds
This parameter is used to define	a 5-digit password as	within	20 seconds
functions. Only numbers can be	uration page for logic		30 seconas
The value "0" means no passwo	and protection for the		7 minutes
nage			2 minutes
puge.			4 minutes
			5 minutes
Parameter	Settings	This parameter only appears if the	ne previous parameter
Time synchronisation	by device (master)	was set to "yes".	
	by KNX (slave)	This parameter is used to set the	e time offset after the
This parameter is used to set whe	ether the time signal of	query of the status objects after a	bus reset starts.
the internal real-time should be	e used to display the		
current date and time. In the cor	figuration page of the	Baramatar	Sattings
system setting, 2 input fields ap	pear to configure the	Farameter	Settings
With the setting "by KNX (slave)	" the date and time is	Acoustic feedback	No
synchronised with the two com	munication objects 0	This service to see a to set of	
(time setting) and 1 (date set	ting) via an external	Inis parameter is used to set w	d he accompanied by
schedule (e.g. DCF-77 receiver) in	the KNX system.	an accoustic signal a short been	nd be accompanied by
Note:	- 5 -	an accoustic signal, a short beep.	
Due to the limited accuracy (< 5	seconds per week), it		c
is recommend to use an externa	l schedule in the KNX	Parameter	Settings
system		Long push	0.5 seconds
Time interval for cyclical	1 minute		0.8 seconds
sending of time and date	2 minutes		1 seconds
	5 minutes		1.2 seconds
	10 minutes	This act time is a set of the	
	30 minutes	nush of a button or a chort such	tiate between a long
	1 hour	is pushed for longer than the se	t time then the nanal
		interprets this as a long button p	ish
	24 hours		
This parameter only appears if t	ne previous parameter	Note	
was set to "by device master". Th	is parameter is used to	This distinction is used with the f	unctions dimming and
set in which cycle the date and the KNX bug. The two constraints	are to be sent via	shutter.	ancions anning and
THE KINX DUS. THE TWO COMMUNI	cation objects U (time	Jutter	
cotting) and 1 (data cotting) are a	used for this		

The following communication objects are always available for the general functions of the touch panel regardless of the configuration.

Obj	Object name	Function	Туре	Flag
0	Time setting	Time	3 byte	KSÜA/KLÜ

With this object, the time can be received from and synchronised with an external clock in the KNX system by the bus (by KNX slave).

With this object the time can be sent cyclically on the bus (by device master).

Obj	Object name	Function	Туре	Flag
1	Date setting	Date	3 byte	KSÜA/KLÜ
With this object, the date can be received from and synchronised with an external clock in the KNX system by the bus (by KNX slave). With this object the date can be sent cyclically on the bus (by device master).				
2	Activate sleep mode	1= activate	1 bit	KS
With this object the sleep mode of the display can be switched on (value = 1) or the sleep mode switched off (value = 0) via the bus.				play can be witched off
3	Contact in sleep mode	Switch On	1 bit	KÜ
If the panel is in idle mode, then the "value = 1" is sent via the object if the panel is touched (e.g. basic lighting ON).				= 1" is sent asic lighting
Ohi	Object name	Eunction	Туро	Elag
4	Operation of buttons	1= blocked	1 bit	KS

If "value = 1" is received via this object, then the operation of the panel is blocked for a pre-configured time. The logo / slide show appears (cleaning function). If "value = 0" is received via this object, then the panel can be used again, the logo / slide show can be aborted by touching the display.

3.2 Communication objects and parameters of the main pages 1 to 10

If the parameter setting "Page 1" is selected on the left side, then the following view will appear (see fig. 31). The same parameter window appears for the parameter setting for "Page 2" to "Page 10".

With this configuration, the settings for the presentation of the 10 main pages are carried out.

		Page
Function of page	display and control	~
Description / Headline of page	Seite 1	
Password page access [Enter: 0 => no password]	0	*
Usage 1st function button	no function button	~
Usage 2nd function button	no function button	*
Usage 3rd function button	no function button	~
Usage 4th function button	no function button	~
Usage 5th function button	no function button	~
Usage 6th function button	no function button	~
	no function button stat leep mode stat logo / side show temporay blocking of buttons (cleaning) jump to deat alp age jump to main page 1 jump to main page 2 jump to main page 3 jump to main page 4 jump to main page 5 jump to main page 5 jump to main page 6 jump to main page 7 jump to main page 7 jump to main page 7 jump to main page 9 jump to main page 9 jump to main page 10 jump to configuration page configuration of schedules configuration of scenes configuration of logic	

Fig. 31: Parameter window "Page 1"

Parameter	Settings
Function of page	page inactive display and control

This parameter is used to set whether the corresponding main page is to be displayed or whether it is inactive. If the parameter is set to "page inactive", the following settings for the function of the auxiliary buttons are not shown. If the parameter is set to "display and control", then the corresponding page is shown. The functions can be defined for this. Note:

The default setting "display and control" is only set on page 1. The pages 2 to 10 are inactive by default.

Parameter	Settings
Description / Headline of page	Seite 1

A description text for the respective page of up to 20 characters can be entered in this input field. This description is shown in the header of the respective main page on the display. At the same time it appears on the menu page for the navigation to the respective main page.

Parameter	Settings
Password page access [Enter 0 => no password]	0. .99999

This parameter is used to define a 5-digit password as access protection for the respective main screen. Only numbers can be used.

The value "0" means no password protection for the page.

If a password has been defined for this main page, then a "lock" symbol will appear on the menu page of the display.

Parameter	Settings		
Usage 1st function	no function button		
button	start sleep mode		
	start logo / slide show		
	temporarily blocking buttons		
	(cleaning)		
	jump to detail page		
	jump to last operated page		
	jump to main page 1		
	jump to main page 2		
	jump to main page 3		
	jump to main page 4		
	jump to main page 5		
	jump to main page 6		
	jump to main page 7		
	jump to main page 8		
	jump to main page 9		
	jump to main page 10		
	jump to configuration page		
	configuration of schedules		
	configuration of scenes		
	configuration of logic		
	configuration of presence		
	simulation		
This parameter is us 2nd - 6th additional b	ed to select the functions of the outtons on this main page.		
(see section 2.2 Ope	eration and function of the main		
pages)			
Symbol of 1st	symbol 1 (start sleep mode)		
function button	symbol 2 (activate logo / slide show)		
	symbol 48		
This parameter only appears if a function was selected			
in the above configuration.			
This parameter is used to select a corresponding			
symbol for the function of the 1st additional button. In			
the basic setting, a corresponding symbol is offered for			
the selected function.			
(These symbols are s	hown in the section 2.2 Operation		
and function of the n	nain pages)		

Parameter	Settings	
Usage 2nd – 6th function button	no function button start sleep mode	
	configuration of logic configuration of presence simulation	
This parameter is used to select the functions of the 2nd - 6th additional button on this main page. (see section 2.2 Operation and function of the main pages)		
Symbol of 2nd– 6th function button	symbol 1 (start sleep mode) symbol 2 (activate logo / slide show) symbol 48	
This parameter only appears if a function was selected in the above configuration.		
This parameter is used to select a corresponding symbol for the function of the 2nd – 6th additional button. In the basic setting, a corresponding symbol is offered for the selected function. (These symbols are shown in the section 2.2 Operation and function of the main pages)		

3.3 Communication objects and parameters of the standard functions of the main pages 1 to 10

On the max. 10 main pages of the panel, a total of 50 standard functions can be realised – a maximum of 5 on every main page. The KNX standard function is selected via a parameter.

If on the left side of the parameter setting "Functions 1..5", respectively below the appropriate page 1..10, is selected, then the following view appears (see fig. 32). The same parameter window appears for the standard functions for "Page 2" to "Page 10".



Fig. 32: Parameter window "Functions 1..5"

Parameter	Settings	
1st function 2nd function 3rd function 4th function 5th function	no function (blank line) text only switching switching / Dimming forced control venetian blinds set value 1 byte (0100 %) set temperature (2 byte) set value counter scene recall / program adjust heating mode adjust fan speed status display 1 bit status display 1 byte status display 2 byte	
This parameter is used to select the KNX standard function. With the setting "no function (blank line)", a blank line is generated in the corresponding place on the respective main page. With the setting "text only" a description text, without a function, can be produced on the respective main page in the corresponding line. (see also section 2.2 Operation and function of the main pages)		

Depending on the selected KNX standard function, up to 5 sub-parameters are offered in the ETS configuration window. Every standard function contains 3 communication objects.

In particular, the following sub-parameters and communication objects are present for the respective functions:

3.3.1 Standard function: no function

This function serves to structure the main page composition. It produces a blank line in the corresponding place on the main page.

During the selection of this function, the following parameters are shown.

Parameter	Settings
Description	Funktion 1
A description text of up to 20 cha in this input field. This description the display. It is intended for inte	racters can be entered n text is not shown on rnal description.

No communication objects are generated by this function.

3.3.2 Standard function: Text only

This function serves to structure the main page composition. In the corresponding line of the main page, a description text can be shown.

During the selection of this function, the following parameters are shown.

Parameter	Settings	
Description	Funktion 1	
A description text of up to 20 characters can be entered		

in this input field. This description is shown on the display, in the corresponding place on the main page.

No communication objects are generated by this function.

3.3.3 Standard function: Switching

With this function, switching functions with one button or two buttons can be realised. By pushing a button, the corresponding command message (ON/OFF/Toggle) is sent immediately.

Parameter	Settings		
Description	Funktion 1		
A description text of up to 20 characters can be entered in this input field. This description is shown on the display, in the corresponding place on the main page.			
Type of buttons On/Off Off / On On Off On Off Toggle This parameter is used to define the switching direction of the button and the button type. The button type "On / Off" is used to switch ON and OFF with two expressed in a button.			
The button type "Off / ON with two correspon The button type "On" is button. The button type "Off" broad button. The button type "Toggl a broad button.	On" is used to switch OFF and ding buttons. used to switch ON with a broad is used to switch OFF with a e" is used to switch Toggle with		
Status feedback	no status status by symbol status value (0100%)		
This parameter is used to set the kind of feedback. Depending on this setting, the data type of the communication object is shown. The status feedback is received via the group address of this object. With the parameter "no status" the object is not shown			
Symbol on buttons symbols 1 (gen. on / off style 1) symbols 2 (gen. on / off style 2) symbols 4 (light style 1) symbols 64			
This parameter is used to select the suitable symbol for the control buttons. (see section 2.10.2 Symbols of the standard and additional functions)			

Parameter	Settings		
Symbols of status feedback	symbols 1 (gen. on / off style 1) symbols 2 (gen. on / off style 2) symbols 4 (light style 1) symbols 64		
This parameter only appears if the parameter "status by symbol" was selected above. This parameter is used to select the suitable symbol for the feedback message. (see section 2.10.3 Symbols of the feedback messages of the functions)			
of the functions) Function enabled for no usage in programs scene programs schedule programs scene and schedule programs programs presence simulation schedules and presence simulation schedules and presence simulation scenes, schedules and presence simulation			
This parameter is used to set whether this function is used in the scene or schedule program or in the presence simulation. Accordingly these functions in the individual programs are displayed by name and can be			

The following communication objects are available for this function:

Obj	Object name	Function	Туре	Flag
5	Page 1, Function 1	Switch, On / Off	1 bit	KSÜ
This object is used to send a 1 bit switching data telegram if a button is pushed.				

Obj	Object name	Function	Туре	Flag	
6	Page 1, Function 1	1= blocked	1 bit	KSÜA	
This funct then	This object can be used to lock the operation of the function. if the "value = 1 " is received via this object, then the control buttons are not shown on the display.				
7	Page 1, Function 1	Status, On / Off	1 bit	KSÜA	
Corresponding to the received value of this object, the feedback symbol is displayed. This data type for the feedback message is shown if the parameter "status by symbol" was set.					
7	Page 1, function 1	Status, value	1 byte	KSÜA	
The received value of the object is displayed as the feedback value. This data type for the feedback message is shown if the parameter "status value (0100%) " was set.					

If all functions 1..5 on all 10 main pages are used, then the communication objects 8..154 are used identically accordingly.

3.3.4 Standard function: Switching/Dimming with stop message

This function is used for switching and dimming with two buttons. With a pair of buttons, a brief push of the buttons the lights can be switched on or off, while a longer push of the button can be used to dim the lights brighter or darker. It is adjustable which button is to be used for switching off and dimming darker or switching on and dimming brighter.

The time that differentiates between a short and a long push can be configured.

When dimming, on detecting a long push of the button, a dimming message "brighter" or "darker" is sent; when the button is released, a stop message is sent.

functionally integrated there.

