LUXORliving System manual Version 1



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General 1

LUXORliving smart home control is based on a bus communication and includes control of lighting, actuators and indoor climate. LUXORliving is taken into operation by using the free LUXORplug programming tool. (http://luxorliving.de/luxorplug/)

LUXORplug assigns all functions, which can also be changed later on.

→ C Download on the App Store

Operation is done via permanently installed operating controls or by using the free LUXORplay app, which can be installed on a smartphone or tablet.

For iOS - App Store

For Android - Play Store → Scoogle play



igcup When operating via app, the LUXORIiving IP1 system control centre has to be connected to your home network.

2 System

- All components of LUXORliving communicate via a bus connection according to the KNX standard (KNX S-mode).
- The connection to the home network is via the LUXORliving IP1 system control centre. This allows operation via the LUXORplay app.
- The system can be equipped with a maximum of 64 LUXORliving devices, which includes system devices, sensors and actuators.

System devices

- LUXORIiving IP1 (system control centre),
- LUXORliving P640 (power supply)¹

Sensors

- Room sensors
- Binary inputs
- Button interfaces

Actuators

- Switch actuators
- Dimming actuators
- Blind actuators
- Heating actuators
- For operation, conventional buttons are used. They are integrated into the system via button interfaces/binary input. Control is always via button. Only for the "switch" function you can chose between "button" and "motion detector" (switch).

¹ Only **one** system control centre and one power supply are allowed to be installed in one system.

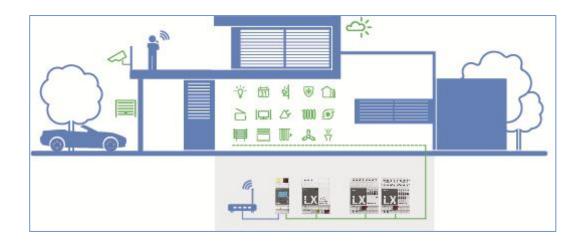
3 Installation

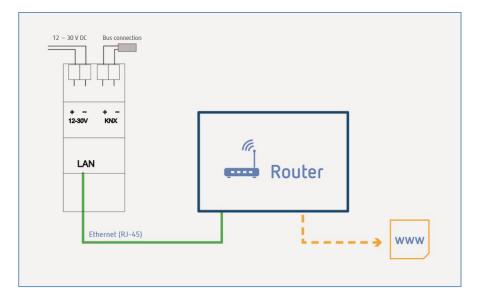
- The components of LUXORliving are intended for installation in a switch cabinet, in a flush-mounted box, or for wall mounting.
- Communication is via a 2-wire bus, to which each device has to be connected. The bus connection can be executed as a line, star or tree topology.

(\mathbf{i})	The following cable lengths have to	be observed:
	power supply – participant	→ max. 350 m
	participant – participant	→ max. 700 m
	total cable length	→ max. 1,000 m
	For the bus connection, a KNX-cert	ified bus line $(J-Y(St)Y 2 \times 2 \times 0.8 \text{ mm})$ has to be used.

• For operation, conventional buttons are used. They are integrated into the system via button interfaces/binary input. Control is always via button. Only for the "switch" function you can chose between "button" and "motion detector" (switch).

 Please note that outdoors, a bus line can pose an increased safety risk. As an alternative in the outdoor area, normal motion detectors with relay contact can for instance be integrated into the system via the LUXORIiving B6 binary input. When using the LUXORIiving M140 weather station, installation location and cable routing should be chosen in a way, so access to the bus line is difficult.





4 Start-up

4.1 Establish a connection

LUXORIiving is always put into operation by using the LUXORIiving IP1 system control centre and the LUXORplug software. The LUXORplug software can be downloaded for free at https://www.theben.de/ (http://luxorliving.de/luxorplug/).

For operation, the LUXORplay app is used, which is also available as a free download for your smartphone/tablet (http://luxorliving.de/demoversion-luxorplay-2/) (see page 3).

- **(i)** System requirements for **LUXORplug**:
 - Windows 7 to Windows 10
 - 32 bit and 64 bit



(i) System requirements for **LUXORplay**:

- Windows 7 to Windows 10
- 32 bit and 64 bit
- Android from version 4.4,
- iOS from version 9.x

The connection between PC and LUXORliving IP1 system control centre can be established in various ways. We recommend the connection via a router:

4.1.1 Option 1 – Connection via a router

Connect PC (WLAN or LAN) and LUXORliving IP1 system control centre (LAN) with the router and switch on the power supply of the LUXORliving IP1 system control centre.

