SIEMENS

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0705 Contouch Room Controller 970003

Use of the application program

Product family:	Display
Product type:	Display units
Manufacturer:	Siemens AG
Name:	Contouch Room Controller UP 204
Order no.:	5WG1 204-2AB11, titanium white, 5WG1 204-2AB21, carbon metallic, 5WG1 204-2AB31, aluminium metallic, 5WG1 204-2AB51, piano black

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1 About this manual

This manual describes the application program and the Contouch Manager (Plug-in) for the configuration of the operating and display systems of the Contouch Room Controller.

The manual is designed for qualified specialists with detailed knowledge of control systems in building technology. The following is particularly expected:

- In-depth knowledge of the design and operation of the KNX bus system,
- In-depth knowledge of the ETS configuration software.

Notes on using the manual

Certain facts are highlighted in the manual.

Note:

Notes and further information are highlighted from the usual text by lines.

- 1. Instructions are presented as a numbered list.
 - The typically expected results of an action are described at the end of the instruction.

Parameters, parameter values, names of communication objects and buttons and displayed in **bold**.

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2 System description

2.1 Overview



Figure. 1. System overview

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2.2 Contouch Room Controller

The multifunctional Contouch display and operating system serves to display the conditions and to operate and control devices in connection with the KNX building bus system.



Figure. 2. Contouch display and operating system

- 1) Touch-Display
- 2) Status and orientation LED
- 3) Rotary control with print function
- 4) Temperature sensor

Function:

The buttons presented on the display can be used for switching, dimming, controlling room temperature, as control commands for shutters, roller blinds and fans or for the retrieval and storage of scenes.

Properties:

- TFT Color display 2.8" 320x240 Pixel,
- Display with touch function and rotary control with print function for operation,
- Status and orientation LED on the rotary knob,
- Internal temperature sensor,
- Interface to the BCU (AST)
- Slot for MicroSD card.

Note:

Details about the product can be found in the Technical Product Information (TPI) and the Operating and Assembly Manual (BMA) of the device.

Communication

Communication with the KNX building bus system occurs exclusively through the attached BCU bus coupling unit.



Figure. 3. BCU bus coupling unit

- 1) Programming LED
- 2) Programming knob
- 3) Holes for the centering spike for attaching the Contouch

Note:

Details about the product can be found in the Technical Product Information (TPI) and the Operating and Assembly Manual (BMA) of the device.

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2.3 Contouch Manager (Plug-In)

The Contouch Manager (Plug-In) makes it possible to configure and set parameters for the Contouch Room Controller. The program is run as a plug-in in the ETS application program.

The ETS application program in Version 3.0f or higher is required for the plug-in.

Function:

- Configuration of the Room Controller functions,
- Configuration of all parameters for controlling the connected devices,
- Configuration of time programs,
- Configuration of the menu structure and selection of the menu design,
- Configuration of alarms and status reports.

System criteria

- Operating system: Windows XP SP3, Vista SP1 or Windows 7,
- Screen resolution: 1024*768 or higher,
- Reader for storage card format microSD or microSDHC (possibly using adapter SD on microSD or USB microSD readers) to describe microSD card or microSDHC card.
- Microsoft .Net Framework 3.5 SP1,
- ETS Version 3.0f or higher.

Data transmission

The complete configuration of the Contouch operating and display system via the KNX bus is not recommended by reason of its bandwidth restriction (very long transmission time). Therefore a MicroSD card is used as a second medium for transmitting the configuration data.





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3 Editing parameters

3.1 Overview of the configuration steps

The application program is thematically organized by configuration steps. The sequence supports the user in the recording of the parameters, the arrangement of the time program, the determination of the menu structure and selection of the design.



Figure. 5. Configuration steps

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3.2 Work a1. Select the and run th	rea and configuratio device in the ETS app ne Edit parameters fu	n window lication progr nction.	am	The work area (Plug-in) opens with the configuration and input windows.
1 2	Iller Antouch UP 204 port Language English • s Paramettys Scheduler Skins	Show warnings	Extras SGenerate	3
Channel N State	Name	Active	Туре	Languages - Channel 1
► 1	Lighting	V	switch	Langua te Text
2	Dimming	V	dimmer	English Lighting
3	Roller shutter	V	shutter	
4	Venetian blind	V	blind	
5	500 Lux	V	send value	Parameters
6	1000 Lux	V	send value	A Channel type switch 🔻
7	21 °C	V	send value	Cuitch mode
8	Forced control	V	forced control	
9	Engine speed	1	send value	Enable state display
10	Scene meeting	V	scene control	
11	Scene projector	V	scene control	
12	Scene OFF	1	scene control	
13	Window state	1	alarm / message	
14	Fire alarm	V	alarm / message	
15	Wind state		unused	
16			unused	
17			unused	
18			unused	
				OK Sancel
				5 4

Figure. 6. Contouch Manager Work Area (Example of channel configuration window)

- 1) Menu and symbol bar
- Configuration window, dependent on context 2)
- 3) Additional input window, dependent on context
- 4)
- Exit work area without saving Save the configuration and exit work area 5)

2.12.1.14

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3.2.1 Menu and symbol bar

The menu and symbol bar contain commands and displays required to run the application program.

Import

Importing configuration data (see Chapter 3.3.1, Page 9).

Export

Exporting configuration data (see Chapter 3.3.2, Page 9).

Language

The standard language can be selected in the dropdown menu next to the Language field.

Only those languages can be chosen which were activated in the Languages configuration window (see Chapter 3.5, page 11).

Displaying warnings

Texts and parameters are checked continuously for correctness and completeness during input.

Missing inputs are displayed by warning symbols (yellow or red triangle with exclamation mark). An explanatory error text is displayed when the warning symbol is clicked or as a tooltip text when the mouse crosses over it.

Checks are made for the following:

- Existence of the texts in all active languages,
- Compliance with the maximum allowed text length.
- Activating the Display warnings control box.
 The warning symbols are displayed.
- Deactivating the Display warnings control box.
 The warning symbols are not displayed.

Extras

About...: Display of the current software version.

Generate

Creates the configuration data not transmitted by KNX Bus (see Chapter 4.1.1, Page 45).

ОК

Save current settings and close the work area window.

Cancel

Close the work area window without saving.

3.2.2 Text input

All text inputs are checked for length in the context of their usage (e.g. button labels).

Note:

The text length is evaluated on a pixel basis to ensure the display on the Contouch operating and display system. A check based on character number is not possible, since the text length depends on the type of letters.

The texts are once again checked for completeness and maximum length when the output data for the operating and display system are generated.

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3.2.3 Labeling of the parameter types

The parameters are transmitted in various ways for the configuration of the Contouch operating and display system.

Installation



Figure. 7. Data transmission

A symbol in front of the parameter names displays the transmission route authorized for this parameter.



Figure. 8. Labeling of the parameter types

- Transmission required only via KNX Bus (ETS)
 Transmission via KNX Bus and MicroSD card required
- 3) Transmission only required via MicroSD card

3.3 Import and export of configuration data

3.3.1 Importing configuration data

The configuration data stored in a project file (*.Contouch) can be imported. In the process the KNX bus parameters and the group address connections are also read.

Function when importing group address connections:

- Pre-existing group address connections are deleted.
- Missing group addresses are added.
- Group address designations and comments are adopted for group addresses to be newly created.
- Group address designations and comments are not adopted for existing group addresses.

Import:

- 1. Click on the Import button.
- The file selection window opens.
- 2. Search and select Contouch file.
- 3. Click on **Open** button.
 - > The parameters are imported.

3.3.2 Exporting configuration data

The current configuration data stored can be exported to a project file (*.Contouch).

1. Click on the **Export** button.

- The file selection window opens.
- 2. Enter the file name. File type: *.Contouch.
- 3. Click on Save button.
 - > The project file is saved.

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3.4 Basic scenes

It is possible to directly activate two scenes with the press function of the rotary control without using the functions from the menu pages of the Touch Display. Each time the rotary control is pressed, the Contouch room controller switches between basic scene 1 and basic scene 2. This makes it possible, for example, to activate basic scene 1 (light ON) when entering a room and to activate basic scene 2 (light OFF) when leaving. This occurrence depends on the value of a status object. This allows the room controller to recognize that the light is already ON and is switched off with basic scene 2 or whether the light is OFF and switched on with basic scene 1.

The press function on the rotary control is not active unless the touch display is idle (see Chapter 3.7.1, page 23) or the home page (see Chapter 3.12, page 40) is shown on the touch display and no function is selected on it.

If the touch display shows a function or operating page or the start and operating page of the room temperature controller, then the home button in the centre of the navigation area must be used to navigate back to the home page in order to use these basic scenes.

If one is on the home page, all functions on the touch display are deselected after 5 seconds. Further activity on the touch display or rotary control within these 5 seconds causes this time interval to be reset. The functions can also be manually deselected by pressing on an empty area (no symbol for a function of navigation) on the touch display. The pure display fields (time, date, temperatures, etc.) can also be activated for this purpose.

Note:

If **On touch in idle mode jump to: last screen viewed** was set in the parameter (see Chapter 5.1.1, page 46), then the basic scenes are not necessarily operable. If the last screen viewed was a function page, an operating page, a page of the room temperature controller etc., then one must first navigate to the home page from the idle state in order to activate the basic scenes.

3.4.1 Communication objects for the basic scenes

Obj.	Object name	Function	Туре	Flags	
114	8-bit basic	Recall	1 Byte	СТ	
	scene				
This communication object is used in dependence on a status object Basic scene selection to send scene 1 (value 0) or scene 2 (value 1).					
115	Basic scene select	Receive	1 bit	CWU	
This communication object is used to receive the value of a status object. The scene to be sent by the 1 byte object is selected with the value of this status object. Object value:					

"0" = basic scene 1 is sent "1" = basic scene 2 is sent

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3.5 Languages

The target languages for user prompts on the Contouch operating and display system are set in this menu.

Note:

The contents of the texts to be displayed are not automatically determined by the language setting. They must be entered when defining the channels and structures.

Missing entries are labeled in the application program with a warning sign.

Up to 6 languages can be defined. This can be practical in hotels or public buildings, for example.

Every language has an index number. This index number starts with 0 in the standard setting. The index numbers can be edited in the input mask.



Figure. 9. Language selection input mask

- 1) Language added but not activated
- 2) Language added and activated
- 3) Current standard language
- 4) Language index

3.5.1 Add language

- 1. Select the Language tab.
- 2. Click Add.
 - The selection window with the available languages opens, Fig. 10.
- 3. Select language.
- 4. Confirm choice with OK.
 - > The language is added and used (Status Active).
 - > The language ID is set automatically. It can be edited later.

Add Languages		×
Afrikaans Albanian Basque Danish Dutch Faroese Finnish French Icelandic Icelandic Icelandic Icelandic Icelandic Icelandic Icelandic Icelandic Icelandic Societin Societin Societin Societin Societin Societin Santa (Linited Kingdom) Societin Spanish Sweidsh		
	OK Cancel	

Figure. 10. Language selection

3.5.2 Activate / deactivate language

Configurations with multiple active languages require more storage space. For this reason it is possible to define languages but to also deactivate them for the actual application.

- 1. Mark the **Active** check box next to the desired language.
 - > The language is activated.

Note:

If the currently set standard language is deactivated, then the language with the next language ID in the sequence is assigned as the standard language. All of the languages to be used should be stored before configuring the channel!

3.5.3 Delete language

Languages can be deleted.

All texts already set to a language are also deleted. They must be newly defined when re-entered.

- 1. Select languages to be deleted.
- 2. Click Delete.
 - > The language and the associated texts are deleted.

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3.6 Channels

The channels used are defined in this menu and functions assigned to them.

Up to 18 channels are available, which can be assigned the following functions:

- Switch,
- Dimmer,
- Shutter,
- Roller blind,
- Send value,
- Forced control,
- Alarm / Message,
- Scene control

Depending on the selected function (channel type), additional parameters are enabled, in which the respective functions can be specified.

Note:

The configuration data in the operating and display system must be updated via ETS or the MicroSD card when then parameters are changed.



Figure. 11. Contouch Manager work area (example of channel configuration window)

- 1) Channel number
- 2) State column for displaying warning messages
- 3) Channel name
- 4) Activation / deactivation of a channel

- 5) Channel type display (function)
- 6) Languages window for designating the channel
- 7) Parameter window (dependent on function)

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Designating the channels

The functions used are activated and named when the channels are configured. The designation under the **Name** column is used as a suggestion for the menu captions (see Chapter 3.12, Page 40) and serves as an orientation for the additional configuration steps.

Activation

The channels to be used must be marked in the **Active** column. Only then are they available in the additional configuration steps.

Text input languages

The designation of the channel is entered in the separate **Languages** window. All set languages are listed in this window. Every text field must be filled in.

If a language is not filled in, then a warning message appears in the status field.

The texts of the standard language are each displayed in the channel selection window.

Note:

See Chap. 5.2, starting on page 83, for a description of the communication objects and parameters.

3.6.1 Switch channel type

The **Switch** is used to send 1 Bit objects for various switching functions.

Switching function

The switching function is specified by the selection of a switch type. The following switching functions can be chosen:

- Switch-on only or switch-off only, independent of the current status,
- Switching: switch On/Off depending on the current status ,
- Bells: Switch on for as long as the button is pressed or not pressed (adjustable).

The status display can be deactivated by configuration. The associated status object is always visible. The status display is exclusively controlled by the status object. Thus if no status object is linked, then the status display does not change.

Status display visible

If **Status display visible** is set with **yes**, then the switching status is displayed on the operating and display system.

If **Status display visible** is set with **No** then the status display is deactivated. The associated status object is always visible.

Note:

The status display is controlled by the status object. If no status object is linked, then the status display does not change.

Status display on the operating and display system The status is displayed by a point on the switching function.



Figure. 12.

2. Example for switching status OFF



Figure. 13.

Example for switching status ON

3.6.2 Dimmer channel type

The **Dimmer** channel type can be used to set the brightness of the lighting.

Dimming function

- Selection of the channel by pressing the button in the operating and display system.
- The border color of the button changes.
- Sending a 1 Bit switch command (ON/OFF) by pressing the rotary button.
- Sending a 1 Byte dimming value telegram by turning the rotary control. This sent dimming setpoint value is displayed for 5 s.
- After this time, the actual status of the dimmer is displayed instead of the dimming setpoint value. The connection of the 1 Byte communication object is required for this.
- Receiving the 1 Bit status object On/Off. The bar is displayed in yellow for the "on" status. The bar is displayed in grey for the "off" status.

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The dimming value is changed by turning the rotary control on the operating and display system. Slow turning changes the dimming value by 1 Bit (approx. 0.4 percentage points) per click. Fast turning leads to a greater change of value.

Note:

If configured accordingly the dimmer (actuator) can also be switched using the 1 Byte communication object.

Correct connection of the status objects

If the status objects are connected incorrectly, the operating and display system cannot correctly update the internally held status.

The switching processes via the operating and display system possibly require double activation.

Display on the operating and display system

The rotary control function is displayed by an arc with two arrows (top left).

The dimming function is displayed by a bar on the lower edge of the switch area. The bar is circular at the minimum dimming value.



Figure. 14.

Example of dimming (here brightness value around 60%)

Example: Dim light

- 1. Tough the **Dim lights button**.
 - The corresponding channel is selected.
 Press the rotany control
- 2. Press the rotary control
 - The dimmer is switched on (1 bit)
- 3. Turn the rotary control until the desired brightness value is reached.
- 4. Press the rotary control
 - The dimmer is switched off (1 bit)

Note:

The brightness value which takes effect when switched on (1 bit) is set by configuring the dimmer.

3.6.3 Channel type priority control

The channel type **Priority control** can be used to override switching processes with priority control. For example, in energy saving or night mode the switching on of specific lights or loads can be prevented.

Priority control function

The following commands and buttons are provided for the priority control function.

- Activate priority control and switching status ON: Send **11**,
- Activate priority control and switching status OFF: Send **10**,
- Deactivate priority control without switching: Send 00.

The command is immediately sent by pressing the button on the operating and display system.

Display on the operating and display system

Pressing the priority control button changes the display in the priority control submenu, where the commands can be selected.



Figure. 15.

Example of priority control (shown above: Activate priority control and switching status ON)

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3.6.4 Channel type Shutter

The functions for operating a **shutter** are set in the Shutter channel type.

Function

Two 1-bit communication objects are provided for the basic functions.

- Sun protection up/down,
- Stop sun protection and slats open/closed.
 The stop command always sends a 0. It can end the movement of the sun protection at any time.

Note:

The stop command and the slat position are send by a joint communication object.

The sun protection movement is stopped the first time the button is pressed. Each additional press of the button changes the slat position by one step (slats open).

Reverse of rotation of slat setting

The rotational direction of the lamellae can be reversed.

- No: Turning clockwise sends lamellae closed (1).
- Yes: Turning clockwise sends lamellae open (0).

Actuator status object provided

If the shutter actuator in use provides a status object (position of the shutter), this can be evaluated for the shutter control.

Note:

The actuator status object must be connected to the channel status object.

Display on the operating and display system

Pressing the **Shutter** button changes the display on the operating page. Commands for operating the shutter can be selected here.



Figure. 16. Shutter button on the Home-page

The operating page of the shutters can be designed with or without status display.



- Figure. 17. Operating page of the shutters without status display
- 1) Sun protection button up
- Stop button
- 3) Sun protection button down
- 4) Change of slat position (set by rotary control)



Figure. 18. Operating page of the shutters with status display

- 1) Sun protection button up
- 2) Stop button
- 3) Sun protection button down
- 4) Position display of the sun protection
- 5) Change of slat position (set by rotary control)
- 6) Position display of the slats

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3.6.5 Channel type roller blinds

The functions for operating a roller blind are defined in the **Roller Blind** channel type.

Function

Two 1-bit communication objects are provided for the functions.

- Roller blinds up/down,
- Stop roller blinds.
- The stop command always sends a **0**. It can end the travel of the roller blinds at any time.

Actuator status object provided

If the roller blind actuator in use provides a status object (position of the roller blind), this can be evaluated for the roller blind control.

Note:

The actuator status object must be connected to the channel status object.

Display on the operating and display system

Pressing the roller blind button changes the display on the operating page. Commands for operating the roller blind can be selected here.





The operating page of the roller blinds can be designed with or without status display.



Figure. 20. Operating page of the roller blinds without status display

- 1) Roller blind button up
- 2) Stop button
- 3) Roller blind button down



Figure. 21. Operating page of the roller blinds with status display

- 1) Roller blind button up
- 2) Stop button
- 3) Roller blind button down
- 4) Position display of the roller blind

3.6.6 Channel type Send value

The channel type **Send value** is used to send fixed or variable values to the KNX Bus. Various data types and units and be sent.

Send value function - fixed

Fixed values are send to the channel by simple assignment of a button. An operating page is not available. The rotary control on the Contouch operating and display system has no function.

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Send value function - variable

Variable values are set and sent on the Contouch operating and display system. A separate function page is available for this. The rotary control can be used to change the values.

The value range (minimum, maximum) is set in the parameter window. The smallest step size is determined by the resolution of the selected data type.

Variable value

The parameter specifies the function of the channel type.

- No: Send value fixed
- Yes: Send value variable. The selection of this option expands the parameter window to include the entries maximum, minimum and unit.

Data type

The following 5 data types are available: The data type consists of the size of the communication object (1 or 2 byte) and the number type (%, integer with/without sign).

The smallest step size for changing values on the Contouch operating and display system is determined by the data type:

- Integers (including percentage values) are changed as whole numbers.

Value

Only for the Send value - fixed function.

Sets the value to be sent when the button is pressed. This value cannot be changed on the Contouch operating and display system.

Maximum / Minimum

Only for the Send value - variable function.

The value range can be restricted in these fields. The maximum expanse of the value range depends on the selected data type.

When the data type is selected maximums and minimums of the respective data type are automatically entered in the respective fields and can be adapted there.

Note:

The value of the Minimum parameter is displayed on the operating and display system the first time the operating page is opened.

The last sent/received value is displayed with each additional call-up of the operating page.

Unit

Only for the Send value - variable function.

This parameter is used to set the unit displayed under the numerical value on the operating and display system. Maximum length: 14 characters.

Display on the operating and display system The functions Send value - fixed and Send value variable are displayed differently.



Function page with "send value" buttons Figure. 22. (example)

- Symbol for send value variable 1)
- Symbol for send value fixed (here: activated) 2)

Send value - fixed:

- Touch button. 1
 - \triangleright The fixed set value is sent.

Send value - variable:

The values are displayed on the operating page according to their data type.

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Figure. 23. Operating page for send value – variable (Example)

- 1) Naming, corresponds to the channel designation
- 2) Current value, adjustable
- 3) Unit
- 1. Touch button
 - > The display changes to the operating page.
- 2. The value to be sent is set with the rotary control. When the control is turned quickly, the step width adapts dynamically to the specified value range.
- 3. Press the rotary control.
 - The value is sent. The sent value is permanently stored in the operating and display system. It is also available after the power supply returns.

3.6.7 Channel type Scene control

The **scene control** channel type serves to designate a scene and to specify the scene number (Scene-ID), which is to be sent by the communication object.

Scenes serve to combine switching processes, which lead to the creation of a certain, reproducible state.

The designation of the scenes is used as a suggestion for the menu-caption in the operating and display system.

Scene number (Scene-ID)

The scene number uniquely identifies a scene. It cannot be changed, not even if other scenes are deleted. - Value range: 1...64.

Display and call-up on the operating and display system

Scenes are displayed as buttons on the home-page or function pages. Scene buttons can be identified by a film flap symbol in the upper left.

The button border color 1 changes when a scene is called up.



Figure. 24. Function page with 3 scenes (example)

Change scene settings on the operating and display system

- 1. Consecutively call up all operating pages of the channels to be changed and change the values.
- 2. Switch to the button of the changed scene.
- 3. Resave the scene by pressing and holding down the button.
 - > A signal tone sounds.

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3.6.8 Channel type Alarm / Message

The channel type **Alarm / messages** is used to configure alarm and message functions. Alarms and messages are functionally differentiated in regard to resolution, signaling and acknowledgement.

Note:

The channel-specific parameters for alarms / messages are set in the **Channels** configuration window. Global parameters for all alarms are defined in the **Parameters** configuration window (see Chapter 3.8, Page 25).

Alarm function

Alarms are automatically displayed when they occur. Along with being shown on the display, alarms can also be signaled by the LED or as a signal tone. The behavior of Display, LED and signal tone in the case of alarm is configured by the parameters specific to each channel.

Alarms are prioritized. Alarms with the highest priority are displayed first. When priorities are equal, the most recent message is displayed first.

Alarms must be acknowledge. The acknowledgement can be made using the Display on the operating and display system or externally via a communication object.

Message function

Messages are automatically displayed when they occur. They on stored on an operating page. The sequence conforms to the channel sequence.

Alarms do not need to be acknowledged.

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3.6.8.1 Function-specific alarm parameters

Note:

The other parameters to be set vary depending on the selected function. The parameters described in the following apply for the **Alarm** function.

Condition for alarm activation

An alarm is activated when the operating and display system receives value set here from the object triggered by the alarm (Alarm condition).

Triggering only occurs

The alarm can be triggered on time or for each alarm.

- **Only for the first alarm**: The alarm is triggered one time when the alarm condition first occurs. Possibly received updates of the alarm condition are ignored.
- For every alarm: The alarm always triggers when the alarm condition is received.

Object value for acknowledging the alarm

The value set here is sent in the communication object via the Bus after acknowledgement on the Contouch and acknowledgement via the Bus is possible with this value.

Display lighting when an alarm occurs

The parameter determines the behavior of the display lighting when an alarm is triggered.

- **Switch on**: The display lighting always switches on (switches off after standard display turn-off time).
- No change of state: The display lighting remains in the current state (ON or OFF).

Alarm text

The alarm text is displayed on the operating and display system when the alarm is triggered. The maximum text length is 64 characters.

Alarm symbol

The alarm symbol is displayed on the operating and display system when the alarm is triggered.

LED behavior in case of alarm

The parameter determines the behavior of the Status LED on the operating and display systems when an alarm is triggered.

The LED color cannot be influenced. Depending on the set behavior, alarms are always displayed with a red illuminating LED.

Behavior when an alarm occurs

The parameter determines the acoustic behavior of the operating and display systems when an alarm is triggered.

- **Without alarm tone**: No acoustic signal sounds when the alarm is triggered.
- **One-time alarm tone**: A one-time alarm tone sounds when the alarm is triggered. The length of the alarm tone is set in the global parameter **Automatic shut-off of the alarm tone after**.
- Alarm tone repeats permanently: An alarm tone sounds for a defined time period when triggered. Then the alarm message is displayed silently to then be sounded again acoustically. The length of the alarm tone and the repetition interval are set in the global parameters Automatic shut-off of the alarm tone after and Repetition of the alarm tone after automatic shut-off after.

Priority

Alarms are sorted in the events list according to priority. The parameter specifies the priority of the alarm.

Up to 18 priorities can be defined. The value 1 indicates the highest priority, the value 18 the lowest.

Alarm text to be sent

The alarm text is sent through the communication object when the alarm is triggered. The text length is 1 - 14 characters. Input of an empty character string is not possible.

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3.6.8.2 Function-specific message parameter

Note:

The further parameters to be set change depending on the selected function. The parameters described in the following apply for the **Message** function.

Symbol for value = "1"

The symbol is shown on the operating and display system when the communication object supplies the **Value 1** for the message condition.

Symbol for value = "0"

The symbol is shown on the operating and display system when the communication object delivery the **value 0** for the condition of the message.

Text display for value = "1"

The text is shown on the operating and display system when the communication object supplies the **Value 1** for the message condition.

The maximum text length is 64 characters.

- Example: "Window open"

Text display for value = "0"

The text is shown on the operating and display system if the communication object delivers the **value 0** for the condition of the message.

The maximum text length is 64 characters.

- Example: "Window closed"

Display on the operating and display system

The operating pages for alarms and messages can be called up by pressing separate buttons on the operating and display system.

The buttons can be placed on any desired function pages during configuration (see Chapter 3.12, starting on page 40).



Figure. 25. Buttons for alarms and messages (example)

- 1) Buttons for alarms
- 2) Buttons for messages

Alarms can affect what is shown on the display and also be output by LED and signal tone. The behavior of the operating and display system is specified by the parameters of each channel when an alarm occurs.

Note:

The signals for the behavior of LED and signal tone are OR-linked. This means for example: If one alarm is configured with sound and a second alarm without sound and both alarms are active, then a signal tone sounds

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Display and acknowledgement of alarms

Alarms are automatically displayed when they occur. An overview of all active alarms is shown on the operating page.

- After the button for alarms is pressed, the operating page with the first alarm is displayed. If no alarm is active, the operating page contains a corresponding symbol (Figure. 26).
- The sequence of alarm displays corresponds to the set priority. The alarm with the highest priority is displayed first.
- For alarms with equal priority, the time of occurrence is decisive: the most recent message appears first.
- Alarms are not removed from the list until they have been acknowledged and deactivated.



Figure. 26. Operating page, when no alarm is active



Notes for acknowledging an alarm:

- Pressing the confirm button acknowledges the alarm.
- A communication object received via the KNX Bus can also acknowledge an alarm.
- After acknowledgement, the alarm goes into the background; LED and signal tone are deactivated. The confirm button vanishes. (Observe: the parameter *"alarm repetition after acknowledgement after"* resets the acknowledgement symbol after the configured time).

The next, non-acknowledged alarm is displayed.

- Alarms are not removed from the list until they have been acknowledged and deactivated.

Notes for deactivating an alarm:

- An alarm can only be deactivated by a corresponding bus telegram (Condition for alarm deactivation).
- If an alarm is deactivated which has not yet been acknowledged, then the LED and signal tone and shut off for this alarm and the alarm continues to be displayed. It is assigned the deactivated status.

Display of messages

Messages are not automatically displayed. Display by LED or signal tone is not possible.

- After the button for messages is pressed, the operating page with the first message is displayed.
- The sequence of message displays corresponds to the channel sequence.
- Messages are not removed from the list since a valid state is always present.
- If the request of the object value fails before a corresponding bus telegram arrives, then the message is output for an undefined state. The message contains the channel name as a heading and ? as the message text (Figure 29).



- 1) Symbol (configured)
- 2) Time stamp for change of the object value date
- 3) Time stamp for change of the object value time
- 4) Message text (configured)

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Message for undefined state (example) Figure. 29.

- 1) Channel name
- 2) Message text always ?

3.7 General parameters

Additional parameters are configured in the **Parameters** configuration window and organized thematically.

Settings for the display and operating system are defined under General. Different parameters can be displayed, depending on the configured settings.



Figure. 30. Common parameters window

- 1) Selection of topics
- 2) Control elements for setting the parameters

3.7.1 Standby mode

The display shuts off when the operating and display system is not operated for a longer period of time.

Standby mode is deactivated by:

- touching the display,
- operating the rotary control.

Activate standby after

The parameter specifies the time interval after which the display switches to standby mode when it is not operated.

At touch in standby jump to

The parameter specifies which page is shown in the display after deactivation of the idle mode.

3.7.2 Pressing buttons

Pressing of buttons on the operating and display system can be emphasized acoustically in the form of short beep tones.

Touch Sound

The parameter specifies whether a signal tone should be output when a button is pressed. The type and duration of the signal tone cannot be set.

3.7.3 **Cleaning mode**

In cleaning mode, the usage of the touchscreen and the rotary control is prevented for a specified time. This also deactivates the use of the press function of the rotary control for operating the basic scenes. Cleaning mode cannot be deactivated until this time has passed.

The Cleaning mode duration [s] specifies the duration of the cleaning mode.

Display on the operating and display system

The button for cleaning mode activation can be placed on both a function or operating page as well as in the function list.



Figure. 31. Cleaning mode button

Note:

Alarm messages are displayed during cleaning mode. These, however, cannot be acknowledged by the Contouch.

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3.7.4 LED orientation light

The Contouch operating and display system contains an RGB-LED (multi-color LED) as an orientation light and for display of alarms.



Figure. 32. LED orientation light on the device

1) RGB-LED

Color, brightness and saturation are configured according to the HSV color model.

LED colour

The parameter specifies the LED color as orientation light in the normal state.

