Product Manual

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ABB i-bus[®] EIB

Display and Control Tableau, LCD MT701

Intelligent Building Systems



ABB STOTZ-KONTAKT

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1 Description

The Display and Control Tableau MT701 is an ABB i-bus[®] EIB-device consisting of a LCD-Display and control buttons for:

- displaying switching status, fault reports and measurement values,
- central switching of electrical consumers,
- programming of light scenes and time programs and
- generating acoustic and visual alarm signals.

Additional to the display and control tableau, a separate flush-mounting housing is delivered. The flush-mounting housing is designed to install the MT701 in walls or partitioned walls. Connection to ABB i-bus[®] EIB is made via the bus connection terminal. The device requires an additional 230 V AC – power supply.

The display and control tableau is programmed with the **EibTab**-Software, using the same group addresses as allocated in the ABB i-bus[®] EIB – installation. The programm can be loaded directly into the device using the 9 pin SUB D RS232 connector.

The LCD display has a resolution of 240x128 pixels and up to 8 lines can be displayed on each display page. To change between the max. 50 display pages, links can be defined individually from one page to another.

The display and control tableau can manage up to 24 light scenes. For all of the 24 light scenes, a maximum of 32 group addresses can be used.

For up to 8 switching actions, time programs can be individually defined. Each time program can include up to 8 different switching times which can be easily adjusted by the user.

The display and control tableau can also display various measurement values and generate pup up alarm messages. The user can be made aware of an alarm via an acoustic alarm signal. The last 100 events are stored in a list of alarms, reports and resets.

The basic programming of the Display and Control Tableau MT701 is described on the following pages using always the one same example. At the end of each chapter, you can find tips and tricks for advanced programming.

We are very sorry that there is no English version of the EibTab software for your use. At the moment, we are working to set up the English version; it will take us a few months however. In the meantime, be so kind as to use the German version with the following explanations. Thank you.

2 Technical Data

Connection power supply	230 V AC, 50 Hz 4 screw terminals (2 for phase and 2 for neutral)
Connection ABB i-bus [®] EIB	bus connection terminal
PC-connection	9-pin SUB D RS232 connector
LED red and button	for entering the physical address
1 push button illumination	illumination of LCD display On/Off
2 menu push buttons	for moving up/down in the menu
4 function push buttons	for moving between menus or switching electrical consumers
Protection	IP 20 to EN 60 529
Operating temperature range	-5°C up to +45°C
Dimensions flush mounting box	212 x 124 x 75 mm (w x h x d)
Dimensions LCD display	124 x 68 mm (w x h)
Dimensions frame	215 x 129 mm (w x h)

Selection table

Description	Ordering Info Short code	Product code	bbn 4016779 EAN	Price group	Weight 1 PC. [kg]	Package [Pcs.]
Diplay and control tableau, LCD, white	MT 701, WS	GH Q605 0059 R0003	50414 0	26	0,86	1
Display and control tableau, LCD, silver	MT 701, SR	GH Q605 0059 R0004	50415 7	26	0,86	1
Frame for display and control tableau, white	T-RAHM, WS	GH Q605 0059 R0011	49585 1	26	0,05	1
Frame for display and control tableau, silver	T-RAHM, SR	GH Q605 0059 R0012	49586 8	26	0,05	1
Flush mounting box for display and control tableau	UP-KAST 2	GH Q605 0059 R0014	51396 8	26	0,15	1

3 Installation

System requirement for the programming software EibTab

- IBM[®]-compatible PC with processor 80386 or higher
- min. 10MB free memory on hard disk
- min. 8MB RAM
- VGA-Grafic
- RS232 Connector
- WINDOWS[™] V3.1 or higher
- MS-DOS[®] or higher

Steps for installation of the EibTab

- 1. Please execute the file INSTALL.EXE in the Program Manager/Windows Explorer.
- 2. Enter the source directory in the field "Quelle".
- 3. Enter the installation directory in the field "Ziel".
- 4. Klick the button "Installieren".
- 5. Start the file Eibtab18.exe.

Connection Diagram for the display and control tableau MT701

Panel rear side	NØ	
	LØH	P
	-	4
		Ŧ
		24

4 How to program a project

4.1 Starting a new project

To start a new project, open the EibTab software and chose the menu **Datei** in the head menu line. Klick on **Neu/LCD MT701** to start the project. The screen shows the Main Window of the new project (Illustration 1).



Illustration 1: Main Window

In the same menu **Datei**, projects can be opened (**Öffnen...**), saved (**Speichern/Speichern unter...**), closed (**Schließen**) and deleted (**Löschen...**). Group addresses and functions of other EibTab projects can be imported (**Import**) (see Chapter 6.1). Close the EibTab software with **Beenden**.

4.2 Building the menu structure

50 different display-screens can be installed. There can be individually programmed links between these 50 display-screens. In every project, there is are automatically four fix display-screens: the system page, the light scene page, the threshold page and the time program page.

As an example, the four display pages Main Menu (Illustration 2), Living Room, Kitchen and Sleeping Room will be built up step by step. You will see how easy it is to define links between these four display pages.



Illustration 2: Display page Main Menu

4.2.1 Inserting a display page

For each display page, a small box is shown in the Main Window (Illustration 1). This small box does not give any additional information than the number of the display page and it shows if the display page is connected with a function (see Chapter 4.3.3: Tips and Tricks no. 4).

Klick on a free small box and chose the command **Einfügen/Ändern** from the menu **Fenster** in the head menu line. The dialog box **Fenster Zuweisung** appears on the screen (Illustration 3). Confirm with the **OK** button. Repeat this for three more display pages.

Fenster-Nr: 1	Fenster-Nr: 1

Illustration 3: Dialog box Fenster Zuweisung

Now assign a headline to each display page. Herefore, mark a small box and chose the command **konfigurieren...** from the menu **Fenster** in the head menu line. The dialog box **Konfiguration** appears (Illustration 4). Enter the headline in the first field (**Seiten-Überschrift:**) and confirm with the **OK** button.

Repeat those steps to enter the headlines for the four display pages Main menu, Living Room, Kitchen and Sleeping Room.

Konfiguration: MT701-Fe	enster (Nr: 01)	x
Seiten-Überschrift:		
Main Menu		
Kenn w ortebene: 0	Anzeige: Zeile-01	ändern
Datei für Hintergru	nd-Bitmap:	
<u>s</u> uchen	<u>n</u> eu	<u>b</u> earbeiten
V	OK XAbbruch 🤶 Hilf	e

Illustration 4: Dialog box Konfiguration

4.2.2 Configuration of display lines

Now assign a text (Living Room) and a function (change to the display page Living Room) to the first display line of the Main menu (Illustration 2). Klick on the small box no. 1 and chose the command **Zuweisung...** in the head menu line. The dialog box **Zuweisung** appears on your PC screen (Illustration 5).

Zuweisung			×
Fenster			
Fenster-Typ:	Auswahl:	Fenster-Nr: 01	
MT701: Fenster	Flement	Zeile-1-Anzeige	
	Liement.		
		<u>k</u> onfigurieren	
Goräte /Funktionen			
		<u>zurugen</u>	
		<u>e</u> ntfernen	
Einstellungen/Funktion			V OK
			🎸 Hilfe

Illustration 5: Dialog box Zuweisung

Chose the Element **Zeile-1-Anzeige** (Line-1-display) and klick on the button **konfigurieren**. The dialog box **Konfiguration: Zeile 1** appears (Illustration 6). Enter the text "Living Room" in the

field **Zeilentext:** and the text "OK" in the field **Zeile-1/Taste-1** (line-1/button-1) and confirm with the **OK** button. Ignore all other parameters right now.

7.1	
Zellentext:	eile:
Living Room X: 4 Y: 3	nächste
wird im MT701 verwendet	vorber
Anzeine:	
Abb./1:Ein T Einh./0: Aus T X: 30 Y: 3	nformationen:
	ablegen
Offset: U.UUUUUUe+UU Verstärkung: 1.UUUUUUe+UU 🖉 änderbar	holen
Tasten-Beschriftungen:	_
Taste-1 Taste-2 Taste-3 Taste-4	
Zeile-1: OK	
Zeile-2:	
V OK XAbbruch	了 Hilfe

Illustration 6: Dialog box Konfiguration: Zeile 1

Now you have to decide what shall happen when the user of the tableau pushs the button no. 1 when the cursor is positioned in the first line. In this example, there must be a change from the display page **Main Menu** to the display page **Living Room**. Chose the element **Zeile-1-Taste-1** (line-1-button-1) in the dialog box Zuweisung (Illustration 5) and klick on the button **zufügen** (add). The dialog box **Geräte/Funktionen Auswahl** (Selection of functions) appears (Illustration 7). Chose the function **Sprung zur Nr** (change to display page no.) and confirm with the **OK** button.

ändern Sprung zur Nr	Klionen	V 0
zur Grenzw.Seite zur Schaltuhr zur Systemseite		XAbbru
		2 Hilf

Illustration 7: Dialog box Geräte/Funktionen Auswahl

Enter the number of the destination display page in the dialog box **Zuweisung** (Illustration 8) and confirm with the **OK** button. Now save the project and download it to the MT701 device to test this first function (see Chapter 4.6).

Zuweisung		×
Fenster Fenster-Typ: MT701: Fenster	Auswahl: Fenster-Nr: 01 Element: Zeile-1-Taste-1 <u>k</u> onfigurieren	
Geräte/Funktionen Sprung zur Nr	<u>z</u> ufügen <u>e</u> ntfernen	
Einstellungen/Funktion	Ziel-Fenster 2 (0150)	V OK

Illustration 8: Dialog box Zuweisung

After the download, the display page Main Menu appear on the MT701 display (Illustration 9). Push the bottons no. 2, 3 and 4 – nothing will happen. No functions have been assigned. Only the button no. 1 has a function: the change to the display page Living Room (Illustration 10).