The LUXORliving IP1 system control centre is delivered with activated DHCP service and receives its IP address automatically from the router. After start-up, the IP address is displayed in the LUXORliving IP1 display.

If the router does not support DHCP, the IP address of LUXORliving IP1 has to be assigned manually. Please find further information on this in the manual of the router.

In LUXORliving IP1, the IP address can be configured as follows:

- \succ Press the " \downarrow " button and open the "IP Config" menu with the " \vdash " button.
- \triangleright Select the "DHCP" setting with the " \downarrow " button.
- > Set it to "Manual" with " \uparrow ", and confirm with " \leftarrow ". Now, you can set the IP address, subnet mask and gateway by using the arrow keys. e.g. IP address 192.168.0.100/subnet mask 255.255.255.0/gateway 192.168.0.1

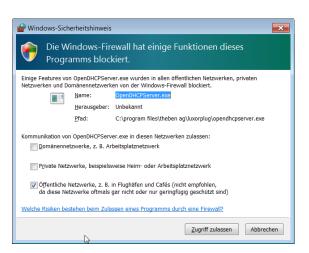
4.1.2 Option 2 – Connection without router using the DHCP service of LUXORplug

Via an integrated DHCP service in LUXORplug, an IP address can be assigned to the LUXORliving IP1 system control centre and the PC. This changes the network settings, which requires the appropriate access rights. When exiting LUXORplug, these settings will be undone.

Start the LUXORplug application "As an administrator", and activate "Settings" – "Direct connection to LUXORliving IP1" in the "File" menu.

😰 Theben LUXORplug File Help			- a ×
		theben LUXORplug	
Welcome to LUXORplug Please enter your project name! • • • →	Project New house Bulder-owner Address	Øg. LUXORplug × Settings × Language English Deno mode > Drect convection to LUXORNing (P1 • Øg. LUXORplug × Select network adapter × Prease site(the adapter to is connected to the LUXORning (P1 Adapter: Intel(R) Ethernet Connection 1219-LM	
		DK Cancel	

> Update the adapter settings and start the process with "OK".



- > In the firewall settings, allow access in "Public networks".
- → Afterwards, an IP address will be assigned to the LUXORliving IP1 system control centre as well as the PC.

4.1.3 Option 3 – Connection without router using manual network settings

- > Deactivate the WLAN connection at the PC.
- > Use a network cable to connect the PC directly with the LUXORliving IP1.

The PC normally obtains the IP address automatically via an existing network. Since no network is available, the IP address of the PC has to be set manually. This setting has to be made in the control panel.

The following settings interrupt possibly existing network connections. This might lead to a loss of data in open applications.

> Close all applications, before making these changes.

Example

- Open the file explorer (by using the shortcut Win + E), right click on "Network" and select "Properties".
- > In the new window, click on "Change adapter settings".
- \rightarrow A list with the connections of all network adapters will be shown.
- > Double click on the "Ethernet" connection and open "Properties".
- > In a new window, double click on "Internet protocol, version 4 (TCP/IPv4)".
- > In the following window, activate the entry "Use the following IP address".
- Complete the fields below correctly.
 e.g. IP address 192.168.0.10/subnet mask 255.255.255.0/gateway 192.168.0.1

Undo these settings after finishing your activities in the LUXORliving system and activate DHCP.

At LUXORliving IP1, the IP address has to be set manually as well:

- \succ Press the " \checkmark " button and open the "IP Config" menu with the " \rightarrowtail " button.
- > Select the "DHCP" setting with the " \downarrow " button, set it to "Manual" with " \uparrow " and confirm with " \downarrow ".
- Set the IP address, subnet mask and gateway by using the arrow keys. e.g. IP address 192.168.0.100/subnet mask 255.255.255.0/gateway 192.168.0.1
- \rightarrow The connection between PC and LUXORliving IP1 is now established.
- Start the LUXORplug application and start configuration.

4.2 Configuration with LUXORplug

For creating a project, the following steps have to be done:

- Project details (project name, address, etc.)
- Create building structure (floors and rooms)
- Create a device list (loading the system or creating the device list manually)

Only if the last step is confirmed with (\rightarrow), the device list will be saved in the project!