Parameter	Settings		Parameter	Settings
Description	Funktion 1		Symbols on buttons	symbols 1 (gen. on / off
A description text for t characters can be en description is shown corresponding place on	the respective page of up tered in this input fiel n on the display, i the main page	p to 20 d. This in the		style 1) symbols 2 (gen. on / off style 2)
Lisage of buttons	on / off – brighter / dark	(er		symbols 7 (dimming style
Usage of buttons	off / on – darker / brig	hter		1)
This parameter is used	to define the switching di	irection		 symbols 64
of the button. The button direction " used to switch ON and button. The left button	on / off – brighter / da d OFF with a short push triggers the ON comman	rker" is of the nd. The	This parameter is used to the control buttons. (see section 2.10.2 Sy additional functions)	o select the suitable symbol for mbols of the standard and
The button triggers the used to dim up and o button. The left button The right button trigger The button direction " used to switch OFF an button. The left button right button triggers the	on / off – brighter / da down with a long push triggers the brighter con rs the darker command. off / on – darker / brig d ON with a short push triggers the OFF commander	rker" is of the nmand. hter" is of the nd. The	Symbol of statu feedback	 s symbols 1 (gen. on / off style 1) symbols 2 (gen. on / off style 2) symbols 7 (dimming style 1) symbols 64
The button direction "	off / on – darker / brig	hter" is	This parameter only appe	Pars if the parameter "status by
used to dim down an	d up with a long push	of the	symbol" was selected in t	the configuration above.
The right button trigger	rs the brighter command.	inianu.	This parameter is used to	o select the suitable symbol for
Status feedback	no status / no disable no status with disable ob status by symbol	oject	the feedback notification (see section 2.10.3 Sym of the functions)	bols of the feedback messages
	status value (0100%)		Function enabled for	no usage in programs
This parameter is used or feedback object is pr feedback is configured symbol or a value (C setting, the data type shown. The status feed address of this object.	to set whether a blocking esent. If the announceme d, this can be displayed 0100%). Depending o of the communication o dback is received via the	g object ent of a d via a on this bject is e group		scene programs schedule programs scene and schedule programs presence simulation scenes and presence simulation schedules and presence simulation scenes, schedules and presence simulation
			This parameter is used to used in the scene or presence simulation. Acc individual programs are functionally integrated th	to set whether this function is schedule program or in the cordingly these functions in the displayed by name and can be here.

The following communication objects are available for this function:

Obj	Object name	Function	Туре	Flag	
5	Page 1, Function 1	Switch, On / Off	1 bit	KSÜ	
A 1 k after	oit switching data te a short push of the b	legram is sei utton.	nt via t	his object	
6	Page 1, Function 1	Dimming, Brighter/D arker	4 bits	KÜ	
A 4 k after may l	bit dimming data tel a long push of the b be sent.	egram is ser outton and t	nt via t he stop	his object message	
7	Page 1, Function 1	1= blocked	1 bit	KSÜA	
This objec The c objec the c	This object only appears if " no status with disable object" was selected in the above configuration. The operation of the function can be blocked with this object. If the "value = 1" is received via this object, then the control buttons on the display are hidden.				
7	Page 1, Function 1	Status, On / Off	1 bit	KSÜA	
This parameter only appears if "status by symbol" was selected in the above configuration. According to the received value of this object, the feedback symbol is displayed.					
7	Page 1, Function 1	Status, value	1 byte	KSÜA	
This object only appears if " status value (0100%)" was selected in the above configuration. The received value of the object is displayed as feedback value.					

If all functions 1..5 on all 10 main pages are used, then the communication objects 8..154 are used identically accordingly.

3.3.5 Standard function: Switching with forced control

This function can be switched forced control ON and forced control OFF and the forced control can be deactivated. The appropriate command (forced control ON or forced control OFF) is sent immediately after a short push of the button. After a long push of the button, a command to deactivate the forced control is sent. Actuators with forced control input permit an override of certain actuator outputs by central control interventions. For example, in energy saving or night mode the switching on of specific lights or loads can be compulsorily prevented. The panel makes the manual activation of the forced control or the deactivation of an automatically activated forced control possible.

Parameter		Settings		
Description	Description			
A description text for the respective page of up to 20 characters can be entered in this input field. This description is shown on the display, in the corresponding place on the main page.				
Type of Buttons		On / Off Off / On		
This parameter is used to define the switching direction of the button. In the button direction "On / Off", a short push of the left button triggers the function forced control ON. In the button direction "On / Off", a short push of the left button triggers the function forced control OFF. In the button direction "OFF / ON", a short push of the left button triggers the function forced control OFF. In the button direction "OFF / ON", a short push of the right button triggers the function forced control. A long push of the button (> 2 sec.) of the left or the right button triggers the deactivation of the forced				
Status feedback no status status by symbol status value (0100%)				
This parameter is used to set the type of feedback. Depending on this setting, the data type of the communication object is shown. The status feedback is received via the group address of this object. With the parameter "no status", the object is hidden.				

Parameter	Settings
Symbol on buttons	symbols 1 (gen. on / off style 1) symbols 2 (gen. on / off style 2)
	 symbols 64
This parameter is used to the control buttons. (see section 2.10.2 Sym additional functions)	set the suitable symbol for

Parameter	Settings	
Symbol of status feedback This parameter only a configuration "status by sy This parameter is used to the feedback message. (see section 2.10.3 Symbol	symbols 1 (gen. on / off style 1) symbols 2 (gen. on / off style 2) symbols 64 mppears if in the above mbol" was selected. set the suitable symbol for	
of the functions)		
Function enabled for	scene programs schedule programs scene and schedule programs presence simulation scenes and presence simulation schedules and presence simulation scenes, schedules and presence simulation	
This parameter is used to set whether this function is used in the scenes and/or schedule program and/or in the presence simulation. Accordingly these functions in the individual programs are displayed by name and can		

be functionally integrated there.

With this function the following communication objects are available:

Obj	Object name	Function	Туре	Flag
5	Page 1, Function 1	Forced control, On / Off	2 bits	KSÜ
With this object, a short push of the button leads to a 2 bit switching data telegram with the values "2" (forced control OFF) or "3" (forced control ON) being sent. A long push of the button (>2 sec.) sends a 2 bit switching data telegram with the value "0" (forced control deactivated)				
6	Page 1, function 1	1= blocked	1 bit	KSÜ
With this object, the operation of the function can be blocked. If the "value = 1" is received via this object, the control buttons on the display are hidden				

Obj	Object name	Function	Туре	Flag
7	Page1, Function 1	Status, On / Off	1 bit	KSÜA
Accor feed This o parar	According to the received value of this object, the feedback symbol is displayed. This data type for the feedback message is shown if the parameter "status by symbol" was set.			oject, the
7	Page1, Function 1	Status, value	1 byte	KSÜA
The received value of the object is displayed as feedback value. This data type for the feedback message is shown if the parameter "status value (0, 100 %)" was set.				

If all functions 1..5 on all 10 main pages are used, then the communication objects 8..154 are used identically accordingly.

3.3.6 Standard function: Venetian blinds

This function serves the control of venetian blinds functions with two buttons.

With a pair of buttons it is possible, with a long push, to move the solar protection up or down as defined, as well as stop the movement or move the slats by one step with a short push of a button.

It can be configured with which button the sun protection is to be moved up and if necessary the slats are to be opened by one step or the sun protection is moved down and if necessary the slats are to be closed by one step.

The time that differentiates between a short and a long push can be configured.

Parameter	Settings		
Description	Funktion 1		
A description text for the respective page of up to 20 characters can be entered in this input field. This description is shown on the display, in the corresponding place on the main page			
Usage of buttons	in / down – open / close		
	down / up – close / open		
Image: down / up - close / openThis parameter is used to define the switching directionof the button.The button direction "up / down - open / close" servesto move the shutter up and down with a long push ofthe button. The left button triggers the up command.The right button triggers the down command.The button direction "up / down - open / close" servesto gradually adjust the slats with a short push of thebutton.The button direction "down / up - close / open" servesto move the shutter down and up with a long push ofthe button.The button.The button.The button direction "down / up - close / open" servesto move the shutter down and up with a long push ofthe button.The button direction "down / up - close / open" servesto gradually adjust the slats with a short push of the			
Status feedback no no st	Status feedback no status / no disable no status with disable object status by symbol		
status value (0100%) This parameter is used to set whether a blocking object or an feedback object is present. If the display of a feedback message is configured, this can be displayed via a symbol or via a value (0100%). Depending on this setting, the data type of the communication object is shown. The status feedback is received via the group address of this object.			
Parameter	Settings		
Symbol on buttons	symbols 1 (gen. on / off style 1) symbols 2 (gen. on / off style 2) symbols 10 (shutter)		
	symbols 64		
This parameter is used to select the suitable symbol for the control buttons. (see section 2.10.2 Symbols of the standard and additional functions)			

Parameter	Settings	
Symbol of status feedback	symbols 1 (gen. on / off style 1) symbols 2 (gen. On / off style 2)	
	 symbols 10 (shutter)	
	 symbols 64	
This parameter only appear selected in the above confi This parameter is used to so the feedback message. (see section 2.10.3 Symbol of the functions)	ars if "status by symbol" was guration. select the suitable symbol for als of the feedback messages	
Function enabled for This parameter is used to	no usage in programs scene programs schedule programs scene and schedule programs presence simulation scenes and presence simulation schedules and presence simulation scenes, schedules and presence simulation	
ins parameter is used to used in the scenes and/or the presence simulation. in the individual programs can be functionally integra	set whether this function is schedule program and/or in Accordingly, these functions are displayed by name and ted there.	

With this function the following communication objects are available:

Obj	Object name	Function	Туре	Flag
5	Page 1, Function 1	Slats, Open / Close	1 bit	KSÜ
A sho teleg move comr move comr	Close A short push of the button sends a 1 bit switching data telegram via this object. If the sun blind was previously moved down, then any short push of a button sends a command "Stop / Slat Closed". If it was previously moved up, then any short push of a button sends a command "Stop / Slat Open".			

Obj	Object name	Function	Туре	Flag	
6	Page 1, Function 1	Blind, Up / Down	1 bit	KSÜ	
A lor comr comr	A long push of the button sends a 1 bit moving command via this object. The sun blind receives the command "Up" or "Down".				
7	Page 1, Function 1	1= blocked	1 bit	KSÜA	
This objec The c objec contr	This object only appears if "no status with disable object" was selected in the above configuration. The operation of the function can be blocked via this object. If the "value = 1" is received via this object, the control buttons on the display are hidden				
7	Page 1, Function 1	Status, On / Off	1 bit	KSÜA	
This selec Accor feedb	This parameter only appears if "status by symbol" was selected in the above configuration. According to the received value of this object, the feedback symbol is displayed.				
7	Page 1, Function 1	Status, value	1 byte	KSÜA	
This of selec The feedb	This object only appears if "status value (0100%)" was selected in the above configuration. The received value of the object is displayed as feedback value.				

If all functions 1..5 on all 10 main pages are used, then the communication objects 8..154 are used identically accordingly.

3.3.7 Standard function: Set value 1 byte (0... 100%)

This function serves to send fixed or variable 8-bit values within the range of 0...100%.

A button can be assigned its own 8-bit value, e.g. to dim the corresponding lights to a configured value with the push of a button or to set the speed of an exhaust fan.

When sending changeable 8-bit values, the value is changed incrementally upward or downward via two buttons. The increment is configured. With the left button the temperature level is lowered gradually. With the right button the value is raised gradually. Only with each new push of the button is the value to be sent raised or lowered.

Parameter		Settings
Description	Description	
A description text for the respective page of up to 20 characters can be entered in this input field. This description is shown on the display, in the corresponding place on the main page		
Function of buttons	send cor value va	nstant value ariable (+/-)
This parameter is used t an incrementally change	to set wh eable valu	ether a fixed value or le is to be sent.
Step size on button pre This object only appear selected in the above co This parameter is used the value that is sent wit reduced or by which th push of the right button	rs if "valu nfiguratio to set th th the pu ne value	1% 5% 10% 20% 25% 33% 50% ue variable (+/-)" was on. e increment by which sh of the left button is that is sent with the red
Constant value on button press 0100		
This object only appears if "send constant value" was selected in the above configuration. This parameter is used to allocate a fixed 8-byte value. This is sent via a push of a button.		