Illustration 9: Display page Main Menu



Illustration 10: Display page Living Room

Now enter texts (Kitchen, Sleeping Room) and functions (change to other display pages) to the buttons no. 1 of the 2nd and 3rd line of the Main Menu (Illustration 9). Therefore repeat the same steps as to assign the change to the display page Living Room.

In this manner, you can individually define changes between display pages. Now finish the menu structure of the example project by assigning changes back to the Main Menu from the display pages Living Room, Kitchen and Sleeping Room.

If you chose one of the options **zur Grenzw.Seite**, **zur Schaltuhr** or **zur Systemseite** instead of chosing **Sprung zur Nr** in Illustration 7, a link to the 3 pre-defined display pages can be defined. The functions of these 3 pages will be explained later.

Tips and Tricks:

If you have one or more empty lines in one display page, you have the possibility of deactivating these lines. Deactivated the user can't put the cursor in those lines and can't execute any functions. Deactivate the lines no. 4 to 8 of the Main Menu. (Don't forget to reactivate them if needed in the further course of the described example.)

For deactivation of a line, delete the hoke (\checkmark) of the option wird im MT701 verwendet in the dialog box Konfiguration: Zeile (Illustration 6) with a klick.

4.3 Switching electrical consumer and display the switching status

On the display page Auf der Display-Anzeige **Living Room** (Illustration 10), the switching status of the ceiling light and the wall light is to be displayed. The two consumers have to be switched with the Display and Control tableau MT701.

4.3.1 Entering of the group addresses

Chose the command **Gruppen...** (groups) in the head menu line. The dialog box **Gruppen im Projekt** appears (Illustration 11). Enter the two group addresses for the switching of the ceiling light and the wall light. Overtake the group addresses from your ETS project.

Enter the fields **Haupt:**, **Mitte:**, **Unter:** (Maingroup, Middlegroup, Subgroup) and **Benennung** (name of the group), chose the information type **Informationstyp: 1 Bit Schalten/Jalousie (0,1)** (1 Bit switch/shutter (0,1)) and confirm the entries with the button **anlegen**. The new group address will now be listed in the field **verfügbare Gruppen** (existing group addresses).

If you want to change a group address, highlight it in the field **verfügbare Gruppen**, change the fields and confirm with the button **übernehmen**. To delete a group address, highlight it and push the button **löschen**. Confirm with the **OK** button.

Gruppen im Projekt	×
verfügbare Gruppen 00/0/001*schalten Ceiling light On/Off 00/0/002*schalten Wall light On/Off	Gruppe bearbeiten Haupt: 0 Mitte: 0 Unter: 2 Benennung: Wall light On/Off Informationstyp: 1 Bit Schalten/Jalousie (0,1) ▼ Status abfragen
löschen	anlegen ubernehmen V OK XAbbruch Y

Illustration 11: Dialog box Gruppen im Projekt

4.3.2 Entering of virtual switches

To execute switching actions or to show the switching status, virtual switche must be entered first. Chose the command **Geräte/Funkt...** (virtual devices/functions) in the head menu line. The dialog box **Geräte/Funk-tionen im Projekt** appears (Illustration 12).

Geräte/Funktionen im Projekt	X
Typ: virtuell]
ändern Sprung zur Nr zur Grenzw.Seite zur Schaltuhr zur Systemseite	
<u>anlegen</u> änd <u>e</u> rn <u>l</u> öschen	? Hilfe

Illustration 12: Dialog box Geräte/Funktionen im Projekt

The already existing virtual devices/functions are pre-defined. You already know for of them: **Sprung zur Nr**, **zur Grenzw.Seite**, **zur Schaltuhr** and **zur Systemseite** (see Chapter 4.2). Push the button **anlegen** (enter a new virtual device). The dialog box **Geräte/Funktionen anlegen** appears (Illustration 13). Chose the type **Schalter** (switch), enter a name and confirm with the **OK** button. The dialog box **Definition: Schalter** appears (Illustration 14).

Тур:	Schalter
	[
Name:	Ceiling Light

Illustration 13: Dialog box Geräte/Funktionen anlegen

Name: Ceiling ligh	ht	
Gruppenadressen: S	ichalter-Objekt	
Sendepriorität:	Senden	zufügen
Sendepriorität: Niedrig	I Senden I Empfangen I Lesen (L-Flag)	zufügen entfermen

Illustration 14: Dialog box Definition: Schalter

Push the button **zufügen** to select all group addresses that are switched with the switch Ceiling light. The dialog box **Gruppen Auswahl** (Selection table) appears (Illustration 15). Chose the group **Ceiling light On/Off** and confirm with the **OK** button. (More than one group can be assigned to each virtual device as long as the information type is the same.)

The group addresses is now listed in the dialog box **Definition: Schalter** (Illustration 16). You can now set the Send flag (Senden), the Receive flag (Empfangen) and/or the Read flag (Lesen (L-Flag)) and chose the priority (Niedrig=low, Hoch=high, Alarm=alarm, System=system). Confirm with the OK button and enter the virtual switch for the Wall light in the same manner.

00/0/002	schalten schalten	Vall light On/Off	V O
1 ausgewählt	<u>A</u> u:	swahl aufheben	2 Hill

Illustration 15: Dialog box Gruppen Auswahl

Name:	Ceiling light		
Gruppe	nadressen: Scha	alter-Objekt	
00/0/00)1 SE schalten	Ceiling light On/Off	
Send	epriorität:		zufügen
Send Nied	epriorität: rig 💌	IV Senden IV Empfangen	zufügen
Send Nied Syste	epriorität: rig v	I✓ Senden I✓ Empfangen I─ Lesen (L-Flag)	zufügen entfernen

Illustration 16: Dialog box Definition: Schalter

4.3.3 Assigning virtual switches to tableau buttons

To activate the virtual switch, it must be assigned to one of the push buttons of the Display and Control Tableau MT701.Highlight the small box no. 2 (display page Living Room) in the main window (Illustration 1) and chose the command **Zuweisung...** in the head menu line. The dialog box **Zuweisung** appears (Illustration 17). Chose the element **Zeile-1-Anzeige** (line-1-display) and change to the dialog box **Konfiguration: Zeile-1** (Illustration 18) by klicking on the button **konfigurieren**.

Zuweisung				\times
Fenster				
Fenster-Typ:	Auswahl:	Fenster-Nr: 02	<u>-</u>	
	Element:	Zeile-1-Anzeige Zeile-1-Anzeige Zeile-1-Taste-1 Zeile-1-Taste-2		
Geräte/Funktionen		Zeile-1-Taste-3 Zeile-1-Taste-4 Zeile-2-Anzeige Zeile-2-Taste-1 Zeile-2-Taste-2 Zeile-2-Taste-3 Zeile-2-Taste-4 Zeile-3-Anzeige Zeile-3-Taste-1 Zeile-3-Taste-2		
Einstellungen/Funktion		Zeile-3-Taste-3 Zeile-3-Taste-4 Zeile-4-Anzeige Zeile-4-Taste-1 Zeile-4-Taste-2		V OK

Illustration 17: Dialog box Zuweisung

Configuration: MT701-Fenster (Nr: 02) Zeile-1	×
Zeilentext:	Zeile:
Ceiling light X: 4 Y: 3	nächste
✓ wird im MT701 verwendet	vorher
Anzeige: Abb./1:On ▼ Einh./0: Off Offset: 0.000000e+00 Verstärkung: 1.000000e+00 ✓ änderbar	Informationen: ablegen holen
Tasten-Beschriftungen:	
Taste-1Taste-2Taste-3Taste-4Zeile-1:OnOffMainZeile-2:Menu	
OK KAbbruch	? Hilfe

Illustration 18: Dialog box Konfiguration: Zeile-1

Enter a text for the first line (**Zeilentext:**) and for the buttons no. 1 and 2. Enter the text "On" in the field **Abb./1**: and the text "Off" in the field **Einh./0**: to display the switching status of the ceiling light. Confirm with the **OK** button to return to the dialog box **Zuweisung** (Illustration 17) and open the dialog box **Auswahl** (Illustration 19) with the button **zufügen** (add).



Illustration 19: Geräte/Funktionen Auswahl

Now chose the virtual device the switching status of which is to be displayed in line 1 (Ceiling light) and confirm with the **OK** button. The virtual device Ceiling light is now listed in the dialog box **Zuweisung** (Illustration 20).

Zuweisung	X
Fenster	
Fenster-Typ: Auswahl: Fenster-N MT701: Fenster Element: Zeile-1-Ar kon Kon	Ir: 02 🔽 nzeige 🔽 🔽 figurieren
Geräte/Funktionen Ceiling light	zufügen
Einstellungen/Funktion	<u>entreinen</u> OK ? Hilfe

Illustration 20: Dialog box Zuweisung

Now chose the element **Zeile-1-Taste-1** (Line-1-button-1) and push the button **zufügen**. Again the dialog box **Geräte/Funktionen Auswahl** appears (Illustration 19). This time, chose the virtual device that is switched with the button no. 1 when the cursor is positioned in the line no.1 (Ceiling light) and confirm with the **OK** button. The virtual device Ceiling light is now listed in the dialog box **Zuweisung** (Illustration 21).

Now adjust the parameters in the downer fields of the dialog box. The action on pushing the button no.1 is that the Ceiling light is switched on. Therefore chose the entry EIN in the field **drücken/aktivieren**. The is no action on letting the button go of (**loslassen/deaktivieren**), therefore chose the option **keine Funktion** (no function). (The other choices are AUS=Off and UM=change the switching status).