Examples of parameter values:

- **0** = Red
- **42** = Yellow
- **85** = Green
- 128 = Turquoise
- **170** = Blue
- **213** = Violet

Note:

The color red should not be used as the orientation color, since this color is only used to display alarms.

LED brightness

The parameter specifies the brightness of the LED as orientation light in the normal state.

Examples of parameter values:

- **0** = Off
- **255** = 100%

LED saturation

The parameter specifies the saturation of the LED as orientation light in the normal state.

Examples of parameter values:

- **0** = No saturation, white light
- **255** = maximum saturation

3.7.5 Holding down a pushbutton

Certain functions of the operating and display system are called up when the operation holds down a button longer than usual (e.g. storing of scenes).

The parameter **Long touch time after** determines the minimum amount of time the button needs to be pressed for this to be considered a long button press.

3.7.6 Query and sending of status objects

After the power is restored, the operating and display system automatically queries the status objects of the following bus devices:

- External indoor temperature sensor,
- Outdoor temperature sensor,
- Time / date,
- Basic setpoint value,
- Window 1 to window 4,
- Presence,
- Status objects of the switching and dimming channels,
- Status objects of the roller blinds and shutter channels,
- Input objects of the message-type channels
- Room operating mode , query only if the parameter "Room operating mode after power restoration" is set to "automatic" and the parameter "automatic mode via" is set to "bus telegrams".

Read delay for state objects

The parameter specifies the time delay preceding the query.

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3.7.7 Time and date

The Contouch operating and display system requires the correct time and day of week for the time program and the time stamp for alarms and messages.

The Contouch operating and display system is not equipped with its own real time clock, so that time and date must each be provided by a communication object of data type DPT_TimeOfDay (10.001) and DPT_Date (11.001).

If the weekday is not provided in data type DPT_TimeOfDay, the DPT date is to calculate the day of week.

Note:

The day of week or date must absolutely be placed in the telegram. The time program and time stamp of the alarms remain locked until a time/date telegram is received.

If the external time sensor fails, the operating and display system can independently compute the time and day of week further, however with limited precision.

Updating the time / changing the clocks

The time should be updated once a day.

Time display

The parameter determines the format for the time display. The indicators **am** (morning) or **pm** (afternoon) are added to the time display for the **12 h** format.

Date display

The parameter determines the format for the date display. The following settings are possible: **TT.MM.JJ** or **MM/DD/YY**.

3.7.8 Temperature unit

The **temperature unit** parameter determines the unit system for the temperature display. The temperature can be set to display $^{\circ}$ C or $^{\circ}$ F.

Note:

Temperature values are only transmitted to the KNX Bus in $^\circ\mathrm{C}$ or K.

Send state objects after restart

The parameter determines whether and after which delay the following objects are sent after power is restored:

- Actual value of internal temperature sensor,
- Actual value of indoor temperature, rated
- Setpoint value shifting,
- Setpoint temperature value,
- Status objects for the operating mode,
- Controller status (Eberle),
- Controller status (RHCC),
- Fan mode.

3.8 General alarms

The global parameters for alarms are set in the **General Alarms** configuration window. The specifications set here apply for all alarms.

Note:

The channel-specific parameters for alarms are defined in the **Channels** configuration window of the respective channel (see Chapter 3.6.8, Page 19).

Automatic switching off of the alarm sound after

This parameter sets the time after which the acoustic signal is switched off. Alone tone sounds for this time duration until the alarm is acknowledged.

Repeat alarm after acknowledgement after

This parameter sets the time, after which an alarm is newly displayed after acknowledgement if it is still active.

Repeat the alarm tone after automatic switching-off after

This parameter sets the time, after which the acoustic signal sounds again after automatic switch-off, if the alarm has not yet been acknowledged and the "*Repeat alarm after acknowledgement after*" takes effect.

This setting only works for alarms, for which the channelspecific parameter **Behavior when an alarm occurs** is set to **Alarm tone repeats permanently**.

3.9 Room temperature control

3.9.1 Functional overview

The room temperature control function contains several function blocks which can be combined with each other.

The room temperature control can be set as:

- heating only,
- cooling only,
- heating and cooling.

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The room temperature can optionally be controlled using a two-point controller, a constant PI controller or a constant PI controller with sequence control.

The following functions are available:

- Toggling between automatic/manual operation via the display or communication object,
- Switching the room operating mode via the display or communication object,
- Shifting the setpoint value using the rotary control,
- Display and adjustment of the fan speeds,
- Display of the active operating mode,
- Display of an opened heating or cooling valve,
- Display of a melting point alarm and open window.

The following partial functions are part of the room temperature control:

- Room temperature measurement using the internal temperature sensor,
- Consideration of a room temperature measurement made by an external temperature sensor,
- Calculation of the current room temperature actual value (internal and external room temperature sensors weighted),
- Calculation of the current room temperature setpoint value from the basic setpoint value, operating mode and setpoint value shifting,
- Extension of comfort mode by time-restricted deactivation of the pre-comfort, energy-saving and protection modes,
- PI-control for heating and cooling with constant variable output (in %) or switching variable outputs (PWM).

Note:

See Chap. 5.1, starting on page 46, for a description of the communication objects and parameters.

3.9.2 Parameter pages

The room temperature control is configured on several parameter pages.

General room temperature controller

The parameter page General room temperature controller is the main page for the configuration of the room temperature control. It is always visible.

The settings on this parameter page determine which additional parameters are visible.

Ventilation

The parameter page is always visible.

- The parameters for this are displayed in the setting "Fan available" set to "Yes".

Temperatures, actual value

The parameter page is always visible.

Controller operating mode

- The parameter page is visible when:
- Device function = controller + control panel.

Operating mode of control panel

- The parameter page is visible when:
- Device function = control panel.

Heating, two-point control

The parameter page is visible when:

Device function = Controller + control panel and Controller mode = heating: two-point control

or

- Device function = Controller + Control panel and Controller mode = Heating & Cooling: Two-point control
- or
- Device function = Controller + Control panel and Controller mode = Heating: two-point control, cooling = sequence control

- Device function = Controller + Control panel and mode = Heating: Two-point control, Cooling = PI-Control.

Heating = PI control

The parameter page is visible when:

- Device function = controller + control panel and
- Controller mode= Heating: Pl control
- or
- Device function = controller + control panel and
- Controller mode = Heating: PI control
- Cooling: Two-point control

or

Device function = controller + control panel and Controller mode = Heating: PI control

Cooling = Sequence control.

Cooling, PI control

The parameter page is visible when:

Device function = controller + control panel and Controller mode = Cooling: PI control

or

Device function = controller + control panel and Controller mode = Heating: Two-point control, Cooling: Pl control

or

- Device function = controller + control panel and Controller mode = Heating: Sequence control, Cooling = PI control.

Heating and cooling, PI control

The parameter page is visible when:

Device function = controller + control panel and Controller mode = Heating & Cooling: PI control.

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or

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Heating, sequence control

The parameter page is visible when:

- Device function = Controller + control panel and Controller mode = Heating: Sequence control
- or
- Device function = controller + control panel and Controller mode = Heating & Cooling: Sequence control
- or
- Device function = controller + control panel and Controller mode = Heating: Sequence control, Cooling = Two-point control

or

 Device function = controller + control panel and Controller mode = Heating: Sequence control, Cooling = Pl control.

Cooling, sequence control

The parameter page is visible when:

- Device function = controller + control panel and Controller mode = Cooling: Sequence control
- or
- Device function = controller + control panel and Controller mode = Heating & cooling: Sequence control
- or
- Device function = controller + control panel and Controller mode = Heating: Two-point control, Cooling = Sequence control
- or
- Device function = controller + control panel and Controller mode= Heating: PI control
- Cooling = Sequence control.

3.9.3 Device function

The **device function** parameter specifies whether the operating and display system should function as a pure operating device or additionally take over control functions.

The device function is set on the **General room** temperature controller parameter page.

Depending on the selection, additional parameter pages are visible:

- **Controller + control panel** activate the additional parameter page **Controller operating mode**.
- **Control panel**: activates the additional parameter page **Control panel mode**.

3.9.4 Controller operating modes

The room temperature control system supports the **heating**, **cooling** and **heating and cooling** operating modes, each with different control systems.

The controller operating modes are selected on the **operating mode controller** parameter page. Depending on this selection, an additional parameter page appears for the specification of the controller mode (e.g. **heating, Pl control**).

Two-point control

The two-point controller checks the current temperature setpoint value in discrete time intervals (cycle time). The heating *l* cooling are switched on or off depending on whether the actual value lies above or below the setpoint value.

The cycle time of the control and the hysteresis of the two-point controller are adjustable.

The two-point control is easy to configure and can be used for controls which permit a minimal fluctuation of the room temperature.

PI-Control

The PI control constantly computes a variable from the input quantities actual and setpoint value. This variable can be transmitted via the KNX bus as a variable ranging from 0...100 % (Figure. 33) or as a pulse width modulated On/Off command (Figure 34) via the KNX Bus.





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Figure. 34. Switching output of the variable (1 Bit)

the type of variable output, the proportional range and the reset time are adjustable.

Sequence control

Can a room be heated (e.g. via floor heating and radiator heating) or cooled in two different ways? Is sequence control practical? The two heating/cooling sources are then not parallel, but controlled in sequence.

An example for heating with floor heating and radiator heating in one room:

- If a room temperature is below the setpoint value, the valve for the floor heating is opened first (sequence 1).
- If the floor heating valve is 100% open and it is still not warm enough, then the radiator valve will open (sequence 2).
- If the room is too warm, the radiator valve opens first and then the floor heating valve closes.

The sequence control converts the internal variable from the constant PI control to two values (Sequence 1 variable, Sequence 2 variable).

The value of the control variable, from which Sequence 2 begins, can be set. The minimum variable change, for which the variable should be sent to the Bus, can also be separately set for each sequence.

The variables are output as constant variable in the range of 0...100 % (1 Byte) (Figure. 35). The output as a pulse width modulated On/Off command (1 Bit) is not possible.



Figure. 35. Sequence control variables (1 Byte)

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3.9.5 Actual value specification

The settings for the actual value specification are made on the **Temperatures, actual value** parameter page.

Internal Temperature sensor

An internal temperature sensor is installed in the Contouch operating and display system.



Figure. 36. Internal sensors on the operating and display system

1) Temperature sensor

The internal temperature sensor measures the ambient temperature of the device in the range of **0° C...+45° C** with a resolution of **0.1 K**. The value can be adapted to environmental influences (e.g. if mounted on an external wall) by means of an offset.

The corrected value is used to specify the actual value.

The sensor value is updated every 10 s.

The sensor values are sent via a communication object. The sending interval can be set.

Behavior of the measured values outside of the measurement range:

- If T < 0° C the display shows LOW. The communication object continues to send 0° C.
- If **T** > **45**° **C** the display shows **HIGH**. The communication object continues to send **45**° **C**.

External indoor temperature sensor

An external indoor temperature sensor can be connected to the Contouch operating and display system.

The sensor should send every temperature change automatically. If this is not the case, the control can query the current value on the external indoor temperature sensor via an additional communication object.

After power restoration, the controller requests the current value from the external indoor temperature sensor independently.

Actual value computation

The device determines the current room temperature actual value from:

- the corrected value of the internal temperature sensor (measured value + offset),
- the value of the external indoor temperature sensor.

Note:

If no values are provided for the following objects basic setpoint value, external temperature and external indoor temperature sensor, or no values can be queried, then a configurable standard value is used.

A configurable weighting is determined to specify the proportion of the externally measured temperature included in the computation of the temperature actual value.

The room temperature actual value can be read from its own communication object or sent automatically or cyclically when a configurable value is changed (see Chapter 5.1.6, page 56).

3.9.6 Setpoint value specification

The settings for the setpoint value specification are made on the **General room temperature controller** parameter page.

The current setpoint value is determined from

- the current room operating mode,
- the basic setpoint value and
- a setpoint value shift which must possibly be considered.

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The basic setpoint value can either be adapted by the communication object (basic setpoint value) or set to a fixed value by a parameter.

When the basic setpoint value is specified via the communication object, the controller independently requests the current value on the bus after restoration of power.

The setpoint value offset is either input directly in °C / °F or as a relative value in **K**. The relative value is internally adopted in the setpoint value computation.

Display on the operating and display system

Depending on the configuration, the setpoint is displayed on the operating and display system in °C / °F or as an offset from the basic setpoint value in K on the Room temperature control operating page.

The user can change the setpoint value with the rotary control on the operating and display system. The change becomes active after a 3-second delay.

3.9.7 Updating the setpoint value on the basis of outside temperature

The operating mode **cooling** offers the option of updating the setpoint value of the outside temperature.

The outside temperature is read via the object Temperature, outside temperature. This object can send read requests to the corresponding object of the external outside temperature sensor cyclically so that it transmits the current value.

If the outside temperature is higher than 26 °C and more than 6 K higher than the current setpoint temperature, then the target temperature is set to a value 6 K under the outside temperature. In this case the setpoint value cannot be shifted to a target temperature which would result in a lower value than the target temperature updated by the outside temperature. Operating modes also have no effect in this case (the mode is changed but the target temperature continues to be determined by the outside temperature). An exception is made when the setpoint value for frost protection or heat protection is exceeded.

3.9.8 Room operating modes

The requirements for room temperature control can vary depending on the current usage of the room.

Several operating modes are available for this, which are each assigned a different setpoint value.

- comfort mode,
- Pre-comfort mode,
- Energy-saving mode,
- Protection mode.

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The operating modes can be switched automatically (automatic mode) or manually (manual mode).



Figure. 37. Room operating modes and setpoint values

The settings for the room operating modes are made on the General room temperature controller and Mode controller or Control panel mode parameter pages.

3.9.8.1 Automatic / manual mode

Automatic mode

In automatic mode, the modes are either switched by external Bus telegrams (see Chapter 3.9.8.11, page 34) or internal time programs. Switching commands from each other control mode are ignored.

Automatic mode is displayed as such on the display.

The Automatic mode via is used to set which type of automatic mode should be active.

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Manual mode

Manual mode offers the option of permanently setting the room operating mode using the display on the operating and display system.

The mode which is permanently activated in manual mode cannot be changed by external bus telegrams, the internal time-switching program or by presence detectors. The permanent protection mode cannot be changed.

Automatic mode can be reactivated on-site by the Contouch or via the corresponding communication objects.

The settings in manual mode are only possible if the device is not in permanent protection mode

3.9.8.2 Comfort mode

Comfort mode is used to set the room temperature to a comfortable level when people are present in the room.

The setpoint value is

- directly adjusted either on the system rotary control by the user or
- computed from the basic setpoint value and the adjusted setpoint value shift.

The setpoint value in comfort mode does not depend on whether heating or cooling is active.

Presence detector

Comfort mode can be activated by a presence detector.

The **Presence detector object visible** parameter is used to define whether **Presence** communication object should be modified.

Messages sent via this communication object are evaluated for the activation of **Comfort mode**.

The following rules apply:

- Comfort mode is switched on when a **Presence = ON** telegram is received.
- If a Presence = OFF telegram is received when Presence = ON, the controller switches after 10 s to the room operating mode which is activated by the internal time program or by bus telegram.
- Opening a window during **Presence = ON** internally activates the protection mode.
- The presence detector telegrams are ignored in manual mode.

Dead zone

A symmetrical dead zone between heating and cooling is defined in the **Heating & Cooling** controller mode to ensure that the heating valve and the cooling valve are not open at the same time.

The size of the dead zone is specified by the parameter **Dead zone between heating and cooling**.

The following rules apply:

- The dead zone takes effect symmetrically around the range of the target temperature.
- The **actual room temperature value T** is queried when power is restored, and heating or cooling is activated depending on the result:
 - T < Setpoint value: Heating;
 - $T \ge$ Setpoint value: Cooling.
- The dead zone is only active in comfort mode.

3.9.8.3 Pre-comfort mode (standby)

The pre-comfort mode serves to keep the room temperature at a specified standby value when no people are present and thus to save heating or cooling energy.

The setpoint value depends on whether heating or cooling is active.

The setpoint value is computed:

- Heating: basic setpoint value temperature reduction for pre-comfort mode + setpoint value shift.
- cooling: basic setpoint value + temperature increase for pre-comfort mode + setpoint value shift.

3.9.8.4 Energy-saving- mode (nighttime reduction)

An additional adjustable value is provided for energysaving mode, in which the room temperature can be controlled during longer periods of absence (or in the nighttime hours).

The setpoint value depends on whether heating or cooling is active.

The setpoint value is computed:

- Heating: basic setpoint value temperature reduction for energy-saving mode + setpoint value shift.
 cooling: basic setpoint value + temperature reduction
- for energy-saving mode + setpoint value shift.

3.9.8.5 Protection mode (frost protection / heat protection)

Protection mode is used to ensure that the room temperature does not exceed or drop below a critical value.

These setpoint values can be set separately for heating or cooling.

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3.9.8.6 Permanent protection mode

The room temperature control can be permanently switched to protection mode during longer periods of absence (e.g. during holidays).

The parameter **Permanent protection mode object visible** specifies whether the permanent protection mode object, which can be used to permanently switch the controller to protection mode, should be modified.

The following rules apply:

- If protection mode is activated by the **permanent protection mode** communication object, it can also be switched off by this communication object.
- Display inputs and telegrams from timers, presence detectors and window contacts are ignored in permanent protection mode.
- The symbol for permanent protection mode appears when the **heating** operating page is called up. Operation is not possible (Figure. 38).
- If the permanent protection mode is switched off by telegram in automatic mode, then the controller switches to the room operating mode which is activated at this time by the internal time program or by bus telegram.
- If the permanent protection mode is switched off by telegram in manual mode, the controller switches to energy-saving mode after deactivation of the permanent protection mode (if this mode is not available, protection mode remains active).



Figure. 38. Heating operating page in permanent protection mode

3.9.8.7 Evaluation of the window states

The evaluation of the window conditions makes it possible for the controller to react to the opening of windows or doors.

Four 1-bit communication objects (# 134 to #137), the messages of which are linked by a logical OR function, are provided for the evaluation of the window conditions.,

The following rules apply:

- If at least one of the communication objects reports an open window, the controller switches to internal protection mode. This means that although the target room temperature value changes (for heating to the value for frost protection, for cooling to the value for heat protection), it is not reported to the bus.
- Changing the target room temperature value to the target frost protection value or target heat protection value causes (reaction time can be configured) the heating or cooling valve to close (reaction time can be configured).
- If at least one of the communication objects reports an open window, this is shown on the display as a symbol.
- Switching to a different mode when a window is open (e.g. by a bus telegram, an internal time program or directly on the Contouch), immediately activates the new mode, but the setpoint value is not activated until the window is closed.

The **reaction to open window** parameter can be used to set a time delay for switching to internal protection mode. This is of practical use if no reaction should occur for every brief opening of a window.

The **Invert window contact** parameter can be used to set the signal value of the status report for each individual window contact:

- No: 0 = closed; 1 = open.
- **Yes:** 0 = open; 1 = closed.

3.9.8.8 Comfort extension

The comfort extension can be used to control the room at the comfort temperature for a certain time period if the room is used outside of the specified comfort operating time (e.g. in the nighttime hours).

The user presses the comfort extension button on the **room temperature control** start screen of the operating and display system to activate the comfort extension (Figure. 39). The rotary control is then used to set the length of the comfort extension.

An on-going comfort extension can be prematurely ended at any time by:

- Setting the time of the comfort extension to 0 on the rotary control,
- Manually changing the room operating mode.

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The following rules apply:

- If a presence detector is used for presence control, (presence visible object = yes), then the comfort extension cannot be manually activated (button is then not visible).
- The comfort extension can be activated from comfort mode, pre-comfort mode, energy-saving mode and protection mode.
- The comfort extension cannot be activated from permanent protection mode.
- The comfort extension can be set to a new value at any time.
- The following applies in automatic mode via an internal time program: After the comfort mode extension ends, the mode is

switched to the mode which is currently active according to the internal time program.

- The following applies in automatic mode via bus telegrams:

After the comfort mode extension ends, the mode is switched to the mode most recently set by bus telegram.

- The following applies in manual mode: After the comfort mode extension ends, the mode is switched to energy-saving mode. If this is not available, the mode is switched to protection mode.

3.9.8.9 Dew point mode

The controller switches to dew point mode if the **dew point alarm** (#133) communication object sends an **ON** signal from a dew point monitor.

The cooling valve closes. It cannot be opened again until the controller has received an approval from the dew point alarm (value = OFF) communication object.

The dew point alarm is shown by a signal on the display.

If one switches to a different mode in dew point mode (e.g. by bus telegram or the internal time program), then the new mode will not become active until the dew point mode ends.

3.9.8.10 Display on the operating and display system

The room temperature control is shown on the operating and display system in a multi-level menu structure.

The room temperature control buttons can be placed on the home-page or on a function page. The room temperature control start screen, which on its part refers to operating pages, can be called up by this button.



Figure. 39. Room temperature control start screen

- 1) Button for mode-toggling operating page
- 2) Temperature specification button (direct target value setting in this case)
- 3) Comfort extension button (with display of the current time remaining)
- 4) "Window open" status symbol
- 5) "Dew point alarm active" status symbol
- 6) "Heating valve open" status symbol
- 7) "Cooling valve open" status symbol

The user can switch manually between operating modes and change to automatic mode on the mode-toggling operating page.

Note:

The modes can only be selected manually when the device is not in **permanent protection mode**.

The number of visible buttons depends on the configuration (available modes, fans).

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- 1) Mode-toggling button automatic mode
- 2) Comfort mode (present) button
- 3) Pre-comfort mode (absent) button
- 4) Energy-saving button (nighttime lowering)
- 5) Protection mode button
- 6) Fan level (automatic, 0, 1, 2, 3) button

3.9.8.11 Mode toggling via the bus

In automatic mode, the mode can be toggled among other ways by external bus telegrams.

3.9.8.12 Control via 1-bit objects

Five 1-bit communication objects are provided for switching the room operating modes (Chapter 5.1.15, objects # 124 to #128).

The following rules apply:

- The communication object switching command **ON** of the mode to be activated is sufficient for mode toggling.
- Mode-switching per telegram is immediately shown on the display but not adopted by the controller until after 3 seconds.
- All communication objects where the switching states have been changed by switching to the new room operating modes, are sent without delay.
- The communication object of the previous mode automatically sends the switching command **OFF**.

In the case of 2-conductor systems with only one heat exchanger and one control valve, where either cold of warm water flow through the piping network, the **heating/cooling** (#130) communication object additionally serves to toggle the control between heating and cooling mode.

3.9.8.13 Control via 1-byte objects

Two 1-byte communication objects can also be used for switching the room operating mode and for the status display (Chapter 5.1.15, Object # 140, #141).

The 8-bit object room operating mode / room operating mode status parameter must be set to Yes for this.

The following applies for the 1-byte object of room operating mode:

- An incoming **0** (automatic mode) deactivates manual mode and activates automatic mode. The room operating mode is set to the last mode received via the bus.
- In automatic mode via an internal time program, only the **0** is evaluated. Other values are rejected. The room operating mode is set to the mode which is active in the internal time program.
- Telegrams with other values besides 0,1,2,3,4, are rejected as errors.
- Telegrams with modes which are not available for the controller are rejected as errors.

Controller Status (Eberle)

The controller status (according to the Eberle standard) can be transmitted by an additional 1-byte communication object (Chapter 5.1.15, Object # 142).

Both the room operating mode and the controller mode are provided by these objects when changes occur.

The **8-bit object controller status (Eberle)** parameter must be set to **Yes** for this.

Controller Status (RHCC)

The status of special controller types (RHCC) can be transmitted by an additional 2-byte communication object (Chapter 5.1.15, # 143).

The controller mode and various states are provided by this object when changes occur.

In addition the **16-Bit Object Controller Status (RHCC)** parameter must be set to **Yes**.

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3.9.8.14 Switching off the controller via the bus

The controller (#129) communication object can be used to switch the controller on and off.

Switch off controller:

- The variable is internally set to OFF.
- All operating modes are shown as inactive on the display.
- The actual temperature value continues to be defined. Telegrams for temperature, frost alarm and heat alarm continue to be sent.
- The last active setpoint temperature value is stored.
- The status is provided on the 1-bit and 1-byte communication objects (bits for operating modes = 0).

Switch controller back on:

- In automatic mode via bus telegrams, the controller sets itself to the last room operating mode selected by bus telegram.
- In automatic mode via an internal time program, the room operating mode is switched to the mode which is active according to the internal time program at the current time.
- In manual mode, the mode is switched to protection mode.

3.9.9 Ventilation

The **ventilation** parameter page is used to configure a fan. The parameter page is not displayed unless the **fan available** parameter is set to **Yes**.

Settings

The following is specified on the parameter page:

- the number of fan speeds and the speed for each individual fan speed.
- the release of the fan for manual mode,
- the behavior when switching over and then switching on again,
- the display type on the device,
- the value for sending the fan mode via the bus.

Automatic fan mode

The fan switches to automatic mode when one of the following conditions occur:

- Change in room operating mode by bus telegram or the internal time program,
- Manual change of the room operating mode at fan speed 0,
- Activation of the room operating mode protection mode.

Note:

With two-point control, there is no automatic activation of the fan speeds. The fan speeds are set manually in this case.

Manual fan mode

The manual fan mode must be released via the **fan manually operable** parameter.

Manually switching to **fan speed 0** turns off the fan. An open heating or cooling valve closes.

This means that the room can neither be cooled nor heated. If, as a result of this, the setpoint value for heating protection is exceeded or the value for frost protection fallen short of, the controller reacts in different ways, depending on the selected mode.

With constant controller:

- The fan switches to automatic fan mode.
- The controller heats or cools until the frost or heat protection setpoint value is reached.
- The fan also remains in automatic mode after these setpoint values are achieved.

With two-point control:

- The fan switches to the next highest fan speed.
- The controller heats or cools until the frost or heat protection setpoint value is reached.
- After reaching the setpoint value the fan switches to fan speed 1. The fan speed can now be switched manually.

Note:

A manual change in the fan speed does not take effect until the target temperature is reached. The fan then switches to the set value.

Automatic activation of the fan speeds

The fan can take on up to 3 fan speeds.

With automation activation, the fan speeds are linked to fixed valve settings of the heating or cooling valve (Figure. 41). With pulse width modulated PI control, the relative time of the **open** valve setting is used.

Fan speed	Number of configured fan speeds			
	1	2	3	
OFF	0 %	0 %	0 %	
1	0,5 – 100 %	0,5 – 50 %	0,5 – 33 %	
2	0	50,5 - 100 %	33,5 – 67 %	
3	0		67,5 – 100 %	
Figure. 41. Activation of the fan speeds depending on				

their number and the setting of the heating valve.

The **fan speed in levels** parameter can be used to set the fan speed for each separate fan level.

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Note:

It is practical to assign the fan speed for the fan levels in ascending order (Level 1 = lowest speed, Level 3 = highest speed).

If this is not the case, then the lower level is retained when the mode is automatically switched to automatic mode.

Since some fans do not start up properly which switched on at fan level 1, the parameter **If fan = OFF, start-up in level** can be used to set a different fan level for the startup.

Note:

The active level is shut off for **0.5 seconds** before switching to a new fan level since two fan levels cannot be switched on simultaneously.

It is recommended that the operating and display system and the fan switching actuator be connected to the same bus line so that this timing of the switching actuator can be maintained.

Display on the operating and display system If the fan control is activated in the **fan available** parameter, then the fan button is shown on the display.



Figure. 42. Button for fan control (here, the fan is in automatic mode)

The fan button can be used to switch the fan to automatic mode, set the fan to a certain fan level or to switch it off:

- 1. Select fan button.
- 2. Set fan mode / fan level with the rotary control and press the rotary knob.

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- 3) Week planner area
- 4) Interval display (time range)
- 5) Interval selection

8) Time program for channels

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3.10.1 Time program for temperature control

The time program for temperature control is created and adapted in the **controller mode** (Figure. 43).

Create time program

- 1. Click on the **<new**> button in the week planner area.
 - A new line with a pre-set distribution of the room operating modes appears.

Adapt time program

- 1. Click on the fields in the **week planner area** of the
 - weekdays on which the time program is to be active.
 The selected weekdays are marked by a green checkmark.

Note

It is not possible to select the same weekday for multiple time programs for temperature control.

2. Select interval.

The interval can either be selected directly by mouse click or in the **Interval selection** area.

The current setting of the selected interval are displayed in the interval editor area.



Figure. 44. Interval editor (time program for temperature control)

- 1) Input of time interval beginning
- 2) Input of time interval end
- 3) Selection of room operating mode
- 4) Divide time interval
- 5) Delete time interval

- 3. Select room operating mode.
- 4. Input start and end of the interval (only possible when multiple intervals exist).

Note:

The shortest interval is 15 min. Intervals can only be changed in 15-minute steps. The start time must precede the end time.

Recreate interval (divide)

If a new interval is to be created, a pre-existing interval must be divided for this purpose.

- 1. Select interval to be divided.
- 2. Click on the **divide** button.
 - The interval is divided into two intervals of the same size.
- 3. Adapt both intervals to meet the requirements.

Delete interval

A marked interval can be deleted with the **delete** button.

Since a time program always requires values defined for the entire day, the following rules apply for deletion:

- Deleting a time interval automatically extends the subsequent interval by this time.
- Deleting a day's last time interval automatically extends the preceding time interval until the end time 23:59:59.

3.10.2 Time program of channels

Every single channel can be separately controlled by a time program. This allows, for example, the light to be switched on and off several times a day.

Note:

See Chapter 3.6, starting on page 12 for the definition of channels.

The time program for channels is created and adapted in the **Channel area** (Figure. 43).

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Create time program

Figure. 45. Interval editor (time program for channels)

- 1) Input of time interval beginning
- 2) Input of time interval end
- 3) The channel value to be sent (dependent on channel)
- 4) Deactivate time interval
- 5) Divide time interval
- 6) Delete time interval
- Click on the <**new**> button in the week planner area.
 An empty line is added.
- 2. Select channel in the **name** selection field.
- 3. Select interval.
- 4. Select value in the value selection field.
 - The time program is created with an interval of 00:00:00 to 23:59:59.
- 5. Click on the fields in the **week planner** area of the
 - weekdays on which the time program is to be active.The selected weekdays are marked by a green
 - checkmark.