- \rightarrow The home page appears with the following information on the project:

File elp		theben LUXORplug	
Welcome to LUXORplug Please enter your project name!	Project New house Builder-owner	installer	
• • • • →	Address	Notes	

> Enter project name, address, installer etc.

4.2.1 "File" menu

In the "File" menu, several functions are available.

New project: Open project: Import project:	Create a new project Open an existing project Import a project file from LUXORIiving IP1
Previous projects:	List of previously edited projects
Save:	Saves the current project with the most recently selected filename and storage location
Save as:	Save the current project with the save dialogue (filename and storage location selectable)
Settings:	Set the menu language of LUXORplug, demo mode, Activate direct link and debug mode
Quit:	Quit and exit LUXORplug

LUXORIiving system manual

2 New house* - Theben LUXORplug			- 0 X
File Help			
New project Strg+N Open groject Strg+O Import project		theben LUXORplug	
Recent projects Save Strg+S Save gs Coming	Project roject Butder-owner Address	Installer Notes	

Functions of the menu "File" - "Settings"

Demo mode

In demo mode, the connection to a system is simulated. This mode is used for displaying the LUXORplug functions and has to be disabled if there is an existing connection to a LUXORliving system.

Direct connection to LUXORliving IP1

This function is used if LUXORliving IP1 is connected directly to the PC via a LAN cable. When activated, a DHCP service is started in LUXORplug, which automatically assigns an IP address to LUXORliving IP1 and to the PC. For this, the network settings of LUXORliving IP1 and PC must have activated the DHCP service.

Debug mode

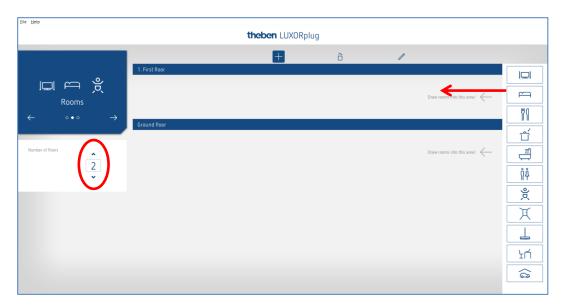
Debug mode can be activated by clicking five times on the free space. Debug mode is used for troubleshooting in the configuration. You can find further information in the Appendix.

Please enter your project New house ALLONGRING X	File Help		theben LUXC)Rplug	
	Welcome to LUXORplug Please enter your project name! • • • • →	New house	Settings Language Demo mode	English 🗸	



4.2.1.1 Define floors and rooms

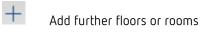
By navigating with the arrow icons, you can go one menu step ahead (\rightarrow) or back (\leftarrow) . In the next step, you can define the number of floors and include the corresponding rooms on each floor.



Elle Help Home		t	heben LUXORpl	ug			
I⊒I ← É _{Rooms}	Central services			õ			
Number of floors	Corridor Ground floor	Bedroom	Bathroom	Children's room			ĊĆ U ŘÅ
	Living room	Dining room	Kitchen	<u>Λ</u> Â Lavatory	Corridor (1)	L Storage room	

ò

4.2.1.2 Further functions



Delete floors or rooms

1		~		
0	Edit	floors	٥ſ	rooms

- Click on the pin. In this way, you can change the names of rooms and floors.
- Click on a room (e.g. bedroom)
- ightarrow A choice of alternative icons for the respective room is displayed.



- > In room view, place the cursor on a room.
- \rightarrow The functions configured in this room are displayed.

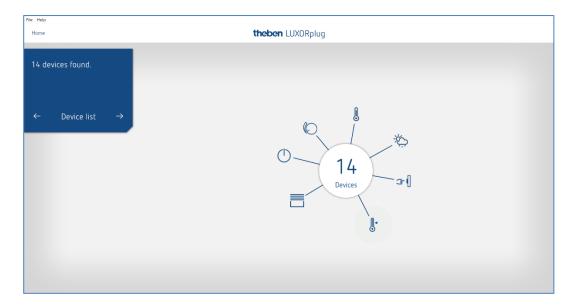
Weather station		
1. First floor		
Ă	8	
Corridor	Bedroom	Bathroom
Ground floor	2/2	
		Ć
Living room	Dining room	Kitchen

4.2.1.3 Load devices of the system

By navigating with the arrow icons, you can go one menu step ahead (\rightarrow) or back (\leftarrow). In the next step, you can load the system.