Zuweisung			×
Fenster			
Fenster-Typ:	Auswahl:	Fenster-Nr: 02	
MT701: Fenster	Element:	Zeile-1-Taste-1	
		<u>k</u> onfigurieren	
Geräte/Funktionen			
Ceiling light		<u>z</u> ufügen <u>e</u> ntfernen	
Einstellungen/Funktion		,[🖌 ок
drücken/aktivieren	loslassen/dea	aktivieren	للستا

Illustration 21: Dialog box Zuweisung

Now chose the element **Zeile-1-Taste-2** (line-1-button-2) and assign the virtual device Ceiling light and chose the option **AUS** for the parameter **drücken/aktivieren** and **keine Funktion** for **loslassen/deaktivieren**.

Repeat those assignments for line no. 2 with the virtual switch Wall light. If not already done, don't forget to assign a link to the Main Menu on button no. 4 of line 1 and button no. 4 of line 2 (see Chapter 4.2). Close the dialog box **Zuweisung** with the **OK** button, save the project and download it in the Display and Control Tableau MT701. The display page **Living Room** looks like in Illustration 22.



Illustration 22: Display page Living Room

With the buttons no. 1 and 2, the Ceiling light and the Wall light now can be switched. The switching status will be displayed when the Display and Control Tableau MT701 receives a acknowledge telegram from the actor.

Tips and Tricks:

- If you want to use about the same configuration for different lines of a display page, then copy the configuration of one line by klicking on the button **ablegen** in the dialog box **Konfigurieren: Zeile X** (Illustration 18). Change to the next line (button **nächste**) or to the previous line (button **vorher**) and insert the copied entries klicking on the button **holen**.
- If you want to change the position of the text of a line (Zeilentext:) or the position of the switching status (Anzeige:), use the values X: and Y: in the dialog box Konfiguration: Zeile (Illustration 18) to adjust your individual position. (It is highly recommended, not to chose a X-value lower than 2 for the position of the line text, otherwise the cursor can't be seen).
- 3. Chose the command **Anzeige** in the menu **Optionen** in the head menu line of the main window. The dialog box **Anzeige-Einstellungen** appears (Illustration 23). You can chose whether the group address is displayed in two-digit "0/0" or three-digit "0/0/0" mode.
- In the same dialog box, you can chose the option Markierung bei vorhandenen Zuweisungen. Is this option activated all small boxes in the main window are given a green hoke (✓) if any assignment is made for the small box.

 Anzeige im Format "0/0" Anzeige im Format "0/0/0"
♦ Anzeige im Format "0/0/0"
- -
Zuweisungen
Markierung bei vorhanden Zuweisungen

Illustration 23: Dialog box Anzeige-Einstellungen

4.4 Moving shutters

A shutter is to be moved on the display page Living Room (Illustration 22) and the lamellas are to be adjusted.

4.4.1 Entering of the group addresses

Chose the command **Gruppen...** in the head menu line. The dialog box **Gruppen im Projekt** appears (Illustration 24). Enter the two group addresses to move the shutter and to adjust the lamellas. Overtake the group addresses of your ETS project. Repeat the steps of Chapter 4.3.1, chose the information type **Informationstyp: 1 Bit Schalten/Jalousie (0,1)**.

Gr	uppen im Projekt		×
	verfügbare Gruppen 00/0/001* schalten 00/0/002* schalten 00/0/003* schalten 00/0/004* schalten	Ceiling light On/Off Wall light On/Off Shutter Up/Down Stop/Lamella	Gruppe bearbeiten Haupt: 0 Mitte: 0 Unter: 5 Benennung: Stop/Lamella Informationstyp: 1 Bit Schalten/Jalousie (0,1) ✓ Status abfragen anlegen übernehmen
	löschen		OK KAbbruch Pilfe

Illustration 24: Dialog box Gruppen im Projekt

4.4.2 Entering of virtual shutter switch

Repeat the step of Chapter 4.3.2. Chose a virtual device of the type **Typ: Jalousie (2 Objekte)** (Illustration 25). After confirmation with the **OK** button, the dialog box **Definition: Jalousie** appears (Illustration 26).

): Jalou	ısie (2 Objek	te)		•
: Shutt	er Living R			
🖊 ок	XAbbr	uch	🦹 Hilfe	1
	o: Jalou e: Shutt	o: Jalousie (2 Objek e: Shutter Living R V OK	o: Jalousie (2 Objekte) e: Shutter Living R OK	o: Jalousie (2 Objekte) e: Shutter Living R OK

Illustration 25: Dialog- Box Geräte/Funktionen anlegen

lame:	Shut	ter Living R			
irupper	adress	sen: Step-Ol	bjekt (Lamelle/Kurzze	itbetrieb)	
0/0/00	3 SE	schalten	Shutter Up/Down		
		. н. с			
rupper	adress	sen: Move-O	lbjekt (Auf-Ab/Langzo	itbetrieb)	
rupper 0//0/00	adress 4 SE	sen: Move-O schalten	lbjekt (Auf-Ab/Langzo Stop/Lamella	itbetrieb)	
àrupper 10/0/00	adress 4 SE	sen: Move-O schalten	lbjekt (Auf-Ab/Langzo Stop/Lamella	itbetrieb)	
arupper 10/0/00 Sende	adress 4 SE	sen: Move-O schalten ät:	Ibjekt (Auf-Ab/Langzo Stop/Lamella	eitbetrieb)	zufügen
irupper 0/0/00 Sende	adress 4 SE optionit	sen: Move-O schalten ät:	Ibjekt (Auf-Ab/Langzo Stop/Lamella	eitbetrieb)	zufügen

Illustration 26: Dialog box Definition: Jalousie

Assign the corresponding group addresses klicking on the button **zufügen** and confirm with the **OK** button.

4.4.3 Assigning virtual shutter switches to tableau buttons

Repeat the steps of Chapter 4.3.3. Chose the element **Zeile-3-Anzeige** (line-3-display) and klick on the button **konfigurieren** to enter the configuration (Illustration 27). It is highly recommended no to display the switching status of shutters. Leave the configuration **Anzeige:** (display) like it is, but do not assign a virtual device to the element **Zeile-3-Anzeige**. Chose the element **Zeile-3-Taste-1** (line-3-button-1) and assign (zufügen) the virtual shutter switch shutter Living R (Parameter: **Jalousie: hoch**=shutter up) (Illustration 28) and assign the same virtual device shutter Living R to the element **Zeile-3-Taste-2** (Parameter: **Jalousie: runter**=shutter down).

Zeilentext:					Zeile:
Shutter			X:	4 Y: 5	nächste
🖉 wird im MT70	1 verwendet				
					vorher
Anzeige:					Informationer
Abb./1: Ein	▼ Ei	inh./0: Aus	▼ X:	30 Y: 5	
a.u		1 0000	PO 00		ablegen
litteat II IIIIIIIIII					
Unset. 0.000000	verstal	rkung: 1.0000	UUe+UU	🖌 änderbar	holen
Unset. 0.0000000	erstal	rkung: 1.0000	uue+uu	🗹 änderbar	holen
Fasten-Beschriftu	ngen:	rkung: 1.0000	JUE+UU	✓ änderbar	holen
Fasten-Beschriftu	ngen: Taste-1	Taste-2	Taste-3	 ✓ änderbar Taste-4 	holen
Tasten-Beschriftu Zeile-1:	ngen: Taste-1 Up	Taste-2	Taste-3	 ✓ änderbar Taste-4 Main 	holen
Tasten-Beschriftu Zeile-1: Zeile-2:	ngen: Taste-1 Up	Taste-2	Taste-3	✓ änderbar Taste-4 Main Menu	holen
Tasten-Beschriftun Zeile-1: Zeile-2:	ngen: Taste-1 Up	Taste-2	Taste-3	 ✓ änderbar Taste-4 Main Menu 	holen

Illustration 27: Dialog box Konfiguration: Zeile 3

Zuweisung			X
Fenster			
Fenster-Typ:	Auswahl:	Fenster-Nr: 02	
MT701: Fenster	Element:	Zeile-3-Taste-1	
		<u>k</u> onfigurieren	
Geräte/Funktionen			
Shutter Living R		zufügen <u>e</u> ntfernen	
Einstellungen/Funktion			🖌 ок
Jalousie: hoch			
C Jalousie: runter			? Hilfe

Illustration 28: Dialog box Zuweisung

Close the dialog box **Zuweisung** with the **OK** button, save your project and download it to the Display and Control Tableau MT701. The display page Living room looks like in Illustration 29.

Living Room	
Ceiling light Wall light ==>Shutter	Off Off
Up Down) Main Menu

Illustration 29: Display page Living Room

With the buttons no. 1 and 2, the shutter is moved with a long push and movement stop as well as lamella adjustment is done with a short push.

Tips and Tricks:

The time threshold between a short and a long push are set in the dialog box **Zeitabstände** (head menu line in the main window: menu **Prog.**/command **Zeiten...**). The threshold can be adjusted seperatly for dimmers (**Dimmer**) and shutters (**Jalousie**) (Illustration 30). The minimum theshold is 0.1 seconds, the maximum threshold is 25.5 seconds for both thresholds.

2eita	bstände
	Dimmer
	Zeit zwischen Schalten und Dimmen: 0.5 sec
•	lalousie
	Zeit zwischen Kurzzeitbetrieb und Langzeitbetrieb: 0.5 sec
	Wertebereich: minimal: 0.1 normal: 0.5 maximal: 25.5
	K Abbruch I Hilfe

Illustration 30: Dialog box Zeitabstände

4.5 Dimming lights

A group of lights in the living room is to be switched and dimmed on the display page Living Room (Illustration 29).