Note:

It is not possible to select the same weekday for multiple time programs of one channel. Different channels can be assigned to the same weekdays.

The interval can be divided and adapted for sending additional values to the channel.

Divide and adapt interval

- 1. Select interval to be divided.
- 2. Click on the **divide** button.
 - The interval is divided into two intervals of the same size.
- 3. Select value in the **value** field.
- 4. Define the beginning and end of each interval.

Note:

1.

The shortest interval is 15 min. Intervals can only be changed in 15-minute steps. The start time must precede the end time.

Deactivate interval

The first interval can be deactivated.

Place a checkmark in the **no action** selection field.
 The channel cannot be called up in the marked interval.

Delete interval

A marked interval can be deleted with the delete button.

Since a time program always requires values defined for the entire day, the following rules apply for deletion:

- Deleting a time interval automatically extends the subsequent interval by this time.
- Deleting a day's last time interval automatically extends the preceding time interval up to the end time 23:59:59.

3.10.3 Delete time program

Click on the button to delete the time program.
 ➤ The time program is deleted immediately without a repeated request.

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3.11 Skins

Predefined skins are provided for the button arrangement.

The skin is used for the entire menu structure.

Note:

The skins require storage spaces of various sizes.

The configuration data must be transferred to the operating and display system by MicroSD card.



Figure. 46. Skins selection with preview window

3.12 Menu structure

The menu structure for the display on the operating and display system is defined in this menu.

3.12.1 Surface concept of the control panel

The display and operation using the touchscreen is subdivided into pages. The pages can be configured individually.

The following switching modes are available:

- Home-page
- Function pages,
- Operating pages.

The selection of the configurable pages depends on the available storage space of the operating and display system. Configurations with multiple languages or extensive designs, for example, required more storage space.

Home-page

The home-page is the top page in the menu structure.

On the home-page,

- functions can be called directly,
- jumps can be made to other function pages,
- jumps can be made to operating pages of functions,
- and data displayed.



Figure. 47. Example of a home-page

- 1) Button area (max. 6 buttons)
- 2) Navigation area (here with temperature and time display)

The left and middle field of the navigation area can be configured.

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For displaying data:

- Time,
- Date,
- Outside temperature
- Indoor temperature (current temperature value of internal and external sensors),
- Heating mode,
- Current fan speed.

As button:

- Language change,
- Cleaning function,
- Heating mode,
- Comfort extension,
- Navigation elements (forwards, back, level, start screen)

Function pages

- On a function page:
- functions can be called directly,
- jumps can be made to the home-page or to additional function pages,
- jumps can be made to operating pages of functions,
- and data displayed.

Multiple function pages can be configured.



Figure. 48. Example of a function page

- 1) Button area (max. 6 buttons)
- 2) Navigation area

Operating pages

Operating pages serve to control individual functions. They are preconfigured. When a function is added to the home-page or to a function page, the operating page associated with the function is automatically added to the menu structure.

The button area is designed in different ways depending on the function.

Manual modification of the operating pages is not possible.

On an operating page:

- Values can be selected and functions run,
- Jumps can be made to addition operating pages, to the associated function pages or to the home-page,



Figure. 49. Example of an operating page

- Display of the function (channel name)
- 2) Switching area (dependent on function)
- 3) Navigation area

1)

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3.12.2 Work area and configuration window

The menu structure is defined using a graphic editor. Various templates are predefined for each page. The standard layout consists of six function buttons and three navigational buttons.



Figure. 50. Operational area of the menu structure

- 1) Page administration (main levels)
- 2) Page administration (subordinate levels)
- 3) Configuration of the selected page (allocation of the functions)

Page administration (Main levels)

Function pages can be created and deleted in the **main levels** window. Their sequence can also be changed there.

The home-page is also displayed in this window. It cannot be deleted or moved.

The home-page and the function pages can be renamed in the context menu of the right mouse button.

- 4) Available functions
- 5) Preview window
- 6) Symbol library

Allocation

The page selected in the **main levels** window can be configured in the **allocation** window.

During creation of a new page, an empty template appears which can be filled with functions and symbols per Drag&Drop (see Section 3.12.3 on page 43). The text assigned to the functions is adopted from the function description or the channel designation. It can be adapted in the **languages** window.

The symbols and the associated functions can be deleted in the context menu of the right mouse button.

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Features

All available functions and displays are listed in the **functions** window:

- functions configured by the user (e.g.: switching, shutter, scenes),
- permanently programmed functions and displays

under the item **other** (e.g. navigation elements, date). A control element must be assigned to every function.

- These can be:
- simple buttons,
- buttons with status displays (e.g. progress bars, rotary controls) or
- buttons which refer to other function pages or operating pages.

Standard symbols are assigned to certain functions. These symbols can be exchanged for other symbols from the **symbols** window.

ſ	Forced control: Jump to operating page
	Shutter: Jump to operating page
	Roller blind: Jump to operating page
SET	Send value – fixed: Activation
SET	Send value – variable: Jump to operating page
	Cleaning mode: Activation
DE	Change language: Switching

Figure. 51. Standard symbols for functions

Preview

The **preview** window shows how the current settings are displayed on the operating and display system.

Symbols

The **symbols** window provides a thematically arranged number of symbols for displaying the functions.

The thematic arrangement of the symbols is a suggestion. Since no function has yet been assigned to the symbols in the **symbols** window, they can be freely used. The symbols are assigned to the functions in the **allocation** window.

Symbols cannot be added to or deleted from the **symbols** window.

Other levels

Function pages can be created and deleted in the other levels window. Their sequence can also be changed there.

3.12.3 Create function page

This section describes how a function page is created and configured in the main level.

Note:

Since the method is the same, the configuration of the home-page is not described separately.

- Press the add button in the main level window.
 The add level dialog window appears.
- 2. Select the template for the page layout in the selection template.
- 3. Enter the name of the function page in the text field "New page name".
- 4. Click on the **add** button.
 - The new function page is added to the end of the list in the main level window.

The sequence of the function pages can be changed using the **upwards** and **downwards** buttons.

The buttons can now be consecutively assigned to the desired functions in the allocation window:

- 5. Grab the function from the **Functions** window with the mouse, drag it with the pressed mouse button to the button in the **Allocation** window and release the mouse button there (Drag&Drop).
 - The switch field is assigned to the function.

Note:

If a switch field is already occupied, then the old functions are written over when a new assignment is made.

Continue configuration manually

For certain functions (e.g. roller blinds, send value) all required information is transferred with the assignment. For other functions the configuration of the buttons must be continued manually.

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Figure. 52. Examples of warnings during button configuration

- 1) Button completely configured
- 2) Symbol is missing
- 3) Symbol is missing and function not completely defined

If a symbol is missing:

- 1. Drag a suitable symbol from the **symbols** window via Drag&Drop.
 - If the function is incomplete a selection field with the available functions (e.g. listing of the jump targets for the "Go to Layer" function) appears on the button in the allocation window.
- 2. Select function in the selection field.

Note:

If a warning is displayed even though the button is completely configured, then the function parameters are either incomplete or contain errors. In this case the function parameter setting should be checked.

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4 Transfer of the configuration data

Configuration data cannot be transferred to the device unless the parameters and menu structure are complete. Therefore the configuration is continuously checked during input for:

- Existence of all texts in all languages,
- The accessibility of all functions (incl. scenes and alarm functions).

Note:

The generation will possibly be cancelled if a warning message or error exists.

4.1.1 Configuration data for MicroSD card

- 1. Connect MicroSD card to the PC
- 2. Click on the **generate** button in the menu and symbol bar.
 - A check is made for errors or warning messages.
 Configuration data which cannot be transmitted
 - via the KNX bus are generated and stored on the SD card as **rcconfig.bin**.
 - The project Firmware file is stored on the SD card as rc.bin.
 - If a file with the name RC-Programmingcard.info is located in the root directory of a removable data carrier, then it is interpreted as Contouch MicroSD. Otherwise:
- 3. Select the removable data carrier.

Note:

Pre-existing data are written over without further inquiry.

If an attempt to write to the SD card fails or is cancelled, the data will be written to the local TEMP directory. This path will be shown.

4. Insert the MicroSD card into the Contouch; execute a bus download if required and restart the Contouch (see Chapter 2.2, page 4 and chapter 3.2.3. page 9).

Errors or warnings

If warning messages or errors are found, they are listed in a dialog. The generation of the configuration data can be continued despite errors or cancelled.

- **Generate**: The configuration data are generated and transferred to the MicroSD card.
- **Cancel**: No configuration data is generated. A new tab **generation errors** appears in the menu and symbol bar (see Chapter 4.1.3, page 45).

4.1.2 Parameters in ETS

- 1. Click the **OK** button.
 - All configuration data are stored in the ETS database.
 - Communication objects will possibly be faded in and out and the designations adapted according to the channel designations.
 - Create group address configuration (see Chapter 3.3.1, Page 9).
 - Plug-In is closed.
- 2. In ETS click on Edit→ Program → Physical address and application program.
 - A note appears with the request: Please press programming button...
- 3. Use a sharp object to press the programming button in the BCU (see Chapter 2.2, page 4).
 - > The physical address is transmitted.

Note:

Certain parameters require an update of BCU and Contouch. For this reason the BCU must first be programmed by ETS before the update can occur via the MicroSD card.

If the update via the MicroSD card occurs before the BCU is programmed, then the copying procedure is cancelled and the Contouch displays an error message.

4.1.3 Generation errors

The **Generation errors** tab only appears if the configuration data has been generated with errors. A list of all the errors is stored here so that they can be rectified in sequence.

Languages	Channels	Parameters	Scheduler	Skins	Menu Structure	Generation errors	
	Errors fo	und in last ger	neration:				
$\mathbf{\nabla}$		Layer/Chan	nel/Scene		Item/Property	Me	essage
	- 4	Lighting cor	ntrol		Trigger Jalousie	Pic	ture missing!
	1	Lighting cor	ntrol		Goto Previous	Pic	ture missing!
	A 1	Lighting cor	ntrol		Goto Previous	Ta	rget layer missing!
	4	Control			1_1	Fu	nction missing!
	1.1	Control			1_1	Ge	rman: Text missing
	- 4	Control			1_1	En	glish: Text missing!

Figure. 53. Window generation errors (example)

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5 Parameters and communication objects This chapter provides an overview of the available communication objects and parameters.

5.1 General parameters

The parameter settings determine which communication objects are visible and to which group addresses they can be linked.

🛃 Room Controller Contouc	h UP 204/11	
inport HExport Langua	ge German 🔹 📝 Show warnings Extras 🛛 🍓 Generate Scheduler Skins Menu Structure Generation errors	
Common Alarms, common Room temperature control common Fan Temperatures, current value Operation mode 'panel'	Image: Activate standby after Image: Activate standby jump to Image: Activate standby jump to Image: Touch sound Image: Cleaning mode duration [s] Image: LED colour Image: LED brightness Image: LED saturation Image: LED saturation Image: LED saturation Image: LED saturation Image: Read delay for state objects Image: Time display Image: Date display Image: Temperature unit Image: Send state objects after restart	30 s ▼ home ▼ yes ▼ 60 ↓ 85 ↓ 25 ↓ 25 ↓ 10 s ▼ 24 h ▼ DD.MM.YY ▼ @C ▼ no ▼
		OK Cancel

Figure. 54. Parameter view: General

5.1.1 Parameter display and operation

Parameter	Settings	
Activate standby after	10 s	
-	30 s	
	1 min	
	2 min	
	5 min	
	10 min	
Setting of the display time of the Contouch-Display. The display switches off automatically if is hasn't been used within the time set here.		
Transmission: ETS		
Parameter page: Common		

Parameter	Settings		
At touch in standby jump	home		
to	Last page used		
Display of the Contouch-Display after standby time. Touching the display or operating the rotary control in the standby state shows the page set here.			
Transmission: ETS			
Parameter page: Common			
Parameter	Settings		
Touch sound	no		
yes			
Touching the display to trigger commands and functions is signaled acoustically (short beep) or not signaled.			
Transmission: ETS			
Parameter page: Common			

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Parameter	Settings
Cleaning mode durations	5255
[s]	Default value: 60
Defining the duration of the cleaning function	
Transmission: ETS	
Parameter page: Common	

Parameter	Settings	
LED Colour	0255	
	Examples of settings:	
	0: Red	
	42: Yellow	
	85: Green	
	128: Turquois	
	213: Violet	
Defining the LED colo	r as orientation light	
Transmission · FTS		
Parameter nage: Com	mon	
I ED brightnoss	0 255	
LED Drightness	0255	
	Examples of settings:	
	0: Off	
	25: Pre-set value	
	255: 100% An	
Defining the LED brig	htness as orientation light	
Transmission: ETS		
Parameter page: Com	mon	
LED saturation	0255	
	Examples of settings:	
	0: No saturation, white light	
	254: Pre-set value	
	255: Maximum saturation,	
	complete colors	
Defining the LED saturation as orientation light		
Transmission: ETS		
Parameter page: Gen	eral	

Parameter	Settings		
Long touch time after	2 s		
	3 s		
	5 s		
	10 s		
Defining the time period, afte	r which a prolonged key		
down the key is required for a	example to store scenes		
Transmission: ETS			
Parameter page: Common			
·			
Parameter	Settings		
Read delay for state	0 s		
objects	10 s		
	20 s		
	30 s		
	I MIN		
	2 min		
	4 min		
	5 min		
Setting the delay time after w	which the following status		
objects are queried when the	nower is restored		
 External indoor temperature 	$e_{\text{sensor}}(\#118)$		
 Outdoor temperature senso 	or (#116)		
- Time (#111)			
- Date (#112)			
- Basic setpoint value (#120)			
- Basic selpoint value (#120), - Window 1 to window 4 (#134, #135, #136, #137)			
– Wildow 1 to Wildow 4 (#154, #155, #156, #157), – Presence (#138)			
 Room operating mode (#14 	0),		
 Status objects of the switch 	ing and dimming channels,		
Transmission: ETS			
Parameter page: Common			
Parameter	Settings		
Time display	24 h		
Time display	12 h		
Specification of the time display format.			
With the 12 h format the indicator am (morning) or pm			
(afternoon) is added to the time display.			
Transmission: ETS			
Parameter page: Common			

Parameter	Settings	
Date display	TT.MM.JJ	
	MM/DD/YY	
Definition of the date display format.		
Transmission: ETS		
Parameter page: Common		

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Parameter	Settings
Temperature unit	°C
	°F
Definition of the unit system	for the temperature display
Transmission: ETS	

Parameter page: Common

Parameter	Settings
Send state objects after	No
restart	delayed by 10 s
	delayed by 15 s
	delayed by 18 s

Settings defining whether and with which the delay time the following status objects are sent when the power is restored.

- #113: Brightness, actual value
- #117: Temperature, actual value of internal sensor,
- #119: Temperature, actual indoor value, weighted,
- #121: Setpoint value shifting,
- #122: Temperature, setpoint value,
- #123 to #127: Status objects of the mode (only the objects of the active mode are sent here)
- #142: Controller status (Eberle)
- #143: Controller status (RHCC)
- #154: Fan mode

Transmission: ETS

Parameter page: Common

5.1.2 Parameter objects for display and operation

Obj.	Object name	Function	Туре	Flags	
111	Time / day of	Receive	3 Byte	CWTU	
	week		DPT_TimeOfDay		
This communication object can be used to receive time and weekday data from an external sensor via the KNX bus. The communication object sends a read request when power is restored.					
112DateReceive3 ByteCWTUDPT_Date					
This communication object can be used to receive the date from an external sensor via the KNX bus. The communication object sends a read request when					

power is restored.

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5.1.3 General alarm parameters

🕢 Room Controller Contouc	h UP 204/11		
Timport HExport Langua Languages Channels Parameters	ge German 🔹 📝 Show warnings Extras Generate		
Common Alarms, common Room temperature control common Fan Temperatures, current value Operation mode 'panel'	Mute alarm sound after Repeat alarm after acknowledge after Repeat alarm sound after mute after	1 min ▼ 1 min ▼ 5 min ▼	
			OK Cancel

Figure. 55. Parameter view: General alarms

Parameter	Settings	
Mute alarm sound after	10 s / 30 s /	
	1 min /	
	2 min / 3 min / 4 min /	
	5 min / 6 min / 10 min /	
	15 min / 20 min / 25 min /	
	30 min	
Setting the length of the acoustic signal tone when the		

alarm is not acknowledged. Transmission: sdCard

Parameter page: Alarms, common

Parameter	Settings	
Repeat alarm after	Never /	
acknowledgement after	1 min /	
	2 min / 3 min / 4 min /	
	5 min / 6 min / 10 min /	
	15 min / 20 min / 25 min /	
	30 min / 60 min / 120 min	
Setting the time period after which an alarm is displayed		
again after acknowledgement, if it is still set to active by		
the alarm input communication object.		
Transmission: sdCard		
Parameter page: Alarms, common		

Parameter	Settings	
Repeat alarm sound after mute after	10 s / 30 s / 1 min 2 min / 3 min / 4 min /	
	5 min /	
	6 min / 10 min / 15 min / 20 min / 25 min / 30 min	
20 min / 25 min / 30 min Setting the time period after which the acoustic signal sounds again after it was switched off automatically. The alarm tone is only repeated if the alarm has not been acknowledged. The alarm repetition only works for alarms, for which the channel-specific parameter Behavior when an alarm occurs is set to Alarm tone repeats permanently.		
Transmission: sdCard		
Parameter page: Alarms, common		

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5.1.4 General room temperature control parameters

🛿 Room Controller Contou	ch UP 204/11		
Timport Export Langu Languages Channels Parameters	age German Ge		
Common Alarms, common Room temperature control common Fan Temperatures, current value Operation mode 'controller' Heating, PI control	Pevice function Penable object 'Presence' Penable object 'Permanent protection mode' Penable manual room operation mode change Penable manual setpoint shift Penable ability objects for 'room operation mode' Penable 8-bit objects for 'room operation mode' Penable 8-bit controller state object (Eberle) Penable 16-bit controller state object (RHCC) Penable 17 Penable 18-bit controller state object (RHCC) Penable 19 Penable 19 Penable 10 Penable 10 Penable 10 Penable 11 Penable 12 Penable 13 Penable 14 Penable 14 Penable 15 Penable 16 Penable 16 Penable 16 Penable 17 Penable 17 Penable 18 Penable 19 Penable 19 Penable 10 Penable 10 <	controller + panel • yes • 21 • 30 s • no • no • no • bus telegrams • yes • temperature • +/-3,0 K •	
		ок	ancel

Figure. 56. Parameter view: General room temperature controller

Parameter	Settings	
Device function	Controller + control panel	
	Control panel	
Setting the device function. The setting controls the visibility of the parameter pages mode controller + control panel and control panel mode and also that of the specific parameter pages for heating and cooling.		
mode controller + contr mode and also that of the heating and cooling.	ol panel and control panel e specific parameter pages for	
mode controller + contr mode and also that of the heating and cooling. Transmission: ETS and sd	ol panel and control panel e specific parameter pages for Card	

Parameter	Settings	
Enable Object 'Presence'	No	
	Yes	
Specification of whether the presence communication object should be modified. Messages sent via this communication object are evaluated for the activation of Comfort mode .		
Transmission: ETS und sdCard		
Parameter page: Room temperature control common		

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	_		
Parameter	Settings		
Enable object	No		
'permanent protection	Yes		
mode'			
Specification of whether the permanent protection			
mode communication obje	ect should be modified.		
The Yes setting permanent	ly switches the controller to		
the room operating mode	protection mode via the		
communication object.			
Transmission: ETS and sdCa	ard		
Parameter page: Room terr	perature control common		
Parameter	Settings		
Enable manual room	No		
operation mode change	Yes		
Defines whether the user can change the room			
temperature controller mode (in manual mode).			
Transmission: ETS			
Parameter page: Room temperature control common			
Parameter	Settings		
Enable manual setpoint	No		

chable manual serpoint	NO	
shift	Yes	
Defines whether the user o	an change the setpoint value	
Transmission: ETS		
Parameter page: Room ten	nperature control common	

Parameter	Settings	
Room operation mode	as before voltage failure	
after restart	Comfort mode	
	Pre-comfort mode	
	Energy-saving mode	
	Protection mode	
	Automatic mode	
Specification of the room operating mode to be automatically activated after power is restored.		
The controller is switched in manual mode for comfort		
mode, pre-comfort mode, energy-saving mode and		
protection mode.		
Transmission: ETS		

Parameter page: Room temperature control common

Parameter	Settings	
Enable 8-Bit objects for	No	
'room operation mode'	Yes	
Specification of whether the	r oom operating mode and	
room operating mode statu	s communication objects	
should be modified.		
The values transmitted with t	hese objects are used to set	
the room operating mode or	to report the current room	
Transmission: ETS and sdCard		
Parameter page: Room tempe	erature control common	
Parameter	Settings	
Enable 8-Bit controller	No	
state object (Eberle)	Yes	
Specification of whether the	controller state (Eberle)	
communication object should	be modified.	
This object is used to send the	e controller status and the	
room operating mode status.	This object can also be	
used to query the status.		
– Bit 0: 1 = comfort mode On	l l	
– Bit 1: 1 = pre-comfort mode	e On	
– Bit 2: 1 = energy-saving mode On		
– Bit 3: 1 = protection mode On		
– Bit 4: 1 = dew point alarm On		
– Bit 5: 1 = heating mode		
– Bit 5: 0 = cooling mode		
– Bit 6: 1 = controller Off		
– Bit 6: 0 = controller On		
– Bit 7: 1 = frost alarm / heating alarm		
Transmission: ETS and sdCard		
Parameter page: Room temperature control common		

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Paramotor	Sottings	Par
Enable 16-bit controller	No	Tar
state object (RHCC)	Yes	
Specification to define wheth	Sot	
object Controller state (BHCC) should be modified		
This object is used to send the controller status and the		
room operating mode status. This object can also be		
used to query the status.	Dar	
- Bit 7: 1 = heating mode deactivated		
- Bit 8: 0 = cooling mode		
- Bit 8: 1 = heating mode,	Rea	
- Bit 11: 1 = cooling mode deactivated		
- Bit 12: $1 = \text{frost alarm On}$		
- Bit 14: $1 = heat alarm On$		
The bits: 0, 1, 2, 3, 4, 5, 6, 9, 10	and 15 are permanently set to	Set
Value = 1.		the
Note:		The
Behavior as described in the l	KNX-Manual, DPI 22.101	tem
Transmission: ETS and sdCard	1	eith
Parameter page: Room tempe	erature control common	pro
Parameter	Settings	pro
Maximum duration of	Inactive / 15 min / 30 min /	me
comfort extension	45 min / 60 min / 90 min /	disp
	120 min / 180 min /	Set
	210 min / 240 min	inte
Definition of the maximum ti	me period of the comfort -	ope
extension which can be set by	y the user on the device	Tra
(value range).		Para
- Inactive: Comfort extensio	n is not possible. The	
function is not available on	the device	Par
– 15240 minutes : The fund	ction is available on the	Inv
device The length of the co	mfort extension can be set	
value range	e intervais within the set	Spe
Transmission, ETS and edCard	1	inve
Iransmission: ETS and sdCard		
Parameter page: Room temperature control common		
The parameter is only visible when:		
		Par
Parameter	Settings	Par
Enable object 'State	No	Inv
	Yes	
Specification of whether the comfort extension status		Spe
		inve
Transmission: ETS and sdCard		
Parameter page: Room temperature control common		
The parameter is only visible when:		
resence object visible = NO and		
maximum time of comfort extension \neq inactive		

Parameter	Settings	
Target temperature [°C]	16 26	
· · · · · · · · · · · · · · · · · · ·	Default value: 21	
Setting the basic setpoint value for comfort mode. The value set here can be changed using the basic setpoint value communication object.		
Parameter page: Room tempe	erature control common	
Parameter	Settings	
Reaction on open windows	Immediately	
	15 s	
	30 s	
	60 s	
Setting the time delay for a reaction after evaluation of the window state. The window open status causes the target room temperature value, depending on the setting, to switch either immediately or after the set time delay to the frost		
protection value in heating mode or to the heat protection value in cooling mode and also causes the protection mode to become internally activated (no message to the bus or switching of the mode on the display). Setting a delay time prevents immediately switching to internal protection mode every time a window is briefly opened		
Transmission: ETS		
Parameter page: Room tempe	erature control common	
Deverseter	Catting and	
Parameter	Settings	
invert window contact i	NO Yes	
Specifies whether the signal from window contact #1 is inverted. - No : 0 = closed, 1 = open		
- Yes : 1 = closed, 0 = open		
Transmission: ETS		
Parameter page: Room tempe	erature control common	
Paramotor Cattings		
Invert window contact ?	No	
	Yes	
Specifies whether the signal from window contact #2 is inverted. - No: 0 = closed, 1 = open - Yes: 1 = closed, 0 = open		
Transmission: ETS		
Parameter nage: Room temperature control common		
Parameter page: Room temperature control common		

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Parameter	Settings	
Invert window contact 3	No	
	Yes	
Specifies whether the signal from window contact #3 is		
- No: 0 = closed 1 = open		
- No : 0 = closed, 1 = open - Yes : 1 = closed, 0 = open		
Transmission · FTS		
Parameter nage: Room temp	perature control common	
ralameter page. Noom temp		
Parameter	Settings	
Invert window contact 4	No	
	Yes	
Specifies whether the signal from window contact #4 is inverted. - No: 0 = closed, 1 = open - Yes: 1 = closed, 0 = open		
 No: 0 = closed, 1 = open Yes: 1 = closed, 0 = open 		
Inverted. – No : 0 = closed, 1 = open – Yes : 1 = closed, 0 = open Transmission: ETS		
Inverted. – No : 0 = closed, 1 = open – Yes : 1 = closed, 0 = open Transmission: ETS Parameter page: Room temp	perature control common	
Inverted. - No : 0 = closed, 1 = open - Yes : 1 = closed, 0 = open Transmission: ETS Parameter page: Room temp	perature control common	
Inverted. - No: 0 = closed, 1 = open - Yes: 1 = closed, 0 = open Transmission: ETS Parameter page: Room temp Parameter	erature control common	
Inverted. – No : 0 = closed, 1 = open – Yes : 1 = closed, 0 = open Transmission: ETS Parameter page: Room temp Parameter Automatic mode via	erature control common Settings internal time program	
Inverted. – No: 0 = closed, 1 = open – Yes: 1 = closed, 0 = open Transmission: ETS Parameter page: Room temp Parameter Automatic mode via	Settings internal time program bus telegram	
Inverted. - No: 0 = closed, 1 = open - Yes: 1 = closed, 0 = open Transmission: ETS Parameter page: Room temp Parameter Automatic mode via Specification of the control f	Settings internal time program bus telegram for switching the room	
Inverted. - No: 0 = closed, 1 = open - Yes: 1 = closed, 0 = open Transmission: ETS Parameter page: Room temp Parameter Automatic mode via Specification of the control f operating modes in automat	Settings internal time program bus telegram for switching the room tic mode.	
Inverted. - No: 0 = closed, 1 = open - Yes: 1 = closed, 0 = open Transmission: ETS Parameter page: Room temp Parameter Automatic mode via Specification of the control f operating modes in automat The switching commands fro ignored.	Settings internal time program bus telegram for switching the room tic mode. om each other control are	
Inverted. – No: 0 = closed, 1 = open – Yes: 1 = closed, 0 = open Transmission: ETS Parameter page: Room temp Parameter Automatic mode via Specification of the control f operating modes in automat The switching commands fro ignored. Transmission: ETS	Settings internal time program bus telegram for switching the room tic mode. om each other control are	

Parameter	Settings	
Enable object 'Base	No	
setpoint'	Yes	
Specification of whether the l	base setpoint	
communication object should be visible.		
Transmission: ETS and sdCard		
Parameter page: Room tempe	erature control common	
Parameter	Settings	
Display of setpoint shift	Temperature	
	Setpoint value offset	
Definition of how the setpoin	t value adjustment should	
be displayed.		
 Temperature: Display of th °C or °F 	ie setpoint temperature in	
 Offset: Display of the setpo 	oint value offset in K	
Transmission: ETS		
Parameter page: Room tempe	erature control common	
The parameter is only visible when:		
release setpoint value adjustment = Yes		
Parameter	Settings	
Shifting range of setpoint	± 2.0 K	
	± 3.0 K	
	± 4.0 K	
	± 5.0 K	
Setting of the value range (in	Kelvin) for the offset of the	
basic setpoint value to a higher or lower temperature.		
Transmission: ETS		

Parameter page: Room temperature control common The parameter is only visible when: release setpoint value adjustment = Yes

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5.1.5 Ventilation parameters

🖸 Room Controller Contouc	h UP 204/11	
Import HExport Langua Languages Channels Parameters	ige German 🔹 🔽 Show warnings Extras 🏻 🍓 Scheduler Skins Menu Structure Generation errors	Generate
Common Alarms, common Room temperature control common Fan Temperatures, current value Operation mode 'controller' Heating, PI control	 Fan available Number of fan levels Fan speed for level 1 [%] Fan speed for level 2 [%] Fan speed for level 3 [%] Enable manual fan control If fan off, start at level Calculate fan level display by revolution speed Invert fan operation mode value Holding time for fan level 	yes 33 67 100 yes 1 yes no inactive
		OK Cancel

Figure. 57. Parameter view: Ventilation

Parameter	Settings	
Fan available	No	
	Yes	
Specifies whether a fan is con	Specifies whether a fan is connected.	
Transmission: ETS and sdCard		
Parameter page: Fan		
Parameter	Settings	
Number of fan levels	1	
	2	
3		
Sets the number of adjustable fan speeds.		
The fan speed in levels parameter window is displayed in accordance with the number defined here.		
Transmission: ETS and sdCard		
Parameter page: Fan		
The parameter is only visible when:		
Fan available = Yes		