Parameter		Settings
Status Feedback	no status	
	status va	lue (0100%)
This parameter is used the parameter "status"	to set the value (01	e feedback message. If 00%)" is set, then the
sent value between 0	.100% is s	ent as feedback. If the
parameter "no status" i	is set, ther	n no feedback value is

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Parameter	Settings			
Function enabled for	no usage in programs			
	scene programs			
	schedule programs			
	scene and schedule			
	programs			
	presence simulation			
	scenes and presence			
	simulation			
	schedule and presence			
	simulation			
	scenes, schedule and			
	presence simulation			
This parameter is used to	set whether this function is			
used in the scene or sche	nedule program or in presence			
simulation. Accordingly	these functions in the			

functionally integrated there. With this function the following communication objects

are available:

individual programs are displayed by name and can be

Obi **Object name** Function Type Flag 5 Page 1, Function 1 Set value, 1 KSÜA byte Value With this object a fixed 8-bit value is sent via a button or an incrementally changed 8-bit value is sent via two buttons. 1 bit KSÜA 6 Page 1, Function 1 1= blocked With this object, the operation of the function can be blocked. If the "value = 1" is received via this object, the control buttons on the display are hidden

If all functions 1..5 on all 10 main pages are used, then the communication objects 8..153 are used identically accordingly.

3.3.8 Standard function: Set temperature (2 byte)

This function serves to send fixed or variable 2-byte floating-point values for temperatures in the range of +/- 3 steps by 0°C, -5..50°C, 0..150°C.

A button can be assigned its own 2-byte temperature value, e.g. to set the target temperature to a configured value with a push of a button. When sending changeable 2-bit temperature values via two buttons, the value in the configured temperature range is changed gradually upward or downward. The increment is configured. With

the left button the temperature level is gradually lowered. With the right button the temperature level is gradually increased.

Only with each new push of the button is the temperature value that is to be sent raised or lowered.

Parameter		Settings		
Description		Funktion 1		
A description text for the respective page of up to 20 characters can be entered in this input field. This description is shown on the display, in the corresponding place on the main page.				
Function of buttons send constant value value variable +/- 3 steps value variable -550°C value variable 0.150°C				
This parameter is use temperature value or value in a certain tempe Note:	ed to s an incre rature rar	et whether a fixed ementally changeable nge is to be sent.		
The setting "value vals switching steps, in the set	riable +/ et increm	- 3 steps" means 3 ent, around 0°C.		
step size step size 1°C step size 2°C step size 3°C step size 5°C step size 10°C step size 15°C step size 15°C				
This object only appears if "value variable +/-3 steps", "value variable -550°C" or "value variable 0150°C " was selected in the above configuration. This parameter is used to set the increment by which the temperature level to be sent is reduced with a push of the left button or increased with a push of the right button				
Constant value on butt	on press	-5°C -4°C		
		 0°C		
 20°C				
 150℃				
This object only appears if "send constant value" was selected in the above configuration This parameter is used to allocate a fixed 2-byte floating-point value for temperatures. This temperature value is sent via a push of a button.				

Parameter			Settings	
Status feedback	no stat status	us value	(temperature)	
This parameter is used to set the feedback message. With the parameter "status value (temperature)" the sent value between -5°C 150°C is shown as feedback. With the parameter "no status", no feedback value is displayed.				
Function enabled	I for no usage in programs scene programs schedule programs scene and schedule programs presence simulation scenes and presence simulation schedules and presence simulation scenes, schedules and presence simulation			
This parameter is used to set whether this function is used in the scenes and/or schedule program and/or in the presence simulation. Accordingly these functions in the individual programs are displayed by name and can				

With this function the following communication objects are available:

be functionally integrated there.

Obj	Object name	Function	Туре	Flag	
5	Page 1, Function 1	Temperat ure, Value	2 byte	KSÜA	
With this object, a fixed 2-byte floating point value for temperatures is sent via one button or an incrementally changed 2-byte floating point value for temperatures is sent via two buttons.					
6 Page 1, Function 1 1= 1 bit KSÜA blocked					
With this object, the operation of the function can be blocked. If the "value = 1" is received via this object, the control buttons on the display are hidden					

If all functions 1..5 on all 10 main pages are used, then the communication objects 8..153 are used identically and accordingly.

3.3.9 Standard function: Set value counter

This function serves to send fixed 1 byte, 2 byte or 4 byte counter values.

A button can be assigned its own counter value, e.g. to reset a counter to a defined basic value with a push of a button.

Parameter		Settings		
Description	Funktion 1			
A description text for the respective page of up to 20 characters can be entered in this input field. This description is shown on the display, in the corresponding place on the main page.				
Function of buttons	set cons	tant value 1 byte ant value 2 byte		
	set const	ant value 4 byte		
This parameter is used t the fixed counter value i	to set the s to be se	data format in which nt.		
Constant value on button press 0255				
This object only appears if "set constant value 1 byte" was selected in the above configuration. This parameter is used to assign a fixed 1-byte counter value in the range of 0255. This counter value is sent via a push of the button.				
Parameter		Settings		
Constant value x100 on press 01		0 100		
This object only appears if "set constant value 2 byte"				

was selected in the above configuration. This parameter is used to assign a fixed 2-byte counter

value in the range of 0..10000. The entered counter values are multiplied by 100 automatically. This counter value is sent via a push of the button.

Note:

Thus the complete data range of 0..65535 can not be set for 2-byte counter values.

Constant value x1000 on press 0..100

This object only appears if "set constant value 4 byte" was selected in the above configuration.

This parameter is used to assign a fixed 4-byte counter value in the range of 0..100000. The entered counter values are multiplied by 1000 automatically. This counter value is sent via a push of the button.

Note:

Thus the complete data range of 0..4294967295 can not be set for 4-byte counter values.

Parameter	Settings		
Function enabled for	no usage in programs		
	scene programs		
	schedule programs		
	scene and schedule		
	programs		
	presence simulation		
	scenes and presence		
	simulation		
	schedules and presence		
	simulation		
	scenes, schedules and		
	presence simulation		
This parameter is used to set whether this function is used in the scenes and/or schedule program and/or in			

the presence simulation. Accordingly these functions in the individual programs are displayed by name and can be functionally integrated there.

With this function the following communication objects are available:

Obj	Object name	Function	Туре	Flag	
5	Page 1, Function 1	Set value, Value	1 byte	KSÜA	
This object only appears if "set constant value 1 byte" was selected in the above configuration. With this object a fixed 1-byte counter value is sent via a button.					
5	Page 1, Function 1	Set value, Value	2 byte	KSÜA	
was s With a but	elected in the above this object a fixed 2- ton.	configuratio byte counter	n. ^r value	is sent via	
5	Page 1, Function 1	Set value, Value	4 byte	KSÜA	
This object only appears if "set constant value 4 byte" was selected in the above configuration. With this object a fixed 4-byte counter value is sent via a button.					
6	Page 1, Function 1	1= blocked	1 bit	KSÜA	
With block contr	this object, the oper ed. If the "value = 1" ol buttons on the dis	ration of the is received v play are hidd	functio ia this c len	on can be bject, the	

If all functions 1..5 on all 10 main pages are used, then the communication objects 8..153 are used identically accordingly.

3.3.10 Standard function: Scene recall / program

With the functions Scenes 1-bit, recall/program and Scenes 8-bits, recall/program it is possible for the user to reprogram a device to 1-bit scene control, scene components for 8-bit scene control or actuators with integrated 8-bit scene control, i.e. assign other brightness values or switching states to the individual groups of the respective scene without changing the project planning with the ETS.

For Scenes 1-bit, recall/program, a scene can be called up with a short push of the button and saved with a long push of the button, with a communication object serving to program a scene and a second to recall a program scene.

Calling up and saving the scenes is handled by a 1-bit switching command, in which a "0"- data telegram calls up the scene 1 and a "1"- data telegram program the scene 2.

For Scenes 8-bit, recall/program, the scene with the configured number (1..64) can be called up with a short push of the button and programed with a long push of the button.

During this, a single communication object is used to transfer both the command for saving a scene as well as the command to call up a saved scene and the number of the desired scene. The bits 0 - 5 of the 8-bit scene data telegrams determine the scene number (1 - 64) and the highest-value bit 7, whether the scene is to be called up (bit = 0) or programed (bit = 1). Bit 6 is not used.

Before saving a scene, the affected actuators with the buttons / sensors provided for the purpose have to be set to the desired brightness values or switching states. The receipt of a data telegram for saving causes the addressed scene components or actuators with integrated scene control to be requested to query the currently set brightness values and switching status of the actuators and program them in the corresponding scene.

Parameter	Settings
Description	Funktion 1
A description text for the respect characters can be entered in description is shown on the corresponding place on the main	tive page of up to 20 this input field. This he display, in the page.

Parameter	Settings		Obj	Object name	Function	Туре	Flag
Scene function	scenes 1-bit, r scenes 8-bit, scenes 8-bit, r	recall / program recall only recall / program	5	Page 1, Function 1	Scene recall, Scene 1/2	1 bit	KSÜ
This parameter is use scene is to be only a scene number, the philosophy are thu	ed to set wheth recall or recall a communication us defined, se	ner a 1 bit or an 8 bit and programed. The objects, the scene the introductory	This prog With scer	object only appea gram" was selected in h this object a 1-bit co he 1/2 with a short pu	rs if "scene the above co ommand is s sh of the but	es 1-bit onfigura ent to c ton.	, recall / tion. all up the
section 3.3.10 Sto scene.	andard functi	on: Recall/program	Obj	Object name	Function	Туре	Flag
Parameter		Settings	6	Page 1, Function 1	Scene program, Scene 1/2	1 bit	KSÜ
Object value for 1 E (0: Scene 1, 1: Scen This object only a program" was select This parameter is u	Bit scene appears if "sce ed in the above used to recall of	0 1 enes 1-bit, recall / configuration.	This prog With the	object only appea gram" was selected in h this object a 1-bit scene 1/2 with a long	rs if "scene the above co command is push of the	es 1-bit onfigura sent to button.	, recall / tion. program
with the object valu 2 is recall or program	e = 0. With obj ned.	ect value = 1, scene	5	Page 1, Function 1	Scene recall, Scene 164	1 byte	KSU
This object only ap "Scenes 8-bit, recall recall" was selected This parameter is us the range 1-64, whi	pears if "Scene / program" an in the above co sed to define t ich is recall by	s 8-bit, recall only", Id "scenes internally nfiguration. he scene number in a short push of the	With scer 5	selected in the above this object an 8-bit of the 164 with a push of Page 1, Function 1	configuratic command is s f the button. Scene recall	s-bit, re on. sent to d 1 byte	call up the KSÜ
Symbol on buttons	symbols style 1) symbols style 2) symbols symbols progran	s 1 (gen. on /off 5 2 (gen. on / off 5 51 (scene recall) 5 52 (scene recall / n)	This prog With an & if a com	c object only appea gram" was selected in n this object, if a butt 3-bit command to call button is pushed for mand to program the	program rs if "scene the above cc on is pushed up the scene or a long tim e scene 164	es 8-bit onfigura l for a s e 164 in ne, ther is sent.	, recall / tion. hort time, s sent and n an 8-bit
This parameter is us the control buttons. (see section 2.12.2 additional functions	ed to select the 2 Symbols of	s 64 e suitable symbol for the standard and	Note If "so confi displ The i on Oper scen	: cenes internally recal guration, then no ayed. Internal scenes are se the panel and pro ation and function of e programs).	l" has been communio t directly in t ogramed (se of the config	set in cation the scen ee sect guratior	the above object is e program ion 2.4.2 n page for
With this function th are available:	e following co	mmunication objects	If all the	functions 15 on all communication object	10 main pag ts 8153 ar	ges are e used	used, then identically

accordingly.

3.3.11 Standard function: Set heating operating mode

With this function the operation mode for the heating system is set. Every operation mode sets its own target value for heating.

It is possible to transmit the operation modes via three 1bit objects, one for comfort mode, one for standby mode and one for night mode.

Alternatively, the operation mode can be transmitted via a 1-byte object. In addition, the operation mode frost / heat protection can be set. Operation with or without automatic mode can be configured.

The selected operation mode is shown with a feedback symbol (see section 2.10.3 Symbols of the feedback messages of the functions).

Note:

With the room temperature thermostats UP 237, UP 252, UP 253, UP 254 (based on BCU1/2), central setting of the mode with the touch panel via 1-bit objects is not possible!