4.5.1 Entering of the group addresses

Repeat the steps of Chapter 4.3.1. Enter the group addresses for switching On/Off (**Informationstyp: 1 Bit Schalten/Jalousie (0,1)**), for dimming lighter/darker (**Informationstyp: 4 Bit Dimmen**) and for sending a brightness value (**Informationstyp: 1 Byte Wert (0...255)**) (Illustration 31).

verfügbare Gruppen	Gruppe bearbeiten
00/0/001* schalten Ceiling light On/Off 00/0/002* schalten Wall light On/Off 00/0/003* schalten Shutter Up/Down 00/0/004* schalten Stop/Lamella 00/0/005* schalten Light group On/Off 00/0/006* dimmen Light group Lighter/Dark 00/0/007* 1Byte(+) Light group brightness va	Haupt: 0 Mitte: 0 Unter: 7 Benennung: Informationstyp: 1 Bit Schalten/Jalousie (0,1) ▼ ✓ Status abfragen anlegen übernehmen
löschen	V OK XAbbruch ? Hilfe

Illustration 31: Dialog box Gruppen im Projekt

4.5.2 Entering of a virtual dimmer switch

Repeat the steps of Chapter 4.3.2. Chose the virtual device of the type **Dimmer (3 Objekte)** (Illustration 32). After confirmation with the **OK** button, the dialog box **Definition: Dimmer** appears (Illustration 33). Assign the corresponding group addresses with the button **zufügen** and confirm with the button **OK**.

Тур:	Dimme	r (3 Objekte)	•
Name:	Light g	roup	
		••	

Illustration 32: Dialog box Geräte/Funktionen anlegen

Definition: Dimmer		X
Name: Light group		
Gruppenadressen: <u>S</u> chalto	bjekt	
00/0/005 SE schalten	Light group On/Off	
Gruppenadressen: <u>D</u> immot	ojekt	
00/0/006 SE dimmen	Light group Lighter/Dark	er
Gruppenadressen: <u>W</u> ertob 00/0/007 SEL 1Byte(+)	jekt Light group brightness va	alue
Sendegniorität: Niedrig	🗖 Lesen (L-Flag)	zufügen entfernen
	🖌 ок	? Hilfe

Illustration 33: Dialog box Definition: Dimmer

4.5.3 Assigning virtual dimm switch to tableau buttons

Repeat the steps of Chapter 4.3.3. Chose the element **Zeile-4-Anzeige** (line-4-display) and change to the dialog box **Konfiguration: Zeile 4** (Illustration 34). Enter the configuration and confirm with the **OK** button. Assign the virtual device light group to:

- Zeile-4-Anzeige (line-4-display),

- Zeile-4-Taste-1 (line-4-button-1) (parameter: Schalten Ein/Dimmen heller=On/Brighter),

- Zeile-4-Taste-2 (line-4-button-2) (parameter: Schalten Aus/Dimmen dunkler=Off/darker) und

- Zeile-4-Taste-3 (line-4-button-3) (parameter: Dimmen: Wert zuweisen=send brightness value).

Enter a brightness value (Dimmwert) from 0 up to 255 that is sent when this button is pushed (Illustration 35).

Zeilentext: Light group 🗹 wird im MT701	verwendet		X:		Zeile:
Light group	verwendet		X:		
🗹 wird im MT701	verwendet			4 Y: 6	nächste
	Tormondot				
					vorher
Inzeige:					 Informationen
\bb./1: <mark>On</mark>	Ei	nh./0: 0ff	▼ X:	30 Y: 6	ablegen
Offset: 0.000000e+	00 Verstä	rkung: 1.0000	00e+00		
				✓ anderbar	holen
asten-Beschriftung	gen:				
	Taste-1	Taste-2	Taste-3	Taste-4	
Zeile-1:	On	Off	20%	Main	
Zeile-2:	Brighter	Darker	brightn.	Menu	
M OK	(2 136

Illustration 34: Dialog box Konfiguration: Zeile 4

ıweisung			>
Fenster Fenster-Typ: MT701: Fenster	Auswahl: Element:	Fenster-Nr: 02	
	Liomont	<u>k</u> onfigurieren	
Geräte/Funktionen			
		<u>z</u> ufügen <u>e</u> ntfernen	
Einstellungen/Funktion			🖌 ок
C Schalten Ein/Dimmen heller C Schalten Aus/Dimmen dunkle	ır	Dimmwert 50	
Oimmen: Wert zuweisen		(0255)	Hilfe

Illustration 35: Dialog box Zuweisung

Confirm the assignments with the **OK** button, save the project and download it to the Display and Control Tableau MT701. The display page **Living Room** looks like in Illustration 36.

Living Roc	om
Ceiling light Wall light	Off Off
==>Light group	Off
On Off Off Drighter	0% ghtn. Main Menu

Illustration 36: Display page Living Room

Tips and Tricks:

The time threshold between a short and a long push are set in the dialog box **Zeitabstände** (head menu line in the main window: menu **Prog.**/command **Zeiten...**). The threshold can be adjusted seperatly for dimmers (**Dimmer**) and shutters (**Jalousie**) (Illustration 37). The minimum theshold is 0.1 seconds, the maximum threshold is 25.5 seconds for both thresholds.

Zeitabstände	X
Zeit zwischen Schalten und Dimmen: U.5 sec	
Jalousie	
Zeit zwischen Kurzzeitbetrieb und Langzeitbetrieb: 0.5 sec	
Wertebereich: minimal: 0.1 normal: 0.5 maximal: 25.5	
CK XAbbruch ? Hilfe	



4.6 Downloading a project to the Display and Control Tableau MT701

Connect your PC to the Display and Control Tableau MT701 via the RS232 connector (see connection diagram in Chapter 2).

Chose the command **Schnittstelle...** of the menu **Optionen** in the head menu line of the main window. The dialog box **Optionen** appears (Illustration 38). Chose the correct output port and confirm with the **OK** button.



Illustration 38: Dialog box Optionen

Chose the command **Start...** of the menu **Prog.** in the head menu line. The dialog box **Programmierung Steuerelektronik (Down Load)** appears (Illustration 39). Klick on **Start** to start the data transmission to the Display and Control Tableau MT701. After the download, klick on the button **Fertig** to close the dialog box.

nfo		- 15727
Module:	EIB-Gruppen:	
Eingänge:	Ausgänge:	L 1.8.
Taster:	LED:	
	7-Segment:	Ver 1.81
teuerelektronik		
Version:	Ver 1.06	<u>S</u> tart
EEProm:	0x00100xDFFF	
RAM:	0xE0100xFFFF	<u> </u>
tatus		Abbruch
cattus c	tartarlaubnia 2	

Illustration 39: Dialog box Programmierung Steuerelektronik (Down Load)

Note:

If a fault message like shown in Illustration 40 appears, it could be that:

- the Display and Control Tableau is not connected to the power supply,
- the wrong output port is chosen or
- the RS232 connector is not fixed correctly.



Illustration 40: Fault message during project download

A change of configuration that is made in the Display and Control Tableau itself (e.g. the name of a light scene) can't be overwritten by downloading the project. If you change the name of a light scene in the MT701 and than download the project without this change, the MT701 will preserve the change made in it. You can only change it in the MT701 itself.

If you have already had loaded a project with time programs into the MT701, on every INIT (i.e. Download of a project or after a breakdown of the power supply or after a breakdown of the bus voltage) the Display and Control Tableau MT701 automatically checks the current time and compares it to the times of the time programs. It then executes the last switching action for each time program.

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With every download, the alarm list will be deleted.

Tips and Tricks

With every INIT, the communication object value of all group addresses used in the EibTab project will be read over the bus in order to display the correct switching staus. This can cause unintentional switching actions in the EIB installation, shutter actors will shortly move (ca 0,5 seconds). To suppress these unintentional actions, it is recommended (especially for jalousie actors, it is highly recommended) to deactivate the option **Status abfragen** (read status) when entering the group address (Illustration 41). The status will then be actualized when the group address is sent for the first time after an INIT.

uppen im Projekt	
verfügbare Gruppen 00/0/001* schalten Ceiling light On/Off 00/0/002* schalten Wall light On/Off 00/0/003* schalten Shutter Up/Down 00/0/004* schalten Stop/Lamella 00/0/005* schalten Light group On/Off 00/0/006* dimmen Light group Lighter/Darkt 00/0/007* 1Byte(+) Light group brightness va	Gruppe bearbeiten Haupt: 0 Mitte: 0 Unter: 3 Benennung: Shutter Up/Down Informationstyp: 1 Bit Schalten/Jalousie (0,1) Status abfragen anlegen übernehmen
löschen	OK XAbbruch ? Hilfe

Illustration 41: Gruppen im Projekt

It is also highly recommended to deactivate the **Status abfragen** option for group addresses that cause an entry in the alarm list. If not deactivated, on every INIT there will be one entry for each group address in the alarm list.

5 Additional functions

5.1 Light scenes

A light scene has to be switched with a button on the display page Living Room (Illustration 36).

5.1.1 Entering of a virtual light scene

Repeat the steps of Chapter 4.3.2. Chose a virtual device of the type **Lichtszene** (Illustration 42). After the confirmation with the **OK** button, the dialog box **Definition: MT701-Lichtszene** appears (Illustration 43). Enter the name of the light scene and klick on the grey field **Gruppenadressen: Lichtszene**. Assign the corresponding group addresses with the button **zufügen** and confirm with the **OK** button. All assigned group addresses must have the same information type.

-			
Týp:	Lichtsz	ene	-
Name:	Light se	cene TV	
			_

Illustration 42: Dialog box Geräte/Funktionen anlegen

	JT-LICHISZENE	-		
Lichtszer	en-Name:	r 		Nr: I
Gruppenadro	essen: Lichtsz	ene		
00/0/001	schalten	Ceiling light On	/Off	
00/0/002	schalten	Wall light On/O	ff	
Nebe	setelle:			
Nebe	nstelle:			
Nebe	nstelle:	[zufügen	entfernen
Nebe	nstelle:	[zufügen	entfernen
Nebe	nstelle:	[zufügen	entfernen

Illustration 43: Dialog box Definition: MT701-Lichtszene

5.1.2 Assigning links to the light scene page to tableau buttons

Repeat the steps of Chapter 4.3.3. Chose the element **Zeile-5-Anzeige** (line-5-display) change to the dialog box **Konfiguration: Zeile-5** with the button **konfigurieren** (Illustration 44). Confirm with the **OK** button and assign the function Lichtszene to the element **Zeile-5-Taste-1** (line-5-button-1) (Illustration 43).