In order to do this, the PC must be connected to LUXORliving IP1 and other LUXORliving components. As an alternative, you can skip this step and create the device list manually.

> Click on the "Load system" field.



The connected LUXORliving components are automatically loaded and then shown in the device list.

me		theben LUXORplug	
		+ õ /	
devices found.	Device	Type Name	
	LUXDRIving S4	Switch actuator 1	Q
	LUXDRIving D2	Dimming actuator 1	Q
	LUXDRIving J4	Blinds actuator 1	Q
	LUXDRIIving H6	8 Heating actuator 1	Q
	→ LUXDRIiving T4	Push button interface 1	٩
	LUXDRIving T4	Push button interface 2	9
	LUXORIIving B6	Gr () Binary input 3	٩
	LUXORIIving M140	🏷 Weather station 1	9
	LUXORIiving R718	Room sensor 1	Q

The arrangement of the devices in the left column (devices) can be adjusted by clicking, holding and moving.

4.2.1.4 Identify and name devices

Each device has to be clearly named, in order to be assigned to functions and rooms. For instance, each device can show the installation location, function or another identification.

For identifying the device inside the installation, the "magnifying glass" icon is used.

- Click on the "magnifying glass".
- ightarrow The red LED of the device flashes and allows an identification.
- If the button interfaces LUXORliving T2, T4, T8 are already installed in the switch box, any of the connected buttons can be pushed three times briefly. The "magnifying glass" icon then indicates the respective button interface. The identification can be finished by pressing the button again briefly.

Smart Home - Theben LUXORplug			- 0
File Help			
Home		theben LUXORplug	
	_	· · · · · · · · · · · · · · · · · · ·	
		+ à 🖊	
0 devices found.	Device	Type Name	
	LUXORIIving S4	Switch actuator 1	
	LUXORIIving D2	Dimming actuator 1	/ 🤇
	LUXORIIving J4	Blinds actuator 1	/ 2

After all devices have been identified and clearly named, configuration can be completed with " \rightarrow ".

4.2.1.5 Create the device list manually

If the PC is not connected to the LUXORIiving system, or the LUXORIiving components are not linked with each other, the device list can be created manually. This function allows configuration, without the installation being already started or completed.

> Skip "Load system" and include the planned LUXORliving components in the device list.

The arrangement of the devices in the left column (devices) can be adjusted by clicking, holding and moving.

devices found.	Device	<u>+</u>	õ 🖊		
		Type N	ame		LLOXORDiving SI
	LUXORIiving T4		Push button interface 1	٩	
	LUXORIIving T8	æ(Push button interface 2	Q	LLOXORIving 1
	LUXORIving D4	0	Dimming actuator 1	9	
	LUXORIiving J8	—	Blinds actuator 1	Q	LUXORBiving S
- 000	→ LUXORIiving S8	0	Switch actuator 1	Q	
					0
					LUXORIVING
					LUXORINIng
					LUXORINIng
					LUXORIVING
					Gr (

This device list can be used to continue configuration, and the individual functions of the added devices can be used inside the rooms.

It is absolutely necessary that the system is loaded, as soon as all LUXORliving components have been installed and linked with each other.

After loading, the configured and found devices will be assigned. For identifying a device inside the installation, the list of the green-coloured devices on the right side is used. If you click on a green-coloured device, the red LED of that device flashes and thus allows its identification.

Draw this device on the corresponding red-coloured device in the device list and assign it to the appropriate functions.

If the button interfaces LUXORliving T2, T4, T8 are already installed in the switch box, any of the connected buttons can be pushed three times briefly. After that, one of the green-coloured button interfaces on the right side flashes and indicates the respective button interface.

> Press the button again briefly.