Parameter			Settings	
Description			Funktion 1	
A description text for the respective page of up to 20 characters can be entered in this input field. This description is shown on the display, in the corresponding place on the main page.			tive page of up to 20 this input field. This ne display, in the page.	
Adjustment of operation mode	Adjustment of operation mode of 1 bit objects: comfort, standby, night 1 byte object with auto mode 1 byte object without auto mode			
This parameter is used to set whether the selection of the operation mode is to be made via 1 bit objects for the settings comfort, standby and night mode or via a 1 byte object for the settings comfort, standby, night mode or frost / heat protection. In addition, the setting can be set with or without automatic mode				
Function enabled for no usage in programs scene programs schedule programs scene and schedule programs				
This object only apper auto mode" was select This parameter is us used in the scer Accordingly these fu are displayed by integrated there.	programs This object only appears if "1 byte object with/without auto mode" was selected in the above configuration. This parameter is used to set whether this function is used in the scenes and/or schedule program. Accordingly these functions in the individual programs are displayed by name and can be functionally integrated there			

With this function the following communication objects are available:

Obj	Object name	Function	Туре	Flag		
5	Page 1, Function 1	1= comfort On	1 bit	KSÜ		
This stanc confi With	This object only appears if "1 bit objects: Comfort, standby, night" was selected in the above configuration. With the comfort mode setting, the value "1" is sent via					
6	Page 1, Function 1	1= standby On	1 bit	ı. KSÜ		
This object only appears if "1 bit objects: Comfort, standby, night" was selected in the above configuration. For the night mode setting, the value "1" is sent via this 1-bit object. Standby mode is switched on						
7	Page 1, Function 1	1= night On	1 bit	KSÜ		
This stanc confi For th 1-bit	This object only appears if "1 bit objects: Comfort, standby, night" was selected in the above configuration. For the night mode setting, the value "1" is sent via this					
5	Page 1, Function 1	Heating mode, Value	1 byte	KSÜA		
This object only appears if "1 byte object with/without auto mode" was selected in the above configuration. Depending on the selected mode, the following values are sent via the 1 byte object:						
Automatic mode:Value = "0"Comfort mode:Value = "1"Standby mode:Value = "2"Night mode:Value = "3"Protection mode:Value = "4"						
<u>Note:</u> With the setting "1 byte object without auto mode", the value "0" is not sent in the 1 byte object.						

If all functions 1..5 on all 10 main pages are used, then the communication objects 8..154 for the setting "1 bit objects: Comfort, Standby, Night" or 8... 152 for the setting "1 byte object with/without auto mode" used identically accordingly.

3.3.12 Standard function: Heating fan setting

With this function the fan speed for the heating system is set. Depending on the type of fan, a selection of up to 5 speed levels are available.

These stages are transmitted as a percentage value via a 1-byte object. In addition, automatic mode can be set. This operating mode can be activated via an additional 1-bit object.

The selected fan stage is displayed via a feedback symbol (see section 2.10.3 Symbols of the feedback messages of the functions).

Parameter	Settings			
Description	Funktion 1			
A description text for the respective page of up to 20 characters can be entered in this input field. This description is shown on the display, in the corresponding place on the main page.				
Fan type 1-s 2-s 3-s 4-s 5-s	1-speed fan (0%, 100%) 2-speed fan (0%, 50%, 100%) 3-speed fan (0%, 33%,100%) 4-speed fan (0%, 25%, 100%) 5-speed fan (0%, 20%, 100%)			
This parameter is used to select the number of speeds depending on the type of fan. A certain stage is determined by the manually specified percentage value.				
Auto mode possible	No Yes			
This parameter is used to generate an additional 1-bit object. The fan is switched from manual operation to automatic mode via this object. The fan speeds are provided automatically by a controller				
Function enabled for no usage in programs scene programs scene programs scene and schedule programs programs presence simulation scenes and presence simulation scenes, schedules and presence simulation scenes, schedules and presence simulation				
This parameter is used to set whether this function is used in the scenes and/or schedule program and/or in the presence simulation. Accordingly these functions in the individual programs are displayed by name and can be functionally integrated there.				

With this function the following communication objects are available:

Obj	Object name	Function	Туре	Flag
5	Page 1, Function 1	Fan	1	KSÜ
	-	speed,	byte	
		Value		
This	object sends the c	urrent fan s	peed ir	n manual
mode	2.			
The f	ollowing applies for a	a 1-speed fan	1:	
Exha	ust off:	Value = '	"0%"	
Exha	ust on:	Value =	"100%"	
The f	ollowing applies for a	a 2-speed fan	1:	
Exha	ust off:	Value =	"0%"	
Fan s	peed 1:	Value =	"50%"	
Fan s	peed 2:	Value =	"100%"	
The f	ollowing applies for a	a 3-speed fan	1:	
Exha	ust off:	Value =	"0%" "	
Fan s	peed 1:	Value =	"33.3%"	
Fan s	Fan speed 2: Value = "66.6%"			
Fan s	peed 3:	Value =	"100%"	
Thef	ollowing applies for a	a 4-speed fan	1: "00/"	
Exhaust off: Value = " 0% "				
Fan s	Fan speed 1:Value = "25%"Value = "25%"			
Fan s	peed 2:	Value =	50% "フェッ/ "	
Fan s	peed 3:	value =	/5%	
Fan s	peed 4:	value =	100%	
The I	The following applies for a 5-speed fan:			
Exna	Exhaust off: Value = 0%			
Falls	rain speed 1. Value = 20%			
Fanc	Fail speed 2. Value = 40%			
Fang	need 4.	Value –	"80%"	
Fan s	Fan speed 5: $Value = "100\%"$			
ol '			_	-1

Obj	Object name	Function	Туре	Flag		
6	Page1, Function 1	1= Fan automatic On	1 bit	KSÜ		
This "yes" objec the v	This object only appears if "Auto mode possible" with "yes" was set in the above configuration. Via this 1-bit object, the value "1" activates the automatic mode and the value "0" deactivates it (manual mode).					

If all functions 1..5 on all 10 main pages are used, then the communication objects 8..153 in case of automatic mode or 8... 152 without automatic mode are used identically accordingly.

3.3.13 Standard function: Status display 1-bit

With this function, status messages of 1-bit objects can be displayed. It is possible to show these switching states as value "0" or "1" or with application-specific symbols (see section 2.10.3 Symbols of the feedback messages of the functions). This makes it possible, for example, to visualise the state of window and doors. All kinds of digital states can be shown clearly by using the symbol library.

Parameter	Settings
Description	Funktion 1
A description text for the respect characters can be entered in description is shown on the corresponding place on the main	tive page of up to 20 this input field. This he display, in the page.
Status feedback by	value (0/1)

This parameter is used to set the feedback message. With the parameter "value (0/1)", the value of the 1-bit object is displayed directly. With the parameter

"symbol", the respective value of the object is reflected by two different symbols.

Parameter	Settings		
Symbol	symbols 1 (gen. on / off style 1) symbols 2 (gen. on / off style 2)		
	 symbols 64		
I symbols 64 This parameter only appears if in the above configuration "Status feedback by" was set to "Symbol". This parameter is used to select the suitable symbol for the feedback message. (see section 2.10.3 Symbols of the feedback messages of the functions)			

With this function the following communication objects are available:

Obj	Object name	Function	Туре	Flag
5	Page 1, Function 1	Status, On / Off	1 bit	KSÜA
A value of "0" or "1" is received by this 1-bit object. This status is shown directly or via a symbol.				

If all functions 1..5 on all 10 main pages are used, then the communication objects 8..152 are used identically accordingly.

3.3.14 Standard function: Status display 1-byte

With this function, status messages of 1-byte objects can be displayed. These feedback messages can be displayed as whole numbers in the range 0...255 or as a percentage value in the range 0...100%. This makes it possible, for example, to visualise the brightness value of a dimmer or the number of revolutions of an exhaust fan.

Parameter	Settings
Description	Funktion 1
A description text for the respect characters can be entered in description is shown on the corresponding place on the main	tive page of up to 20 this input field. This he display, in the page.

Parameter	Settings
Status feedback by	percentage value (0100%) value absolute (0255)
This parameter is used With the parameter "pe value of the 1-byte objec value from 0 to 100% absolute (0255)", the displayed as a whole nur	to set the feedback message. rcentage value (0100%)", the ct is displayed as a proportional 6. With the parameter "value value of the 1-byte object is mber from 0 to 255.

With this function the following communication objects are available:

Obj	Object name	Function	Туре	Flag
5	Page 1, Function 1	Status, Value	1 byte	KSÜA
A value between "0100%" or between "0255" is received as a status by this 1-byte object.				

If all functions 1..5 on all 10 main pages are used, then the communication objects 8..152 are used identically accordingly.

3.3.15 Standard function: Status display 2-byte

With this function 2 byte floating-point numbers can be displayed as status messages. The number the decimal places can be configured for the presentation. The unit for this value can be selected. This is shown after the numerical value. This makes it possible, for example, to visualise outside temperature in °C, wind velocity in m/s or outside brightness in lux.

Parameter	Settings
Description	Funktion 1
A description text for the respec	tive page of up to 20

characters can be entered in this input field. This description is shown on the display, in the corresponding place on the main page.

Farameter	Settings			
Unit	no unit (float value)			
	no unit (counter value)			
	°C			
	°F			
	hPa			
	Pa kW			
	W/m ²			
	m/s			
	km/h			
	lx			
	% Humidity			
	S			
	A			
	V			
that is shown behind the message. If "no unit (f pure floating point value unit (counter value)" is value, without unit, is Datapoint types are ava Temperature in °C, Temperature in °C, Temperature in °F, Pressure in hPa, Pressure in hPa, Pressure in hPa, Power in kW, Electromagn. radiation is Speed in m/s, Speed in m/s, Speed in km/h, Brightness in lx, Humidity in %, Time in s, Current in A, Voltage in V,	ne numerical value in the status loat value)" is selected, then a e, without unit, is shown. If "no selected, then a pure counter shown. The following units or ilable for selection: ID: 9.001 (converted from °C) (converted from °C) (converted from Pa) ID: 9.006 ID: 9.024 in W/m ² , ID: 9.022 ID: 9.005 (converted from m/s) ID: 9.004 ID: 9.007 ID: 9.010 (converted from mA) (converted from mV)			
Decimal places	0			
	1			
nus parameter is used	to set the number of decimal			

With this function the following communication objects are available:

Obj	Object name	Function	Туре	Flag
5	Page 1, Function 1	Status, Value	2 byte	KSÜA
The floating-point value is received as status by this 2- byte object.				

If all functions 1..5 on all 10 main pages are used, then the communication objects 8..152 are used identically accordingly.

3.3.16 Standard function: Status display 4 byte

With this function 4 byte floating-point numbers can be displayed as status messages. The number of decimal places can be configured for the presentation. The unit for this value can be selected. This is shown after the numerical value. This makes it possible, for example, to visualise the electrical energy or electrical output of an energy counter.

Parameter	Settings	
Description	Funktion 1	
A description text for the respective page of up to 20		
characters can be entered in this input field. This		
description is shown on th	ne display, in the	
corresponding place on the main page.		

Parameter	Settings
Unit	no unit (float value) no unit (counter value) °C °F hPa Pa kWh (input value in J) kWh (input value in Wh) kW m ³ Hz
HzThis parameter is used to set the corresponding unit that is shown behind the numerical value in the statu message. If "no unit (float value)" is selected, then a pure floating point value, without unit, is shown. If "no unit (counter value)" is selected, then a pure counter value, without unit, is shown. The following units of Datapoint types are available for selection: Temperature in °C, Temperature in °C, Pressure in hPa, Pressure in hPa, Pressure in Pa, Energy in kWh, Energy in kWh, Converted from Wh Power in kW, Volume in m³ID: 14.076 ID: 14.033	
Decimal places	0 1 2
This parameter is used to set the number of decimal places to be shown after the comma.	

With this function the following communication objects are available:

Obj	Object name	Function	Туре	Flag
5	Page 1, Function 1	Status, Value	4 byte	KSÜA
The f	The floating-point value is received as status by this 4- byte object.			

If all functions 1..5 on all 10 main pages are used, then the communication objects 8..152 are used identically accordingly.

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3.4 Communication objects and parameters of the additional functions 1 to 60

In addition to the previously described 50 standard functions, 60 additional functions can be defined. These additional functions can be shown on a detail page that is subordinate to the main page (see section 2.3 *Operation and function of the detail pages*).

The max. 60 additional functions can be distributed on up to 10 detail pages. For example, all 60 additional functions can be arranged on a detail page. Ideally, an allocation of 6 additional functions to one detail page is provided.

In contrast to the standard functions, only one communication object is available for each additional function. Additional functions therefore have a limited functionality as compared to standard functions.

The additional function is selected via a parameter.

If the parameter setting "Additional functions 1..6" or "Additional functions 7..12" to "Additional functions 50..60)" is selected on the left side, the following view will appear accordingly (see figure 33).