Parameter	Settings	
Fan speed for level 1 [%]	1100 %	
	Default value: 33	
Fan speed setting (relative to the maximum speed)		
At a setting of 100%, the value 255 is sent via the bus.		
Transmission: ETS		
Parameter page: Fan		
The parameter is only visible when:		
Fan available = Yes		
	a	
Parameter	Settings	
Parameter Fan speed for level 2 [%]	Settings 1100 %	
Parameter Fan speed for level 2 [%]	Settings 1100 % Default value: 67	
Parameter Fan speed for level 2 [%] Fan speed setting (relative to	Settings 1100 % Default value: 67 the maximum speed)	
Parameter Fan speed for level 2 [%] Fan speed setting (relative to At a setting of 100%, the valu	Settings 1100 % Default value: 67 the maximum speed) the 255 is sent via the bus.	
Parameter Fan speed for level 2 [%] Fan speed setting (relative to At a setting of 100%, the valu Transmission: ETS	Settings 1100 % Default value: 67 the maximum speed) the 255 is sent via the bus.	
Parameter Fan speed for level 2 [%] Fan speed setting (relative to At a setting of 100%, the valu Transmission: ETS Parameter page: Fan	Settings 1100 % Default value: 67 the maximum speed) the 255 is sent via the bus.	
Parameter Fan speed for level 2 [%] Fan speed setting (relative to At a setting of 100%, the value Transmission: ETS Parameter page: Fan The parameter is only visible	Settings 1100 % Default value: 67 the maximum speed) the 255 is sent via the bus. when:	
Parameter Fan speed for level 2 [%] Fan speed setting (relative to At a setting of 100%, the valu Transmission: ETS Parameter page: Fan The parameter is only visible Fan available = Yes and	Settings 1100 % Default value: 67 the maximum speed) the 255 is sent via the bus. when:	

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Parameter	Settings	
Fan speed for level 3 [%]	1100 %	
	Default value: 100	
Fan speed setting (relative to the maximum speed)		
At a setting of 100%, the value 255 is sent via the bus.		
Transmission: ETS		
Parameter page: Fan		
The parameter is only visible when:		
Fan available = Yes and		
Number of fan speeds = 3		
Paramotor	Settings	
Enable manual fan control	No	
	Yes	
manually to automatic, OFF, 1, 2 or 3 on the operating and display system. Transmission: ETS		
Transmission: ETS		
Transmission: ETS Parameter page: Fan		
Transmission: ETS Parameter page: Fan The parameter is only visible v	when:	
Transmission: ETS Parameter page: Fan The parameter is only visible v Fan available = Yes	when:	
Transmission: ETS Parameter page: Fan The parameter is only visible Fan available = Yes Parameter	when:	
Transmission: ETS Parameter page: Fan The parameter is only visible Fan available = Yes Parameter If fan off, start at level	when: Settings	
Transmission: ETS Parameter page: Fan The parameter is only visible Fan available = Yes Parameter If fan off, start at level	when: Settings 1 2	
Transmission: ETS Parameter page: Fan The parameter is only visible Fan available = Yes Parameter If fan off, start at level	when: Settings 1 2 3	
Transmission: ETS Parameter page: Fan The parameter is only visible Fan available = Yes Parameter If fan off, start at level Setting the fan speed at whic fan should briefly (for 2 s) sta securely when switched on at always maintained when swit to another.	when: Settings 1 2 3 h a previously deactivated rt up so than it starts up clevel 1. A delay of 0.5 s is cching from one fan speed	
Transmission: ETS Parameter page: Fan The parameter is only visible Fan available = Yes Parameter If fan off, start at level Setting the fan speed at whic fan should briefly (for 2 s) sta securely when switched on at always maintained when swit to another. Transmission: ETS	when: Settings 1 2 3 h a previously deactivated rt up so than it starts up c level 1. A delay of 0.5 s is sching from one fan speed	
Transmission: ETS Parameter page: Fan The parameter is only visible v Fan available = Yes Parameter If fan off, start at level Setting the fan speed at whic fan should briefly (for 2 s) sta securely when switched on at always maintained when swit to another. Transmission: ETS Parameter page: Fan	when: Settings 1 2 3 h a previously deactivated rt up so than it starts up c level 1. A delay of 0.5 s is sching from one fan speed	
Transmission: ETS Parameter page: Fan The parameter is only visible Fan available = Yes Parameter If fan off, start at level Setting the fan speed at whic fan should briefly (for 2 s) sta securely when switched on at always maintained when swit to another. Transmission: ETS Parameter page: Fan The parameter is only visible v	when: Settings 1 2 3 h a previously deactivated rt up so than it starts up c level 1. A delay of 0.5 s is sching from one fan speed when:	
Transmission: ETS Parameter page: Fan The parameter is only visible Fan available = Yes Parameter If fan off, start at level Setting the fan speed at whic fan should briefly (for 2 s) sta securely when switched on at always maintained when swit to another. Transmission: ETS Parameter page: Fan The parameter is only visible Fan available = Yes	when: Settings 1 2 3 h a previously deactivated rt up so than it starts up clevel 1. A delay of 0.5 s is is icching from one fan speed when:	
Transmission: ETS Parameter page: Fan The parameter is only visible v Fan available = Yes Parameter If fan off, start at level Setting the fan speed at whic fan should briefly (for 2 s) sta securely when switched on at always maintained when swit to another. Transmission: ETS Parameter page: Fan The parameter is only visible v Fan available = Yes Parameter	when: Settings 1 2 3 h a previously deactivated rt up so than it starts up clevel 1. A delay of 0.5 s is sching from one fan speed when: Settings	
Transmission: ETS Parameter page: Fan The parameter is only visible v Fan available = Yes Parameter If fan off, start at level Setting the fan speed at whic fan should briefly (for 2 s) sta securely when switched on at always maintained when swit to another. Transmission: ETS Parameter page: Fan The parameter is only visible v Fan available = Yes Parameter Calculate fan level display	when: Settings 1 2 3 h a previously deactivated rt up so than it starts up clevel 1. A delay of 0.5 s is sching from one fan speed when: Settings No	
Transmission: ETS Parameter page: Fan The parameter is only visible v Fan available = Yes Parameter If fan off, start at level Setting the fan speed at whic fan should briefly (for 2 s) sta securely when switched on at always maintained when swit to another. Transmission: ETS Parameter page: Fan The parameter is only visible v Fan available = Yes Parameter Calculate fan level display	when: Settings 1 2 3 h a previously deactivated rt up so than it starts up level 1. A delay of 0.5 s is sching from one fan speed when: Settings No	

Parameter	Settings	
nvert fan operation mode	Νο	
/alue	Yes	
pecifies whether the fan mode value is to be inverted		
when sent or received.		
- No: 1 = automatic mode, 0 = manual mode		
- Yes: 1 = manual mode, 0 = automatic mode		
Fransmission: ETS		
Parameter page: Fan		
The parameter is only visible when:		
Fan available = Yes		
Parameter	Settings	
lolding time for fan level	Inactive	
	1 min	
	2 min	
	5 min	
atting the minimum residence time at the set fee level		

Setting the minimum residence time at the set fan level in the case of automatic switching by the controller by means of the valve setting.

The holding time prevents valve setting changes within the areas around the fan level switching thresholds from constantly changing the fan speed.

Transmission: ETS

Parameter page: Fan The parameter is only visible when: **Fan available = Yes**

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The parameter is only visible when:

3].

Transmission: ETS Parameter page: Fan

Fan available = Yes

values received via the **fan speed status** object. **No**: Direct display of the fan level status objects 1 [2,

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5.1.6 Parameter: Temperatures, actual value

🖬 Room Controller Contoud	h UP 204/11		
Common Alarms, common Room temperatures, current value Operation mode 'controller' Heating, PI control	th UP 204/11 ge German Show warnings Extras Generate Scheduler Skins Menu Structure Generation errors Internal indoor temperature sensor, offset to value Image: Send temperature value sensor, available Image: Send temperature value at change by Image: Send temperature value at change by Image: Send temperature value at change by Image: Send temperature value Image:	no offset yes inactive inactive	
			OK Cancel

Figure. 58. Parameter view: Temperatures, actual value

Parameter	Settings	
Internal indoor	+ 10 K+0.1 K	
temperature sensor, offset	no offset	
to value	–0.1 K–10 K	
Specification of the correction value for the temperature value measured by the internal sensor.		
Transmission: ETS		
Parameter page: Temperatures, current value		

Parameter	Settings	
External indoor	No	
temperature sensor,	Yes	
available		
Setting to define whether the room temperature should be additionally measured at another location in the room.		
 No: No additional indoor temperature sensors connected. 		
 Yes: The communication objects Temperature, actual value of indoor external sensor and Temperature, actual indoor value, weighted are modified. 		
Transmission: ETS and sdCard		
Parameter page: Temperature	es, current value	

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

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Parameter	Settings	
Send temperature value at	0.1 K5.0 K	
change by	inactive	
Defines the value by which the actual value must have		
changed to be resent automatically.		
The object is internally updated every 10 s		
Transmission: ETS		
Parameter page: Temperatures, current value		
Parameter	Settings	
Cycle time to send	5 min10 min120 min	
temperature value	inactive	
Sets the time interval for resending of the actual		

temperature value (in addition to automatic sending when changes occur). Transmission: ETS

Parameter page: Temperatures, current value

Parameter	Settings
Hysteresis for temperature	± 0.1 K
value	± 0.3 K
	± 0.5 K
	± 0.7 K

Determination of the value range of the hysteresis for the actual temperature value.

Hysteresis prevents minor temperature fluctuations from constantly sending new actual values.

Transmission: ETS

Parameter page: Temperatures, current value

Parameter	Settings
External indoor temperature	5 min120 min
sensor, read cycle time	inactive
Sets the time interval for a nev	v query of the additional
indoor temperature measurem	ient.
Transmission: ETS	
Parameter page: Temperatures	s, current value
The parameter is only visible w	/hen:
External indoor temperature	sensor = Yes

Parameter	Settings
External indoor	+ 10 K+0.1 K
temperature sensor, offset	no offset
to value	–0.1 K–10 K
Specification of the correctior value measured by the extern	n value for the temperature al sensor.
Transmission: ETS	
Parameter page: Temperature The parameter is only visible v	es, current value when:
External indoor temperature	e sensor = Yes
Parameter	Settings
Weighting indoor	external sensor only
temperature sensors,	90 % / 10 %
external / built-in	80 % / 20 %
	70 % / 30 %
	60 % / 40 %
	50 % / 50 %
	40 % / 60 %
	30 % / 70 %
	20 % / 80 %
	10 % / 90 %
	internal sensor only
Defines at which ratio (weigh of the external and internal se compute the current actual va – Value 1: external sensor, – Value 2: internal sensor.	ting) the measured values ensors should be used to alue.
Transmission: ETS	

Parameter page: Temperatures, current value The parameter is only visible when:

External indoor temperature sensor = Yes

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Parameter	Settings
External indoor	040
temperature sensor,	Default value: 18
default value [°C]	
Specification of the default va	lue of the externally
measured indoor temperature	e to be used if no value is
received by the corresponding	g communication object.
Transmission: ETS	
Parameter page: Temperature	es, current value
The parameter is only visible v	when:
External indoor temperature	e sensor = Yes
	-
Parameter	Settings
Outdoor temperature, read	5 min10 min120 min
cycle time	inactive
Setting of the time interval fo	r querying the outside
temperature sensor.	
Transmission: ETS	
Parameter page: Temperature	es, current value

Parameter	Settings
Outdoor temperature	+ 10 K+0.1 K
sensor, offset to value	no offset
	–0.1 K–10 K
Specification of the correctior value measured by the outsid	a value for the temperature e temperature sensor.
Transmission: ETS	
Parameter page: Temperature	es, current value
Parameter	Settings
Outside temperature	040
sensor, default value [°C]	Default value: 18
Specification of the default va temperature to be used if nov corresponding communicatio	lue of the outside value is received by the n object.
Transmission: ETS	
Parameter page: Temperature	es, current value

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5.1.7 Parameter Controller/Control Panel mode

Note:

The prerequisite for this parameter page to be visible is:

- Device function parameter = Controller + Control panel (see Section 5.1.4, on page 50).

anguages Channels Parameters Scheduler Skins Menu Structure Generation errors common komm common toom temperature control common an emperatures, current value Dead band between heating and cooling +/-0,75 K • Parameters Cooling, increase temperature for pre-comfort mode Comfort-/pre-comfort-/energy saving-/protection • Peration mode Cooling, increase temperature for pre-comfort mode 2 K • Parameters Cooling, increase temperature for energy saving mode 4 K • Peration, decrease temperature for energy saving mode 4 K • Peration, decrease temperature for energy saving mode 4 K • Perating, decrease temperature for energy saving mode 4 K • Perating, decrease temperature for energy saving mode 4 K • Perating, adjust target temperature depending on outdoor temperature for energy saving mode 4 K • Perating Setpoint for heat protection 35 °C • Perating Setpoint for for sending 10 min • Perating Heat alarm, cycle time for sending 10 min •		Expor	t Langu	age Germ	an 🔻	🛛 🕼 Show warning	is Extras	Genera	ate
Common Alarms, common Room temperature control common Dead band between heating and cooling +/-0,75 K ▼ Fine preatures, current value Dead band between heating and cooling +/-0,75 K ▼ Deparation mode 'controller' Room operation modes comfort./pre-comfort./energy saving-/protection ▼ Heating and cooling, PI control Room operation modes comfort./pre-comfort./energy saving-/protection ▼ Meating and cooling, PI control Room operation modes comfort./pre-comfort./energy saving-/protection ▼ Meating and cooling, PI control Room operation modes comfort./pre-comfort./energy saving-/protection ▼ Meating and cooling, PI control Room operation modes comfort./pre-comfort./energy saving-/protection ▼ Meating and cooling, PI control Room operature for pre-comfort mode 2 K ▼ Meating, decrease temperature for energy saving mode 4 K ▼ Meating, decrease temperature depending on outdoor temperature/yes ▼ Room coling, adjust target temperature depending on outdoor temperature/yes ▼ Room Stopin for frost protection 7 °C Room Stop of the heat protection 35 °C Room Stopin for heat protection 5,0 °C Root alarm, threshold 40 °C Root alarm, threshold Roo Root	anguages	Channels	Parameters	Scheduler	Skins	Menu Structure	Generation	errors	
	Common Alarms, com Room tempe Fan Temperature Operation m Heating and	imon erature contr es, current v ode 'control cooling, PI v	rol common value ler' control	Cool Cool Cool Cool Cool Cool Cool Cool	ration moo d band be m operatic ing, increa ting, decre ting, decre ting, decre ting, decre ting, adjus ing, adjus toint for fre toint for fre toint for he t alarm, th t alarm, cy	de tween heating and on modes ase temperature for case temperature for case temperature for ase temperature for t target temperatur ost protection ast protection meshold ycle time for sendin wels time for sendin	cooling r pre-comfo or pre-comfo or energy sav re dependin ig	rt mode ort mode ving mode ing mode g on outdoor	heating & cooling: PI control ▼ +/-0,75 K ▼ comfort-/pre-comfort-/energy saving-/protection ▼ 2 K ▼ 2 K ▼ 4 K ▼ 4 K ▼ 7 °C ▼ 35 °C ▼ 5,0 °C ▼ 10 min ▼ 40 °C ▼

Figure. 59. Parameter view: Controller operating mode

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Operation Mode	Heating: two-point control Heating & cooling: PI-Control Heating, sequence control Cooling: two-point control
Mode	Heating & cooling: PI-Control Heating, sequence control Cooling: two-point control
	Heating, sequence control Cooling: two-point control
1	Cooling: two-point control
1	
	Cooling: PI control
	Cooling: sequence control
	Heating & cooling: two-point control
	Heating & cooling: PI control
	Heating & cooling: sequence control
	Heating: Two-point control, Cooling: Pl control
	Heating: PI-control Cooling: Two-point control
	Heating: PI-control Cooling: Sequence control
	Heating: Sequence control
1	Cooling: PI-Control
	Heating: Two-point control Cooling: Sequence control
	Heating: Sequence control Cooling: Two-point control
Determining the	modes
Transmission: ET	S and sdCard
Parameter page:	Operation mode "controller"
The parameter is	only visible when:
Device function	- Controller + Control nanel

rafameter		Settings
Dead band be	tween	± 0.25 K
heating and co	ooling	± 0.5 K
		± 0.75 K
		± 1.0 K
		± 1.5 K
		± 2.0 K
		± 2.5 K
		± 3.0 K
Sets the dead z	one between	heating and cooling
The dead zone	is only effectiv	ve in comfort mode.
Transmission · F	TS	
Parameter page	- Operation n	ada "controllar"
The parameter	is only visible	when:
Mede best	ting and cooli	men.
	Ling and cool	ng
The parameter	is only visible	when:
Execute set	is only visible	when:
- Execute setp	onit value col	iipulation = Tes
Parameter	Settings	
Room	Comfort/pro	tection mode
operation	Comfort/end	ergy-saving/ protection
modes	mode	57 - 51
	Comfort/pr	e-comfort /energy-saving/ mode
	protection	mode
Setting the roo		nodes for room temperatur
Setting the 100	m operating n	ioues for foorm temperatur
control	m operating n	iodes for foort temperatur
control Transmission: E	TS and sdCard	
control Transmission: E Parameter page	TS and sdCard e: Operation n	node "controller"
control Transmission: I Parameter page Parameter page	TS and sdCard CTS and sdCard e: Operation n e: Operation n	node "controller" node "panel"
control Transmission: I Parameter page Parameter page	TS and sdCard CTS and sdCard Coperation n Coperation n	d node "controller" node "panel"
control Transmission: I Parameter page Parameter page Parameter	TS and sdCard CTS and sdCard Coperation n Coperation n	d node "controller" node "panel" Settings
control Transmission: I Parameter page Parameter page Parameter Cooling, incre	TS and sdCard ETS and sdCard e: Operation n e: Operation n	node "controller" node "panel" Settings
control Transmission: I Parameter page Parameter page Parameter Cooling, increatemperature f	TS and sdCard e: Operation n e: Operation n ase or pre-	node "controller" node "panel" Settings 1 K 2 K
control Transmission: I Parameter page Parameter page Parameter Cooling, increated temperature f comfort mode	ase or pre-	node "controller" node "panel" Settings 1 K 2 K 3 K
control Transmission: I Parameter page Parameter page Parameter Cooling, increated temperature f comfort mode	m operating n ETS and sdCard e: Operation n e: Operation n ase or pre-	d node "controller" node "panel" Settings 1 K 2 K 3 K 4 K
control Transmission: I Parameter page Parameter page Parameter Cooling, increa temperature f comfort mode	m operating n ETS and sdCard e: Operation n e: Operation n ase or pre-	d node "controller" node "panel" Settings 1 K 2 K 3 K 4 K 5 K
control Transmission: I Parameter page Parameter page Parameter Cooling, increatemperature f comfort mode Setting the terr	TS and sdCard e: Operation n e: Operation n ase or pre-	settings Settings 1 K 2 K 3 K 4 K 5 K e by which the setpoint
control Transmission: I Parameter page Parameter page Parameter Cooling, increated temperature f comfort mode Setting the terr value of the roo	TS and sdCard e: Operation n e: Operation n ase or pre-	Settings 1 K 2 K 3 K 4 K 5 K e by which the setpoint re should be raised when
control Transmission: I Parameter page Parameter page Parameter Cooling, increatemperature f comfort mode Setting the tem value of the roo comfort mode	TS and sdCard e: Operation n e: Operation n ase or pre-	Settings 1 K 2 K 3 K 4 K 5 K e by which the setpoint re should be raised when pre-comfort mode in
Control Transmission: I Parameter page Parameter page Parameter Cooling, increatemperature f comfort mode Setting the terr value of the roo comfort mode.	moperating n ETS and sdCard e: Operation n e: Operation n ase or pre-	Image: solution temperature image: solution temperature
Control Transmission: I Parameter page Parameter page Parameter Cooling, increatemperature f comfort mode Setting the terr value of the roo comfort mode cooling mode. Transmission: I	TS and sdCard e: Operation n e: Operation n ase or pre-	Index for room temperature node "controller" node "panel" Settings 1 K 2 K 3 K 4 K 5 K e by which the setpoint re should be raised when pre-comfort mode in
control Transmission: I Parameter page Parameter page Parameter Cooling, increa temperature f comfort mode Setting the tem value of the roo comfort mode cooling mode. Transmission: I Parameter page	TS and sdCard e: Operation n e: Operation n ase or pre-	Index for room temperature Index "controller" Settings 1 K 2 K 3 K 4 K 5 K e by which the setpoint re should be raised when pre-comfort mode in
control Transmission: I Parameter page Parameter page Parameter Cooling, increa temperature f comfort mode Setting the tem value of the roo comfort mode cooling mode. Transmission: I Parameter page The parameter	TS and sdCard e: Operation n e: Operation n e: Operation n ase or pre- or pre- or pre- toperature valu om temperatu is switched to e: Operation n is only visible	Index for room temperature Index "controller" Index "panel" Settings 1 K 2 K 3 K 4 K 5 K e by which the setpoint re should be raised when pre-comfort mode in node "controller" when:
control Transmission: F Parameter page Parameter page Parameter page Parameter page Cooling, incre- temperature f comfort mode comfort mode cooling mode. Transmission: F Parameter page The parameter – Mode = cool	TS and sdCard e: Operation n e: Operation n e: Operation n ase or pre- perature valu om temperatu is switched to ETS e: Operation n is only visible ing or mode	Indes for foorm temperature Inde "controller" Inde "panel" Settings 1 K 2 K 3 K 4 K 5 K e by which the setpoint re should be raised when pre-comfort mode in node "controller" when: = heating and cooling and
control Transmission: F Parameter page Parameter page Parameter page Parameter page Parameter Cooling, increated temperature f comfort mode cooling the tem value of the roo comfort mode cooling mode. Transmission: F Parameter page The parameter – Mode = cool – Room opera	TS and sdCard e: Operation n e: Operation n e: Operation n ase or pre- operature valu om temperatu is switched to e: Operation n is only visible ing or mode ting modes =	Index for foorm temperature Inde "controller" Inde "panel" Settings 1 K 2 K 3 K 4 K 5 K e by which the setpoint re should be raised when pre-comfort mode in mode "controller" when: = heating and cooling and cooling and comfort/pre-comfort
control Transmission: F Parameter page Parameter page Parameter page Parameter page Cooling, increated temperature f comfort mode cooling the tem value of the roo confort mode cooling mode. Transmission: F Parameter page The parameter – Mode = cool – Room opera /energy-savi	TS and sdCard e: Operation n e: Operation n e: Operation n ase or pre- perature valu om temperatu is switched to ETS e: Operation n is only visible ing or mode ting modes = ng/ protectio	Index for room temperature Index "controller" Index "panel" Settings 1 K 2 K 3 K 4 K 5 K e by which the setpoint re should be raised when pre-comfort mode in mode "controller" when: = heating and cooling and cooling and comfort/pre-comfort n mode
Control Transmission: I Parameter page Parameter page Parameter page Parameter page Parameter Cooling, increated temperature f comfort mode Cooling the tem value of the root cooling mode. Transmission: I Parameter page The parameter – Mode = cool – Room operator Jenergy-savi Parameter page	TS and sdCard e: Operation n e: Operation n e: Operation n ase or pre- perature valu om temperatu is switched to ETS e: Operation n is only visible ing or mode ting modes = ng/ protection e: Operation n	Index for room temperature Index "controller" Index "panel" Settings 1 K 2 K 3 K 4 K 5 K e by which the setpoint re should be raised when pre-comfort mode in mode "controller" when: = heating and cooling and cooling and comfort/pre-comfort n mode mode "panel"
Control Transmission: I Parameter page Parameter page Parameter page Parameter page Parameter Cooling, increated temperature for comfort mode comfort mode cooling mode. Transmission: I Parameter page The parameter page Parameter page Para	TS and sdCard e: Operation n e: Operation n e: Operation n ase or pre- or pre- or pre- or pre- ting reperation n is only visible ing or mode ting modes = ng/ protection e: Operation n is only visible	Index for foorm temperature Index "controller" Index "panel" Settings 1 K 2 K 3 K 4 K 5 K e by which the setpoint re should be raised when pre-comfort mode in mode "controller" when: = heating and cooling and cooling and cooling and cooling and code "panel" when:

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- Execute setpoint value computation = Yes

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Parameter	Settings	
Heating, decrease	1 K	
temperature for pre-	2 К	
comfort mode	3 К	
	4 K	
	5 K	

Setting the temperature value by which the setpoint value of the room temperature should be lowered when comfort mode is switched to pre-comfort mode in heating mode.

6 K

Transmission: ETS

Parameter page: Operation mode "controller" The parameter is only visible when:

- Mode = heating or mode = heating and cooling and

 Room operating modes = Comfort-/Pre-Comfort-/Energy-saving-/Protection mode or Room operating modes = Comfort-/Energy-saving-/Protection mode
 Parameter page: Operation mode "panel"

The parameter is only visible when:

- Execute setpoint value computation = Yes

Parameter	Settings
Heating, decrease	1 K
temperature for energy	2 K
saving mode	3 K
	4 K
	5 K

Setting the temperature value by which the setpoint value of the room temperature should be lowered when comfort mode is switched to energy saving mode in heating mode.

Transmission: ETS

Parameter page: Operation mode "controller" The parameter is only visible when:

Mode = heating or mode = heating and cooling and
 Room operating modes = comfort/pre-comfort

/energy-saving/ protection mode

Parameter page: Operation mode "panel" The parameter is only visible when:

- Execute setpoint value computation = Yes

Parameter	Settings
Cooling, increase	1 K
temperature for energy	2 K
saving mode	3 K
	4 K
	5 K
	6 K
Setting of the temperature value of the room temperature	lue by which the setpoint
opposed to comfort mode wh	en the mode is switched i
energy-saving mode.	en the mode is switched
Transmission: ETS	
Parameter page: Operation m	ode "controller"
The parameter is only visible v	when:
- Mode = cooling or mode =	• heating and cooling an
– Room operating modes = 0	Comfort/Pre-
comfort/Energy-saving/Pro	otection mode or Room
operating modes = Comfo	rt/Energy-
saving/Protection mode	
Parameter page: Operation m	ode "panel"
The parameter is only visible v	when:
- Execute setpoint value con	putation = Yes
- Execute setpoint value con Parameter	putation = Yes Settings
- Execute setpoint value con Parameter Cooling, adjust target	Settings
- Execute setpoint value con Parameter Cooling, adjust target temperature depending on	No Yes
- Execute setpoint value con Parameter Cooling, adjust target temperature depending on outdoor temperature	No Yes
- Execute setpoint value con Parameter Cooling, adjust target temperature depending on outdoor temperature Setting to define whether the	Settings No Yes setpoint temperature
- Execute setpoint value con Parameter Cooling, adjust target temperature depending on outdoor temperature Setting to define whether the should track the outside temp	Settings No Yes setpoint temperature erature in cooling mode.
- Execute setpoint value con Parameter Cooling, adjust target temperature depending on outdoor temperature Setting to define whether the should track the outside temp If Yes is selected: The setpoint temperature value	Settings No Yes setpoint temperature erature in cooling mode.
- Execute setpoint value con Parameter Cooling, adjust target temperature depending on outdoor temperature Setting to define whether the should track the outside temp If Yes is selected: The setpoint temperature value with the outside temperature	Settings No Yes setpoint temperature erature in cooling mode.
- Execute setpoint value con Parameter Cooling, adjust target temperature depending on outdoor temperature Setting to define whether the should track the outside temp If Yes is selected: The setpoint temperature valu with the outside temperature is above 26 °C and 6 K above 1	Settings No Yes setpoint temperature erature in cooling mode. ue updated in accordance if the outside temperatur the currently set target
- Execute setpoint value con Parameter Cooling, adjust target temperature depending on outdoor temperature Setting to define whether the should track the outside temp If Yes is selected: The setpoint temperature value with the outside temperature is above 26 °C and 6 K above to temperature. The setpoint temperature	Settings No Yes setpoint temperature erature in cooling mode. ue updated in accordance if the outside temperature the currently set target nperature in this case is 6
- Execute setpoint value con Parameter Cooling, adjust target temperature depending on outdoor temperature Setting to define whether the should track the outside temp If Yes is selected: The setpoint temperature value with the outside temperature is above 26 °C and 6 K above 1 temperature. The setpoint temperature below the outside temperature	Settings No Yes setpoint temperature erature in cooling mode. ue updated in accordance if the outside temperature the currently set target nperature in this case is 6 e.
- Execute setpoint value con Parameter Cooling, adjust target temperature depending on outdoor temperature Setting to define whether the should track the outside temp If Yes is selected: The setpoint temperature valu with the outside temperature is above 26 °C and 6 K above 1 temperature. The setpoint tem below the outside temperature – The setpoint temperature for	Settings No Yes setpoint temperature erature in cooling mode. ue updated in accordance if the outside temperature the currently set target nperature in this case is 6 re. or cooling is set to the
 Execute setpoint value con Parameter Cooling, adjust target temperature depending on outdoor temperature Setting to define whether the should track the outside temp If Yes is selected: The setpoint temperature value with the outside temperature is above 26 °C and 6 K above to temperature. The setpoint temperature below the outside temperature The setpoint temperature for value of the heat protection 	Settings No Yes setpoint temperature erature in cooling mode. ue updated in accordance if the outside temperature the currently set target nperature in this case is 6 e. or cooling is set to the n cooling setpoint
 Execute setpoint value con Parameter Cooling, adjust target temperature depending on outdoor temperature Setting to define whether the should track the outside temp If Yes is selected: The setpoint temperature value with the outside temperature is above 26 °C and 6 K above temperature. The setpoint temperature The setpoint temperature for value of the heat protectio parameter if the updated set 	Settings No Yes setpoint temperature erature in cooling mode. ue updated in accordance if the outside temperature the currently set target nperature in this case is 6 e. or cooling is set to the n cooling setpoint ttpoint temperature > the
 Execute setpoint value con Parameter Cooling, adjust target temperature depending on outdoor temperature Setting to define whether the should track the outside temp If Yes is selected: The setpoint temperature value with the outside temperature is above 26 °C and 6 K above to temperature. The setpoint temperature below the outside temperature The setpoint temperature for value of the heat protectio parameter if the updated set 	Settings No Yes setpoint temperature erature in cooling mode. ue updated in accordance if the outside temperature the currently set target nperature in this case is 6 e. or cooling is set to the n cooling setpoint topoint temperature > the n cooling setpoint
 Execute setpoint value con Parameter Cooling, adjust target temperature depending on outdoor temperature Setting to define whether the should track the outside temp If Yes is selected: The setpoint temperature value with the outside temperature is above 26 °C and 6 K above to temperature. The setpoint temperature below the outside temperature The setpoint temperature for value of the heat protection parameter if the updated set value of the heat protection parameter. The setpoint value closes con 	Settings No Yes setpoint temperature erature in cooling mode. ue updated in accordance if the outside temperature the currently set target nperature in this case is 6 re. or cooling is set to the n cooling setpoint topoint temperature > the n cooling setpoint
 Execute setpoint value con Parameter Cooling, adjust target temperature depending on outdoor temperature Setting to define whether the should track the outside temp If Yes is selected: The setpoint temperature value with the outside temperature is above 26 °C and 6 K above 1 temperature. The setpoint temperature below the outside temperature for value of the heat protectio parameter if the updated set value of the heat protectio parameter. 	Settings No Yes setpoint temperature erature in cooling mode. We updated in accordance if the outside temperature the currently set target inperature in this case is 6 re. For cooling is set to the n cooling setpoint tepoint temperature > the n cooling setpoint mpletely when the dew
 Execute setpoint value con Parameter Cooling, adjust target temperature depending on outdoor temperature Setting to define whether the should track the outside temp If Yes is selected: The setpoint temperature valu with the outside temperature is above 26 °C and 6 K above 1 temperature. The setpoint temperature below the outside temperature The setpoint temperature for value of the heat protectio parameter if the updated set value of the heat protectio parameter. The cooling valve closes cor point alarm parameter = ad 	Settings No Yes setpoint temperature erature in cooling mode. ue updated in accordance if the outside temperature nperature in this case is 6 e. or cooling is set to the n cooling setpoint etpoint temperature > the n cooling setpoint etpoint temperature > the n cooling setpoint etpoint temperature > the n pletely when the dew ctive.
 Execute setpoint value con Parameter Cooling, adjust target temperature depending on outdoor temperature Setting to define whether the should track the outside temp If Yes is selected: The setpoint temperature value with the outside temperature is above 26 °C and 6 K above to temperature. The setpoint temperature for the neat protection parameter if the updated set value of the heat protection parameter. The cooling valve closes cor point alarm parameter = ac Transmission: ETS 	Settings No Yes setpoint temperature erature in cooling mode. ue updated in accordance if the outside temperature the currently set target nperature in this case is 6 e. or cooling is set to the n cooling setpoint topoint temperature > the n cooling setpoint mpletely when the dew ctive.
 Execute setpoint value con Parameter Cooling, adjust target temperature depending on outdoor temperature Setting to define whether the should track the outside temp If Yes is selected: The setpoint temperature value with the outside temperature is above 26 °C and 6 K above to temperature. The setpoint temperature below the outside temperature for value of the heat protection parameter if the updated set value of the heat protection parameter. The cooling valve closes cor point alarm parameter = ac Transmission: ETS Parameter page: Operation m 	Settings No Yes setpoint temperature erature in cooling mode. ue updated in accordance if the outside temperature the currently set target nperature in this case is 6 re. or cooling is set to the n cooling setpoint topoint temperature > the n cooling setpoint mpletely when the dew ctive. ode "controller" when:
 Execute setpoint value con Parameter Cooling, adjust target temperature depending on outdoor temperature Setting to define whether the should track the outside temp If Yes is selected: The setpoint temperature value with the outside temperature is above 26 °C and 6 K above to temperature. The setpoint temperature below the outside temperature The setpoint temperature for value of the heat protection parameter if the updated set value of the heat protection parameter. The cooling valve closes cor point alarm parameter = ad Transmission: ETS Parameter page: Operation m The parameter is only visible value 	Settings No Yes Setpoint temperature erature in cooling mode. Use updated in accordance if the outside temperature the currently set target nperature in this case is 6 re. or cooling is set to the n cooling setpoint tpoint temperature > the n cooling setpoint the controller mpletely when the dew ctive.