Konfiguration: MT701-Fenster (Nr: 02) Zeile-5	×
Zeilentext:	Zeile:
Light scene TV X: 4 Y: 7	nächste
wird im MT701 verwendet	vorher
Anzeige:	Informationen:
Abb./1:Ein TEinh./0:Aus X: 30 Y: 7	ablegen
Offset:0.000000e+00 Verstärkung: 1.000000e+00 Z änderbar	holen
Tasten-Beschriftungen: Taste-1 Taste-2 Taste-3 Taste-4 Zeile-1: execute Main Menu Zeile-2: Menu Menu Menu	? Hilfe

Illustration 44: Dialog box Konfiguration: Zeile-5

Zuweisung	×
Fenster Fenster-Typ: Auswahl: Fenster MT701: Fenster Element: Zeile-5- ko	-Nr: 02 💌 Taste-1 💌 onfigurieren
Geräte/Funktionen	zufügen <u>entfernen</u>
Einstellungen/Funktion	OK V OK

Illustration 45: Dialog box Zuweisung

Close the dialog box **Zuweisung** with the **OK** button, save the project and download it to the Display and Control Tableau MT701. The display page **Living Room** looks like in Illustration 46. Klick on the button **Execute**. The display page **Light scenes** appears (Illustration 47).

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Living Room	
Ceiling light Wall light Shutter	Off Off
Light group ==>Light scene TV	Off
Execute	Main Menu

Illustration 46: Display page Living Room

Light scenes
<pre>==>Light scene TV Lichtszene Nr: 2 Lichtszene Nr: 3 Lichtszene Nr: 4 Lichtszene Nr: 5 Lichtszene Nr: 6 Lichtszene Nr: 7 Lichtszene Nr: 8</pre>
call change text back save change back

Illustration 47: Display page Light scenes

There are two possibilities to adjust a light scene:

- 1. Chose the light scene you want to adjust with the cursor. Switch all the corresponding consumers as you want them for the light scene. Push the button **call/save** until you can hear a short acoustical sign. The light scene is now saved can be executed with a short push on the button **call/save**.
- Push the button change. The display page Szene: Light scene TV appears (Illustration 48). Chose the button on/shut/+ or the button off/open/- for every single group address assigned to the virtual light scene.

If you want to change the name of the light scene, press the button **text change** on the display page **Light scene** (Illustration 47). The display page **text change** appears (Illustration 49). Now you can enter a new name using the cursor button and the **enter** button.



Illustration 48: Display page Szene: Light scene TV

actual text: Light scene TV	,
new text: Light scene Re	a
ABCDEFGHIJKLMN abcdefghijklmn 0123456789,	OPQRSTUVWXYZÄÖÜ opqrstuvwxyzäöü ;.:!\$%&/()=?ß[]
< >	enter level 2

Illustration 49: Display page text change

Note:

Up to 24 light scenes can be adjusted, but the same group addresses will be used in all light scenes, it is not possible to assign other group addresses to light scene no. 2 than assigned to light scene no. 1. Only the switching values of the assigned group addresses is different for each light scene. Up to 32 group addresses can be assigned.

Tips and Tricks:

To execute the light scenes with a bus telegram, you can enter an 8-Bit-group address and assign it to the light scene (**Nebenstelle:**) (Illustration 43).

5.2 Time programs

On the display page Main Menu (Illustration 9) has to be made a link to the time program display page.

5.2.1 Enter the time program display page

Highlight a free small box in the main window (Illustration 1) and insert a new display page (menu **Fenster** of the head menu line, **Einfügen/Ändern**). The dialog box **Fenster Zuweisung** appears

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Illustration 50: Dialog box Fenster Zuweisung

Highlight the Main Menu page in the main window, open the dialog box Zuweisung (command **Zuweisung...** in the head menu line) and assign the function **zur Schaltuhr** to the element **Zeile-5-Taste-1** (line-5-button-1) (Illustration 51). Enter the according configurations (Illustration 52).

Zuweisung				X
Fenster			[
Fenster-Typ: MT701: Fenster	Auswahl: Element:	Fenster-Ni Zeile-5-Ta	r: 01 💌	
Geräte/Funktionen zur Schaltuhr			zufügen <u>e</u> ntfernen	
Einstellungen/Funktion				V OK

Illustration 51: Dialog box Zuweisung

Z-lastent.	
	Zeile:
Time programs X: 4 Y: 7	nächste
✓ wird im MT701 verwendet	
	vorher
Anzeige:	
Abb./1:[Ein 💌 Einh./0: Aus 💌 X: 30 Y: 7	Informationen:
	ablegen
Offset: 0.000000e+00 Verstärkung: 1.000000e+00	
	holen
(astan Basabriftungan:	
asten-beschnittungen.	
Taste-1 Taste-2 Taste-3 Taste-4	
Taste-1 Taste-2 Taste-3 Taste-4	
Taste-1 Taste-2 Taste-3 Taste-4 Zeile-1: OK	
Taste-1 Taste-2 Taste-3 Taste-4 Zeile-1: OK Image: Comparison of the second secon	
Taste-1 Taste-2 Taste-3 Taste-4 Zeile-1: OK	

Illustration 52: Dialog box Konfiguration: Zeile-5

5.2.2 Configuration of the time program display page

Assign a headline to the time program display page (see Chapter 4.2.1).

Assign a name to each of the up to 8 time programs (see Chapter 4.3.3) (Illustration 53). For every line of the time program display page, there is an additional element **Ereignis** (Event). Assign the virtual device that is to be executed to this element **Ereignis**. Don't forget to assign the option **EIN** to **drücken/aktivieren** and the option **AUS** to **loslassen/deaktivieren**.

When assigning functions to the elements, be sure to assign the function **ändern** (change) to one button per line. With this button, the user is able to enter and change switching times.

Assign the virtual device Wall light to the element **Zeile-1-Ereign.** (line-1-event) (Illustration 54) and the function **ändern** to the element **Zeile-1-Taste-1** (line-1-button-1) (Illustration 55).

Zailantaut					
zenentext.					
₩all light			×	: 4 Y: 3	nächste
✓ wird im MT7	01 verwendet				
					vorner
Anzeige:					Informationen
Abb.71:	Ei Ei	inh./0:	<u>▼</u> ×	: 30 Y: 3	
0.66 a.b. 0.00000	Det 00 Marsta	-kuna: 1.0000	100-100		ablegen
011261.000000	Acista	IKung. 1.0000	000400		
				<u>v</u> anderbar	holen
Castan Rasabrift				<u>µ</u> anderbar	holen
Fasten-Beschrift	ungen:				holen
Fasten-Beschrift	ungen: Taste-1	Taste-2	Taste-3	Taste-4	holen
Fasten-Beschrift Zeile-1:	ungen: Taste-1 change	Taste-2	Taste-3	Taste-4	holen
Tasten-Beschrift Zeile-1: Zeile-2:	ungen: Taste-1 change	Taste-2	Taste-3	Taste-4 Main Menu	holen
Tasten-Beschrift Zeile-1: Zeile-2:	ungen: Taste-1 change	Taste-2	Taste-3	Taste-4	holen

Illustration 53: Dialog box Kofiguration: Zeile 1

Zuweisung			X
Fenster			
Fenster-Typ:	Auswahl:	Fenster-Nr: 52	
MT701: Schaltuhr 💌	Element:	Zeile-1-Ereign	
	Liomont.		
		<u>K</u> onfigurieren	
Geräte/Eunktionen			
Wall light		<u>z</u> ufügen <u>e</u> ntfernen	
Einstellungen/Funktion			🖌 ок
drucken/aktivieren lo	slassen/dea	aktivieren	
	5		? Hilfe

Illustration 54: Dialog box Zuweisung

Zuweisung			×
Fenster			
Fenster-Typ:	Auswahl:	Fenster-Nr: 52	
MT701: Schaltuhr 💌	Floment	Zeile 1-Taste 1	
	Liement.		
		<u>k</u> onfigurieren	
Geräte/Funktionen			
ändern			
		zufügen	
		entfernen	
Einstellungen/Funktion			🖌 ок
			🖉 Hilfe
		I	

Illustration 55: Dialog box Zuweisung

5.2.3 Entering of a link to the system display page

To be able to adjust date and time in the Display and Control Tableau MT701, there must be a link to the system display page. Therefore a link will be entered on the Main Menu system page (Illustration 9).

The system display page is entered automatically in every project (the small box **MT701: System** in Illustration 1). Do not delete it! Now assign the function **zur Systemseite** to the element **Zeile-6-Taste-1** of the Main Menu display page (Illustration 56) and enter the corresponding configurations (Illustration 57).

Zuweisung			\times
Fenster Fenster-Typ: MT701: Fenster	Auswahl: Element:	Fenster-Nr: 01 Zeile-6-Taste-1 konfigurieren	
Geräte/Funktionen zur Systemseite		<u>zufügen</u> <u>e</u> ntfernen	
Einstellungen/Funktion			V OK

Illustration 56: Dialog box Zuweisung

figuration: MT701-Fenster (Nr: 01)∠eile-6	
eilentext:	Zeile:
System display page X: 4 Y: 8	nächste
🗹 wird im MT701 verwendet	
	vorher
	Informationen:
.bb./1: Ein ▼ Einh./0: Aus ▼ X: 30 Y: 8	ablegen
Offset: 0.000000e+00 Verstärkung: 1.000000e+00	
	holen
asten-Beschriftungen:	
Taste-1 Taste-2 Taste-3 Taste-4	
Zeile-1: OK	
Zeile-2:	

Illustration 57: Dialog box Konfiguration: Zeile-6

Close the dialog box **Zuweisung** with the **OK** button, save the project and download it to the Display and Control Tableau MT701. The Main Menu display page looks like in Illustration 58. Push the OK button. The display page Time programs appears (Illustration 59).