	Additional functions 16
1st function	no function
Description	Funktion 1
Detail page of additional function is activated on main page	1
Position of button on main page that is activating detail page	2
2nd function	no function
Description	Funktion 2
Detail page of additional function is activated on main page	1
Position of button on main page that is activating detail page	2
3rd function	no function
Description	Funktion 3
Detail page of additional function is activated on main page	1
Position of button on main page that is activating detail page	2
4th function	no function
Description	Funktion 4
Detail page of additional function is activated on main page	1
Position of button on main page that is activating detail page	2
5th function	no function
Description	Funktion 5
Detail page of additional function is activated on main page	1
Position of button on main page that is activating detail page	2
6th function	no function
Description	Funktion 6
Detail page of additional function is activated on main page	1
Position of button on main page that is activating detail page	2

Fig. 33: Parameter window "Additional functions 1...6"

Parameter	Settings
Parameter 1st function 2nd function 3rd function 4th function 5th function 6th function	Settings no function text switching forced control (2 bit) set value 1 byte set temperatures(2 byte) set value counter
	scene recall / program adjust heating mode adjust fan speed status display 1 bit status display 1 byte status display 2 byte

This parameter is used to select the additional function. The setting "no function" does not generate a blank line on the detail page. With the setting "text", a description text, without function, can be generated on the detail page in the appropriate line.

(see section 2.3 Operation and function of the detail pages)

Depending on the selected additional function, up to 5 subparameters are offered in each ETS parameter window respectively. Every additional function contains a communication object.

In detail, the following subparameters and communication objects are present for the respective functions:

3.4.1 Additionl function: no function

This function makes it possible to set up a detail page without additional functions. This option ensures that no function is already used in the standard setting.

When selecting this function, the following parameters are shown.

Parameter	Settings
Description	Funktion 1
A description text for the respect characters can be entered in description text is not shown on for internal description within the	tive screen of up to 20 this input field. This the display. It is used ETS.

Parameter	Settings	
Detail page of additional function is activated on main page	1 10	
With this input field, the main page from which the subordinate detail page is opened is selected. The additional function is shown on this detail page.		
Position of button on main page that is activating detail page	1, 2 6	
With this input field, one of the 6 additional buttons in the footer of the respective main page from which the subordinate detail page is opened is selected. The additional function is shown on this detail page.		

No communication objects are generated by this function.

3.4.2 Additional function: Text only

This function serves to structure the detail page composition. On the detail page, a description text can be shown.

When selecting this function, the following parameters are shown.

Parameter	Settings	
Description	Funktion 1	
A description text for the respective page of up to 20 characters can be entered in this input field. This description text is shown on the display. The description text appears on the display in the place after the last configured KNX function. If "text" was set for the previous functions on the detail page, then the description appears at the top of the page.		
Detail page of additional function is activated on main page	1 10	

With this input field, the main page from which the subordinate detail page is opened is selected. The additional function is shown on this detail page.

Parameter	Settings	
Position of button on main page that is activating detail page	1, 2 6	
With this input field, one of the 6 additional buttons in the footer of the respective main page from which the subordinate detail page is opened is selected. The additional function is shown on this detail page.		

No communication objects are generated by this function.

3.4.3 Additional function: Switching

With this function, switching functions with one button or two buttons can be realised. By pushing a button, the corresponding command message (ON/OFF/Toggle) is sent immediately.

Parameter	Settings	
Description	Funktion 1	
A description text for the respective page of up to 20 characters can be entered in this input field. This description is shown on the display, in the corresponding place on the detail page.		
Button type	On/Off Off / On Off Toggle	
This parameter is used to define the switching direction of the button and the button type. The button type "On / Off" is used to switch ON and OFF with two corresponding buttons. The button type "Off / On" is used to switch OFF and ON with two corresponding buttons. The button type "On" is used to switch ON with a broad button		
The button type "Off" is used to switch OFF with a broad button. The button type "Toggle" is used to switch Toggle with a broad button		

Parameter	Settings	
Status feedback	no status status by symbol	
This parameter is used to set the feedback message. With the parameter "status by symbol", the value of the switching object is evaluated and this condition is displayed via the selected symbol. With the parameter "no status", no feedback value is displayed.		
Symbol on buttons	symbols 1 (gen. on / off style 1) symbols 2 (gen. on / off style 2) symbols 4 (light style 1) symbols 64	
This parameter is used to select the suitable symbol for the control buttons. (see section 2.10.2 Symbols of the standard and additional functions)		
Symbols of status feedback	symbols 1 (general on / off style 1) symbols 2 (general on / off style 2) symbols 4 (light style 1) symbols 64	
This parameter only appears if "status by symbol" was selected in the above configuration. This parameter is used to select the suitable symbol for the feedback message. (see section 2.10.3 Symbols of the feedback messages of the functions)		

Parameter	Settings	
Parameter Settings Function enabled for no usage in programs scenes schedules logic programs and scenes scenes and schedules logic programs and scenes logic programs and scenes presence simulation scenes and presence simulati schedules and presence simulation scenes, schedules and presence simulation logic and presence simulation scenes, logic and presence simulation scenes, logic and presence simulation scenes, schedules, logic, presence simulation This parameter is used to set whether this function used in the scenes and/or schedule program and/or in presence simulation and/or in the logic funct Accordingly these functions in the individual prog		
Detail page of additional function is activated on main page	1 10	
With this input field, the main page from which the subordinate detail page is opened is selected. The additional function is shown on this detail page.		
Position of button on main page that is activating detail page	1,26	
Wih this input field, one of the 6 additional buttons in the footer of the respective main page from which the subordinate detail page is opened is selected. The additional function is shown on this detail page.		

With this function the following communication objects are available:

Obj	Object name	Function	Туре	Flag	
155	Additional	Switch,	1 bit	KSÜA	
	function 1	On / Off			
With this object a 1-bit switching data telegram is sent when a button is pushed.					

If all additional functions 1..60 are used, then the communication objects 156..214 are used accordingly identically.

3.4.4 Additional function: Switching with forced control

This function can switch forced control ON and forced control OFF as well as deactivate the forced control. The appropriate command (forced control ON or forced control OFF) is sent immediately after a short push of the buttons. After a long push of the button, a command to deactivate the forced control is sent.

Actuators with forced control input permit an overregulation of certain actuator outputs by central control interventions. For example, in energy saving or night mode the switching on of specific lights or loads can be compulsorily prevented. The panel makes manual activation of the forced control or the deactivation of an automatically activated forced control possible.

Parameter	Settings
Description	Funktion 1
A description text for the respect characters can be entered in description is shown on the corresponding place on the detai	tive page of up to 20 this input field. This ne display, in the page.

Parameter		Settings		
Type of buttons		On / Off		
		Off / On		
This parameter is used to c of the button.	lefine t	he switching direction		
In the button direction "O	n / Off	", a short push of the		
left button triggers the fun	iction f	orced control ON.		
In the button direction "O	n / Off	", a short push of the		
In the button direction "O		a short push of the		
left button triggers the fun	iction f	orced control OFF.		
In the button direction "O	FF / ON	N", a short push of the		
right button triggers the fu	inction	forced control.		
A long push of the buttor	1 (> 2 s	sec.) of the left or the		
right button triggers the	deact	ivation of the forced		
	a) (ma la	ola 1 (aon an I aff		
Symbols on buttons	style	1)		
	symb	ols 2 (gen. on / off		
	style 2)			
This and the state of the second second	symp	015 64		
the control buttons	select t	ne suitable symbol for		
(see section 2.10.2 Svm	nbols d	of the standard and		
additional functions)				
Function enabled for	no us	age in programs		
	scene	programs		
	sched	ules programs		
	progr	and schedule		
	prese	nce simulation		
	scene	s and presence		
	simul	ation		
	sched	ules and presence		
simulation scenes schedules and				
presence simulation				
This parameter is used to	set w	nether this function is		
used in the scenes and/or schedule program and/or in				
the presence simulation. Accordingly these functions in				
the individual programs are displayed by name and can be functionally integrated there				
be functionally integrated there.				

Parameter	Settings			
Detail page of additional function is activated on main page	110			
With this input field, the main page from which the subordinate detail page is opened is selected. The additional function is shown on this detail page.				
Position of button on main 1,26 page that is activating detail page				
With this input field, one of the 6 additional buttons in the footer of the respective main page from which the subordinate detail page is opened is selected. The additional function is shown on this detail page.				

With this function the following communication objects are available:

Obj	Object name	Function	Туре	Flag
155	Additional function 1	Forced control, On / Off	2 bits	KSÜA

With this object, a short push of the button sends a 2bit switching data telegram with the values "2" (forced control OFF) or "3" (forced control ON) . With a long push of the button (>2 sec.), a 2-bit switching data telegram with the value "0" (forced control deactivated) is sent.

If all additional functions 1..60 are used, then the communication objects 156..214 are used accordingly identically.

3.4.5 Additional function: Set value 1 byte

This function serves to send fixed or variable 8-bit values in the range 0...100%.

A button can be assigned its own 8-bit value for example to dim the associated lights to a configured value or to set the speed of an exhaust fan with a push of a button.

When sending changeable 8-bits values via two buttons, the value is changed upward or downward incrementally. The increment is configured. With the left button, the temperature level is lowered incrementally. With the right button, the value is increased incrementally. Only with each new push of the button, the value to be sent is increased or lowered.

Parameter	Settings	Parameter Settings				
Description A description text for the respe- characters can be entered in description is shown on corresponding place on the deta	Funktion 1 ctive page of up to 20 this input field. This the display, in the il page.	Fun	ction enabled for	no usage scene prog schedules scene and programs	in prog i jrams progran schedul	r ams ns e
Function of buttons send constraints This parameter is used to set was incrementally changeable variations send constraints Step size on button press send constraints	This	This parameter is used to set whether this function				
	25% 33% 50%	the the be f	presence simulation. individual programs a unctionally integrated	Accordingly t are displayed d there.	these fu by nam	nctions in e and can
This object only appears if "vaselected in the above configurat This parameter is used to set t the value to be sent is reduced button or by which the value with a push of the right button.	Det add acti With sub	Detail page of additional function is activated on main page110With this input field, the subordinate detail page is opened is selected. The				
Constant value on button pres	s 0 100	add	itional function is sho	wn on this de	etail pag	e.
This object only appears if in t "send constant value" was select This parameter is used to assig This is sent via a push of the but	he above configuration ed. n a fixed 8-byte value. ton.	Pos mai acti Witl	n page that is vating detail page this input field, one	of the 6 add	itional I	outtons in
Status feedback no statu status v	s alue (0100%)	sub add	rooter of the respect ordinate detail page itional function is sho	ive main pag is opened wn on this de	e from is sele etail pac	cted. The
This parameter is used to set With the parameter "status valu value between 0100% is show parameter "no status", no feedb	the feedback message. ue (0100%)", the sent n as feedback. With the ack value is shown.	With are a	this function the follo vailable:	owing comm	unicatio	n objects
		Obj	Object name	Function	Туре	Flag
		155	Additional Function 1	Set value, Value	1 byte	KSÜA
		With or a but	n this object, a fixed a n incrementally chan tons.	8-bit value is ged 8-bit val	sent via ue is sei	a button nt via two
		lf al com	l additional function munication objects	ns 160 are 156214 are	used, used	then the identically

accordingly.

3.4.6 Additional function: Set temperature (2 byte)

This function serves to send fixed or variable 2-byte floating-point values for temperatures in the range of +/- 3 steps by 0°C, -5..50°C, 0..150°C.

A button can be assigned its own 2-byte temperature value, e.g. to set the target temperature to a configured value with a push of a button. When sending changeable 2-bit values via two buttons, the value is changed upward or downward incrementally. The increment is configured. With the left button, the temperature level is lowered incrementally. With the right button, the temperature level is increased incrementally. Only with each new push of the button is the temperature level to be sent increased or lowered.

Parameter	Settings			
Description	Funktion 1			
A description text for the respective page of up to 20 characters can be entered in this input field. This description is shown on the display, in the corresponding place on the detail page.				
Function of buttons send constant value value variable +/-3 steps value variable -550°C value variable 0150°C				
This parameter is used to set whether a fixed temperature value or an incrementally changeable temperature value in a set temperature range is to be sent. <u>Note:</u> The setting "value variable +/- 3 steps" means 3				
switching steps, in the set increment, around 0°C.				
step size	step 7°C step 3°C step 5°C step 10°C step 15°C			
This object only appears if "value variable +/- 3 steps", "value variable -550°C" or "value variable 0150°C" was selected in the above configuration. This parameter is used to set the increment by which the temperature value to be sent is reduced with a push of the left button or by which the temperature value to be sent is increased with a push of the right button.				