Application program description

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Parameter	9	Settings
Setpoint for frost	[5 °C10 °C
protection	I	Default value: 7 °C
Specification of the setpoin	t va	alue for the frost
protection mode.		
The frost protection mode (inte	ernal only) is activated, for
example, if the window op	en	status is received and the
controller is in heating mod	e.	
Transmission: ETS		
Parameter page: Operation	mc	ode "controller"
The parameter is only visible	e w	/hen:
– Mode = heating or mode	e =	heating and cooling
Parameter page: Operation	mc	ode "panel"
The parameter is only visible	e w	/hen:
- Execute setpoint value co	om	putation = Yes
Deverseter		C attin na
Parameter Cotrolint for boot musto stir		Settings
Setpoint for heat protection	n	
		Default value: 35 °C
Specification of the setpoin	t va	lue for the Heat
Specification of the setpoint protection mode.	t va	alue for the Heat
Specification of the setpoin protection mode. The frost protection mode (t va inte	alue for the Heat ernal only) is activated, for
Specification of the setpoin protection mode. The frost protection mode (example, if the window op controller is in cooling mod	t va inte en	alue for the Heat ernal only) is activated, for status is received and the
Specification of the setpoint protection mode. The frost protection mode (example, if the window op controller is in cooling mode Transmission: ETS	t va inte en e.	alue for the Heat ernal only) is activated, for status is received and the
Specification of the setpoint protection mode. The frost protection mode (example, if the window op controller is in cooling mode Transmission: ETS Parameter page: Operation	t va inte en e.	alue for the Heat ernal only) is activated, for status is received and the
Specification of the setpoint protection mode. The frost protection mode (example, if the window op controller is in cooling mode Transmission: ETS Parameter page: Operation The parameter is only visible	t va inte e. mc	alue for the Heat ernal only) is activated, for status is received and the ode "controller"
Specification of the setpoint protection mode. The frost protection mode (example, if the window op controller is in cooling mode Transmission: ETS Parameter page: Operation The parameter is only visible – Mode = cooling or mode	t va inte en e. mc e w	alue for the Heat ernal only) is activated, for status is received and the ode "controller" then: beating and cooling
Specification of the setpoint protection mode. The frost protection mode (example, if the window op controller is in cooling mode Transmission: ETS Parameter page: Operation The parameter is only visible – Mode = cooling or mode Parameter page: Operation	t va inte en e. mc e w e =	alue for the Heat ernal only) is activated, for status is received and the ode "controller" <i>h</i> en: heating and cooling ode "panel"
Specification of the setpoint protection mode. The frost protection mode (example, if the window op controller is in cooling mode Transmission: ETS Parameter page: Operation The parameter is only visible – Mode = cooling or mode Parameter page: Operation The parameter is only visible	t va inte en e. mc e w e = mc	alue for the Heat ernal only) is activated, for status is received and the ode "controller" /hen: heating and cooling ode "panel" /hen:
Specification of the setpoint protection mode. The frost protection mode (example, if the window op controller is in cooling mode Transmission: ETS Parameter page: Operation The parameter is only visible – Mode = cooling or mode Parameter page: Operation The parameter is only visible - Execute setpoint value co	t va inte en e. mc e w e = mc e w	alue for the Heat ernal only) is activated, for status is received and the ode "controller" /hen: heating and cooling ode "panel" /hen: putation = Yes
Specification of the setpoint protection mode. The frost protection mode (example, if the window op controller is in cooling mode Transmission: ETS Parameter page: Operation The parameter is only visible – Mode = cooling or mode Parameter page: Operation The parameter is only visible - Execute setpoint value co	t va inte en e. mo e w e w e w om	alue for the Heat ernal only) is activated, for status is received and the ode "controller" /hen: heating and cooling ode "panel" /hen: putation = Yes
Specification of the setpoint protection mode. The frost protection mode (example, if the window op controller is in cooling mode Transmission: ETS Parameter page: Operation The parameter is only visible – Mode = cooling or mode Parameter page: Operation The parameter is only visible - Execute setpoint value co Parameter	t va inte en e. mc e w e = mc e w om	alue for the Heat ernal only) is activated, for status is received and the ode "controller" /hen: heating and cooling ode "panel" /hen: putation = Yes
Specification of the setpoint protection mode. The frost protection mode (example, if the window op controller is in cooling mode Transmission: ETS Parameter page: Operation The parameter is only visible – Mode = cooling or mode Parameter page: Operation The parameter is only visible - Execute setpoint value co Parameter Frost alarm, threshold	t va inte en e. mc e w e w e w om	alue for the Heat ernal only) is activated, for status is received and the ode "controller" /hen: heating and cooling ode "panel" /hen: putation = Yes Settings
Specification of the setpoint protection mode. The frost protection mode (example, if the window op controller is in cooling mode Transmission: ETS Parameter page: Operation The parameter is only visible – Mode = cooling or mode Parameter page: Operation The parameter is only visible - Execute setpoint value co Parameter Frost alarm, threshold	t va inte en e. mc e w e w om	alue for the Heat ernal only) is activated, for status is received and the ode "controller" /hen: heating and cooling ode "panel" /hen: putation = Yes Settings non D °C5,0 °C
Specification of the setpoint protection mode. The frost protection mode (example, if the window op controller is in cooling mode Transmission: ETS Parameter page: Operation The parameter is only visible – Mode = cooling or mode Parameter page: Operation The parameter is only visible - Execute setpoint value co Parameter Frost alarm, threshold	t va inte en e. mo e w e w om	alue for the Heat ernal only) is activated, for status is received and the ode "controller" /hen: heating and cooling ode "panel" /hen: putation = Yes Settings non 0 °C5,0 °C Default value: 5,0 °C
Specification of the setpoint protection mode. The frost protection mode (example, if the window op controller is in cooling mode Transmission: ETS Parameter page: Operation The parameter is only visible – Mode = cooling or mode Parameter page: Operation The parameter is only visible - Execute setpoint value co Parameter Frost alarm, threshold Specification of the temperation	t va inte en e. mc e w e w e mc e w om	alue for the Heat ernal only) is activated, for status is received and the ode "controller" /hen: heating and cooling ode "panel" /hen: putation = Yes Settings non D°C5,0 °C Default value: 5,0 °C re value limit, after which
Specification of the setpoint protection mode. The frost protection mode (example, if the window op controller is in cooling mode Transmission: ETS Parameter page: Operation The parameter is only visible – Mode = cooling or mode Parameter page: Operation The parameter is only visible - Execute setpoint value co Parameter Frost alarm, threshold Specification of the temperation the controller reports a frost	t va inte en e. mc e w e w e w om r (I I atu	alue for the Heat ernal only) is activated, for status is received and the ode "controller" /hen: heating and cooling ode "panel" /hen: putation = Yes Settings non D °C5,0 °C Default value: 5,0 °C re value limit, after which arm.
Specification of the setpoint protection mode. The frost protection mode (example, if the window op controller is in cooling mode Transmission: ETS Parameter page: Operation The parameter is only visible – Mode = cooling or mode Parameter page: Operation The parameter is only visible - Barameter is only visible - Execute setpoint value co Parameter Frost alarm, threshold Specification of the temperative the controller reports a frost Transmission: ETS	t va inte en e. mc e w e w e w om r (I u t al	alue for the Heat ernal only) is activated, for status is received and the ode "controller" /hen: heating and cooling ode "panel" /hen: putation = Yes Settings non D °C5,0 °C Default value: 5,0 °C re value limit, after which arm.
Specification of the setpoint protection mode. The frost protection mode (example, if the window op controller is in cooling mode Transmission: ETS Parameter page: Operation The parameter is only visible – Mode = cooling or mode Parameter page: Operation The parameter is only visible - Execute setpoint value co Parameter Frost alarm, threshold Specification of the temperative the controller reports a frost Transmission: ETS Parameter page: Operation	t va inte en e. mc e w e w e w om fr ((I u atu t al	alue for the Heat ernal only) is activated, for status is received and the ode "controller" /hen: heating and cooling ode "panel" /hen: putation = Yes Settings non D °C5,0 °C Default value: 5,0 °C re value limit, after which arm.

Parameter	Sottings	
Frost alarm syste time for	E min 120 min	
conding		
sending	Defeult values 10 min	
	Default value: 10 min	
Setting the time interval for r	esending of the frost alarm	
(in addition to automatic sen	ding when changes occur).	
Cyclical sending only occurs v	when an alarm condition is	
present.		
Transmission: ETS		
Parameter page: Operation m	iode "controller"	
Parameter page: Operation m	iode "panel"	
Deverseter	Cattings	
	settings	
Heat alarm threshold		
	Default value: 40 °C	
Current and the state of the st		
specification of the temperat	ure value limit, after which	
	11d1111.	
Iransmission: EIS		
Parameter page: Operation m	iode "controller"	
Parameter page: Operation m	iode "panel"	
Deverseter	Cattings	
Parameter	Settings	
Heat alarm, cycle time for	5 min 120 min	
senang		
Default value: 10 min		
Setting the time interval for r	esending of the heat alarm	
(In addition to automatic send	aing when changes occur).	
Cyclical sending only occurs v	vnen an alarm condition is	
Transmission: ETS		
Parameter page: Operation m	iode "controller"	
Parameter page: Operation m	iode "panel"	
Paramotor	Sottings	
Calculate setpoint	No	
calculate setpoliti	Yos	
Specification as to whether the room temperature		
Specification as to whether the room temperature		
controller should execute its own setpoint value		
No: The ream temperature controller is operated as a		
 – NO: The room temperature controller is operated as a nure operating station 		
– Ves: The room temperature controller is operated as a		
 res. me room temperature controller is operated as a control panel, but executes its own setpoint value. 		
computation. Corresponding objects and parameters		
are blended in.		
Transmission: ETS and sdCard		
Parameter page: Operation mode "panel"		
Device function = control panel		

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5.1.8 Heating parameter, two-point control

Note:

- The prerequisites for this parameter page to be visible are:
- Device function parameter = controller + control panel (see Section 5.1.4, on page 50).
- Parameter **Mode = Heating: Two-point control** (see Section 5.1.7, on page 59).

📴 Import 🛛 🔚 Export 🛛 Langua	ge German 🔹 📝 Show warnings Extras 🍖 Generate	
Languages Channels Parameters	Scheduler Skins Menu Structure Generation errors	
Alarms, common Room temperature control common Fan Temperatures, current value Operation mode 'controller' Heating, on-off control	Preating, hysteresis (+/-0,5 K () ()	
		ок с

Figure. 60. Parameter view: Heating, two-point control

Parameter	Settings		Parameter	Settings
Heating hysteresis	± 0.1 K± 2.5 K		Direction of actuating	normal
	Default value: ± 0.5 K		variable	inverted
Setting the switching hysteresis of the two-point controller for heating mode. Although the precision of the room temperature setpoint value increases as the hysteresis becomes smaller, the switching frequency of the controller increases. Transmission: ETS Parameter page: Heating, two-point control		-	Setting to define the form in be output. – Normal: Output of the vari computed variable. – Inverted: Output of the va effect of the variable. With this parameter, the setti valve (whether opened or clo	which the variable should able in accordance with the riable reverses the desired ng depends on the type of used when there is no
Parameter	Settings		current) or actuator used.	
Double hysteresis for	No		Iransmission: ETS	
energy saving and	Yes		Parameter page: Heating, two	p-point control
protection mode			Parameter	Settings
Setting the double switching hysteresis in energy-saving or frost protection mode.			Heating, cycle time for on- off control	0.5 min15 min Default value: 5 min
This allows room temperature fluctuations in energy- saving or frost-protection mode to be twice as large, thus reducing the switching frequency of the valves and preserving them. Transmission: ETS Parameter page: Heating, two-point control		- - - - -	Setting the time interval for r controller. The setting causes the two-po occur only every 5 minutes. H influence the degree to which deviate from its setpoint valu	eactivation of the two-point oint control, for example, to lysteresis and cycle time h the room temperature car e.
			Parameter nage: Heating two	p-point control
			arameter page. neuting, two	

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5.1.9 Heating parameter, PI control

Note:

The prerequisites for this parameter page to be visible are:

- Device function parameter = controller + control panel (see Section 5.1.4, on page 50).
- Parameter Mode = Heating: PI-Control (see Section 5.1.7, on page 59).

	ge German 🔹 📝 Show warnings Extras 👘 Ger	herate	
anguages Channels Parameters	Scheduler Skins Menu Structure Generation errors		
Common Marms, common Ioom temperature control common ian Iemperatures, current value Operation mode 'controller' Reating, PI control	 Heating, output type of actuating variable Heating, direction of actuating variable Heating, cycle duration at pulse width modulation Heating, always on from Heating, always off to Heating, reset time Heating, proportional range 	switching (1-bit) • normal • 10 min • 90% • 10% • 30 min • 3,0 K •	

Figure. 61. Parameter view: Heating = PI control

Parameter		Settings
Heating, output ty	pe of	constant (8 bit)
actuating variable		switching (1 bit)
Setting of the outpu	ut type of th	ne variable
 Constant: the output variable corresponds to the computed variable with a resolution of 8 bits. 		
 Switching: The variable is output as a pulse width modulated switching command, whereby the duty factor between ON and OFF corresponds to the computed variable. 		
Transmission: ETS and sdCard		
Parameter pages:	Heating =	PI control
	Heating ar	nd cooling, PI control

Parameter	Settings	
Heating, direction of	normal	
actuating variable	inverted	
Setting to define the form in v	which the variable should	
be output.		
 Normal: Output of the varia computed variable. 	ble in accordance with the	
 Inverted: Output of the vari effect of the variable. 	able reverses the desired	
Transmission: ETS		
Parameter pages: Heating =	PI control	
Heating a	nd cooling, PI control	
The parameter is only visible when:		
 Type of variable output for heating = switching (1 Bit) 		
 Type of variable output for heating and cooling = switching (1 Bit) to joint object 		

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Parameter	Settings	
Heating, cycle duration a	t 1 min30 min	
pulse width modulation	Default value: 10 min	
Setting the period length f	or the pulse width modulation	
of the switching variable o	utput in heating mode.	
The variable corresponds t	o the duty factor (time ratio)	
between "ON (1)" and "OFI	F (0)" within one period.	
CAUTION: During thermo-	drive, please note that the	
period length cannot be sh	norter than the sum of the	
heating and cooling times	of the thermo-drive.	
Transmission: ETS		
Parameter pages: Heating = PI control		
Heating and cooling, PI control		
The parameter is only visible when:		
 Type of variable output for heating = switching 		
(1 Bit)		
 Type of variable output for heating and cooling = 		
switching (1 Bit) to joint object		
Parameter	Settings	
Heating always on from	40 %100 % of the variable	
	Default value: 90 %	

Setting of the minimum percentage value of the variable		
The valve characteristics can be adapted through this to reduce the switching frequency.		
Transmission: ETS		
Parameter pages: Heatir	Parameter pages: Heating = PI control	
Heatir	ng and cooling, PI control	
The parameter is only visil	ble when:	
 Type of variable output 	t for heating = switching	
(1 Bit)		
 Type of variable outpu switching (1 Bit) to join 	t for heating and cooling = nt object	
Parameter	Settings	
Heating always off to	1 %50 % of the variable	
Heating always off to	1 %50 % of the variable Default value: 10 %	
Heating always off to Setting of the maximum p at which the variable is alv	1 %50 % of the variable Default value: 10 % percentage value of the variable ways OFF.	
Heating always off to Setting of the maximum p at which the variable is alv The valve characteristics c reduce the switching freq	1 %50 % of the variable Default value: 10 % percentage value of the variable ways OFF. an be adapted through this to uency.	
Heating always off to Setting of the maximum p at which the variable is alw The valve characteristics c reduce the switching freq Transmission: ETS	1 %50 % of the variable Default value: 10 % percentage value of the variable ways OFF. an be adapted through this to uency.	
Heating always off to Setting of the maximum p at which the variable is alw The valve characteristics of reduce the switching freq Transmission: ETS Parameter pages: Heatin	1 %50 % of the variable Default value: 10 % percentage value of the variable ways OFF. an be adapted through this to uency. ng = PI control	
Heating always off to Setting of the maximum p at which the variable is alw The valve characteristics of reduce the switching freq Transmission: ETS Parameter pages: Heatin Heatin	1 %50 % of the variable Default value: 10 % percentage value of the variable ways OFF. an be adapted through this to uency. ng = Pl control ng and cooling, Pl control	
Heating always off to Setting of the maximum p at which the variable is alw The valve characteristics of reduce the switching freq Transmission: ETS Parameter pages: Heatin Heatin The parameter is only visil	1 %50 % of the variable Default value: 10 % percentage value of the variable ways OFF. an be adapted through this to uency. ng = PI control ng and cooling, PI control ble when:	

 Type of variable output for heating and cooling = switching (1 Bit) to joint object

Parameter		Settings	
Heating, reset time		5 min120 min	
		inactive	
		Default value: 30 min	
Setting the reset time of the PI controller for heating			
mode.			
A reset time of 30 r	nin means	that within this time the I-	
portion is equal to	the P-portion	on.	
Transmission: ETS			
Parameter pages:	Heating =	Pl control	
	Heating a	nd cooling, Pi control	
	Heating,	sequence control	
Parameter		Settings	
Heating, proportio	onal	1.0 K5.0 K	
range		Default value: 3.0 K	
Setting the proport heating mode.	ional range	e of the PI controller for	
A proportional rang	ge of 3.0 K	means that a routine	
deviation of 3 K res	ults in a va	riable change of 100 %.	
Transmission: ETS			
Parameter pages:	Heating =	PI control	
Heating and cooling, PI control			
Heating, sequence control			
The parameter is only visible when:			
 Type of variable (8 bit) or 	output fo	r heating = constant	
 Type of variable 	output fo	r heating and cooling =	
constant (8 Bit)	constant (8 Bit) to joint object		
Parameter		Settings	
Heating, maximur	n	0 %100 %	
actuating variable		Default value: 100 %	
Setting the upper threshold for the heating variable.			
If the internal variable is above the value defined here,			
then the value defined here will always be output.			
Transmission: ETS			
Parameter pages: Heating = PI control Heating and cooling, PI control			
The parameter is or	nly visible v	when:	
 Type of variable output for heating = constant (8 bit) or 			
 Type of variable output for heating and cooling = constant (8 Bit) to joint object 			

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Paramotor	Sottings	
Losting minimum	0 % 100 %	
nearing, minimum		
Setting the lower threshold i	for the heating variable.	
If the internal variable is belo	ow the value defined here,	
then 0 % will always be outp	u	
Transmission: ETS		
Parameter pages: Heating	= Pl control	
Heating	and cooling, PI control	
The parameter is only visible	when:	
 Type of variable output f 	or heating = constant	
(8 bit) or		
 Type of variable output f 	or heating and cooling =	
constant (8 Bit) to joint o	bject	
Parameter	Settings	
Heating, direction /	+1 %+100 % (normal)	
scaling of actuating	-1 %100 % (inverted)	
variable	Default value: +100 %	
	(normal)	
Setting to define the form in	which the variable should	
be output.		
In the 100% (normal) setting	g, the control assumes that	
the valve is open when the v	variable is +100%. If in	
contrast, the valve, for exam	ple, is closed at 100%, then	
the desired effect of the vari	able must be inverted.	
Scaling of the variable is ach	ieved by reducing the	
percentage value.		
The setting depends on the type of valve or actuator		
used.		
Transmission: ETS		
Parameter pages: Heating	= PI control	
Heating	and cooling, PI control	
The parameter is only visible	when:	
 Type of variable output f 	or heating = constant	
(8 bit) or		
 Type of variable output for heating and cooling = 		
constant (8 Bit) to joint object		

Parameter		Settings
Heating, send act	uating	1 %100 %
variable at change by		Default value: 5 %
Setting to define the minimu		Im change required for the
heating variable to be automatically sent.		natically sent.
Transmission: ETS		
Parameter pages:	Heating = PI control	
	Heating and cooling, PI control	
The parameter is only visible when:		
 Type of variable output for heating = constant (8 bit) or 		
 Type of variable output for heating and cooling = constant (8 Bit) to joint object 		

Parameter	Settings	
Heating, cycle time to	non	
send actuating variable	5 min120 min	
	Default value: 10 min	
Setting to define the minimum time interval in which the heating variable should be automatically sent.		
Transmission: ETS		
arameter pages: Heating = PI control		
Heating and cooling, Pl control		
Heating, sequence control		
The parameter is only visible when:		
 Type of variable output for heating = constant (8 bit) or 		
 Type of variable output for heating and cooling = constant (8 Bit) to joint object 		

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5.1.10 Heating parameter, sequence control

Note:

- The prerequisites for this parameter page to be visible are:
- Device function parameter = controller + control panel (see Section 5.1.4, on page 50).
- Parameter Mode = Heating: Sequence control (see Section 5.1.7, on page 59).

nguages Channels Parameters	Scheduler Skins Menu Structure Generation errors	
ommon arms, common bom temperature control common an emperatures, current value peration mode 'controller' eating, sequence control	Heating, sequence 2 starts at [%] 50 Heating, sequence 1, send actuating variable at change by 5% • Heating, sequence 2, send actuating variable at change by 5% • Heating, proportional range 3,0 K Heating, reset time 30 min Heating, cycle time to send actuating variable 15 min	

Figure. 62. Parameter view: Heating, sequence control

595 Pro-sot value: 50			
variable of the controller equence 2 should begin.			
Transmission: ETS			
equence control			
Settings			
1 %25 %			
Pre-set value: 5 %			
Setting to define the minimum change required for the heating sequence 1 variable to be automatically sent.			
Transmission: ETS			
Parameter pages: Heating, sequence control			

Parameter	Settings	
Heating, sequence 2, send	1 %25 % Pre-set value: 5 %	
change by		
Specification to define the minimum change for which the variable of Heating, Sequence 2 should be automatically sent		
Transmission: ETS		
Parameter pages: Heating, sequence control		

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Parameter	Settings		
Heating, proportional	1.0 K5.0 K		
range	Default value: 3.0 K		
Setting the proportional range of the PI controller for heating mode.			
A proportional range of 3.0 K means that a routine deviation of 3 K results in a variable change of 100 %.			
Transmission: ETS			
Parameter pages: Heating = PI control Heating and cooling, PI control Heating, sequence control			
Parameter	Settings		
Heating, reset time	5 min240 min inactive Default value: 30 min		
Setting the reset time of the PI controller for heating mode. A reset time of 30 min means that within this time the I- portion is equal to the P-portion.			
Transmission: ETS			
arameter pages: Heating = Pl control Heating and cooling, Pl control Heating, sequence control			

Parameter		Settings	
Heating, cycle time to send actuating variable		omitted	
		5 min120 min	
		Default value: 15 min	
Setting to define the minimum time interval in which the heating variable should be automatically sent.			
Transmission: ETS			
Parameter pages:	Heating = PI control Heating and cooling, PI control Heating, sequence control		

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5.1.11 Cooling parameter, two-point control

Note:

The prerequisites for this parameter page to be visible are:

- Device function parameter = controller + control panel (see Section 5.1.4, on page 50).
- Parameter **Mode = Cooling: Two-point control** (see Section 5.1.7, on page 59).

Room Controller Contouc	h UP 204/11	
anguages Channels Parameters	Scheduler Skins Menu Structure Generation errors	4
Common Alarms, common Room temperature control common Fan Temperatures, current value Operation mode 'controller' Cooling, on-off control	Image: Cooling, hysteresis +/-0,5 K ▼ Image: Double hysteresis for energy saving and protection mode no Image: Cooling, direction of actuating variable normal ▼ Image: Cooling, cycle time for on-off control 5 min ▼	
	Ot	Cancel

Figure. 63. Parameter view: Cooling, two-point control

Settings		
± 0.1 K± 2.5 K		
Default value: ± 0.5 K		
Setting the switching hysteresis of the two-point controller for cooling mode. Although the precision of the room temperature setpoint value increases as the hysteresis becomes smaller, the switching frequency of the controller increases		
Transmission: ETS		
Parameter page: Cooling, two-point control		

Parameter	Settings	
Double hysteresis for energy saving and protection mode	No Yes	
Setting the double switching hysteresis in energy-saving or heat protection mode. This allows room temperature fluctuations in energy-		
order to save energy.		
Transmission: ETS		
Parameter page: Cooling, two-point control		

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Parameter Settings		
Cooling, direction of	normal	
actuating variable	inverted	
Defines the form in which the variable should be output.		
 Normal: Output of the variable in accordance with the computed variable. 		
 Inverted: Output of the variable reverses the desired effect of the variable. 		
With this parameter, the setting depends on the type of valve (whether opened or closed when there is no current) or actuator used.		
Transmission: ETS		
Parameter page: Cooling, two-point control		
Parameter	Settings	
Parameter Cooling, cycle time for on- off control	Settings 0.5 min15 min Default value: 5 min	
Parameter Cooling, cycle time for on- off control Setting the time interval for r controller. The setting causes the two-po occur only every 5 minutes. F influence the degree to which deviate from its setpoint valu	Settings 0.5 min15 min Default value: 5 min eactivation of the two-point bint control, for example, to dysteresis and cycle time in the room temperature can e.	
Parameter Cooling, cycle time for on- off control Setting the time interval for r controller. The setting causes the two-pe occur only every 5 minutes. F influence the degree to which deviate from its setpoint valu Transmission: ETS	Settings 0.5 min15 min Default value: 5 min eactivation of the two-point pint control, for example, to dysteresis and cycle time in the room temperature can e.	