 \rightarrow The identification will be finished again.

ben AG* - Theben LUXORplug felp					- 8
me		theben	LUXORplug		
		E	à /		Recognised de
devices found.					. *>
	Device	Туре	Name	Q	UNORhing H
	LUXORIving S8	0	Schaltaktor 3	``````````````````````````````````````	()
	LUXORIving D4	<u></u>	Dimmaktor 3	Q	LUXERIVING
	LUXORI ving J4		Jalousieaktor 3	Q	G-(
	LUXORIving T4 →	⇒(Tasterschnittstelle 3	```	LUXERIVING
	LUXOR Wing Bo	e(Binäreingang 4	Q	
	LUXORI ving H6	8	Heizungsaktor 4	Q	LUNDRIVIN
	LUXORIving M140	×	Wetterstation 3 Raumsensor 3	Q Q	0
	Editority ing its 10	0		~	LUXERIving
					LUXCRIVING
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					9
					LUXDEINING
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				là -	Ū
				₿.	Ū
				G₂	
				Þ	LUXORIving

4.2.2 Include functions

After the device list has been edited and completed, the **main menu** will be displayed.

File Help	theben LUXORplug	9	
口 ← 炎 _{Rooms}		Smart Home	/
System		KAN.	
J Diagnosis			

- ➢ Click on the "Rooms" field.
- \rightarrow The building view will be opened and allows a room-based configuration of functions.
- > Click on the desired room, for instance the bedroom.

File Help		
Home	theben LUXORplug	(₹)
		Switch actuators Switch actuator 1 C3
1. First floor		Switch actuator 1 C4
		Dimming actuators Dimming actuator 1 C2
\square		Blind actuators
Bedroom		Blinds actuator 1 C2 Blinds actuator 1 C3
←		Blinds actuator 1 C3 Blinds actuator 1 C4
		Heating actuators
		Heating actuator 1 C2
Switching		Heating actuator 1 C3 Heating actuator 1 C4
		Heating actuator 1 C5
Dimming (C)		Heating actuator 1 C6
		Sensors
Blinds		Binary input 3 C1 Binary input 3 C2
		Binary input 3 C3
Heating		Binary input 3 C4
		Binary input 3 C5
	Draw a function into this area!	Binary input 3 C6
		Push button interface 2 C2
Szeneauslösers		Push button interface 2 C3 Push button interface 2 C4
		Room sensor 1 C1
		Room sensor 1 C2
		Room sensor 1 C3

> Draw the desired function to the right and into the room.

	Switch fund	tion				Switch actuators
			- A	Trigger	Group +	Switch actuator 1 C3 Switch actuator 1 C4
1. First floor					Central Off	Sensors
\sim					Panic	Binary input 3 C1
Ê						Binary input 3 C2
Bedroom	Dimming fu	inction				Binary input 3 C3
	õ	Dimming actuator	1	Trigger	Group +	Binary input 3 C4
	· · · · · · ·				Central Off	Binary input 3 C5
					Panic	Binary input 3 C6
					- Conte	Push button interface 2
Switching	Blinds func	tion				Push button interface 2
	ð	Blinds actuator	1	<u>></u>	Group +	Push button interface 2
Dimming				Trigger	Panic	Room sensor 1 C1
				Door contact	Palinc	Room sensor 1 C2
Blinds			· · · · · · · · · · · · · · · · · · ·	Door contact		Room sensor 1 C3
	Heating fur	nction				Room sensor 1 C4
Heating	ð	Heating actuator		Sensor >	Group	
Sameaulikers						

On the right side, devices appropriate for the selected function are displayed.

4.2.2.1 Switching

Pull the appropriate channel, which is highlighted in grey (e.g. switch actuator 1 C1), of a switch actuator to the "Switch actuator" field.

\rightarrow	The parameter	window	of this	switch	function	is opened.
---------------	---------------	--------	---------	--------	----------	------------

	theben L	JXORplug	
Heating function			_
Heet Heet	CUXORplug Edit actuator	×	Gro
Blinds function	_{Name} Ceiling lamp		Gro —
	_{Type} Switch actuator		Par
	System name Switch actuator 1 C2 Parameters	× □	
Switch function	Application Switch-on delay (mm:ss)	Schalten V	Gro
Switch function	Switch-off delay (mm:ss)	00:00	Centr Par
Swit Ceil			Gro
Dimming function	OK	Cancel	Par
Dimmi	ing actuator	Tripper	Gro

In the parameter window, the function can be named and various parameters can be set.