Parameter		Settings	
Constant value on button	1	-5°C	
press		-4°C	
		 0°C	
		 20°C	
		 150°C	
This object only appears i selected in the above confi	f "senc guratic	d constant value" was on.	
This parameter is used to a	assign	a fixed 2-byte floating	
point value for temperatur	es. Thi	s temperature value is	
sent via a push of the butto	on.		
Status feedback no stat	us value ((temperature)	
This parameter is used to set the feedback message With the parameter "status value (temperature)", t sent value between -5°C 150°C is shown as feedback With the parameter "no status", no feedback value displayed.			
Function enabled for no usage in programs			
	scene	ule programs	
scene		e and schedule	
	progra	rams	
	preser	ence simulation	
	simula	ation	
	sched	fule programs and	
	preser	nce simulation	
	scene	s, schedule programs	
This parameter is used to set whether this function is used in the scenes and/or schedule program and/or in the presence simulation. Accordingly these functions in the individual programs are displayed by name and can			
Defunctionally integrated	mere.	1 10	
function is activated on n	nain	110	
With this input field the	main c	crean from which the	
subordinate detail screen is opened is selected. The auxiliary function is shown on this detail screen.			

Parameter	Settings	
Position of button on main page that is activating detail page	1, 2 6	
With this input field, one of the 6 additional buttons in the footer of the respective main screen from which the subordinate detail screen is opened is selected. The additional function is shown on this detail screen.		

With this function the following communication objects are available:

Obj	Object name	Function	Туре	Flag		
155	Additional function 1	Temperat ure, Value	2 byte	KSÜA		
With temp chang sent	With this object, a fixed 2-byte floating-point value for temperatures is sent via a button or an incrementally changed 2-byte floating-point value for temperatures is sent via two buttons.					

If all additional functions 1..60 are used, then the communication objects 156..214 are used identically accordingly.

3.4.7 Additional function: Set value counter

This function serves to send fixed 1 byte or 2 byte counter values.

A button can be assigned its own counter value, e.g. to reset a counter to a defined basic value with a push of a button.

Parameter	Settings		
Description	Funktion 1		
A description text for the respective page of up to characters can be entered in this input field. T description is shown on the display, in t corresponding place on the detail page.			
Function of buttons send constant value 1 send constant value 2 b send constant value 2 b			
This parameter is used to set in which data format the fixed counter value is to be sent.			

Parameter		Settings		
Constant value on buttor	press	0 255		
This object only appears if "send constant value 1 byte" was selected in the above configuration. This parameter is used to assign a fixed 1-byte counter value in the range 0255. This counter value is sent via a push of the button				
Constant value x100 on b	utton	0 100		
press				
This object only appears if "send constant value 2 byte" was selected in the above configuration. This parameter is used to assign a fixed 2-byte counter value in the range 010000. The entered counter values are multiplied by 100 automatically. This counter value is sent via a push of the button.				
counter values can not be	set.			
Function enabled for no usage in programs scene programs schedule programs scene and schedule programs presence simulation scenes and presence simulation schedule programs and presence simulation scenes, schedule programs and presence simulation				
This parameter is used to set whether this function is used in the scenes and/or schedule program and/or in the presence simulation. Accordingly these functions in the individual programs are displayed by name and can be functionally integrated there.				
Detail page of additional function is activated on n page	nain	110		
With this input field, the main page from which the subordinate detail page is opened is selected. The additional function is shown on this detail page.				

Parameter	Settings	
Position of button on main page that is activating detail page	1, 2 6	
With this input field, one of the 6 additional buttons in the footer of the respective main page from which the		

subordinate detail page is opened is selected. The additional function is shown on this detail page.

With this function the following communication objects are available:

Obj	Object name	Function	Туре	Flag	
155	Additional	Set value,	1 huta	KSÜA	
	function 1	Value	byte		
This o was s	This object only appears if "send constant value 1 byte" was selected in the above configuration.				
With	this object a fixed 1-	byte counter	^r value i	s sent via	
a but	ton.	-			
155	Additional	Set value,	2	KSÜA	
	function 1	Value	byte		
This object only appears if "send constant value 2 byte"					
was selected in the above configuration.					
With this object a fixed 2-byte counter value is sent via					
a button.					

If all additional functions 1..60 are used, then the communication objects 156..214 are used identically accordingly.

3.4.8 Additional function: Scene recall / program

With the functions Scenes 8-bit, recall/program it is possible for the user to reprogram scene components for 8-bit scene control or actuators with integrated 8-bit scene control, i.e. assign other brightness values or switching states to the individual groups of the respective scene without changing the project planning with the ETS.

With Scenes 8-bit, recall/program, the scene with the configured number (1... 64) can be called up with a short push of the button and saved with a long push of the button.

Both the command to program a scene and the command to call up a saved scene and the number of the desired scene are transferred using a single communication object. The bits 0 - 5 of the 8-bit scene data telegrams determine the scene number (1 - 64) and the highest-value bit 7,

whether the scene is to be called up (bit = 0) or programed (bit = 1). Bit 6 is not used.

Before saving a scene, the affected actuators with the buttons *l* sensors provided for the purpose have to be set to the desired brightness values or switching states. The reception of a data telegram to save results in the addressed scene controllers or actuators with integrated scene control being requested to query the currently set brightness values and switching states from the actuators and to program them in the corresponding scene.

Parameter		Settings		
Description		Funktion 1		
A description text for characters can be description is sho corresponding place	A description text for the respective page of up to 20 characters can be entered in this input field. This description is shown on the display, in the corresponding place on the detail page			
Scene function	Scene function scenes 8-bit, recall only scenes 8-bit, recall / program scenes internally recall			
This parameter is used to set whether an 8-bit scene is to be only recall or recall and programed. The scene number, the communication objects, the scene philosophy are thus defined, see the introductory section 3.4.8 Additional function: Scene recall/program.				
Scene number 164				
(Scene 164)				
This parameter is used to define the scene number in the range 1-64, which is recall with a short push of the button programed with a long push of the button.				
Symbol on buttons Symbols 1 (gen. on / off style 1) symbols 2 (gen. on / off style 2) symbols 51 (scene recall) symbols 52 (scene recall /				
symbols 64				
This parameter is used to select the suitable symbol for the control buttons. (see section 2.10.2 Symbols of the standard and additional functions)				

Parameter	Settings
Detail page of additional function is activated on main page	110
With this input field, the main page from which the subordinate detail page is opened is selected. The additional function is shown on this detail page.	
Position of button on main 1,26 page that is activating detail page	
With this input field, one of the 6 additional buttons in the footer of the respective main page from which the subordinate detail page is opened is selected. The additional function is shown on this detail page.	

With this function the following communication objects are available:

Obj	Object name	Function	Туре	Flag
155	Additional function 1	Scene recall, Scene 164	1 byte	KSÜ

This object only appears if "scenes 8-bit, recall only" was selected in the above configuration.

With this object an 8-bit command is sent to call up the scene 1..64 with a push of the button.

155	Additional	Scene	1	KSÜ
	function 1	recall /	byte	
		program		
This	بالمتعادية المتعادية		- 0 h.i.	II <i>I</i>

This object only appears if "scenes 8-bits recall / program" was selected in the above configuration. With this object, if a button is pushed for a short time, an 8-bit command to call up the scene 1..64 is sent and if a button is pushed for a long time, then an 8-bit command to program the scene 1..64 is sent.

Note:

If "scenes internally recall" was selected in the above configuration, then no communication object is displayed.

The internal scenes are set directly in the scene program on the panel and programed (see section 2.4.2 Operation and function of the configuration page for scene programs).

If all additional functions 1..60 are used, then the communication objects 156..214 are used identically accordingly.

3.4.9 Additional function: Set heating operating mode

With this function, the operation mode for the heating system is set. Every operating mode establishes a separate target value for heating.

It is possible to transmit the operating modes via a 1-byte object. The operation modes comfort mode, standby mode, night mode and frost / heat protection can be set. The operation can be configured with or without automatic mode.

The selected operation mode is displayed via a feedback symbol (see section 2.10.3 Symbols of the feedback messages of the functions).

Note:

With the room temperature thermostats UP 237, UP 252, UP 253, UP 254 (based on BCU1/2), central setting of the mode with the touch panel via 1-bit objects is not possible!

Parameter			Settings
Description		Funktion 1	
A description text characters can be description is s corresponding place	for the resp e entered i hown on ce on the de	n tl tai	tive page of up to 20 this input field. This he display, in the I page.
Adjustment of operation mode	1 byte obj 1 byte obje	ect	t with auto mode without auto mode
This parameter is used to set whether the selection of the operation modes comfort mode, standby mode, night mode or frost / heat protection are to be set with or without automatic mode.			nether the selection of node, standby mode, tion are to be set with
Function enabled for no us scene sched progr		us ne ed ne	age in programs programs lule programs and schedule ams
This parameter is used to set whether this function is used in the scenes and/or schedule program. Accordingly these functions in the individual programs are displayed by name and can be functionally integrated there.			
Detail page of add function is activat page	litional ed on main		1 10
With this input field, the main page from which the subordinate detail page is opened is selected. The additional function is shown on this detail page.			

Parameter	Settings	
Position of button on main page that is activating detail page	1, 2 6	
With this input field, one of the 6 additional buttons in the footer of the respective main page from which the subordinate detail page is opened is selected. The additional function is shown on this detail page.		

With this function the following communication objects are available:

Obj	Object name	Function	Туре	Flag
155	Additional function 1	Heating mode, Value	1 byte	KSÜA
This object only appears if "1 byte object with/withou auto mode" was selected in the above configuration. Depending on the selected mode, the following value are sent via the 1-byte object:				h/without ration. ing values
Auto	omatic mode: Value = "0"			
Comfort mode: Value = "1"				
Stand	Standby mode: Value = "2"			
Night	Night mode: Value = "3"			
Protection mode: Value = "4"				
<u>Note</u> With	<u>Note:</u> With the setting "1 byte object without auto mode", the			

value "0" is not sent in the 1 byte object.

If all additional functions 1..60 are used, then the communication objects 156..214 are used identically accordingly.

3.4.10 Additional function: Heating fan setting

With this function, the operation mode for the heating system is set. Depending on the fan type, a selection of up to 5 fan speed levels is available.

These stages are transmitted incrementally via a 1-byte object.

The selected fan stage is displayed via a feedback symbol (see section 2.10.3 Symbols of the feedback messages of the functions)

Parameter			Settings
Description		Funktion 1	
A description text for characters can be description is sho corresponding place	or the entere own on the	respec ed in on tl e detai	tive page of up to 20 this input field. This he display, in the l page.
Fan type	1-spe 2-spe 3-spe 5-spe 5-spe	eed fan eed fan eed fan eed fan eed fan	(0%, 100%) (0%, 50%, 100%) n (0%, 33%, 100%) (0%, 25%, 100%) (0%, 20%, 100%)
Depending on the f selected via this par with the manual spe	an typ amete cificati	e, the er. A e ion of a	e number of speeds is certain stage is preset a percentage value.
Function enabled for no u scen sche scen		no us scene sched scene progr	age in programs programs lule programs and schedule ams
This parameter is us used in the sce Accordingly these fu are displayed by integrated there.	This parameter is used to set whether this function is used in the scene and/or schedule program. Accordingly these functions in the individual programs are displayed by name and can be functionally integrated there		
Detail page of addit function is activated	Detail page of additional110function is activated on main		1 10
page With this input field, the main page from which the subordinate detail page is opened is selected. The additional function is shown on this detail page.		page from which the med is selected. The his detail page.	
Position of button on main page that is activating detail page		n tail	1, 2 6
With this input field, one of the 6 additional buttons in the footer of the respective main page from which the subordinate detail page is opened is selected. The additional function is shown on this detail page.			

With this function the following communication objects are available:

Obj	Object name	Function	Туре	Flag	
155	Additional	Fan	1	KSÜ	
	function 1	speed,	byte		
		Value			
This o	object sends the curre	ent fan speed	ł.		
The f	ollowing applies for a	a 1-speed far	:		
Exha	ust off:	Value =	"0%"		
Exha	ust on:	Value =	"100%"		
The f	ollowing applies for a	a 2-speed fan	:		
Exha	ust off:	Value = '	"0%"		
Fan s	peed 1:	Value =	"50%"		
Fan s	peed 2:	Value =	"100%"		
The f	ollowing applies for a	a 3-speed far	:		
Exha	ust off:	Value = '	"0%"		
Fan s	an speed 1: Value = "33.3%"				
Fan speed 2: Value = "66.6%"					
Fan speed 3: Value = "100%"					
The following applies for a 4-speed fan:					
Exha	ust off:	Value = '	"0%"		
Fan s	peed 1:	Value =	"25%"		
Fan s	Fan speed 2: Value = "50%"				
Fan s	an speed 3: Value = "75%"				
Fan s	Fan speed 4: Value = "100%"				
The following applies for a 5-speed fan:					
Exha	ust off:	Value = '	"0%"		
Fan s	peed 1:	Value =	"20%"		
Fan s	peed 2:	Value =	"40%"		
Fan s	peed 3:	Value =	"60%"		
Fan s	peed 4:	Value = "80%"			
Fan s	peed 5:	Value = "100%"			

If all additional functions 1..60 are used, then the communication objects 156..214 are used identically accordingly.