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5.1.12 Cooling parameter, PI control

Note:

The prerequisites for this parameter page to be visible are:

- Device function parameter = controller + control panel (see Section 5.1.4, on page 50).
- Parameter Mode = Cooling: PI-Control (see Section 5.1.7, on page 59).

	age German 🔹 📝 Show warnings Extras 🛛 🍓 Gen	herate	
nguages Channels Parameters	Scheduler Skins Menu Structure Generation errors		
iommon larms, common .com temperature control common an iemperatures, current value)peration mode 'controller' iooling, PI control	 Cooling, output type of actuating variable Cooling, direction of actuating variable Cooling, cycle duration for pulse width modulation Cooling, always on from Cooling, always off to Cooling, reset time Cooling, proportional range 	switching (1-bit) normal 10 min 90% 10% 30 min 3,0 K	

Figure. 64. Parameter view: Cooling, PI control

Parameter	Settings		
Cooling, output type of	constant (8 bit)		
actuating variable	switching (1 bit)		
Setting of the output type of the variable			
 Constant: the output variable corresponds to the computed variable with a resolution of 8 bit. 			
 Switching: The variable is output as a pulse width modulated switching command, whereby the duty factor between ON and OFF corresponds to the computed variable. 			
Transmission: ETS and sdCard			
Parameter pages: Cooling, P Heating ar	l control nd cooling, PI control		

Parameter		Settings
Cooling, proportional		1.0 K5.0 K
range		Default value: 3.0 K
Setting the proportional range of the PI controller for cooling mode. A proportional range of 3.0 K means that a routine deviation of 3 K results in a variable change of 100 %.		
Transmission: ETS		
Parameter pages:	Cooling, Pl control Heating and cooling, Pl control Cooling, sequence control	

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Parameter		Settings	
Cooling, cycle durati	ion for	non	
pulse width modula	tion	5 min120 min	
-		Default value: 10 min	
Setting to define the	minimur	n time interval in which the	
cooling variable shou	ld be aut	tomatically sent.	
Transmission: ETS			
Parameter pages: C	ooling, I	9 control	
Heating and cooling, PI control			
C	ooling, s	sequence control	
The parameter is only	visible v	when:	
 Type of variable of 	utput fo	r cooling = constant	
(8 Bit) or			
 Type of variable of 	utput fo	r heating & cooling =	
constant (8 Bit) to	joint ob	ject	
Parameter		Settings	
Cooling, reset time		5 min240 min	
		Default values 20 min	
		Default value. 50 mm	
C ++' ++'			
Setting the reset time	e of the P	l controller for cooling	
Setting the reset time mode.	e of the P	l controller for cooling	
Setting the reset time mode. A reset time of 30 min portion is equal to the	e of the F n means e P-portio	that within this time the I-	
Setting the reset time mode. A reset time of 30 min portion is equal to the Transmission: ETS	e of the F n means e P-portio	that within this time the I- on.	
Setting the reset time mode. A reset time of 30 min portion is equal to the Transmission: ETS Parameter pages: C	e of the F n means e P-portio	that within this time the l- on.	
Setting the reset time mode. A reset time of 30 min portion is equal to the Transmission: ETS Parameter pages: C	e of the F n means e P-portio Cooling, F leating a	that within this time the I- on. Pl control nd cooling, Pl control	
Setting the reset time mode. A reset time of 30 mir portion is equal to the Transmission: ETS Parameter pages: C H	e of the F n means e P-portio Cooling, F leating a	that within this time the l- on. Pl control nd cooling, Pl control sequence control	
Setting the reset time mode. A reset time of 30 min portion is equal to the Transmission: ETS Parameter pages: C H C	e of the P n means e P-portio cooling, F leating a cooling, s	PI controller for cooling that within this time the I- on. PI control nd cooling, PI control sequence control	
Setting the reset time mode. A reset time of 30 min portion is equal to the Transmission: ETS Parameter pages: C H C Parameter	e of the F n means e P-portio Cooling, F leating a Cooling, s	PI controller for cooling that within this time the I- on. PI control nd cooling, PI control sequence control Settings	
Setting the reset time mode. A reset time of 30 min portion is equal to the Transmission: ETS Parameter pages: C H Cooling, maximum	e of the F n means e P-portio Cooling, F leating a Cooling, s	PI controller for cooling that within this time the l- on. PI control nd cooling, PI control sequence control Settings 0 %100 %	
Setting the reset time mode. A reset time of 30 min portion is equal to the Transmission: ETS Parameter pages: C H C Parameter Cooling, maximum actuating variable	e of the F n means e P-portio cooling, F leating a cooling, s	that within this time the l- on. Pl control nd cooling, Pl control sequence control Settings 0 %100 % Default value: 100 %	
Setting the reset time mode. A reset time of 30 min portion is equal to the Transmission: ETS Parameter pages: C H Cooling, maximum actuating variable Setting the upper thre	e of the F n means e P-portio cooling, F leating a cooling, s	PI controller for cooling that within this time the I- on. PI control nd cooling, PI control sequence control Settings 0 %100 % Default value: 100 % or the cooling variable.	
Setting the reset time mode. A reset time of 30 min portion is equal to the Transmission: ETS Parameter pages: C Parameter Description Cooling, maximum actuating variable Setting the upper three If the internal variable	e of the F n means e P-portio cooling, F leating a cooling, s eshold fo	PI controller for cooling that within this time the l- on. PI control nd cooling, PI control sequence control Settings 0 %100 % Default value: 100 % or the cooling variable. e the value defined here,	
Setting the reset time mode. A reset time of 30 min portion is equal to the Transmission: ETS Parameter pages: C H Coling, maximum actuating variable Setting the upper through the then the value define	e of the F n means e P-portio Cooling, F leating a cooling, s eshold fo e is abov d here w	PI controller for cooling that within this time the l- on. PI control nd cooling, PI control sequence control Settings 0 %100 % Default value: 100 % or the cooling variable. e the value defined here, <i>v</i> ill always be output.	
Setting the reset time mode. A reset time of 30 min portion is equal to the Transmission: ETS Parameter pages: C Parameter pages: C Parameter Cooling, maximum actuating variable Setting the upper thre If the internal variable then the value define Transmission: ETS	e of the F n means e P-portio cooling, F leating a cooling, s eshold fo e is abov d here w	PI controller for cooling that within this time the l- on. PI control nd cooling, PI control sequence control Settings 0 %100 % Default value: 100 % or the cooling variable. e the value defined here, vill always be output.	
Setting the reset time mode. A reset time of 30 min portion is equal to the Transmission: ETS Parameter pages: C Parameter pages: C Parameter Cooling, maximum actuating variable Setting the upper thre If the internal variable then the value define Transmission: ETS Parameter pages: C	e of the F n means e P-portio cooling, F leating a cooling, s eshold for e is abov d here w	PI controller for cooling that within this time the I- on. PI control nd cooling, PI control sequence control Settings 0 %100 % Default value: 100 % or the cooling variable. e the value defined here, <i>i</i> II always be output.	
Setting the reset time mode. A reset time of 30 min portion is equal to the Transmission: ETS Parameter pages: C Parameter pages: C Parameter Cooling, maximum actuating variable Setting the upper thre If the internal variable then the value define Transmission: ETS Parameter pages: C H	e of the F n means e P-portio cooling, F leating a cooling, s eshold for e is abov d here w cooling, F leating a	PI controller for cooling that within this time the I- on. PI control nd cooling, PI control sequence control Settings 0 %100 % Default value: 100 % or the cooling variable. e the value defined here, vill always be output. PI control nd cooling, PI control	
Setting the reset time mode. A reset time of 30 min portion is equal to the Transmission: ETS Parameter pages: C H Cooling, maximum actuating variable Setting the upper thre If the internal variable Setting the upper thre If the internal variable Transmission: ETS Parameter pages: C H The parameter is only	e of the F n means e P-portio cooling, F leating a cooling, s eshold for e is abov d here w cooling, F leating a v visible v	PI controller for cooling that within this time the l- on. PI control nd cooling, PI control sequence control Settings 0 %100 % Default value: 100 % or the cooling variable. e the value defined here, <i>v</i> ill always be output. PI control nd cooling, PI control when:	
Setting the reset time mode. A reset time of 30 min portion is equal to the Transmission: ETS Parameter pages: C Parameter pages: C Parameter Cooling, maximum actuating variable Setting the upper thre If the internal variable Setting the upper thre If the internal variable Transmission: ETS Parameter pages: C H The parameter is only – Type of variable o (8 Bit) or	e of the F n means e P-portio cooling, F leating a cooling, s eshold for e is abov d here w cooling, F leating a v visible v utput fo	PI controller for cooling that within this time the I- on. PI control nd cooling, PI control sequence control Settings 0 %100 % Default value: 100 % or the cooling variable. e the value defined here, <i>v</i> ill always be output. PI control nd cooling, PI control when: r cooling = constant	
Setting the reset time mode. A reset time of 30 min portion is equal to the Transmission: ETS Parameter pages: C H Cooling, maximum actuating variable Setting the upper thre If the internal variable Setting the upper thre If the internal variable Setting the upper thre If the internal variable Transmission: ETS Parameter pages: C H The parameter is only – Type of variable of (8 Bit) or	e of the F n means e P-portio cooling, F leating a cooling, s eshold for e is abov d here w cooling, F leating a visible v utput fo utput fo	PI controller for cooling that within this time the I- on. PI control nd cooling, PI control sequence control Settings 0 %100 % Default value: 100 % or the cooling variable. e the value defined here, vill always be output. PI control nd cooling, PI control when: r cooling = constant r heating & cooling =	

Parameter	Settings			
Cooling, minimum	0 %100 %			
actuating variable	Default value: 0 %			
Setting the lower threshold for the cooling variable.				
If the internal variable is below the value defined here.				
then 0 % will always be output.				
Transmission: ETS				
Parameter pages: Cooling, PI control				
Heating and cooling, PI control				
The parameter is only visible when:				
 Type of variable output for cooling = constant (8 Bit) or 				
 Type of variable output for heating & cooling = constant (8 Bit) to joint object 				
Parameter	Settings			
Cooling, direction / scaling	+1 %+100 % (normal)			
of actuating variable	–1 %–100 % (inverted)			
	Default value: +100 %			
	(normal)			
Setting to define the form in which the variable should				
be output.				
In the 100% (normal) setting, the control assumes that				
the valve is open when the variable is +100%. If in				
the desired effect of the variable must be inverted				
Scaling of the variable is achieved by reducing the				
percentage value.				
The setting depends on the type of valve or actuator				
used.				
Transmission: ETS				
Parameter pages: Cooling, PI control				
Heating and cooling, PI control				
The parameter is only visible when:				
– Type of variable for cooling = constant (8 Bit) or				
 Type of variable for heating & cooling = constant (8) 				
Bit) to joint object				
Parameter	Sattings			
Cooling conductuating				
variable at change by	Default value: 5 %			
Setting to define the minimum change required for the				
cooling variable to be automatically sent.				
Transmission: ETS				
Parameter pages: Cooling PL control				
Heating and cooling. PL control				
The parameter is only visible when:				
 Type of variable output for cooling = constant (8 Bit) or 				
 Type of variable output for heating & cooling = 				

 Type of variable output for heating & cooling = constant (8 Bit) to joint object
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Parameter	Settings		
Cooling, direction of normal			
actuating variable inverted			
Setting to define the form in which the variable should			
be output.			
 Normal: Output of the varia 	ble in accordance with the		
computed variable.			
 Inverted: Output of the variable reverses the desired 			
effect of the variable.			
Iransmission: ETS			
Parameter pages: Cooling, I	Pl control		
Heating a	ind cooling, PI control		
The parameter is only visible v	when:		
 Type of variable for cooling 	$\mathbf{g} = \mathbf{switching} (1 \mathbf{Bit})$		
 Type of variable output for switching (1 Bit) to joint o 	heating and cooling =		
switching (1 bit) to joint o	Бјест		
Parameter	Settings		
Period length of pulse wide	1 min30 min		
modulated cooling	Default value: 10 min		
Setting the period length for t	the pulse width modulation		
of the switching variable outr	out in cooling mode.		
of the stritering turiable outp			
The variable corresponds to the	ne duty factor (time ratio)		
The variable corresponds to the between "ON (1)" and "OFF (C	ne duty factor (time ratio)))" within one period.		
The variable corresponds to the between "ON (1)" and "OFF (C CAUTION: During thermo-driv period length cannot be short	ne duty factor (time ratio))" within one period. re, please note that the		
The variable corresponds to the between "ON (1)" and "OFF (C CAUTION: During thermo-driv period length cannot be short cooling and cooling times of t	ne duty factor (time ratio)))" within one period. re, please note that the ter than the sum of the re- the thermo-drive.		
The variable corresponds to the between "ON (1)" and "OFF (C CAUTION: During thermo-driv period length cannot be short cooling and cooling times of t Transmission: ETS	the duty factor (time ratio))" within one period. The, please note that the ter than the sum of the re- the thermo-drive.		
The variable corresponds to the between "ON (1)" and "OFF (C CAUTION: During thermo-driv period length cannot be short cooling and cooling times of t Transmission: ETS Parameter pages: Cooling, I	ne duty factor (time ratio))" within one period. re, please note that the ter than the sum of the re- the thermo-drive.		
The variable corresponds to the between "ON (1)" and "OFF (C CAUTION: During thermo-driv period length cannot be short cooling and cooling times of t Transmission: ETS Parameter pages: Cooling, I Heating a	he duty factor (time ratio)))" within one period. re, please note that the ter than the sum of the re- the thermo-drive. Pl control and cooling, Pl control		
The variable corresponds to the between "ON (1)" and "OFF (C CAUTION: During thermo-driv period length cannot be short cooling and cooling times of t Transmission: ETS Parameter pages: Cooling, I Heating a The parameter is only visible v	the duty factor (time ratio))" within one period. The please note that the ter than the sum of the re- the thermo-drive. Pl control and cooling, Pl control when:		
The variable corresponds to the between "ON (1)" and "OFF (C CAUTION: During thermo-driv period length cannot be short cooling and cooling times of t Transmission: ETS Parameter pages: Cooling, I Heating a The parameter is only visible v – Type of variable output fo	The duty factor (time ratio))" within one period. The please note that the ter than the sum of the re- the thermo-drive. PI control and cooling, PI control when: The cooling = switching		
The variable corresponds to the between "ON (1)" and "OFF (C CAUTION: During thermo-driv period length cannot be short cooling and cooling times of to Transmission: ETS Parameter pages: Cooling, I Heating a The parameter is only visible v - Type of variable output fo (1 Bit) or	he duty factor (time ratio))" within one period. re, please note that the ter than the sum of the re- the thermo-drive. Pl control and cooling, Pl control when: r cooling = switching		
The variable corresponds to the between "ON (1)" and "OFF (C CAUTION: During thermo-driv period length cannot be short cooling and cooling times of t Transmission: ETS Parameter pages: Cooling, I Heating a The parameter is only visible v - Type of variable output fo (1 Bit) or - Type of variable output fo	he duty factor (time ratio))" within one period. re, please note that the ter than the sum of the re- the thermo-drive. Pl control and cooling, Pl control when: r cooling = switching r heating and cooling =		

Cooling always on from Setting of the minimum per required for the variable to The valve characteristics ca	40 %100 % of the variable Default value: 90 %			
Setting of the minimum pe required for the variable to The valve characteristics ca	Default value: 90 %			
Setting of the minimum pe required for the variable to The valve characteristics ca				
required for the variable to The valve characteristics ca	Setting of the minimum percentage value of the variable			
The valve characteristics ca	required for the variable to always be ON .			
	The valve characteristics can be adapted through this to			
reduce the switching frequ	Jency.			
Transmission: ETS				
Parameter pages: Coolin	ig, Pl control			
Heatir	ig and cooling, PI control			
The parameter is only visib	le when:			
 Type of variable output 	t for cooling = switching			
(1 Bit) or				
 Type of variable output 	t for heating and cooling =			
switching (1 Bit) to joir	it object			
Parameter	Settings			
Cooling always off to	1 %50 % of the variable			
5 5	Default value: 10 %			
Setting of the maximum p	ercentage value of the variable			
Setting of the maximum p at which the variable is alv	ercentage value of the variable vays OFF.			
Setting of the maximum p at which the variable is alv The valve characteristics ca	ercentage value of the variable vays OFF. an be adapted through this to			
Setting of the maximum p at which the variable is alv The valve characteristics ca reduce the switching frequ	ercentage value of the variable vays OFF. an be adapted through this to Jency.			
Setting of the maximum p at which the variable is alv The valve characteristics ca reduce the switching frequ Transmission: ETS	ercentage value of the variable vays OFF. an be adapted through this to Jency.			
Setting of the maximum p at which the variable is alv The valve characteristics ca reduce the switching frequ Transmission: ETS Parameter pages: Coolin	ercentage value of the variable vays OFF. an be adapted through this to jency. g, PI control			
Setting of the maximum p at which the variable is alv The valve characteristics ca reduce the switching frequ Transmission: ETS Parameter pages: Coolin Heatir	ercentage value of the variable vays OFF. an be adapted through this to uency. Ig, PI control ig and cooling, PI control			
Setting of the maximum p at which the variable is alv The valve characteristics ca reduce the switching frequ Transmission: ETS Parameter pages: Coolin Heatir The parameter is only visib	ercentage value of the variable vays OFF. an be adapted through this to uency. 			
Setting of the maximum p at which the variable is alv The valve characteristics ca reduce the switching frequ Transmission: ETS Parameter pages: Coolin Heatir The parameter is only visib – Type of variable outpu	ercentage value of the variable vays OFF. an be adapted through this to uency. g, PI control ig and cooling, PI control ble when: t for cooling = switching			
5 5	Default value: 10 %			

Type of variable output for heating and cooling = switching (1 Bit) to joint object

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5.1.13 Cooling parameter, sequence control

Note:

- The prerequisites for this parameter page to be visible are:
- Device function parameter = controller + control panel (see Section 5.1.4, on page 50).
- Parameter **Mode = Cooling: Sequence control** (see Section 5.1.7, on page 59).

nguages Channels Parameters mmon arms, common som temperature control common	Scheduler Skins Menu Structure Generation errors	
mmon arms, common kom temperature control common n	Cooling, sequence 2 starts at [%]	
mperatures, current value seration mode 'controller' soling, sequence control	Image: Cooling, sequence 1, send actuating variable at change by 5% Image: Cooling, sequence 2, send actuating variable at change by 5% Image: Cooling, proportional range Image: Cooling, proportional range Image: Cooling, reset time Image: Cooling, cycle time to send actuating variable Image: Cooling, cycle time to send actuating variable Image: Cooling, cycle time to send actuating variable	

Figure. 65. Parameter view: Cooling, sequence control

595			
Pre-set value: 50			
Specification of the minimum variable of the controller output for cooling at which sequence 2 should begin.			
Transmission: ETS			
equence control			
Settings			
1 %25 %			
Pre-set value: 5 %			
Specification to define the minimal change of the			
cooling variable for which Sequence 1 should be			
equence control			

Parameter	Settings	
Cooling, sequence 2, send	1 %25 %	
actuating variable at	Pre-set value: 5 %	
change by		
Specification to define the minimal change of the cooling variable for which Sequence 2 should be		
automatically sent		
Transmission: ETS		
Parameter pages: Cooling, s	sequence control	

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Parameter		Settings		
Cooling, proportio	nal	1.0 K5.0 K		
range		Default value: 3.0 K		
Setting the proportional range of the PI controller for heating mode.				
deviation of 3 K results in a variable change of 100 %.				
Transmission: ETS				
Parameter pages: Cooling, Pl control Heating and cooling, Pl control Cooling, sequence control				
Parameter Settings				
Cooling, reset time		5 min240 min inactive		
A reset time of 30 r portion is equal to t	ne of the f nin means the P-porti	t that within this time the I- on.		
	Carlina	DI		
Parameter pages: Cooling, PI control Heating and cooling, PI control Cooling, sequence control		and cooling, PI control sequence control		
Parameter	1	Settings		
Cooling, cycle time to send actuating variable		Omitted 5 min120 min Default value: 15 min		
Setting to define th cooling variable sho	e minimu ould be au	m time interval in which the tomatically sent.		
Transmission: ETS				
Parameter pages: Cooling, PI control				

Heating and cooling, PI control Cooling, sequence control

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5.1.14 Heating and cooling parameter, PI control

Note:

The prerequisites for this parameter page to be visible are:

- Device function parameter = controller + control panel (see Section 5.1.4, on page 50).
- Parameter Mode = Heating & Cooling: PI-control (see Section 5.1.7, on page 59).

Room Controller Contouc	h UP 204/11	
Channels Parameters	ge German Show warnings Extras Generate Scheduler Skins Menu Structure Generation errors	
Common Alarms, common Room temperature control common Fan Temperatures, current value Operation mode 'controller' Heating and cooling, PI control	Image: Near A cooling, output type of actuating variable via separate objects ▼ Image: Near A cooling, output type of actuating variable switching (1-bit) ▼ Image: Near A cooling, direction of actuating variable normal ▼ Image: Near A cooling, direction of actuating variable normal ▼ Image: Near A cooling, cycle duration at pulse width modulation 10 min ▼ Image: Near A cooling, always on from 90% ▼ Image: Near A cooling, always off to 10% ▼ Image: Near A cooling, output type of actuating variable switching (1-bit) ▼ Image: Near A cooling, output type of actuating variable switching (1-bit) ▼ Image: Near A cooling, output type of actuating variable switching (1-bit) ▼ Image: Near A cooling, output type of actuating variable normal ▼ Image: Near A cooling, direction of actuating variable normal ▼ Image: Near A cooling, cycle duration for pulse width modulation 10 min ▼ Image: Near A cooling, always on from 90% ▼ Image: Near A cooling, always off to 10% ▼ Image: Near A cooling, reset time 30 min ▼ Image: Near A cooling, proportional range 3,0 K ▼	
		DK Cancel

Figure. 66. Parameter view: Heating and cooling, PI control

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Parameter	Settings
Heating and cooling, output type of actuating variable	via separate objects constant (8 bit) to a joint object switching (1 bit) to a joint object
 Setting the variable output typ cooling mode. Via separate objects: the secooling are made separately parameter pages. Constant: the output variable computed variable with a rest or switching: the variable is our modulated switching command off correct computed variable. 	e for the heating and ettings for heating and on the respective le corresponds to the solution of 8 bit. utput as a pulse width and, whereby the duty orresponds to the
Transmission: ETS and sdCard	
Parameter pages: Cooling, P Heating ar	l control nd cooling. Pl control

Explanation of additional heating parameters: see Chapter 5.1.9, starting on page 64.

Explanation of additional cooling parameters: see Chapter 5.1.12, starting on page 71.

5.1.15 Communication objects for room temperature control

116 Outdoor temperature - sensor Receive 2 Byte C DPT_ value_Temp This communication object is used to receive the out temperature from an external sensor.	lags					
temperature - sensor DPT_ Value_Temp This communication object is used to receive the out temperature from an external sensor.	WTU					
sensor Value_Temp This communication object is used to receive the ou temperature from an external sensor.						
This communication object is used to receive the ou temperature from an external sensor.						
temperature from an external sensor.	This communication object is used to receive the outside					
	temperature from an external sensor.					
This communication object sends a read request when						
power is restored. If there is no answer, then a	power is restored. If there is no answer, then a					
configurable default value is used.						
Obj. Object name Function Type F	lags					
117 Temperature, Send 2 Byte C	RT					
actual value of DPT_						
internal sensor Value_Temp						
This object is used to send the value (in $^\circ$ C) measure	ed					
and corrected by the installed indoor temperature						
sensor. The value can also be sent automatically if the	he					
temperature changes by a configurable value. The						
temperature can also be queried.						
Obj. Object name Function Type F	lags					
118 Temperature, Receive 2 Byte C	WTU					
Actual indoor DPT_						
value of ext. Value_Temp						
Sensor						
This object receives the current actual temperature	value					
of the external indoor temperature sensor (in °C). The	his					
object can be used to cyclically send read telegrams	s to					
the external temperature sensor so that this sends in	ts					
current value back.						
This communication object sends a read request when						
This communication object sends a read request wh						
This communication object sends a read request wh power is restored. If there is no answer, then a	configurable default value is used.					
This communication object sends a read request wh power is restored. If there is no answer, then a configurable default value is used.						
This communication object sends a read request wh power is restored. If there is no answer, then a configurable default value is used. This object is only available if:						
This communication object sends a read request wh power is restored. If there is no answer, then a configurable default value is used. This object is only available if: External indoor temperature sensor = Yes						
This communication object sends a read request whpower is restored. If there is no answer, then aconfigurable default value is used.This object is only available if:External indoor temperature sensor = YesObj.Object nameFunctionTypeFunction	lags					
This communication object sends a read request whpower is restored. If there is no answer, then aconfigurable default value is used.This object is only available if:External indoor temperature sensor = YesObj. Object nameFunctionTypeF119Temperature,Send2ByteC	lags TRT					
This communication object sends a read request wh power is restored. If there is no answer, then a configurable default value is used. This object is only available if: External indoor temperature sensor = Yes Obj. Object name Function Type FI 119 Temperature, actual indoor Send 2 Byte DPT_ C	lags RT					
This communication object sends a read request wh power is restored. If there is no answer, then a configurable default value is used. This object is only available if: External indoor temperature sensor = Yes Obj. Object name Function Type FI 119 Temperature, actual indoor value, weighted Send 2 Byte C	l ags RT					
This communication object sends a read request wh power is restored. If there is no answer, then a configurable default value is used. This object is only available if: External indoor temperature sensor = Yes Obj. Object name Function Type FI 119 Temperature, actual indoor value, weighted Send 2 Byte C DPT_ Value_Temp This object contains the current actual temperature	i <mark>lags</mark> RT					

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This value is computed taking the configured weighting into account, which is determined from the values measured by the corrected internal and the corrected external indoor temperature sensors. The value is send automatically when a configurable change occurs.

This object is only available if:

External indoor temperature sensor = Yes

Obj.	Object name	Function	Туре	Flags
120	Basic set point	Receive	2 Byte	CRWT
	value		DPT_	U
			Value_Temp	

This object can be used to read the basic setpoint value (in °C) and to change it via the bus by telegram. This value corresponds to the setpoint value in comfort mode with a setpoint offset = 0. If values outside of the 16..26 °C range are received, the value is set to the

corresponding minimum or maximum value. This communication object sends a read request when power is restored. If there is no answer, then a configurable default value is used.

This object is only available if:

Basic setpoint value visible object = Yes

Obj.	Object name	Function	Туре	Flags
121	setpoint value offset	Send	2 Byte DPT_ Value_Temp	CRT

This object can be used to send every change in the setpoint value offset (in Kelvin).

Obj.	Object name	Function	Туре	Flags
122	Temperature,	Send	2 Byte	CRT
	setpoint value		DPT_	
			Value_Temp	

This object contains the current setpoint value of the room temperature (In °C), which is computed under consideration of the basic setpoint value, mode and offset.

Obj.	Object name	Function	Туре	Flags
123	Automatic mode	Receive/send:	1 bit	CRWT
		On/Off		U

This object can be used to switch to automatic mode via the bus. Upon receipt, only "1" telegrams are evaluated; "0" telegrams are rejected.

This object is additionally used to send the status (0: manual mode, 1: automatic mode).