Main Menu
Living Room Kitchen Slepping Room
==>Time programs System display page
ОК ОК

Illustration 58: Display page Main Menu

	Time	programs	
==>Wall	light		
Change			Main Menu

Illustration 59: Display page Time programs

Press the button **change**. The display page **Wall light** appears (Illustration 60). Enter up to 8 switching times with the cursor buttons. Chose Ein for switching On and Aus for switching Off. Chose the day on that the switching action is executed (M=monday, D=tuesday, M=wednesday, D=thursday, F=friday, S=saturday, S=sunday). Press the button **delete** to delete a switching time. Save the entries (**save**) and return to the time program display page with the button **end**.

		Wall	light
==>	18:38 19:50 00:00 00:00 00:00 00:00 00:00 00:00	ON OFF OFF OFF OFF OFF OFF	MDMDF MDMDF
	>	delete	save end

Illustration 60: Display page Wall light

Return to the Main Menu display page (Illustration 58), move the cursor to the line **System display page** and press the **OK** button. The display page Systemeinstellungen appears (Illustration 61). Chose the line **Date** or **Time** and press the button **change**. The display page **Date** appears (Illustration 62). Adjust the correct date and save the entry with the button **enter**. Leave the display page Datum with the button **end**. Adjust the time in the same manner. Leave the display page **System settings** with the button **back**.



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Illustration 61: Display page System settings

	Date
Мо	.: 16.08.2000
>	enter end

Illustration 62: Display page Date

Note:

Up to 8 virtual devices can be switched on up to 8 different times.

Tips and Tricks:

Time and date can as well be transmitted on and received from the bus as a 3 Byte-telegram. Therefore, first enter a group address each for date an time. Assign the information type **3 Byte Datum/ 3 Byte Zeit** (Illustration 63). Add the two virtual devices date (type: **Datum**) and time (type: **Uhrzeit**) (Illustration 64) and assign the corresponding group addresses (Illustration 65). Adjust the parameters (**Datum senden**=send date, **Datum empfangen (und interne Uhr stellen)**=receive date (and controll internal timer), **Datum lesen (L-Flag)**=read date).

verfügbare Gruppen	Gruppe bearbeiten
00/0/001* schaltenCeiling light On/Off00/0/002* schaltenWall light On/Off00/0/003* schaltenShutter Up/Down00/0/004* schaltenStop/Lamella00/0/005* schaltenLight group On/Off00/0/006* dimmenLight group Lighter/Dark00/0/007* 1Byte(+)Light group brightness va00/0/008* 3Byte(Datum)Date00/0/009* 3Byte(Zeit)Time	Haupt: 0 Mitte: 0 Unter: 10 Benennung: Time Informationstyp: 3 Byte Zeit Status abfragen iibernehmen
löschen	OK XAbbruch ? Hilfe

Illustration 63: Dialog box Gruppen im Projekt

Geräte/Funk	tionen anlegen 📃	<
Тур:	Datum 💌	
Name:	Date	
V	OK XAbbruch ? Hilfe	

Illustration 64: Dialog box Definition



Illustration 65: Dialog box Definition: Uhr

Assign the virtual devices **Datum** and **Zeit** to the system display page. In the field **Element**, chose if date and time are to be sent cycally every minute (**Timer-Tick 1min**) or every hour (**Timer-Tick 1std**) (Illustration 66).

weisung			
Fenster			
Fenster-Typ: MT701: System	Auswahl: Element:	Fenster-Nr: 51	
Geräte/Funktionen Date Time			
		<u>zufügen</u> <u>e</u> ntfernen	
Einstellungen/Funktion			V OI

Illustration 66: Dialog box Zuweisung

5.3 Passwords

Every display page can be protected with a password. Therefore, a password level is assigned to every display page. There are 5 different password levels. The password level 0 allows

everybody to change to a display page. When the user wants to change to a display page with a higher password level than the one he currently sees, he must enter the according password. To return to a page with a lower password level, there is no need to enter a password.

In the example, the display page **Living Room** (Illustration 46) is going to be protected with a password of level 1.

Highlight the small box of the display page Living Room in the main window (Illustration 1) and chose the command **konfigurieren...** of the menu **Fenster** in the head menu line. The dialog box **Konfiguration: MT701-Fenster** appears (Illustration 67). Enter the password level "1" in the field **Kennwortebene** and confirm with the **OK** button.

nfiguration: MT701-F	enster (Nr: 02)
Seiten-Überschrift	
Living Room	
Kennwortebene:	Anzeige: Zeile-01 <u>ä</u> ndern
Datei für Hintergru	ınd-Bitmap:
suchen	neu <u>b</u> earbeiten
V	OK XAbbruch ? Hilfe

Illustration 67: Dialog box Konfiguration: MT701-Fenster

If you have not yet entered a link to the system display page in your project, you need to do it now.

Save your project and download it to the Display and Control Tableau MT 701. The Main Menu display page looks like in Illustration 68. Press the **OK** button. The display page Illustration 69 appears.

Main Menu
==>Living Room Kitchen Sleeping Room
Time programs System display page
ОК ОС

Illustration 68: Display page Main Menu



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Illustration 69: Display page for entering the password of level 1

The password is a 5-digit number consisting of the figures 1 to 4. The figures are entered with the four downer buttons of the Display and Control Tableau MT701. The following passwords are used as preset: level 1: "11111", level 2: "22222", level 3: "33333" and level 4: "44444".

Now enter the password "11111" to change to the display page **Living Room** (Illustration 46). Go back to the Main Menu display page and try again with a wrong password.

Go back to the Main Menu display page (Illustration 68), change to the system display page, position the cursor on **Passwords** and press the button **change**. The display page **Passwords** (Illustration 70) appears. With the button **change**, you can now change the passwords (Illustration 71).

	Passwords
==>Level 1: Level 2: Level 3: Level 4:	
change	save back

Illustration 70: Display page Passwords

	Passwords
Level 1: Level 2: Level 3: Level 4:	12121
1	2 3 4

Illustration 71: Display page Passwords

Tips and Tricks:

Protect the display page with which you can change to the system display page in order that nobody can change the passwords.

5.4 Displaying and sending values

On the Display and Control Tableau MT701, 1-Bit-, 8-Bit- and 16-Bit values can be displayed, entered and sent. In the example project, the actual room temperature is to be displayed and the desired room temperature is to be entered and sent on the display page **Living Room** (Illustration 46).

Repeat the steps of Chapters 4.3.1 bis 4.3.3. Enter the group addresses Actual temperature and Desired temperature (both with the information type: **2 Byte Gleitkomma**) (Illustration 72), enter the virtual devices Actual temperature and Desired temperature (both of the type: **Wert/Schalter** (**1 Objekt**) (Illustration 73) and assign the according group address (Illustration 74).

verfügbare Gruppen		Gruppe bearbeiten
00/0/001* schalten 00/0/002* schalten 00/0/003* schalten 00/0/005* schalten 00/0/006* dimmen 00/0/006* 3Byte(+) 00/0/008* 3Byte(Datum) 00/0/009* 3Byte(Zeit) 00/0/010* 2Byte(Float) 00/0/011* 2Byte(Float)	Ceiling light On/Off Wall light On/Off Shutter Up/Down Stop/Lamella Light group On/Off Light group Lighter/Dark Light group brightness va Date Time Actual temperature Desired temperature	Haupt: 0 Mitte: 0 Unter: 12 Benennung: Desired temperature Informationstyp: 2 Byte Gleitkomma Status abfragen ibernehmen
löschen		V OK XAbbruch 2 Hilfe

Illustration 72: Dialog box Gruppen im Projekt

Тур:	Wert/	'Schalter (1	Objekt)	 •
Name:	Actua	l temperat.		٦
Tanc.	notad	r temperat.		

Illustration 73: Dialog box Geräte/Funktionen anlegen

	Wert		
Name:	Actual temper	at.	
Grupper	nadressen: Wert	t-Objekt	
00/0/01	0 SE 2Byte(Flo	oat) Actual temperature	
C d			
Send	epriorität:	▼ Senden ▼ Empfangen	zufügen
Send Niedi	epriorität: ig 🔽	I▼ Senden I▼ Empfangen I■ Lesen (L-Flag)	zufügen entfernen
Send Niedi	epriorität: ig	I Senden I Empfangen I Lesen (L-Flag)	zufügen entfernen

Illustration 74: Dialog box Definition: Wert

Open the dialog box **Zuweisung** (command **Zuweisung...** in the head menu line), chose the element **Zeile-6-Anzeige** (line-6-display) and enter the configurations like shown inIllustration 75. Chose the 4-digit display type with one digit after the point (**Abb./1**: **####.#**) and the unit °C (**Einh./0**: °C). Assign the virtual device Actual temperature to the element **Zeile-6-Anzeige** (line-6-display) (Illustration 76).