3.4.11 Additional function: Status display 1-bit

With this function, status messages of 1-bit objects can be displayed. It is possible to show these switching states as value "0" or "1" or with application-specific symbols (see section 2.10.3 Symbols of the feedback messages of the functions). This makes it possible, for example, to visualise the state of window and doors. All kinds of digital states can be shown clearly by using the symbol library.

In addition, it is possible to show these status messages as alarm messages. The 1-bit objects are displayed on the chronological alarm list with current time stamp. See section 2.5 Operation and function of the alarm page. An alarm symbol cannot be selected for these alarms. An alarm sound can also not be activated. These alarm messages are always displayed with the symbol 1 (General alarm).

Parameter	Settings		
Description	Funktion 1		
A description text for the characters can be enter description is shown corresponding place on th	respective page of up to 20 ed in this input field. This on the display, in the re detail page.		
Status feedback by s	ack by value (0/1) symbol		
This parameter is used to With the parameter "value object is displayed dir "symbol", the respective va by two different symbols.	o set the feedback message. e (0/1)", the value of the 1-bit ectly. With the parameter alue of the objects is reflected		
Symbol	symbols 1 (gen. on / off		
-	style 1)		
	symbols 2 (gen. on / off		
	style 2)		
	 symbols 64		
This parameter only appears if "Status feedback by" was set to "symbol" in the above configuration. This parameter is used to select the suitable symbol for the feedback message. (see section 2.10.3 Symbols of the feedback messages of the functions)			
Parameter	Settings		
Function enabled for	no usage in programs usage as additional alarm usage in logic programs usage as alarm and in logic		
This parameter is used to set whether this function i			
used as alarm and/or logic function. Accordingly thes functions in the individual programs are displayed b name and can be functionally integrated there.			
Detail page of additional function is activated on main page	1 10		

With this input field, the main page from which the subordinate detail page is opened is selected. The additional function is shown on this detail page.

Parameter	Settings		
Position of button on main page that is activating detail page	1, 2 6		
With this input field, one of the 6 additional buttons in the footer of the respective main page from which the subordinate detail page is opened is selected. The additional function is shown on this detail page.			

With this function the following communication objects are available:

Obj	Object name	Function	Туре	Flag	
155	Additional function 1	Status, On / Off	1 bit	KSÜA	
A value of "0" or "1" is received by this 1-bit object. This status is shown directly or via a symbol.					

If all additional functions 1..60 are used, then the communication objects 156..214 are used identically accordingly.

3.4.12 Additional function: Status display 1-byte

With this function, status messages of 1-byte objects can be displayed. These feedback messages can be displayed as whole numbers in the range 0...255 or as a percentage value in the range 0..100%. This makes it possible, for example, to visualise the brightness value of a dimmer or the number of revolutions of an exhaust fan.

Parameter		Settings	
Description		Funktion 1	
A description text for the respective page of up to 20 characters can be entered in this input field. This description is shown on the display, in the corresponding place on the detail page.			
Status feedback by percentage (0100%) value absolute (0255)		a ge (0100%) solute (0255)	
This parameter is used to set the feedback message. With the parameter "percentage (0100%)", the value of the 1-byte object is displayed as a percentage value from 0 to 100%. With the parameter "value absolute (0255)" the value of the 1-byte of the object is displayed as a whole number from 0 to 255.			

Parameter	Settings		
Detail page of additional function is activated on main page	1 10		
With this input field, the main page from which the subordinate detail page is opened is selected. The additional function is shown on this detail page.			
Position of button on main page that is activating detail page	1, 2 6		
With this input field, one of the 6 additional buttons in the footer of the respective main page from which the subordinate detail page is opened is selected. The additional function is shown on this detail page.			

With this function the following communication objects are available:

Obj	Object name	Function	Туре	Flag	
155	Additional	Status,	1 byta	KSÜA	
	function I	value	byte		
The value between "0100%" or between "0255" as status is received as status via this 1-byte object.					

If all additional functions 1..60 are used, then the communication objects 156..214 are used identically accordingly.

3.4.13 Additional function: Status display 2-byte

With this function 2 byte floating-point numbers can be displayed as status messages. The number of decimal places can be configured for the presentation. The unit for this value can be selected. This is shown after the numerical value. This makes it possible, for example, to visualise outside temperature in °C, wind velocity in m/s or outside brightness in lux.

Parameter	Settings		
Description	Funktion 1		
A description text for the respective page of up to 20 characters can be entered in this input field. This description is shown on the display, in the			

Daramatar	Sattings		
	Setungs		
Unit	no unit (float value)		
	E		
	hPa		
	Pa		
	kW		
	W/m ²		
	m/s		
	km/h		
	lx		
	% Humidity		
	s		
	A		
that is shown behind th	a numerical value in the status		
message With the sele	ection "no unit(float value)" a		
pure floating point valu	ie without unit is shown. With		
the selection "no unit (counter value)", a pure counter		
value without unit is s	hown. The following units or		
Datapoint types are avai	lable for selection:		
Temperature in °C,	ID: 9.001		
Temperature in °F,	(converted from °C)		
Pressure in hPa,	(converted from Pa)		
Pressure in Pa,	ID: 9.006		
Power in kW,	ID: 9.024		
Electromagn. radiation i	n W/m ², ID: 9.022		
Speed in m/s,	ID: 9.005		
Speed in km/h,	(converted from m/s)		
Brightness in lx,	ID: 9.004		
Humidity in %,	ID: 9.007		
Time in s,	ID: 9.010		
Current in A,	(converted from mA)		
Voltage in V,	(converted from mV)		

2 This parameter is used to set the number of decimal places to be shown after the comma.

0 1

With this function the following communication objects are available:

Obj	Object name	Function	Туре	Flag	
155	Additional function 1	Status, Value	2 byte	KSÜA	
The floating-point value is received as status by this 2- byte object.					

If all additional functions 1..60 are used, then the communication objects 156..214 are used identically accordingly.

3.5 Communication objects and parameters for the scenes

Up to 64 scenes can be recall and programed with the panel.

The programming of these scenes takes place directly on the panel via the configuration page for scene programs, see section 2.4.2 Operation and function of the configuration page for scene programs.

All released standard or additional functions are available for configuration.

When activating the scene module via the ETS configuration, an 8-bit communication object is made available to recall the 64 scenes via the bus.

If the parameter setting "Scenes" is selected on the left side, the following view appears (see fig. 34).

Decimal places
25 CO Colour Touch-Panel 910201

	(Para	meter	Set	tings	
Scene module is activated	yes	Scer	ne module is activat	ed No		
escription scene 1				Yes		
scription scene 2		The	internal scene mod	ule is activat	ed via	this input
cription scene 3		field	Depending on this	s setting, th	1e 64 Si ad th	cenes are
cription scene 4		com	munication object 24	8 is shown	nu u	ie o-bit
cription scene 5		Dos	cription scope 1			
ulun scene 3		Des	cription scene i			
ption scene 6		 Des	cription scene 64			
ption scene 7		This	narameter only an	Dears if "Ves	" \\\\>C G	ot in the
otion scene 8		aboy	e configuration and	the scene mo	dule is	activated
in scene 9		A de	escription text of up to	o 20 characte	ers for so	cenes 1 to
ion scene 10		64 r	espectively can be er	ntered in this	input f	ield. Thus
cene 11		a na	me can be assigned	to all 64 int	ernal sc	enes. This
scene 12		scen	ie name is shown i	n the pull-d	own fie	eld in the
n scene 13		scen	e program on the	e panel. A	functio	on-specific
scene 14		IIdii	ing and identification	r is thus prov	lueu.	
cene 15		With	this function the follo	wing comm	unicatio	n objects
16		are a	vailable:	, in g comm		
n scene 17						
ution scene 18		Obj	Object name	Function	Туре	Flag
n scene 19		248	Scene 164	Internal	1	KS
me 20				scene,	byte	
ne 21				recall		
		This	parameter only app	pears if "Yes	" was s	set in the
I SUCIRE 22		abov	ve configuration and "	trie scene mo	odule is	activated.
	•••	VVIU	I the scene 1 64 via	this object	minanu	is serit to
				ins object.		
on scene 59						
on scene 60		3.6 C	ommunication obje	cts and para	meters	for the
ition scene 61		alarn	ns	-		

Fig. 34: Scene module

Description scene 63

Description scene 64

On this page, the scene module is activated and all 64 scenes are identified.

In detail, the following parameters and communication objects are present for the respective functions:

16 separate alarm or event functions are available in the panel. 16 communication objects are used for this. If an object is used as an alarm function, the resolved alarms are shown in chronological order with current time stamp, the respective symbol and the corresponding designation on the alarm page. See section 2.5 Operation and function of the alarm page.

If an alarm is triggered or acknowledged, a 1-bit output object is activated. If an object is used as an event function, it does not appear on the alarm list. If a trigger condition is met, a 1-

bit output object is activated.

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Objects in different data formats are available to activate the alarms or events:

1-bit data telegrams

1-byte data telegrams

2-byte data telegrams (floating point value)

2-byte data telegrams (counter value)

4-byte data telegrams (counter value), (only in Alarm / Event 1 and 2)

14-byte text messages, (only in Alarm / Event 1 and 2)

Different logical operators or threshold values can be set in this regard.

If the parameter setting "General alarm" is selected on the left side, the following view appears (see fig. 35).

		Alarm general
Common acknowledgment of activated alarms	no	~
Max. duration of acoustic alarm signal	1 minute	~
Alarm signal is repeated automatically after	5 minutes	~

Fig. 35: Alarm configuration general

The superordinate alarm properties can be set with the parameter screen General alarms.

In detail, the following parameters and communication objects are present for the respective functions:

Parameter	Settings
Common acknowledgment of	No
activated alarms	Yes
This input field is used to set	whether all pending
alarms are to be acknowledged a	at the same time via a
joint acknowledgement button.	With the setting "Yes",
an acknowledgment button is ge	nerated in the top left
corner in the header of the alarm	page.
The central acknowledgement individual acknowledgment c	is optional for the of the alarms. An

individual acknowledgment of the alarms. Ar individual acknowledgment is generally available.

Parameter	Settings	
Max. duration of acoustic alarm signal	10 seconds 30 seconds 1 minute 2 minutes 3 minutes 4 minutes 5 minutes 6 minutes 10 minutes 15 minutes 20 minutes 25 minutes 30 minutes	
This input field is used to set the accoustic signal is to be switched The alarm tone will sound for configured time if the alarm is been acknowledged.	e time after which the off. the duration of this pending and has not	
Alarm signal is repeated automatically after	10 seconds 30 seconds 1 minute 2 minutes 3 minutes 4 minutes 5 minutes 10 minutes 15 minutes 20 minutes 25 minutes 30 minutes	
This input field is used to set the time after which the accoustic signal is to sound again after it was switched off automatically. This configured time only works if the setting "repeat alarm signal perioddically" was selected in the following configuration of the individual alarms. In order for the alarm tone to repeat, the alarm must be pending and not be acknowledged.		

With these parameters, the following communication object is available:

Obj	Object name	Function	Туре	Flag	
247	Central acknowledgement alarms:	1= central acknowle dgement	1 bit	KÜ	
This above pend A cer objec	This object only appears if "Yes" was selected in the above configuration and a joint acknowledgment of all pending alarms was activated. A central acknowledgement of the value "1" via a 1-bit object was sent via this object				

The specific parameters for the individual alarm functions or events can be set on the parameter pages Alarm / Event 1 to 16.

If the parameter setting "Alarm / Event 1" is selected on the left side, the following view appears (see fig. 36). The same parameter window appears for Alarm / Event 2 to Alarm / Event 16.