Obj.	Object name	Function	Туре	Flags
124	Comfort mode	Receive/Send:	1 bit	CRWT
		On/Off		U

Wher telec	n the Automatic marams, then comfo	ode via para rt mode car	ameter is set t	o Bus on via		
the h	us Unon receint b	oth "1" and '	"0" telearams	are		
evali	lated Upon receipt, b	of an "0" if	no correspon	dina		
comr	mand arrives within	3 seconds	the mode is	ang		
swite	hed to energy-savi	na mode or	to protection	mode		
if ene	erav-saving mode is	ng moue of s not availab	le	moue,		
More	over this object is a	used to reno	rt changes oc	urring		
in the	e comfort mode sta	tus (such as	those caused	unng		
mani	ually or by an intern	al time proc	inose causeu iram)			
Ohi	Object name	Eunction		Flags		
00j.		Function	1 b't	Flays		
125	Pre-comfort mode	Receive/send: On/Off	IDIT	U		
If the	e parameter Autom	atic mode v	r ia is set to Bu	s-		
Teleg	grams, then the op	erating mod	le "pre-comfoi	t		
mode	e" (standby operation	on) can be s	witch via this	object		
by th	e bus. Upon receipt	t of an "0", if	no correspon	ding		
comr	mand arrives within	3 seconds,	the mode is	-		
swite	ched to energy-savin	ng mode or	to protection	mode,		
if ene	ergy-saving mode is	s not availab	le. Moreover	this		
objed	ct is used to report of	changes occ	urring in the o	omfort		
mode	e status (such as the	ose caused r	nanually or by	/ an		
inter	nal time program).					
This (obiect is only availa	ble if:				
Cont	roller 4 of the room	operating r	nodes can be			
activ	ated	operating	noues can be			
Ohi	Object name	Function	Type	Flags		
126	Enorgy caving	Possi n/Sand	1 bit			
120	mode	On/Off		U		
Whe	n the Automatic m	ode via para	ameter is set t	o Bus		
teleg	grams, then this ob	ject can be ι	used to switch	the		
mode	e to energy-saving i	node (night	time operatio	n) via		
the b	ous.					
Upor	n receipt of an "0", if	f no corresp	onding comm	and		
arrive	arrives within 3 seconds, the energy-saving mode					
rema	ins active.	. 57	5			
More	over this object is a	used to reno	rt changes oc	urring		
in the	e energy-saving mo	de status (s	uch as those c	aused		
man	ually or by an intern	al time proc	uram)	uuscu		
Thic		hla ifi				
inis (object is only availa		• • • • • •			
Cont	roller 3 or 4 of the r	oom operat	ing modes cai	n be		

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		F	T	E 1			F	T	E 1
Obj.	Object name	Function	Туре	Flags	06.	Object name	Function	Туре	Flags
127	Protection mode	receive/send:	1 bit	CRWI	131	Frost alarm	Send: On/Off	1 bit	CRI
		On/Off		U	This	object can be used	to query the	e "frost alarm"	status
Whe	n the Automatic m	ode via para	ameter is set	to Bus	("1"	= alarm active, "0" =	alarm inact	tive). When th	е
teleg	Jrams , then this ob	ject can be i	used to switch	n the	obje	ct value changes, it	is sent auto	matically.	
mod	e to "protection mo	de" (frost/he	eat protection) via	Obj.	Object name	Function	Туре	Flags
the b	us. Upon receipt of	an "0", if no	correspondi	ng	132	Heat alarm	Send:On/Off	1 bit	CRT
com	nand arrives within	3 seconds,	the mode is		This	object can be used	to query th	ne "heat alarm	n" status
swite	hed to energy-savi	ng mode (if	available, oth	erwise	("1"	= alarm active, "()" = alarm	inactive). Wł	nen the
prote	ection mode is mair	itained).			obje	ct value changes, it	is sent auto	matically.	
More	over this object is t	ised to repo	rt changes oc	curring	Obj.	Object name	Function	Туре	Flags
in th	e protection mode s	status (such	as those caus	sea	133	Dew point alarm	Receive:	1 bit	CWU
man	any or by an interr	lai time prog	gram). I -	-			On/Off		
Obj.	Object name	Function	Туре	Flags	This	obiect can be used	in cooling m	node to receiv	e a dew
128	Permanent	Receive:	1 bit	CRWT	poin	t alarm sent by a de	ew point mo	nitor and to sl	how it
	Protection mode	On/Off		U	on t	ne display. A receive	ed dew poin	t alarm causes	s the
The o	controller can use th	nis object to	switch perma	anently	cont	roller to switch to "	dew point m	node" and the	cooling
to "p	rotection mode" (fr	ost/heat pro	tection) (e.g.	during	valve	e to close until the o	lew point al	arm is no long	ger
prolo	nged absence or h	olidays). In t	his case, no c	other	peno	ling.			
mod	e objects can be use	ed by a time	program, tim	ier,	This	object is not evalua	ted unless t	he controller i	is in
prese	ence detector or ma	inually to sv	vitch to a diffe	erent	cool	ing mode.			
moa	2.				Obj.	Object name	Function	Туре	Flags
It "pe	rmanent protection	n mode" is s	witched off, t	hen the	134	Window 1	Receive	1 bit	CWTU
cont	oller automatically	switches to	:		This	object is used to rea	reive the sta	tus of window	v 1 lf
– °er	lergy-saving mode	in manual i	node if availa	ble,	the	object value = "1" (v	vindow oper	n), the room	• • • • •
oth	ierwise to protectio	n mode			tem	perature controller s	switches inte	ernally to "pro	tection
- the	e currently active m	ode in auto	matic mode (1	rom	mod	e" and stays in this	mode until t	the object valu	ue for
bu	s telegram or interr	hai time prog	gram)		one	of the window obje	cts = "1".		
This	object is only availa	ble if:			Para	meters can be used	to invert th	e behavior.	
Obje	ct for permanent pr	otection mo	ode visible = Y	′es	This	communication obj	ect sends a	read request v	when
Obj.	Object name	Function	Туре	Flags	pow	er is restored.		•	
129	controller	Receive:	1 bit	CRWU	Obj.	Object name	Function	Туре	Flags
		On/Off			135	Window 2	Receive	1 bit	CWTU
This	object can be used	to switch th	e control on c	or off. If	This	object is used to rea	L Ceive the sta	tus of window	v 2 lf
the c	ontrol is set to "hea	iting and co	oling", then b	oth	the	object value = "1" (w	vindow oper	n) the room	v 2. II
cont	ols are switched or	n and off joir	ntly.		tem	perature controller	switches inte	ernally to "pro	tection
If the	controller is switch	ned to OFF,	then the varia	ables for	mod	e" and stays in this	mode until t	the object valu	ue for
heati	ng and cooling are	set to "0". T	he value "0" is	s sent	one	of the window obje	cts = "1".	,	
once	after the controller	r is switched	off.		Para	meters can be used	to invert th	e behavior.	
					This	communication obi	iect sends a	read request v	when
					pow	er is restored.			
This	object is only availa	ble if:			Obi.	Obiect name	Function	Type	Flags
Devi	ce function = contro	oller + contr	ol panel		136	Window 3	Receive	1 bit	CWTU
Obi.	Object name	Function	Туре	Flags	Thic	object is used to re-	caive the sta	tus of window	
130	Heating/ cooling	1=Heating/	1 bit	CRWT	the	object is used to re-	vindow oper	atus or window a) the room	וו געי
1.20		0 = Cooling		U	tom	perature controller	switches int	ernally to "pro	tection
Thic	abiact displays who	that the cor	l strollor is in h	aating	mod	e" and stays in this	mode until t	the object valu	le for
mod	object displays whe	ther the cor	itroller is in n	eating	one	of the window obie	cts = "1"	the object value	
	e aaaling mada Itis	cont outom	-+;ll	the	Para	meters can be used	to invert th	e hehavior	
orin	cooling mode. It is	sent autom	aucany when	the	This	communication obj	iect sends a	read requests	whon
Statu	S changes.		h			er is restored	eet senus a	redurequest	when
with	∠-ime systems, this	a object can	ue used to sw	nich the	Pow				
cont	or between heating	y anu cooilh	y moue.]				
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Obj.	Object name	Function	Туре	Flags
137	Window 4	Receive	1 bit	CWTU
This	obiect is used to rec	eive the sta	tus of window	v 4. lf
the c	bject value = "1" (w	vindow oper	n), the room	
temp	erature controller s	witches inte	ernally to "pro	tection
mod	e" and stays in this r	mode until t	he object valu	le for
one o	of the window obje	cts = "1".		
Parar	neters can be used	to invert the	e behavior.	
This	communication obj	ect sends a	read request v	when
powe	er is restored.			
Obj.	Object name	Function	Туре	Flags
138	Presence	Receive: On/Off	1 bit	CWTU
The o	controller contains a	n optional	object for the	
"pres	ence" state for usad	ae in rooms	with a presen	ce
dete	ctor. Its telegrams a	re evaluated	d for switching	g the
room	operating mode.			-
This	communication obi	ect sends a	read request v	when
powe	er is restored.			
This	object is only availa	ble if:		
Obie	ct for presence visib	ole = Yes		
Obi.	Obiect name	Function	Type	Flags
139	Comfort	Send:	1 bit	CRT
	extension status	On/Off		enn
		0.40.		
Tho	ontroller uses this	abject to rer	ort that the "	comfort
The o	controller uses this o	bject to rep	port that the "o	comfort
The o exter	controller uses this on the second se	bject to rep en switched	oort that the "o l on or off.	comfort
The c exter This	controller uses this on nsion" mode has been object is only availa	object to rep en switched ble if:	oort that the "o l on or off.	comfort
The o exter This Obje	controller uses this on nsion" mode has be object is only availa ct for presence visib	bject to rep en switched ble if: ble = No and s object - X	oort that the "o l on or off. d	comfort
The c exter This Obje Com	controller uses this on nsion" mode has be object is only availa ct for presence visib fort extension statu	bject to rep en switched ble if: ble = No and s object = Y	d bort that the "o l on or off. d es	comfort
The c exter This Obje Com Obj.	controller uses this on nsion" mode has be object is only availa ct for presence visib fort extension statu Object name	bject to rep en switched ble if: ble = No and s object = Y Function	d Type	Flags
The c exter This Obje Com Obj. 140	controller uses this on nsion" mode has be object is only availa ct for presence visib fort extension statu Object name Room operating mode	bject to rep en switched ble if: ble = No and s object = Y Function Received:	oort that the "o l on or off. d es Type 1 Byte	Flags CWTU
The c exter This Obje Com Obj. 140	controller uses this of nsion" mode has been object is only availa ct for presence visib fort extension statu Object name Room operating mode	bject to rep en switched ble if: ble = No and s object = Y Function Received: 04	oort that the "o l on or off. d es Type 1 Byte	Flags CWTU
The c exter This Obje Com Obj. 140	controller uses this of nsion" mode has been object is only availa ct for presence visit fort extension statu Object name Room operating mode object is used to sw	bject to rep en switched ble if: ble = No and s object = Y Function Received: 04 itch the roo	oort that the "o l on or off. d es Type 1 Byte m operating n	Flags CWTU node
The c exter This Obje Com Obj. 140 This depe	controller uses this on nsion" mode has been object is only availa ct for presence visit fort extension statu Object name Room operating mode object is used to sw nding on the value	bject to rep en switched ble if: ble = No and s object = Y Function Received: 04 itch the roo received. Th	oort that the "o l on or off. d es Type 1 Byte m operating n ne following ru	Flags CWTU node ules
The c exter This Obje Com Obj. 140 This depe alloc	controller uses this of nsion" mode has been object is only availa ct for presence visits fort extension statu Object name Room operating mode object is used to sw nding on the value ations apply:	bbject to rep en switched ble if: ble = No and s object = Y Function Received: 04 itch the roo received. Th	bort that the "o l on or off. d es Type 1 Byte m operating n he following ru	Flags CWTU node ules
The c exter This Obje Com Obj. 140 This depe alloc	controller uses this of nsion" mode has been object is only availa ct for presence visik fort extension statu Object name Room operating mode object is used to sw nding on the value ations apply: Automatic mode	bject to rep en switched ble if: ble = No and s object = Y Function Received: 04 itch the roo received. Th	oort that the "o l on or off. d es Type 1 Byte m operating n ne following ro	Flags CWTU node ules
The c exter This Obje Com Com Obj. 140 This depe alloc alloc – 0 = – 1 =	controller uses this of nsion" mode has been object is only availa ct for presence visib fort extension statu Object name Room operating mode object is used to sw nding on the value ations apply: = Automatic mode	bject to rep en switched ble if: ble = No and s object = Y Function Received: 04 itch the roo received. Th	oort that the "o l on or off. d es Type 1 Byte m operating n ne following ro	Flags CWTU node ules
The c exter This Obje Com Obj. 140 This depe alloc – 0 = – 1 = – 2 =	controller uses this of nsion" mode has been object is only availa ct for presence visib fort extension statu Object name Room operating mode object is used to sw nding on the value ations apply: Automatic mode comfort mode Pre-comfort mode	bject to rep en switched ble if: ble = No and s object = Y Function Received: 04 itch the roo received. Th	bort that the "o l on or off. d es Type 1 Byte m operating n he following ru	Flags CWTU node ules
The c exter This (Obje Com Obj. 140 This (depe alloc – 0 = – 1 = – 2 = – 3 =	controller uses this of nsion" mode has be object is only availa ct for presence visib fort extension statu Object name Room operating mode object is used to sw nding on the value ations apply: Automatic mode comfort mode Pre-comfort mode Energy-saving mode	bbject to rep en switched ble if: ble = No and s object = Y Function Received: 04 itch the roo received. Th	oort that the "o l on or off. d es Type 1 Byte m operating n he following ru	Flags CWTU node ules
The c exter This - Obje Com Obj. 140 This - depe alloc - 0 = - 1 = - 2 = - 3 = - 4 =	controller uses this of nsion" mode has be object is only availa ct for presence visit fort extension statu Object name Room operating mode object is used to sw nding on the value ations apply: Automatic mode Comfort mode Pre-comfort mode Protection mode.	bject to rep en switched ble if: ble = No and s object = Y Function Reœived: 04 itch the roo received. Th	oort that the "o l on or off. d es Type 1 Byte m operating n ne following ru	Flags CWTU node ules
The c exter This o Obje Com Obj. 140 This o depe alloc. – 0 = – 1 = – 2 = – 3 = – 4 = If a v	controller uses this of nsion" mode has be object is only availa ct for presence visit fort extension statu Object name Room operating mode object is used to sw nding on the value ations apply: Automatic mode comfort mode Pre-comfort mode Energy-saving mode Protection mode. alue other than 0	bject to rep en switched ble if: ble = No and s object = Y Function Reœived: 04 itch the roo received. The de	oort that the "o l on or off. d es Type 1 Byte m operating n ne following ru	Flags CWTU node ules
The c exter This c Obje Com Obj. 140 This c depe alloc – 0 = – 1 = – 2 = – 3 = – 4 = If a v mode	controller uses this of nsion" mode has be object is only availa ct for presence visit fort extension statu Object name Room operating mode object is used to sw nding on the value ations apply: Automatic mode comfort mode Pre-comfort mode Energy-saving mode Protection mode. alue other than 0 e not available to the	bject to rep en switched ble if: ble = No and s object = Y Function Reœived: 04 itch the roo received. The de 4 is received	d ort that the "o on or off. Type 1 Byte moperating m following ru d or a value of t, then the tele	Flags CWTU node ules
The c exter This c Obje Com Obj. 140 This c depe alloc - 0 = - 1 = - 2 = - 3 = - 4 = If a v modulis rej	controller uses this of nsion" mode has be object is only availa ct for presence visit fort extension statu Object name Room operating mode object is used to sw nding on the value ations apply: Automatic mode comfort mode Pre-comfort mode energy-saving mode Protection mode. alue other than 0 e not available to the ected as erroneous.	bject to rep en switched ble if: ble = No and s object = Y Function Reœived: 04 itch the roo received. The de 4 is received	d ort that the "o on or off. Type 1 Byte moperating m the following ro d or a value of t, then the tele	Flags CWTU node ules
The c exter This o Obje Com Obj. 140 This -1 depe alloc -0 = -1 = -1 = -1 = -1 = -1 = -1 = -1 =	controller uses this of asion" mode has been object is only availa ct for presence visite fort extension statu Object name Room operating mode object is used to swo nding on the value ations apply: • Automatic mode • Pre-comfort mode • Pre-comfort mode • Pre-comfort mode • Protection mode. • alue other than 0 • alue other than 0 • attomatic mode	bject to rep en switched ble if: ble = No and s object = Y Function Received: 04 itch the roo received. The de 4 is received to controller via parameter	d ort that the "o on or off. Type 1 Byte moperating n the following ro d or a value of t, then the tele	Flags CWTU node ules a egram ternal
The c exter This of Obje Com Obj. 140 This of depe alloc: -0 = -1 = -2 = -3 = -4 = -3 = -4 = -4 = -4 = -4 = -4	controller uses this of asion" mode has been object is only availa ct for presence visite fort extension statu Object name Room operating mode object is used to swo nding on the value ations apply: • Automatic mode • Pre-comfort mode • Pre-comfort mode • Pretection mode. • alue other than 0 • alue other than 0 • not available to the ected as erroneous. • Automatic mode	bject to rep en switched ble if: ble = No and s object = Y Function Received: 04 itch the roo received. Th de 4 is received to controller via paramet	d ort that the "o on or off. Type 1 Byte m operating n the following ro d or a value of t, then the tele ter is set to int 0" is evaluated	Flags CWTU node ules egram ternal
The c exter This c Obje Obje Obj. 140 This c depe alloc: -0 = -1 = -2 = -3 = -4 = -12 = -3 = -12	controller uses this of asion" mode has been object is only availa ct for presence visite fort extension statu Object name Room operating mode object is used to swe nding on the value ations apply: • Automatic mode • Pre-comfort mode • Pre-comfort mode • Pretection mode. • Protection mode. • alue other than 0 • alue other than 0 • not available to the ected as erroneous. • Automatic mode • program then only r values are rejected	bject to rep en switched ble if: ble = No and s object = Y Function Received: 04 itch the roo received. Th de 4 is received. Th de 4 is received received. Th de 4 is received. Th de 4 is received. Th de 4 is received. Th	d ort that the "o on or off. Type 1 Byte m operating n the following ro to r a value of then the tele ter is set to int 0" is evaluated ceived when the	Flags CWTU CWTU node ules egram ternal d. the
The c exter This c Obje Com Obj. 140 This c depe alloc: -0 = -1 = -2 = -3 = -4 = If a v mode is rej. If the time Othe Auto	controller uses this of asion" mode has been object is only availa ct for presence visite fort extension statu Object name Room operating mode object is used to swe nding on the value ations apply: • Automatic mode • Pre-comfort mode • Pre-comfort mode • Pretection mode. • Protection mode. • alue other than 0 • alue other than 0 • not available to the tected as erroneous. • Automatic mode of program then only r values are rejected matic mode via pa	bbject to rep en switched ble if: ble = No and s object = Y Function Received: 04 itch the roo received. Th de 4 is received. Th de 4 is received via paramet / the value " d. If a 0 is re rameter is s	d or a value of r, then the tele ceived when t ceived when t	Flags CWTU CWTU node ules egram ternal d. the grams,
The c exter This of Obje Com Obj. 140 This of depear alloc: -0 = -1 = -2 = -3 = -4 = -12 = -3 = -12 =	controller uses this of asion" mode has been object is only availa ct for presence visite fort extension statu Object name Room operating mode object is used to swe nding on the value ations apply: • Automatic mode • Pre-comfort mode • Pre-comfort mode • Pre-comfort mode • Protection mode. • Protection mode. • alue other than 0 • alue other than 0 • not available to the ected as erroneous. • Automatic mode • program then only r values are rejected matic mode via para oom operating mode	bbject to rep en switched ble if: ble = No and s object = Y Function Received: 04 itch the roo received. Th de 4 is received. Th de 4 is received. Th via paramet / the value " d. If a 0 is re rameter is s le will be se	d or a value of the following runne following	Flags CWTU CWTU node ules egram ternal d. the grams, most
The c exter This c Obje Com D D D D D D D D D D	controller uses this of asion" mode has been object is only availa ct for presence visite fort extension statu Object name Room operating mode object is used to sw nding on the value ations apply: • Automatic mode • Pre-comfort mode • Pre-comfort mode • Pre-comfort mode • Pre-comfort mode • Protection mode. • Protection mode. • alue other than 0 • not available to the ected as erroneous. • Automatic mode • program then only r values are rejected matic mode via par oom operating mode ontly received via the	biject to rep en switched ble if: ble = No and s object = Y Function Received: 04 itch the roo received. Th de 4 is received. Th de 4 is received. Th via paramet v the value " d. If a 0 is re rameter is s le will be se a 1-byte or 1	d or a value of the following runne following	Flags CWTU CWTU node ules egram ternal d. the grams, most
The c exter This c Obje Com Obj. 140 This c depe alloc - 0 = - 1 = - 2 = - 3 = - 4 = If a v modu is rej If the time Othe Auto the r recer This c	controller uses this of nsion" mode has been object is only availa ct for presence visite fort extension statu Object name Room operating mode object is used to sw nding on the value ations apply: Automatic mode Protection mode Protection mode Protection mode. alue other than 0 Protection mode. alue other than 0 e not available to the ected as erroneous. Automatic mode Distribute the other than only r values are rejected matic mode via par oom operating mode thy received via the communication obj	biject to rep en switched ble if: ble = No and s object = Y Function Received: 04 itch the roo received. The de 4 is received. The ceived. The received. The de 4 is received. The received. The received. The de 4 is received. The de 4 is received. The received. The received. The de 1 is received. The ceived. The received. The de the value " d. If a 0 is rep rameter is so the will be se to 1-byte or 1 ect sends a	d or a value of the to the the tele to the the tele to the the tele ter is set to int of is evaluated to the mode to the mode bit objects. read request w	Flags CWTU CWTU node ules egram d. ternal d. the grams, most when

This object is only available if:

8-bit objects for room operating mode / room operating mode status = Yes

Obj.	Object name	Function	Туре	Flags
141	Room operating	Send:	1 Byte	CRT
	mode status	04		

This object is used to report the current mode after the room operating mode is switched.

For the case "controller + control panel" the following allocations apply for the transmitted values:

- 1 = Comfort mode
- 2 = Pre-comfort mode
- 3 = Energy-saving mode
- -4 = Protection mode.

0 (= automatic mode) never occurs in this case, since a mode different from "0" always results.

For the case "control panel" with internal time program, the following allocations apply for the transmitted values:

- 1 = Comfort mode
- 2 = Pre-comfort mode
- 3 = Energy-saving mode
- 4 = Protection mode.

For the case "control panel" with external time program, the following allocations apply for the transmitted values:

- -0 = Automatic mode (ext. time switch program)
- 1 = Comfort mode
- 2 = Pre-comfort mode
- 3 = Energy-saving mode
- -4 = Protection mode.

Value ≠ 0 here means: Manual mode

This object is only available if:

8-bit objects for room operating mode / room operating mode status = Yes

Obj.	Object name	Function	Туре	Flags
142	Controller status	Send	1 Byte	CRT
	(Eberle)			

This object contains the current controller status, which is automatically sent when the status changes.

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The i	ndividual bits have	the followir	ng meaning:		Obj.	Object name	Function	Туре	Flags
– Bit	0: 1 = comfort mod	de On			145	Heating/ cooling,	Send:	1 Byte	CRT
– Bit	1:1 = pre-comfort	mode On				variable constant	0100%	DPT_Scaling	
– Bit	2:1 = energy-savin	ng mode On			This	object is used to se	nd the varia	ble as a perce	ntile in
– Bit	3: 1 = protection m	node On			both	n heating and coolin	g mode.		
– Bit	4: 1 = dew point al	arm			This	object is only availa	ble if:		
– Bit	5: 1 = heating mod	le, 0 = coolii	ng mode		– De	evice function = con	troller + cor	ntrol panel	
– Bit	6: 1 = controller Of	ff, 0 = contro	oller On		and				
– Bit	7: 1 = Frost/heat al	arm (depen	ding on the va	alue of	– He	eating = PI control			
bit	: 5)				and				
This	object is only availa	ble if:			– Co	ooling = with PI cont	trol		
8-Bit	object controller st	atus (Eberle) = Yes		and				
Obj.	Object name	Function	Туре	Flags	– Ty	pe of variable outpu	ut for heatin	g and cooling	j =
143	Controller status	Send:	2 Byte	CRT	co	onstant (8 bit) to a jo	oint object	-	_
	(RHCC)	16-Bit Status			Obj.	Object name	Function	Туре	Flags
This	object contains the	current con	troller status,	which	146	Heating, variable	Send:	1 bit	CRT
is au	tomatically sent wh	en the statu	is changes.			switching	On/Off		
The	following bits are su	pported:			This	object is used to se	nd the varia	ble as an On/0	Off
Fault	t (Bit 0), HeatCoolM	ode (Bit 8),	DewPointStat	us	swit	ching command in l	heating mod	le.	
(Bit 1	12), FrostAlarm (Bit	13) und Ove	erheatAlarm (Bit 14).	This	object is only availa	ıble if:		
The	other bits (17, 91	1 and 15) a	re set to 0.		– De	evice function = con	troller + cor	ntrol panel an	d
This	object is only availa	ble if:			– He	eating with two-poir	nt control		
16-B	it object controller s	status (RHCC	C) = Yes		or				
Obj.	Object name	Function	Туре	Flags	– De	evice function = con	troller + cor	ntrol panel an	d
144	Heating/ cooling,	Send:	1 bit	CRT	– He	eating = with PI cont	trol and		
	variable switching	On/Off			– Va	ariable output type f	or heating a	ind cooling =	via
This	object is used to ser	nd the varial	ble as an On/C	Off	se	parated objects and			
swite	ching command in b	ooth heating	g and cooling	mode.	– ty	pe of variable outpu	it for heating	g = switching	(1 Bit)
This	object is only availa	ble if:			Obj.	Object name	Function	Туре	Flags
– De	vice function = con	troller + con	ntrol panel and	1	147	Heating, variable	Send:	1 Byte	CRT
– He	ating = with two-po	oint control	and cooling)	with		constant	0100%	DPT_Scaling	
tw	o-point control		-		This	object is used to se	nd the varia	ble as a perce	ntile in
or					heat	ing mode with PI co	ontrol and th	ne "internal" v	ariable
– De	vice function = con	troller + con	itrol panel and	ł	of th	ne control with sequ	ence contro	l in PI control	•
– He	ating = with PI cont	trol and cool	ling = with Pl	control	This	object is only availa	ble if:		
an	d				– De	evice function = con	troller + cor	ntrol panel an	d
– Ту	pe of variable outpu	it for heatin	g and cooling	=	– He	eating = with PI-con	trol or		
SM	itching (1 bit) to a j	oint object			– He	eating = with PI cont	trol and seq	uence control	and
					– Va	ariable output type f	or heating a	ind cooling =	via
					se	parated objects and			
					– ty	pe of variable outpu	it for heatin	g = constant (8 Bit)
					Obj.	Object name	Function	Туре	Flags
					148	Heating, variable sequence 1	Send: 0100%	1 Byte DPT_Scaling	CRT
					This	object is used in he	ating mode	with sequence	e
					cont	rol to send the varia	able of the f	irst sequence	as a
					perc		L1 '4		
					This	object is only availa	idie IT:		
					– De	evice function = con	troller + cor	itrol panel an	a
					– He	eating = with PI cont	trol and seq	uence control	

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Obj.	Object name	Function	Туре	Flags
149	Heating, variable	Send:	1 Byte	CRT
	sequence 2	0100%	DPT_Scaling	
This (object is used in hea	ating mode	with sequence	9
contr	rol to send the varia	ble of the se	econd sequen	ce as a
perce	entile.			
This	object is only availa	ble if:		
– De	vice function = con	troller + con	trol panel and	1
– He	ating = with PI cont	rol and sequ	uence control	
Obj.	Object name	Function	Туре	Flags
150	Cooling, variable	Send:	1 bit	CRI
				0 1011
Inis (object is then used t	to send the	variable as an	On/Off
Thic	object is only availa	bla if:	с.	
	vice function – con		trol papel and	1
- De	olina = $two-point c$	noner + con		1
or	omig – two-point c			
– De	vice function $= con^2$	troller + con	trol panel and	ł
– Co	oling = with Pl cont	rol and		•
– Va	riable output type f	or heating a	nd coolina = v	/ia
sep	parated objects and	or nouting a	ing cooling	
– typ	e of variable outpu	t for coolind	ı = switching ((1 Bit)
Obj.	Object name	Function	Туре	Flags
151	Cooling, variable	Send:	1 Byte	CRT
	constant	0100%	DPT_Scaling	
This (object is used to ser	nd the varial	ole as a percer	ntile in
cooli	ng mode with PI co	ntrol and th	e "internal" va	riable
of th	e control with sequ	ence contro	l in PI control.	
This (object is only availa	ble if:		
– De	vice function = con	troller + con	trol panel and	1
– Co	oling = with Pl cont	rol or		1
Co	oling = with PI cont	rol and sequ	ience control	and
– va	nable output type in parated objects and	or neating a	na cooling = $\sqrt{100}$	/ia
_ tvr	of variable output	t for cooling	u = constant (8	R Bit)
Ohi		Function		Flags
152	Cooling variable	Send.	1 Byte	CRT
	sequence 1	0100%	DPT Scaling	enti
This	chiect is used in cor	ling mode	with sequence	<u>ــــــــــــــــــــــــــــــــــــ</u>
contr	rol to send the varia	ble of the fi	rst sequence a	- as a
perce	entile.	2.2 01 010 1		
This (object is onlv availa	ble if:		
– De	vice function = con	troller + con	trol panel and	1
– Co	oling = with PI cont	rol and sequ	ience control	

Obi.	Obiect name	Function	Type	Flags			
153	Cooling, variable	Send:	1 Bvte	CRT			
	sequence 2	0100%	DPT Scaling				
Thic	object is used in co	ling mode	with coquence				
cont	rol to cond the varia	blo of the c	with sequence	;			
perce	entile.		econd sequen	ce as a			
This object is only available if:							
– De	vice function = con	troller + con	trol panel and	l			
– Co	oling = with PI cont	rol and sequ	uence control				
Obj.	Object name	Function	Туре	Flags			
154	Fan mode	Send:	1 bit	CRT			
This	object sends the s	et fan mod	e. Depending	on the			
settii	ng of the "invert va	lue of fan n	node" parame	ter, the			
follo	wing applies:						
– No	: Value "0" = Fan	-manual mo	ode,				
	Value "1" = Fan	automatic	mode				
– Ye	s: Value "1" = Fan	-manual mo	ode,				
	Value "0" = Fan	automatic	mode				
This	object is only availa	ble if:					
– Fa	n available = Yes						
Obj.	Object name	Function	Туре	Flags			
155	Fan mode status	Receive	1 bit	CWU			
This	object is used to red	eive and div	splay the statu	s of			
the f	an mode.						
Depe	ending on the settin	a of the "inv	vert value of fa	an			
mod	e" parameter, the fo	ollowing apr	olies:				
– No	: Value "0" = Fan	-manual mo	ode.				
_	Value "1" = Fan	automatic	mode				
– Ye	s: Value "1" = Fan	-manual mo	ode,				
	Value "0" = Fan	automatic	mode				
This	obiect is only availa	ble if:					
– Fa	n available = Yes						
Obi.	Obiect name	Function	Type	Flags			
156	Fan speed	Send	1 Byte	CRT			
	i un specu	0 100%	DPT Scaling	CITI			
Aftor	I s change in the far	lovel this		in hoth			
auto	matic and manual r	node to sen	d the current f	an			
snee	d This object can th	noue to sent	used to start i	in a fan			
with	an adjustable speed	d in the rand	ased to start a				
The allocation of a speed will the family of U 100%.							
[he a	allocation of a speed	The allocation of a speed value to a fan level in the "fan"					
The a	allocation of a speed meter window is us	ed to deterr	nine which fai	e ran 1 level			
The a para symt	allocation of a speed meter window is us ool is to be shown o	ed to detern n the displa	nine which fai y.	n level			
The a para symt This	allocation of a speed meter window is us pol is to be shown o object is only availa	ed to detern n the displa ble if:	nine which fai y.	n level			
The a para symt This – Fa	allocation of a speed meter window is us pol is to be shown o object is only availa n available = Yes	ed to detern n the displa ble if:	nine which fai y.	n level			
The a para symt This – Fa Obj.	allocation of a speed meter window is us bol is to be shown o object is only availa n available = Yes Object name	ed to detern n the displa ble if: Function	nine which fai y.	Flags			
The a paran symt This – Fan Obj. 157	allocation of a speed meter window is us bol is to be shown o object is only availa n available = Yes Object name Fan speed status	ed to detern n the displa ble if: Function Receive:	nine which fai y. Type 1 Byte	Flags			
The a para symb This – Fa Obj. 157	allocation of a speed meter window is us bol is to be shown o object is only availa n available = Yes Object name Fan speed status	ed to detern n the displa ble if: Function Receive: 0100%	Type 1 Byte DPT_Scaling	Flags			
The a paran symb This – Fan Obj. 157 This	allocation of a speed meter window is us bol is to be shown o object is only availa n available = Yes Object name Fan speed status object is used to red	ed to detern n the displa ble if: Function Receive: 0100%	Type 1 Byte DPT_Scaling rrent fan spee	Flags CWU			
The a parates symbox This – Fa Obj. 157 This This	allocation of a speed meter window is us bol is to be shown o object is only availa n available = Yes Object name Fan speed status object is used to reconstruct	ed to detern n the displa ble if: Function Receive: 0100% reive the cur ble if:	Type 1 Byte DPT_Scaling rrent fan spee	Flags CWU			

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Obj.	Object name	Function	Туре	Flags					
158	Fan level 1	Send:	1 bit	CRT					
		On/Off							
This	obiect is used to se	nd the comr	nand for swite	ching					
fan l	evel 1 on and off.			5					
This	obiect is only availa	ble if:							
– Fa	– Fan available = Yes								
Obi.	Obiect name	Function	Type	Flags					
159	Fan level 2	Send:	1 bit	CRT					
		On/Off							
This	object is used to se	nd the comr	nand for swite	hina					
fan le	evel 2 on and off.			linig					
This	object is only availa	hle if							
– Fa	n available – Yes an	id .							
– Nu	imber of fan sneeds	s = 2 or							
nu	mber of fan speeds	= 3							
Obi.	Object name	Function	Type	Flags					
160	Fan level 3	Send.	1 bit	CRT					
		On/Off		CITI					
Thic	object is used to se	nd the comr	l nand for swite	hina					
fan l	evel 3 on and off			ling					
Thic	object is only availa	bla if.							
низ Га	p available Voc an								
— га м.	in available = res an	iu o							
	Object name	Eunction	Type	Flage					
161	Conject name	Pareire	1 bit	CMU					
101	Farriever i status	Receive:		CWU					
TI '	1								
This fap l	object is used to rec	ceive and dis	splay the statu	is of					
Idii i	ever i.	ra than ana	of objects 16	1 160					
thon	the highest fan lev		of objects to	۱۱۵۶, ۵					
Thic		bla if.	eu in each cas	с.					
En	object is only availa n available – Voc	DIE II.							
		Function	Turne	Lang					
<u>162</u>	Object name	Function	1 bit	Flags					
162	Fan level 2 status	Receive:	I DIT	CWU					
	 			L					
[his	object is used to red	ceive and dis	splay the statu	is of					
tan l	evel 2.		C 1						
If the	e status is set to mo	re than one	of objects 16	1163, -					
then	the highest fan lev	el is displaye	ed in each cas	e.					
This	object is only availa	ble if:							
– Fa	n available = Yes an	ld							
– Nu	imber off an speeds	s = 2 or							
nu	number off an speeds = 3								

Obj.	Object name	Function	Туре	Flags			
163	Fan level 3 status	Receive:	1 bit	CWU			
		On/Off					
This object is used to receive and display the status of fan level 3.							
lf the then	e status is set to mor the highest fan leve	re than one el is displaye	of objects 161 ed in each case	l163, e.			
This of Land	This object is only available if:						
– Nu	mber of fan levels =	- 3					

5.2 Channels

5.2.1 Parameter for channel type

Parameter	Settings
Channel type	unused
	Switch
	Dimmer
	Shutter
	Roller blinds,
	Send values
	Forced control
	Alarm / Message
	Scene control
Specification of the channel t channel.	ype and activation of the
Transmission: ETS/sdCard	
Parameter page: Channels	

5.2.2 Switch parameter

Parameter	Settings
Switch type	off
	on
	toggle
	bell: On at push, Off at release
	bell: Off at push, On at release
Setting the switch t	ypes.
Transmission: sdCar	d
Parameter page:	Channel

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Parameter	Settings		
Status display	Yes		
visible	No		
Specification as to whether the status display of the switching state should be visible on the display.			
Transmission: sdCard			
Parameter page:	Channel		

5.2.3 Switch communication objects

The following communication objects refer to channels 1 – 18.