Actual temperature x: 4 Y: 8 ✓ wird im MT701 verwendet x: 4 Y: 8 Anzeige: Anzeige: Abb./1: ####.# Einh./0: *C x: 30 Y: 8 Offset: 0.000000e+00 Verstärkung: 1.000000e+00 ✓ änderbar holen Tasten-Beschriftungen: Zeile-1: Zeile-2: Main Zeile-2:	Zeilentext:					Zeile:
✓ wird im MT701 verwendet Anzeige: Anzeige: Abb. /1: #####. # Einh. /0: °C ▼ X: 30 Y: 8 Offset: 0.000000e+00 Verstärkung: 1.000000e+00 ✓ änderbar Informationen: Tasten-Beschriftungen: Taste-1 Taste-1 Taste-1 Taste-1 Taste-2 Taste-3 Taste-4 Zeile-2: Menu	Actual temperatu	ire		X:	4 Y: 8	nächste
Anzeige: Abb./1: ####.# ▼ Einh./0: ℃ ▼ X: 30 Y: 8 Offset: 0.000000e+00 Verstärkung: 1.000000e+00 ✓ änderbar fasten-Beschriftungen: Taste-1 Taste-2 Taste-3 Taste-4 Zeile-1: Main Zeile-2: Menu	wird im MT70	1 verwendet				
Anzeige: Abb./1:####.# Einh./0: ℃ ▼ X: 30 Y: 8 Offset: 0.000000e+00 Verstärkung: 1.000000e+00 ✓ änderbar Fasten-Beschriftungen: Taste-1 Taste-2 Taste-3 Taste-4 Zeile-1: Main Zeile-2: Menu						vorher
Abb./1: #####.# Einh./0: *C	Anzeige:					Informationen
Offset: 0.000000e+00 Verstärkung: 1.000000e+00 ✓ änderbar asten-Beschriftungen: Taste-1 Taste-2 Taste-3 Taste-4 Zeile-1: Main Zeile-2: Menu	\bb./1: ####.#	Ei Ei	nh./0: *C	▼ X:	30 Y: 8	ablegen
Image: Sector of the secto	Offset: 0.000000	e+00 Verstär	rkung: 1.00000)0e+00		
Tasten-Beschriftungen: Taste-1 Taste-2 Taste-3 Taste-4 Zeile-1: Main Zeile-2: Menu					∠ änderbar	holen
Taste-1 Taste-2 Taste-3 Taste-4 Zeile-1: Main Zeile-2: Menu		ngen:				
Zeile-1: Main Zeile-2: Menu	l asten-Beschriftu					
Zeile-2: Menu	Fasten-Beschriftu	Taste-1	Taste-2	Taste-3	Taste-4	
	Tasten-Beschriftu Zeile-1:	Taste-1	Taste-2	Taste-3	Taste-4 Main	
	Tasten-Beschriftu Zeile-1: Zeile-2:	Taste-1	Taste-2	Taste-3	Taste-4 Main Menu	

Illustration 75: Dialog box Konfiguration: Zeile 6

Zuweisung		\times
Fenster Fenster-Typ: MT701: Fenster	Auswahl: Fenster-Nr: 02 Element: Zeile-6-Anzeige <u>konfigurieren</u>	
Geräte/Funktionen Actual temperat.		
Einstellungen/Funktion		V OK

Illustration 76: Dialog box Zuweisung

Enter the configurations for line 7 (**Zeile-7-Anzeige**). Consider that there has to be a button for changing the desired value (change) (Illustration 77). Assign the virtual device Desired temperature to the element **Zeile-7-Anzeige** (line-7-display) and the pre-defined function **ändern** (change) to the element **Zeile-7-Taste-1** (line-7-button-1) (Illustration 78).

Zeilentext:					Zeile:
Desired tempera	ature		X: [4	Y: 9	nächste
🖌 wird im MT7	01 verwendet				
					vorher
nzeige:					
ьь./1: ####.#	Ein	h./0: *C	▼ X: 3	80 Y: 9	Informatione
					ablegen
Offset: 0.00000	e+00 Verstärk	.ung: 1.000000	le+00	änderbar	holon
asten-Beschrift	ingen:				
			T . 0		
	Taste-1	Taste-2	l aste-3	l aste-4	
Zeile-1:	Taste-1 change	Taste-2	I aste-3	I aste-4 Main	
Zeile-1: Zeile-2:	Taste-1 change	Taste-2		l aste-4 Main menu	
Zeile-1: Zeile-2:	Taste-1	Taste-2		Taste-4 Main menu	

Illustration 77: Dialog box Konfiguration: Zeile 7

uweisung			X
Fenster			
Fenster-Typ:	Auswahl:	Fenster-Nr: 02	
MT701: Fenster	Element:	Zeile-7-Taste-1	
		<u>k</u> onfigurieren	
Geräte/Funktionen			
ändern			
		zufügen	
		<u>e</u> ntfernen	
Einstellungen/Funktion			✔ ок
			🛛 🛛 Hilfe

Illustration 78: Dialog box Zuweisung

Save the project and download it to the Display and Control Tableau MT701. The display page **Living Room** looks like in Illustration 80. Press the button **change**. The display page in Illustration 81 appears. The actual value is shown (**actual value:**). You can enter a new value (**new value:**) using the cursor buttons. With pushing the **enter** button your entry will be sent via bus and the display page **Living Room** appears (if not connected to an acknowledging EIB

device via the bus, the Desired temperature will not be changed). With pushing the **end** button instead of the **enter** button, your entry will be ignored and no telegram sent on the bus.

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Illustration 80: Display page Living Room

actual	value: 0	°C
new	value: 20	٥C
<	> ente	er end

Illustration 81: Display page for changing values

Tips and Tricks:

Intensification:

In order to scale a value, use the entry **Verstärkung** in the dialog box **Konfiguration** (Illustration 77). To scale e.g. a 1-Byte value (0...255) to a 0...100% range, please enter "3.921600e-01" (=1/2,55) as **Verstärkung**.

Offset:

If you need scaling that does not start off with an "0", you can enter an offset (Illustration 77). If for example the 1-Byte value (0...255) is to correspond to a "20...275" value range, the correct offset would be "20".

Thresholds:

Thresholds can be watched using the Display and Control Tableau MT701. Is a threshold crossed, a telegram is sent. In the example project, a 1-Bit telegram is sent to the heating actor when the room temperature goes below 18°C.

Enter the group address **Heating On** of the information type: **1 Bit Schalten/Jalousie (0,1)** (Illustration 82) and the virtual device Heating On of the type **Schalter** (Illustration 83). Assign the group address **Heating On** to the virtual device Heating On.

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verfügbare Gruppen	Gruppe bearbeiten
00/0/001* schaltenCeiling light On/Off00/0/002* schaltenWall light On/Off00/0/003* schaltenShutter Up/Down00/0/004* schaltenStop/Lamella00/0/005* schaltenLight group On/Off00/0/006* dimmenLight group Lighter/Darks00/0/007* 1Byte(+)Light group brightness va00/0/008* 3Byte(Datum)Date00/0/009* 3Byte[Zeit)Time00/0/010* 2Byte(Float)Actual temperature00/0/011* 2Byte(Float)Desired temperature00/0/012* schaltenHeating On	Haupt: 0 Mitte: 0 Unter: 13 Benennung: Heating On Informationstyp: 1 Bit Schalten/Jalousie (0,1) Status abfragen anlegen ibernehmen
löschen	OK XAbbruch ? Hilfe

Illustration 82: Dialog box Gruppen im Projekt

Illustration 83: Dialog box Geräte/Funktionen anlegen

Enter a threshold display page in the project. Highlight a free small box in the main window and chose the command **Einfügen/Ändern** of the menu **Fenster** in the head menu line. Chose the display page type: **MT701: Grenzwerte** (Illustration 84). Assign a headline to the new threshold display page and, if needed, a password. Assign the function **zur Grenzw.Seite** to the element **Zeile-7-Taste-1** (line-7-button-1) of the display page Living Room.

Fenster-Nr:	Fenster-T	vn: MT701: Grei	nzwerte 🔽
	Fenster-I	Nr:	

Illustration 84: Dialog box Fenster Zuweisung

Klick on the command **Zuweisung** in the head menu line and chose the element **Messwert-1** (measured value 1) and press the button **konfigurieren** (Illustration 85). Assign the virtual device Actual temperature to the element **Messwert-1** and the virtual device Heating On to the element **MW1-unterer GW** (lower threshold) with the setting **EIN** for **Einstellungen/Funktion** – drücken/aktivieren (Illustration 86).

Konfiguration: MT701-Grenzwert Zeile-1	×
Zeilentext:	Zeile:
Actual temperature X: 4 Y: 3	nächste
V wird im MT701 verwendet	vorher
Anzeige:	Informationen:
Abb.: ####.# Einheit: *C X: 30 Y: 3	ablegen
Offset: 0.000000e+00 Verstärkung: 1.000000e+00	holen
OK KAbbruch	? Hilfe

Illustration 85: Dialog box Konfiguration: MT701-Grenzwert Zeile-1

Zuweisung			X
Fenster			
Fenster-Typ:	Auswahl:	Fenster-Nr: 54	
MT701: Grenzwerte 💌	Element:	MW1-unterer 6W	
	Liomona.		
		Konfigurieren	
Geräte/Eunktionen			
Heating On			
		Tuficon	
		<u>e</u> ntfernen	
Linstellungen/Funktion			ок
	loslassen/dea	aktivieren	
	eine Funktior		2 Hilfe

Illustration 86: Dialog box Zuweisung

Save your project and download it to the Display and Control Tableau MT701. Change from the Main Menu page to the Tresholds display page (Illustration 87). Chose the button **upper limit** to change the upper threshold and the button **lower limit** to change the lower threshold in a separat display page (Illustration 88). Enter the new threshold value using the cursor buttons, save your entries with the button **enter** and return to the threshold display page with the button **end**.

	Thresholds			
==>Actual	temperature		0.0	°C
upper limit	lower		back	.

Illustration 87: Display page Thresholds

Actual temperature
upper limit
actual value: 1.5 °C
new value: 0018.0 °C
< > enter end

Illustration 88: Display page for changing thresholds

5.5 Alarm messages

1-Bit alarm telegrams can be displayed with an individual information text on the Display and Control Tableau MT701. An acoustical signal will be heard and the user can give a receipt pressing a button. All messages can be listed in an alarm list. The last 100 entries are saved in the alarm list.