	Alarm /	Event 1
Description Alarm / Event 1	Alarm / Ereignis 1	
Usage as	alarm function	•
Activation by	via 1 bit object	•
Condition for activation	object = 1	•
Activation takes place	on every alarm / event	-
Symbol used on alarm	symbol 1 (alarm general)	/
Behaviour on alarm event	activate alarm signal once	/
Alarm output object	sending on alarm activation	•

Fig. 36: Configuration Alarm / Event 1

In detail, the following parameters and communication objects are present:

Parameter	Settings			
Description Alarm / Event 1	Alarm / Ereignis 1			
A description text for the respective page of up to 20 characters can be entered in this input field. This description text is displayed on the alarm page of the display as description of the alarm.				
Usage as	event			
	alarm function			
This input field can be used to set v used in an alarm function or in a function has been selected, then a the alarm page of the panel if the meets the triggering condition. If the value of a 1-bit output object value of the object meets the cond	whether the object is n event. If an alarm n alarm is shown on e value of the object an event is selected, t is set to "1" if the ition.			

Falallielei	Settings			
Activation by	via 1 bit object via 1 byte object via 2 byte object (float) via counter value 2-byte via counter value 4-byte via text message			
This parameter is used to s triggering object for the ac- event will be received. The threshold value for the acti- this format. If "via text message" is set triggering object, then for a content of the 14-byte cha- alarm message directly on value content is received i alarm is activated. If no triggering object, then no a If "via text message" is set triggering object, then for a bit output object is set to content is received in the tr received in the triggering o 1-bit original object is set	t as the data format of the display. Every time a triggering condition or the triggering condition or the triggering condition or the triggering condition of the an alarm function the value racter string is shown as an the display. Every time a in the triggering object, an o sign is received in the larm is triggered. It as the data format of the an event the value of the 1-o "1" and sent, if a value riggering object. If no sign is object, then the value of the triggering object. If no sign is object, then the value of the triggering object. If no sign is object, then the value of the triggering object. If no sign is object, then the value of the triggering object.			
Note: The data format 4-byte cc only offered for the Alarm 2.	ounter and text message is / Event 1 and Alarm / Event			
Condition for activation	object = 0 object = 1			
This parameter only appears if "via 1 bit object" was set in the above "Activation by" configuration. This parameter is used to set for which value of the 1- bit triggering object an alarm or an event is to be activated.				
	0 128 255			
Activation threshold				

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Parameter	Settings	Par	rameter	Settings
Activation threshold	-32767 21 32766	Act	tivation if value	equal to threshold (always)
The selection range of this pa "via 2-byte object (float)" "Activation by" configuration.	rameter only appears if vas set in the above			greater than threshold less than threshold greater or equal to threshold
This parameter is used to set	which threshold value of			equal to threshold (once)
the 2-byte triggering object	is to be compared to			threshold exceeded (rising
operators are offered for select	ion in the following			edge)
Activation threshold	0 1028 65535			threshold falling bellow
The colorities was a fithin as	0102003335			(falling edge)
"via counter value 2-byte" "Activation by" configuration. This parameter is used to set	was set in the above	2-b cou by"	ils parameter only appe byte object (float)", "via unter value 4-byte" was " configuration.	ars if "via 1-byte object", "via counter value 2-byte" or "via s set in the above "Activation
the 2-byte counter triggering	bject is to be compared	Thi	is parameter is used to	select the logical operator in
to activate an alarm or an	event. Different logical	rela	lation to the previously s	set threshold value.
operators are offered for select	ion in the following.	Wit	ith the setting "equal to	threshold value (always)", an
Activation threshold	0 10.000	ala	arm is triggered or as an	n event the value of the 1-bit
	 4 294 967 295	the	e triggering object (=)	is identical to the configured
The selection range of this pa	rameter only appears if	thr	reshold value. With an e	event, the 1-bit output object
"via counter value 4-byte"	was set in the above	wit	th the value "0" is c	only sent if the event was
"Activation by" configuration a	nd for the Alarm / Event	pre	eviously active.	
1 and Alarm / Event 2.		Wit	ith the setting "greate	r than threshold value", an
This parameter is used to set	vnich threshold value of	out	itput object set to "1" an	d sent whenever the value of
to activate an alarm or an	event. Different logical	the	e triggering object is	greater than the configured
operators are offered for select	ion in the following.	thr	reshold value. With an e	event, the 1-bit output object
Activation takes on every	alarm / event	wit	th the value "0" is c	only sent if the event was
place on first a	larm / event only	pre wit	eviously active.	throshold value" an alarm is
This parameter only appears if	"via 1 bit object" was set	trig	ggered or as an event	threshold value", an alarm is the value of the 1-bit output
With the setting "on every ala	rm / event", an alarm is	ODJ tric	oject set to T and sen	t whenever the value of the
triggered or the value of the 1	-bit output object set to	thr	reshold value. With an e	event, the 1-bit output object
"1" and sent whenever the	value of the triggering	wit	th the value "0" is c	only sent if the event was
object (=) is identical to the co	figured threshold value.	pre	eviously active.	
"O" is only sent if the event was	nreviously active	Wit	ith the setting "greater of	or equal threshold value", an
With the setting "on first ala	rm / event only". if the	ala	arm is triggered or as ai	n event the value of the 1-bit
value of the triggering object	t (=) is identical to the	the	e triggering object is c	reater than or equal to the
configured threshold value, a	n alarm is triggered one	cor	nfigured threshold value	ue. With an event, the 1-bit
time only or the value of the	I-bit output object is set	out	Itput object with the val	ue "0" is only sent if the event
to "1" and sent one time only.	With an event, the 1-bit	wa	as previously active.	
was previously active.	is only sent if the event	Wit	ith the setting "less or	equal to threshold value", an
		ala	arm is triggered or as ai	a event the value of the 1-bit
Note:		the	e triggering object is s	maller than or equal to the
For the description of the a	arm behaviour and the	cor	nfigured threshold valu	ue. With an event, the 1-bit
alarm display, see also sect	on 2.5 Operation and	out	Itput object with the val	ue "0" is only sent if the event
function of the alarm page.		wa	as previously active.	

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With the setting "equal	to threshold value (once)", an	Parameter	Settings
alarm is triggered one t bit output object set t when the value of the to the configured thresh	time only or the value of the 1- to "1" and sent one time only triggering object (=) is identical hold value. With an event, the 1-	Behaviour on alarm event	without alarm signal activate alarm signal once repeat alarm signal periodically
bit output object with a event was previously ac With the setting " thresh alarm is triggered one ti value of the 1-bit output time only when the valu greater than the configu event, the 1-bit output of sent if the event was pre With the setting "thr edge)", an alarm is trig event the value of the 1 sent one time only wh object is smaller than t With an event, the 1-b "0" is only sent if the even	the value "0" is only sent if the tive. nold exceeded (rising edge)", an me only or as an event the t object set to "1" and sent one ue of the triggering object is ured threshold value. With an object with the value "0" is only eviously active. eshold falling bellow (falling ggered one time only or as an -bit output object set to "1" and then the value of the triggering the configured threshold value. it output object with the value ent was previously active.	periodically This parameter only appears if "alarm function" was set in the above "Usage as" configuration. This parameter is used to set whether and how the triggering of an alarm is to be communicated accoustically. With the setting "without alarm signal", no acoustic signal is emitted when an alarm is triggered. The alarm is showns silently on the display. With the setting " activate alarm signal once", an alarm tone is sounded once for a certain configured time when an alarm is triggered. With the setting "repeat alarm signal periodically", ar alarm tone is sounded for a certain configured time when an alarm is triggered. After this alarm tone, the alarm message is shown silently for a certain	
Note:	the elerm behaviour and the	Alarm output object	sending on acknowledgment sending on alarm activation
alarm display, see als	o section 2.5 Operation and age.	This parameter only app in the above "Usage as"	bears if "alarm function" was set configuration.
Symbol used on alarm	symbol 1 (alarm general) symbol 2 (bolt) symbol 3 (alarm bell) symbol 4 (alarm flashlight) symbol 5 (attention!) symbol 24	 This parameter is used to set after which alarm event 1-bit output object is to be sent. With the setting "sending on acknowledgment", after an alarm acknowledgement on the alarm screen of the panel, the value of the output object is set to "1" and sent. With the setting "sending on alarm activation", th 	
This parameter is used to the alarm message. The alarm message on the a the time stamp and the (see section 2.5 Operation page)	to select the suitable symbol for his symbol is shown with the alarm page of the panel before alarm description. tion and function of the alarm	value of the output obj the alarm is triggered. With these parameters, th object is available:	ect is set to "1" and sent when he following communication

Obj	Object name	Function	Туре	Flag
215	Alarm / Event 1	Alarm / Event, On / Off	1 bit	KSÜA
215	Alarm / Event 1	Alarm / Event, Value	1 byte	KSÜA
215	Alarm / Event 1	Alarm / Event, Value	2 byte	KSÜA
215	Alarm / Event 1	Alarm / Event, Value	4 byte	KSÜA

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215	Alarm / Event 1	Alarm / Event, Text message	14 byte	KSÜA		
These objects appear in the different data formats depending on the configuration. The value content of these objects is compared with a triggering condition or with a configured threshold value. If the condition is met, an alarm is triggered or an event activated. This object leads to the triggering of an alarm or event						
216	Alarm / Event 1	1= alarm active	1 bit	KÜ		
This activa the a If the trigge	This object only appears if "sending on alarm activation" and thus an "alarm function" was selected in the above configuration. If the alarm condition was met and thus an alarm was triggered, the value of this object is set to "1" and cont					
216	Alarm / Event 1	1= alarm acknowledged	1 bit	KÜ		
This object only appears if "sending on acknowledgment" and thus an "alarm function" was selected in the above configuration. If, after an alarm was triggered, the alarm was acknowledged on the display, the value of this object is set to "1" and sent.						
216	Alarm / Event 1	1= event triggerd	1 bit	KÜ		
This of above If the trigge The v previ	This object only appears if "event" was selected in the above "Usage as" configuration. If the alarm condition was met and thus an alarm was triggered, the value of this object is set to "1" and sent. The value "0" of the object is only sent if the event was previously activated.					

If all alarm functions 16..60 are used, then the communication objects 217..246 are used identically accordingly.

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4. Planning Aid

This planning aid is intended to support you in the design and labelling of the most important illustration pages on the colour touch panel. It will provide you with a basis for project agreements with project managers and customers. These forms can also be filed as project documentation in the revision documents.

For this purpose, templates of the menu page, the main pages and the detail pages have been added. Please print out the templates. You will need one copy of the menu page, the main pages and the detail pages, in each case a maximum of ten copies (see figure 5: Operating concept).

The fields on the menu page incorporate the maximum ten names from the main pages. These names are then to be accepted in each case as the page description of the maximum 10 main pages and the detail pages allocated to these.

In the 5 functional block fields, the main pages bear the names of the standard functions. In the footer, they have a number for the function of the additional key and the symbol to be used or a symbol number in the 6 fields. You will see a legend on the right.

In the 6 detail page fields are the names of the additional functions.

This written project plan now gives them a good overview of the project planning for correct configuration with the ETS (Engineering Tool Software) project planning tool

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Menu Page

max. 20 Symbols		max. 20 Symbols	
max. 20 Symbols		max. 20 Symbols	
max. 20 Symbols		max. 20 Symbols	
max. 20 Symbols		max. 20 Symbols	
max. 20 Symbols		max. 20 Symbols	
	12: 21/0	15 5/10	

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Main Page

A								12:15 21/05/10	
max. 20 Sy	ymbols								
max. 20 Sy	ymbols]			
max. 20 Sy	ymbols								
max. 20 Sy	ymbols								
max. 20 Sy	ymbols								
Function	1	no function button		1	Fun	ction 13	ji	ump to main page 7	
Function	2	start sleep mode			Fun	ction 14	ji	ump to main page 8	
Function	3	start logo / slide she	ow		Fun	ction 15	ji	ump to main page 9	
Function	4	disable			Fun	ction 16	jı	ump to main page 1	0
Function	5	jump to detail page			Fun	ction 17	jı	ump to configuratior	n page
Function	6	jump to last operated page		Fun	ction 18] c	configurate the schedule programs		
Function	7	jump to main page	1		Fun	ction 19	c	onfigurate the scen	e programs
Function	8	jump to main page 2		Fun	ction 20] 0	configurate the logic		
Function	9	jump to main page 3		Fun	ction 21] c	onfigurate the prese	ence simulation	
Function	10	jump to main page	4						
Function	11	jump to main page	5						
Function	12	jump to main page	6						

Siemens AG Industry Sector, Building Technologies Business Sector – Low Voltage Distribution PO Box 10 09 53, D-93009 Regensburg

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GAMMA<u>instabus</u> Application Program Description

July 2010

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Symbols







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Detail Page

	12: 21/0	12:15 21/05/10		
max. 20 Symbols				
max. 20 Symbols				
max. 20 Symbols				
max. 20 Symbols				
max. 20 Symbols				
max. 20 Symbols				