Obj.	Object name	Function	Туре	Flags
0, 6, 12,	<channel no.=""></channel>	Send:	1 bit	CWT
18, 24, 30,	- Switch	On/Off		
36, 42, 48				
54, 60, 66,				
72, 78, 84				
90, 96, 102				
This object s	ends a switching	command wh	en a k	ey is
pressed.	-			-
1, 7, 13,	< Channel no.>	Receive:	1 bit	CWTU
19, 25, 31,	- Switch status	On/Off		
37, 43, 49				
55, 61, 67,				
73, 79, 85				
91, 97, 103				
This object is used to receive the status. The status can				

This object is used to receive the status. The status can be shown on the display. The switch over function uses the status to synchronize the internal status.

This communication object sends a read request when power is restored.

5.2.4 Communication objects for dimming

The following communication objects refer to channels 1 - 18.

Obj.	Object name	Function	Туре	Flags
0, 6, 12,	< Channel no.>	Send:	1 bit	CT
18, 24, 30,	- Switch	On/Off		
36, 42, 48				
54, 60, 66,				
72, 78, 84				
90, 96, 102				
This object sends a switching command when a key is				

pressed.

Obj.	Object name	Function	Туре	Flags		
1, 7, 13, 19, 25, 31, 37, 43, 49 55, 61, 67, 73, 79, 85 91, 97, 103	< Channel no.> - Switch status	Receive: On/Off	1 bit	CWTU		
This object is shown on th This commu power is res	This object is used to receive the status. The status is shown on the display. This communication object sends a read request when power is restored.					
Obj.	Object name	Function	Туре	Flags		
2, 8, 14, 20, 26, 32, 38, 44, 50 56, 62, 68, 74, 80, 86 92, 98, 104	< Channel no.> - Dimming value	Send: Value	1 Byte DPT_ Scaling	СТ		
This object is an 8-bit data	s used to send th i telegram.	e dimming va	lue in st	teps as		
3, 9, 15, 21, 27, 33, 39, 45, 51 57, 63, 69, 75, 81, 87 93, 99, 105	< Channel no.> - Status of dimming value	Received: Value	1 Byte DPT_ Scaling	CWTU		
This object is used to display received values by the length of the bar. This communication object sends a read request when power is restored.						

5.2.5 Shutters parameter

Parameter	Settings
Reverse of rotation of slat	Νο
setting	Yes
Setting to define whether the slat setting should be reverse – No: Turning clockwise send – Yes: Turning clockwise send	rotational direction of the d. s Slats closed (1) ds Slats open (0)
Transmission: sdCard	
Parameter page: Channel	

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Parameter	Settings		
Actuator status object	Yes		
provided	No		
Setting to define whether the actuator used provides an			
8-bit status object (shutter position).			
The actuator status object must be connected to the			
channel status object.			
Transmission: ETS/sdCard			
Parameter page: Channel			

5.2.6 Communication object for shutters

The following communication objects refer to channels 1 – 18.

Obj.	Object name	Function	Туре	Flags				
0, 6, 12,	<channel no.=""></channel>	Send:	1 bit	СТ				
18, 24, 30,	Sun protection	Up/down						
36, 42, 48	-							
54, 60, 66,								
72, 78, 84								
90, 96, 102								
This object s	This object sends a switching command when a key is							
pressed.								
Obj.	Object name	Function	Туре	Flags				
1, 7, 13,	<channel no.=""></channel>	Send:	1 bit	СТ				
19, 25, 31,	Stop/	Stop,						
37, 43, 49	slats	Open/						
55, 61, 67,		Closed						
73, 79, 85								
91, 97, 103								
This object s	ends a switching	command wh	nen a ke	ey is				
pressed.								
The sun prot	ection receives t	he stop comm	and or	The sun protection receives the stop command or open				
or closed.	or closed.							
				-1				
Obj.	Object name	Function	Туре	Flags				
Obj. 2, 8, 14,	Object name <channel no.=""></channel>	Function Send:	Type 1 Byte	Flags CT				
Obj. 2, 8, 14, 20, 26, 32,	Object name <channel no.=""> Sun protection</channel>	Function Send: Value	Type 1 Byte	Flags CT				
Obj. 2, 8, 14, 20, 26, 32, 38, 44, 50	Object name <channel no.=""> Sun protection</channel>	Function Send: Value	Type 1 Byte	Flags CT				
Obj. 2, 8, 14, 20, 26, 32, 38, 44, 50 56, 62, 68,	Object name <channel no.=""> Sun protection</channel>	Function Send: Value	Type 1 Byte	Flags CT				
Obj. 2, 8, 14, 20, 26, 32, 38, 44, 50 56, 62, 68, 74, 80, 86	Object name <channel no.=""> Sun protection</channel>	Function Send: Value	Type 1 Byte	Flags CT				
Obj. 2, 8, 14, 20, 26, 32, 38, 44, 50 56, 62, 68, 74, 80, 86 92, 98, 104	Object name <channel no.=""> Sun protection</channel>	Function Send: Value	Type 1 Byte	Flags CT				
Obj. 2, 8, 14, 20, 26, 32, 38, 44, 50 56, 62, 68, 74, 80, 86 92, 98, 104 This object is	Object name <channel no.=""> Sun protection</channel>	Function Send: Value set the positio	Type 1 Byte on of th	Flags CT e sun				
Obj. 2, 8, 14, 20, 26, 32, 38, 44, 50 56, 62, 68, 74, 80, 86 92, 98, 104 This object is protection.	Object name <channel no.=""> Sun protection s used to directly he value 0 is ser</channel>	Function Send: Value set the position to complete	Type 1 Byte on of th ly open	Flags CT e sun the				
Obj. 2, 8, 14, 20, 26, 32, 38, 44, 50 56, 62, 68, 74, 80, 86 92, 98, 104 This object is protection. T shutter.	Object name <channel no.=""> Sun protection s used to directly he value 0 is ser</channel>	Function Send: Value set the position to complete	Type 1 Byte on of th ly open	Flags CT e sun the				
Obj. 2, 8, 14, 20, 26, 32, 38, 44, 50 56, 62, 68, 74, 80, 86 92, 98, 104 This object is protection. T shutter. This object is	Object name <channel no.=""> Sun protection s used to directly The value 0 is ser</channel>	Function Send: Value set the position at to complete ernal scene co	Type 1 Byte on of th ly open ntroller	Flags CT e sun the to				

UDJ.	Object name	Function	туре	Flags			
3, 9, 15, 21, 27, 33, 39, 45, 51 57, 63, 69, 75, 81, 87 93, 99, 105	<channel no.=""> Status Sun protection setting</channel>	Receive: Value	1 Byte	CWTU			
Received val response syr position, val In the case o	Received values are used via this object to display the response symbol. The value 0 indicates undefined position, value 1 means the shutter is completely open. In the case of undefined position, an "?" is displayed.						
Obj.	Object name	Function	Туре	Flags			
4, 10, 16, 22, 28, 34, 40, 46, 52 58, 64, 70, 76, 82, 88 94, 100, 106	<channel no.=""> Slat setting</channel>	Send: Value	1 Byte	СТ			
This object is The value 0 i This object is the shutter s	s used to directly is sent to comple s used by the inte etting.	set the position the position the ernal scene co	on of th slats. ntroller	e slats. to set			
Obi.	Object name	Function	Type	Flags			
Object name Function Type Flags 5, 11, 17, <channel no.=""> Receive: 1 Byte CWTU 23, 29, 35, Status Value 1 Byte CWTU 41, 47, 53 of slat setting 59, 65, 71, 77, 83, 89 95, 101, 107 107</channel>							
Received values are used via this object to display the response symbol. The value 0 indicates undefined position, value 1 means the slats are completely open. In the case of undefined position, an "?" is displayed.							

5.2.7 Parameter for roller blinds

Parameter	Settings
Actuator status object	Yes
provided	No
Setting to define whether the actuator used provides an 1-byte status object (roller blind position). The actuator status object must be connected to the channel status object.	
Transmission: ETS/sdCard	
Parameter page: Channel	

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

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5.2.8 Communication objects for shutters

The following communication objects refer to channels 1 - 18.

Obj.	Object name	Function	Туре	Flags	
0, 6, 12, 18, 24, 30, 36, 42, 48 54, 60, 66, 72, 78, 84 90, 96, 102	<channel no.=""> Roller blinds,</channel>	Send: Up/down	1 bit	СТ	
This object sends a switching command when a key is pressed.					
Obj.	Object name	Function	Туре	Flags	
1, 7, 13, 19, 25, 31, 37, 43, 49 55, 61, 67, 73, 79, 85 91, 97, 103	<channel no.=""> Stop</channel>	Send	1 bit	СТ	
This object s	ends a switching	command wh	nen a ke	ey is	
pressed. The	roller blinds rece	eive the stop o	commai	nd.	
Obj.	Object name	Function	Туре	Flags	
2, 8, 14, 20, 26, 32, 38, 44, 50 56, 62, 68, 74, 80, 86	<channel no.=""> Roller blind setting</channel>	Send: Value	1 Byte	CI	
92, 98, 104					
92, 98, 104 This object is blind. The va This object is start up the	s used to directly Ilue 0 is sent to c s used by the inte roller blind settin	set the position ompletely opernal scene co g.	on of th en roller ntroller	e roller r blind. to	
92, 98, 104 This object is blind. The va This object is start up the Obj.	s used to directly alue 0 is sent to c s used by the inte roller blind settin Object name	set the position ompletely opernal scene co g. Function	on of th en roller ntroller Type	e roller r blind. to Flags	
92, 98, 104 This object is blind. The va This object is start up the Obj. 3, 9, 15, 21, 27, 33, 39, 45, 51 57, 63, 69, 75, 81, 87 93, 99, 105	s used to directly alue 0 is sent to c s used by the inte roller blind settin Object name <channel no.=""> Status roller blind setting</channel>	set the position ompletely operation ernal scene co g. Function Receive: Value	on of th en roller ntroller Type 1 Byte	e roller r blind. to Flags CWTU	

response symbol. The value 0 indicates undefined position, value 1 means the roller blind is completely open. In the case of undefined position, an "?" is displayed.

5.2.9 Send value parameter

Parameter		Settings
Data type		1-byte in %
51		1-byte unsigned integer
		1-byte signed integer
		2-byte unsigned integer
		2-byte signed integer
Setting of which c	lata type is t	o be sent
Transmission: ETS	/sdCard	
Parameter page: 0	Channel	
Parameter Settings		
Variable value		Yes
Tu		No
Specification as to whether the value to be sent is a		
constant value or	a variable (c	can be set on the device).
Transmission: ETS	/sdCard	
Parameter page: 0	Channel	
Parameter	Settings	
Value	Value in the	e value range of the
	specified data type	
	Pre-set val	ue: 0
Setting of the valu values.	le to be sen	t when sending constant
Transmission: sdC	ard	
Parameter page: 0	Channel	
The parameter is o	only visible v	when:
– Variable value	= No	
Parameter	Settings	
Maximum	Value in the	e value range of the
	specified da	ata type
	Pre-set val	ue: largest value in the
		5

Setting of the largest allowed input value for inputting variable values. Transmission: sdCard Parameter page: Channel The parameter is only visible when:

– Variable value = yes

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Parameter	Settings
Minimum	Value in the value range of the
	specified data type
	Pre-set value: smallest value in the
	value range

Setting of the smallest allowed input value for inputting variable values.

This value is displayed the first time the operating page is called up if no value has yet been received via the value object.

The last sent/received value is displayed with each additional call-up of the operating page.

Transmission: sdCard

Parameter page: Channel

The parameter is only visible when:

Variable value = yes

Parameter	Settings
Unit	
Specification of the universe value.	t of the displayed numerical
Maximum length: 14 cł	naracters.
Transmission: sdCard	
Parameter page: Chann	el
The parameter is only v	isible when:
 Variable value = yes 	

5.2.10 Send value communication object

The following communication objects refer to channels 1 - 18.

Obj.	Object name	Function	Туре	Flags
3, 9, 15,	<channel no.=""></channel>	Send	1 Byte	CWTU
21, 27, 33,	Value (data		2 Byte	
39, 45, 51	type)		-	
57, 63, 69,				
75, 81, 87				
93, 99, 105				

Received values are used via this object to display the response symbol. The value 0 indicates undefined position, value 1 means the roller blind is completely open. In the case of undefined position, an "?" is displayed.

5.2.11 Communication object for forced control

The following communication objects refer to channels 1 - 18.

Obj.	Object name	Function	Туре	Flags
0, 6, 12,	<channel no.=""></channel>	Send	2 bit	CTU
18, 24, 30,	- Forced control			
36, 42, 48				
54, 60, 66,				
72, 78, 84				
90, 96, 102				
This object is	s used to send th	e forced-conti	rol cont	rol
telegram for	the respective c	hannel.		

5.2.12 Channel-specific parameter for alarms and messages

Parameter	Settings	
Function	Message	
	Alarm	
Specification of whether or no an alarm message. If a bus tel value triggering an alarm, the automatically shown on the d An additional object is created format to trigger the alarm.	ot the message should be egram is received with a in this message is isplay. d in the corresponding	
Transmission: ETS/sdCard		
Parameter page: Channel		

Parameter	Settings
Condition for the alarm	0
activation (1 bit)	1
Specification define the value object for which an alarm sl	ue of the alarm triggering nould be activated.
Transmission: sdCard	
Parameter page: Channel	
The parameter is only visible	e when:
– Function = Alarm	

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Parameter		Settings
Triggering only occurs		for the first alarm
inggening only occurs		for every alarm
Specification define when activated when the alarm	the the	r a new alarm should be ggering object is updated.
alarm,	. 01	ie-time triggering of the
 for every alarm: the ala value identical to the c received by the trigger 	irm onf ing	is triggered every time a igured threshold value is object.
Transmission: sdCard		
Parameter page: Channel		
The parameter is only vis – Function = Alarm	ible	e when:
Parameter		Settings
Object value for acknowledging the alar	m	1 0
Specification to define w used to acknowledge the acknowledgement input)	hicł ala) an	n value in the object can be arm (Alarm d which value in the object
should be sent after ackn acknowledgement outpu	ow it).	ledgement (Alarm-
Transmission: sdCard		
Parameter page: Channel	1	
The parameter is only vis	ible	when:
– Function = Alarm		
Parameter S	ett	inas
Display lighting in N case of alarm S	lo c wit	hange in status : ch on
Specification of the beha when an alarm is triggere	vioi ed.	r of the display lighting
Transmission: sdCard		
Parameter page: Channel		
The parameter is only vis	ible	when:
– Function = Alarm		
Parameter		Settings
Alarm text		
Specification of the text t when the alarm condition	:o b n is	e shown on the display fulfilled.
The maximum text lengtl	h is	64 characters.
Transmission: sdCard		
Parameter page: Channel	l	
The parameter is only vis	ible	when:
– Function = Alarm		

Parameter	Setti	ngs
Alarm symbol		
Specification of th	ie syn	nbol to be shown on the display
when the alarm co	onditi	on is fulfilled.
Transmission: sdC	ard	
Parameter page: (Chann	el
The parameter is o	only v	isible when:
– Function = Alar	rm	
Parameter		Settings
LED behavior in o	ase	off
of alarm		continuous red
		red blinking
Specification of th	e beł	navior of the orientation LED
when an alarm is	trigge	ered.
Transmission: sdC	ard	
Parameter page: (hann	el
The parameter is o	only v	isible when:
– Function = Alar	m	
Parameter		Settings
Behavior when a	n	without alarm tone
alarm occurs		One-time alarm tone
		Alarm tone repeats permanently
Specification to de	efine	whether and how the triggering
of an alarm should	d be a	coustically clarified.
 without alarm t 	one:	The alarm is shown on the display
 without alarm t without an acou One time alarm 	one: ⁻ ustic s	Γhe alarm is shown on the display ignal.
 without alarm t without an acou One-time alarm for a specified t 	one: ⁻ ustic s tone	The alarm is shown on the display ignal. A one-time alarm tone is output
 without alarm t without an acou One-time alarm for a specified t Alarm tone reperior 	one: ustic s tone ime.	The alarm is shown on the display ignal. A one-time alarm tone is output ermanently A one-time alarm
 without alarm t without an acou One-time alarm for a specified t Alarm tone repertone is output for 	one: ustic s tone ime. eats p or a s	The alarm is shown on the display ignal. A one-time alarm tone is output ermanently A one-time alarm pecified time and at set intervals.
 without alarm t without an acou One-time alarm for a specified t Alarm tone repe tone is output f Transmission: sdC 	one: ustic s tone ime. eats p or a s ard	The alarm is shown on the display ignal. A one-time alarm tone is output ermanently A one-time alarm pecified time and at set intervals.
 without alarm t without an acou One-time alarm for a specified t Alarm tone repe tone is output f Transmission: sdC Parameter page: C 	one: ⁻ ustic s tone ime. eats p or a s ard Chann	The alarm is shown on the display ignal. A one-time alarm tone is output ermanently A one-time alarm pecified time and at set intervals.
 without alarm t without an acou One-time alarm for a specified t Alarm tone repe tone is output f Transmission: sdC Parameter page: C 	one: ⁻ ustic s tone me. eats p or a s ard Chann only v	The alarm is shown on the display ignal. A one-time alarm tone is output ermanently A one-time alarm pecified time and at set intervals. rel isible when:
 without alarm t without an acou One-time alarm for a specified t Alarm tone repe tone is output fi Transmission: sdC Parameter page: C The parameter is o Function = Ala 	one: ustic s tone ime. eats p or a s ard Chann only v rm	The alarm is shown on the display ignal. A one-time alarm tone is output ermanently A one-time alarm pecified time and at set intervals. rel isible when:

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Parameter	Settings	
Priority	118	
	Pre-set value: 1	
Specification of th	e priority of an alarm.	
The alarms are so	rted in an events list according to	
priority and the ti	me of their occurrence.	
– highest priority: 1,		
– lowest priority: 18.		
 in the case of equal priority: Most recent alarm message first. 		
Transmission: sdC	ard	
Parameter page: (Channel	
The parameter is o	only visible when:	
 Function = Alar 	rm	

Parameter	Settings
Alarm text to be	Preset value: Caution Alarm
sent	
Specification of th	e text to be sent through the
communication o	bject when an alarm is triggered.
The maximum length is 14 characters. Input of an empty	
character string is	not possible.
Transmission: sdC	ard
Parameter page: C	Channel
The parameter is only visible when:	

– Function = Alarm

Parameter	Settings
Symbol for value = "1"	
Selection of a symbol for th the display when the value	e message. This is shown on contains "1".
Transmission: sdCard	
Parameter page: Channel	
The parameter is only visibl	e when:
– Function = Message	
Parameter	Settings
Parameter Symbol for value = "0"	Settings
Parameter Symbol for value = "0" Selection of a symbol for th the display when the value	Settings e message. This is shown on contains "0".
Parameter Symbol for value = "0" Selection of a symbol for th the display when the value Transmission: sdCard	Settings e message. This is shown on contains "0".
Parameter Symbol for value = "0" Selection of a symbol for th the display when the value Transmission: sdCard Parameter page: Channel	Settings e message. This is shown on contains "0".
Parameter Symbol for value = "0" Selection of a symbol for th the display when the value Transmission: sdCard Parameter page: Channel The parameter is only visibl	Settings e message. This is shown on contains "0". e when:

	*
Parameter	Settings
Text display for value = "1"	
Entry of a message text This when the value contains "1' The maximum text length is	; is shown on the display '. 5 64 characters.
Transmission: sdCard	
Parameter page: Channel	
The parameter is only visible	e when:
– Function = Message	
Parameter	Settings
Parameter Text display for value = "0"	Settings
Parameter Text display for value = "0" Entry of a message text This when the value contains "0' The maximum text length is	Settings is shown on the display 5 64 characters.
Parameter Text display for value = "0" Entry of a message text This when the value contains "0' The maximum text length is Transmission: sdCard	Settings is shown on the display 64 characters.
Parameter Text display for value = "0" Entry of a message text This when the value contains "0' The maximum text length is Transmission: sdCard Parameter page: Channel	Settings is shown on the display 64 characters.
Parameter Text display for value = "0" Entry of a message text This when the value contains "0' The maximum text length is Transmission: sdCard Parameter page: Channel The parameter is only visible	Settings is shown on the display 64 characters.

5.2.13 Alarm communication objects

The following communication objects refer to channels 1 – 18.

Obj.	Object name	Function	Туре	Flags
4, 10, 16,	<channel no.=""></channel>	Receive	1 bit	CW
22, 28, 34,	- Alarm input			
40, 46, 52				
58, 64, 70,				
76, 82, 88				
94, 100,				
106				
The value c	ontent of these	objects is co	mpared wit	th a
triggering c	ondition (0 or 1). An alarm	is triggered	or
deactivated	accordingly.			
This object	is only available	if:		
– Function = Alarm				
- Function	= Alarm			
– Function Obj.	= Alarm Object name	Function	Туре	Flags
– Function Obj. 2, 8, 14,	= Alarm Object name <channel no.=""></channel>	Function Send	Type 1 bit	Flags CT
– Function Obj. 2, 8, 14, 20, 26, 32,	= Alarm Object name <channel no.=""> - Alarm output</channel>	Function Send	Type 1 bit	Flags CT
 Punction Obj. 2, 8, 14, 20, 26, 32, 38, 44, 50 	= Alarm Object name <channel no.=""> - Alarm output</channel>	Function Send	Type 1 bit	Flags CT
 Punction Obj. 2, 8, 14, 20, 26, 32, 38, 44, 50 56, 62, 68, 	= Alarm Object name <channel no.=""> - Alarm output</channel>	Function Send	Type 1 bit	Flags CT
 Function Obj. 2, 8, 14, 20, 26, 32, 38, 44, 50 56, 62, 68, 74, 80, 86 	= Alarm Object name <channel no.=""> - Alarm output</channel>	Function Send	Type 1 bit	Flags CT
 Punction Obj. 2, 8, 14, 20, 26, 32, 38, 44, 50 56, 62, 68, 74, 80, 86 92, 98, 104 	= Alarm Object name <channel no.=""> - Alarm output</channel>	Function Send	Type 1 bit	Flags CT
 Function Obj. 2, 8, 14, 20, 26, 32, 38, 44, 50 56, 62, 68, 74, 80, 86 92, 98, 104 	= Alarm Object name <channel no.=""> - Alarm output</channel>	Function Send	Type 1 bit	Flags CT
- Function Obj. 2, 8, 14, 20, 26, 32, 38, 44, 50 56, 62, 68, 74, 80, 86 92, 98, 104 When an ala	= Alarm Object name <channel no.=""> - Alarm output</channel>	Function Send (fulfillment	Type 1 bit of the alarr	Flags CT n
- Function Obj. 2, 8, 14, 20, 26, 32, 38, 44, 50 56, 62, 68, 74, 80, 86 92, 98, 104 When an ala condition) t	= Alarm Object name <channel no.=""> - Alarm output arm is triggered he value of this</channel>	Function Send (fulfillment object is se	Type 1 bit of the alarr t to 1 and se	Flags CT m ent. A
- Function Obj. 2, 8, 14, 20, 26, 32, 38, 44, 50 56, 62, 68, 74, 80, 86 92, 98, 104 When an ala condition) t 0 is sent if t	= Alarm Object name <channel no.=""> - Alarm output arm is triggered he value of this he alarm is deac</channel>	Function Send (fulfillment object is se tivated. No	Type 1 bit of the alarr t to 1 and se action occu	Flags CT m ent. A ırs

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This object is only available if:				
 Function 	= Alarm			-
Obj.	Object name	Function	Туре	Flags
3, 9, 15, 21, 27, 33, 39, 45, 51 57, 63, 69, 75, 81, 87 93, 99, 105	<channel no.=""> - Alarm text</channel>	Send	14 Byte DPT_ String_ASCI	СТ
lf the alarm triggered, a by this obje	condition was r configured alar ct.	net and an a m text is se	alarm was nt though tl	ne bus
This object i	is only available	if:		
- Function	= Alarm	-	-	
Obj.	Object name	Function	Туре	Flags
0, 6, 12, 18, 24, 30, 36, 42, 48 54, 60, 66, 72, 78, 84 90, 96, 102	<channel no.=""> - Alarm acknowledge ment output</channel>	Send	1 bit	CT
set to 1 or 0 by bus telec This object	and sent. If the and sent. If the grams, then no t is only available = Alarm	elegram is s	gement is r sent about t	nade his.
Obi.	Object name	Function	Type	Flags
1, 7, 13, 19, 25, 31, 37, 43, 49 55, 61, 67, 73, 79, 85 91, 97, 103	<channel no.=""> - Alarm acknowledge ment input</channel>	Receive	1 bit	CW
This object can be used to receive an alarm acknowledgement through the bus. The alarm is confirmed depending on the configured object value. This object is only available if:				
Obj.	Object name	Function	Туре	Flags
196	Acknowledge all alarms	Receive	1 bit	CW
This object can be used to receive an acknowledgement of all alarms through the bus. The value 1 is always expected for the acknowledgement. The value 0 is ignored.				

5.2.14 Message communication object

The following communication object refers to channels 1 – 18.

Obj.	Object name	Function	Туре	Flags
4, 10, 16,	<channel no.=""></channel>	Receive	1 bit	CWTU
22, 28, 34,	- Message			
40, 46, 52				
58, 64, 70,				
76, 82, 88				
94, 100,				
106				
A configure object in ac	d text and a sym cordance with th	nbol are disp ne received	played by th value. This	is
communication object sends a read request when power				
is restored. If the request of the object value fails, then a				
? is displayed as the message text (until a corresponding				
bus telegrar	n arrives).			

This object is only available if: – Function = Message

5.2.15 Screen control parameter

Parameter	Settings	
Scene number	164	
	Pre-set value: 1	
Specification of the number of scenes to be sent via the		
1-byte scene control communication object.		
The values 0 - 63 are sent via the bus.		
Transmission: sdCard		
Parameter page: Chann	el	

5.2.16 Communication objects for the retrieval and storage of scenes

Obj.	Object name	Function	Туре	Flags
0, 6, 12,	<channel no.=""></channel>	Send	1 bit	СТ
18, 24, 30,	- Retrieve scene			
36, 42, 48,				
54, 60, 66,				
72, 78, 84,				
90, 96, 102				
This object is used to send a 1-bit value for the retrieval				
of scenes.				
The value 1	is alwavs sent.			

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Obj.	Object name	Function	Туре	Flags
1, 7, 13,	<channel no.=""></channel>	Send	1 bit	СТ
19, 25, 31,	- Store scene			
37, 43, 49,				
55, 61, 67,				
73, 79, 85,				
91, 97, 103				
This object is	s used to send a '	1-bit value for	the sto	rage of
scenes.				
The value 1	is always sent.		1	
Obj.	Object name	Function	Туре	Flags
2, 8, 14,	<channel no.=""></channel>	Send:	1 Byte	CT
20, 26, 32,	-	Activate /		
38, 44, 50,	8-bit scene	store		
56, 62, 68,				
74, 80, 86,				
92, 98, 104				
A value 06	3 is sent to active	ate a scene 1.	64.	
A value 128192 is sent to store a scene 164 (scene				
number + 12	27).			

This object is used to receive a 1-bit command for the activation (1) or deactivation (0) of the internal time program for single channels. All channel switching programs become inactive when this is deactivated. The received value is persistently stored in memory and

The received value is persistently stored in memory and is thus available when power is restored.

5.3 Time programs

5.3.1 Communication objects for time programs

Obj.	Object name	Function	Туре	Flags
187	Time program, single channels	Receive: Activate	1 bit	CRWU

GAMMA instabus

Application program description

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