Enter the group address alarm (Illustration 89) of the information type **1 Bit Schalten/Jalousie (0,1)**. Insert a virtual device of the type **Alarmseite** (alarm display page) (Illustration 90) and assign the corresponding group address (Illustration 91). You can chose whether an alarm display page is shown (**Fenster öffnen**), whether an acoustical alarm can be heard (**Ton**), whether the infotext entered in the fields **Zeile 1**: and **Zeile 2**: is shown (**Infotext**), whether the alarm will be entered in the alarm list (**in Alarmliste**) and whether the user can give an alarm receipt or not (**quittierbar**).

verfügbare Gruppen	Gruppe bearbeiten
00/0/001* schalten Ceiling light On 00/0/002* schalten Wall light On/O 00/0/003* schalten Shutter Up/Dov 00/0/004* schalten Stop/Lamella 00/0/005* schalten Light group On/O 00/0/006* dimmen Light group brig 00/0/008* 3Byte(Datum) Date 00/0/008* 3Byte(Datum) Date 00/0/010* 1Byte(+) Actual temperal 00/0/011* 1Byte(+) Desired temper 00/0/012* schalten Heating On 00/0/013* schalten Alarm	/Off Haupt: 0 Mitte: 0 Unter: 13 ff Benennung: /Off Alarm /Off Informationstyp: 1 Bit Schalten/Jalousie (0,1) ▼ ture Informationstyp: 1 Bit Schalten/Jalousie (0,1) ▼ ✓ Status abfragen übernehmen ØK Xabbruch Ŷ Hilfe

Illustration 89: Dialog box Gruppen im Projekt

Тур:	Alarms	eite		•
Name:	Alarm			

Illustration 90: Dialog box Geräte/Funktionen anlegen

Meldung: Window open! Zeile1: The kitchen window is open! Zeile2: Close the window! Øruppenadressen: 00/0/013 SE schalten Alarm	Name:	A	larm				 	
Zeile1: The kitchen window is open! Infotext Zeile2: Close the window! Infotext Gruppenadressen: Infotext Infotext 00/0/013 SE schalten Alarm	feldung:	¥	/indo w op	en!				Fenster öffnen Ton
Zeile2: Close the window! Gruppenadressen: 00/0/013 SE schalten Alarm	Zeile1:	T	he kitche	n windov	v is open	!		nfotext
Gruppenadressen: 00/0/013 SE schalten Alarm	Zeile2:	C	lose the w	indow!			i Ma	in Alarmliste
	Grupper	nac	lressen:					
	Grupper 00/0/01	nac Kilk	lressen: 6E schal	ten	Alarm			
	Grupper 00/0/01	nad B i	lressen: SE schal	ten	Alarm			
	Grupper 00/0/01	nad	dressen: SE schal	ten	Alarm			
zufügen entferne	Grupper 00/0/01	nad	lressen: 5E schal	len	Alarm			

Illustration 91: Dialog box Definition: Alarm

Save the project and download it to the Display and Control Tableau MT701. Send the alarm group address via the EIB. The Display and Control Tableau will show the alarm display page **ALARM MESSAGE** (Illustration 92). The date and time are shown when the message has been sent. Besides the message and the information text, the number of current alarm messages is given **1 active windows(s)**. The user can now give a receipt **(O.K.)** and return to the last display page pressing the button **back**.



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Illustration 92: Display page Alarm message

Every alarm action is entered in the alarm list (the last 100 messages are stored in the alarm list). To open the alarm list, press the button **alarmlist** on the system display page (Illustration 93). The display page **Alarm list** appears(Illustration 94).

A stands for "Alarm" (an alarm has emerged), **G** stands for <u>"G</u>oing alarm" (the alarm reason does not exist any longer) and **C** for <u>C</u>onfirm (receipt). The last 100 alarm actions will be displayed. Scroll through the entries using the cursor buttons.

When the device is resetted or the program downloaded into the device, the entries in the alarm list will be deleted.

System settings	
==>Date Time Passwords	0.0.2000 00:00
change alarm-list	back

Illustration 93: Display page System settings



Illustration 94: Display page Alarmliste

5.6 Logical combinations

1-Bit group addresses (group addresses of the information type: 1 Bit Schalten/Jalousie (0,1)) can be combined logically. The result of logical combinations can be displayed, but not sent via the EIB. The following logical combination types exist:

- UND-Verknüpfung •
- (AND), NICHT-UND-Verknüpfung (NAND), •
- **ODER-Verknüpfung** (OR) and •
- NICHT-ODER-Verknüpfung NOR). •

In the example project, the group addresses "External light 1" and "External light 2" is to be entered. The display "Status external lights" shows a "On" if one of the two lights is burning.

Enter the group addresses "External light 1" and "External light 2" (Illustration 95) and a function of the type: **ODER-Verknüpfung (OR)** (Illustration 96), enter the number of input group addresses (Anzahl der Eingänge:) and assign the group address "External light 1" to the input no. 1 (Eingang-Nr.) the group address "External light 2" to the input no. 2 (Eingang Nr. 2) (Illustration 97). If you assign several group addresses to the same input, the will be treated as an OR combination. Up to 10 group addresses can be assigned to each input.

erfügbare Gruppen		Gruppe bearbeiten
00/0/001* schalten 00/0/002* schalten 00/0/003* schalten 00/0/005* schalten 00/0/005* schalten 00/0/006* dimmen 00/0/000* 3Byte(P) 00/0/008* 3Byte(D atum) 00/0/009* 3Byte(Zeit) 00/0/010* 1Byte(+) 00/0/011* 1Byte(+) 00/0/011* 1Byte(+) 00/0/012* schalten 00/0/013* schalten 00/0/015* schalten	Ceiling light On/Off Wall light On/Off Shutter Up/Down Stop/Lamella Light group On/Off Light group Lighter/Darko Light group brightness va Date Time Actual temperature Desired temperature Heating On Alarm External light 1 External light 2	Haupt: 0 Mitte: 0 Unter: 16 Benennung: External light 2 Informationstyp: 1 Bit Schalten/Jalousie (0,1) ▼ ✓ Status abfragen anlegen übernehmen
löschen		V OK XAbbruch 2 Hilf

Illustration 95: Dialog box Gruppen im Projekt

Typ: ODER-Verknüpfung (OR)
Name: External lights

Illustration 96: Dialog box Geräte/Funktionen anlegen

Definition: (DDER-Verkni	ipfung (OR)			\times
Name:	External lig	hts	Anzahl	der Eingänge: 2	
Grupper	nadressen: A. F. – schall	en External light	1		
R. C.C. C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.	i L Strict				
Einga	ng Nr.	Mit * aekennzeichne	te	zufügen	
Einga	ing-1 * 💌	Eingänge sind mit Gruppenadressen be	elegt.	entfernen	
			🖌 ок	📿 Hilfe	

Illustration 97: Dialog box Definition: ODER-Verknüpfung (OR)

Chose the small box Main Menu in the main window, open the configuration dialog box for the element **Zeile-8-Anzeige** (line-8-display), enter the according configurations (Illustration 98) and assign the function External lights (Illustration 99).

Zeilentext:	Zeile:
External lights X: 4 Y: 10	nächste
✓ wird im MT701 verwendet	
Anzoide.	vorner
Abb./1:0n T Einh./0: Off T X: 30 Y: 10	Informationen
	ablegen
Offset: 0.000000e+00 Verstärkung: 1.000000e+00 ☑	holen
Fasten-Beschriftungen:	
Taste-1 Taste-2 Taste-3 Taste-4	
Zeile-1:	
Zeile-2:	

Illustration 98: Dialog box Konfiguration: Zeile-8

Zuweisung			X
Fenster			
Fenster-Typ:	Auswahl:	Fenster-Nr: 01	
MT701: Fenster	Element:	Zeile-8-Anzeige	
	Liement.		
		<u>k</u> ontigurieren	
Gerate/Funktionen			
External lights			
		zufügen	
		entfernen	
Einstellungen/Funktion			и ок
			🛛 🖉 Hilfe

Illustration 99: Dialog box Definition

Save the project and download it to the Display and Control Tableau MT701. The display page **Main Menu** looks like in Illustration 100. The status **On** will be displayed if one of the external lights is burning.



Illustration 100: Display page Main Menu

6 **Project administration**

6.1 Importing group addresses of other EibTab projects

Group addresses and Functions/Virtual devices of other EibTab projects can be imported from one project into another. Chose the command **Import/Datei wählen...** of the menu **Datei** in the head menu line and search for the file of which the group adresses or functions/virtual devices are to be imported. After that chose the command **Import/Gruppen...** bzw.

Import/Geräte/Funkt... and highlight in the appearing list those entries that you want to import.

6.2 **Project documentation**

For documentation of projects, there are several lists that can be exported to a Windows-Editor to be edited, printed or saved.

Open the dialog box Listen (Illustration 101) with a klick on the command Listen... in the head menu line of the main window (Illustration 1). The dialog box Listen appears (Illustration 101). In the field Schalter, you can chose which elements are to be entered in the list: display pages (Fenster auflisten), group addresses (Gruppen auflisten), functions/virtual devices (Geräte/Funktionen) and assignments (Zuweisungen auflisten). In the field Zuweisungen/ Fensterauswahl, you can chose the display pages of which the information is to be exported. If you want to export the information of all dispay pages, then chose the option alle Module in die Liste aufnehmen.

en	1
Schalter	
Fenster auflisten	
🗖 <u>G</u> ruppen auflisten	
Geräte/ <u>F</u> unktionen	
✓ Zuweisungen auflisten	
<u>Umrechnungen auflisten</u>	
Zuweisungen/Fensterauswahl	
MT701: Fenster (01 hex = 1 dez) MT701: Fenster (02 hex = 2 dez) MT701: Grenzwerte (36 hex = 54 dez) MT701: Schaltuhr (34 hex = 52 dez) MT701: System (33 hex = 51 dez)	
	Abbruch
alle Fenster in die Liste aufnehmen	2 10%

Illustration 101: Dialog box Listen