Applications

Switching:	Switching on/off with optional time delay
Cellar light:	Switching on/off with additional automatic switch-off after the
	set time (with switch-off pre-warning as an option)
Staircase light:	Switching on with automatic switch-off after the set time. (with switch-off pre-
	warning as an option)

Afterwards, a "trigger" can be assigned to the switching channel.

		theben	LUXORplu	9		
	Heating function					
	Hest	2 LUXORplug			×	Group
		Edit sensor				
	Blinds function	Name				Group
	Ö	Ceiling lamp				+
		System name			à	Panic
		Push button interface 1 C4 Parameters				
_				Taster	~	
	Switch function	Туре		laster	`	
	Swit					Group
	È Flo					+
						Central Of Panic
	Switch function					
	Swit					Group
	Ceil		G			+ Central Of
	l	0K		Cancel		Panic
	Dimming function					

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In the parameter window, the function can be named and various parameters can be set.

Туре	
Button:	Toggling function with each press of the button
Motion detector:	"Switch" function (rising edge = On / falling edge = Off)

- ➢ Click on the "Group" field.
- \rightarrow The window with the central and group functions is opened.

Heating function						-
<u>×</u>	ating actuator Heating	2 LUXORplug		×	- >	Group
Blinds function		Group switching				
8	nds actuator Blinds	Creating a new group		+	-	Group +
		New group name				Panic
		Corresponding groups		ò		
		Central Off		✓	i -	
Switch function		Panic		✓		
8	itch actuator loor lamp	Twilight	Mornings Off			Group +
		Twilight	Evenings On		1	Central C
					1	Panic
Switch function						
8	itch actuator					Group
Cei	iling lamp					+
		ОК	Cancel			Central C
	l	UK .	Concer		J.	🔓 Panic
Dimming function						

Here, the channel can be integrated into existing group functions, and own groups can be added. The thresholds for twilight functions can be set in the settings of the weather station.

A "trigger", e.g. the channel of a button interface, can be drawn on a group function and thus be triggered with this participant.

ig function					
	Heating actuator	2 LUXORplug		\sim	1.
	Heating			×	>
function		Group switching			
	Blinds actuator	Creating a new group			
	Blinds	creating a new group		1	-
	Dimos				
		New group name			-
		Corresponding groups		Ď	
		Central Off	Push button interface 2 C2		
	_		Push button Interrace 2 C2		
function		Panic		✓	_
	Switch actuator	Twilight	Mornings Off]
	Floor lamp		5	_	
		Twilight	Evenings On		
					ii
function					
	Switch actuator				<u>،</u> ک
	Ceiling lamp				-
		ОК	Cancel		1
na function					

4.2.2.2 Dimming

- > Pull the appropriate channel of a dimming actuator to the "Dimming actuator" field.
- ightarrow The parameter window of this dimming function is opened.

Binds function Binds				theben LUXORplug)		
Image: Sector of the sector of th	-	Heating function					
Binds function Binds function Binds function Binds function Couch Type Dimming actuator System name Dimming actuator 1 C1 Switch function Fit Dimming time Couch Couc			Hest H			×	Gro
Lamp Couch Type Dimming actuator System name Dimming actuator 1 C1 Switch function Fit Ceri Dimming time Switch function Switch function Dimming stunder Dimming stunder Dimming function Dimming function Dimming stunder Dimming stunder Dimming function Switch f		Blinds function	Edit actuator				
Lamp Louch Type Dimming actuator System name Dimming actuator 1 C1 Parameters Switch function Switch function Switch function Switch function Switch function Switch function Dimming time Cen Dimming value Dimming value Dimming function Dimming fun		8	Blin Name				Gro
Type Dimming actuator System name Dimming actuator 1 C1 Switch function Fit Load selection Auto Fit Dimming time 6 s Witch function Switch function Switch function Switch function OK Cancel Dimming setuator Lamp Couch			Lamp Couch				– Pa
Switch function Switch function Fit Dimming actuator 1 C1 Parameters Load selection Auto Fit Dimming time Switch function Switch function Switch function Switch function Switch function OK Cancel Dimming function							Fa
Switch function Auto Cent Switch function Dimming time 6 s Cent Switch function Image: Switch function Image: Switch function Image: Switch function Dimming function OK Cancel P Dimming function Image: Switch function Image: Switch function Image: Switch function Dimming function Image: Switch function Image: Switch function Image: Switch function				C1		Ä	
Image: Construction Auto Fit Dimming time Switch function 6 s Switch function 10% ~ Ceri 0K Dimming function Dimming setuator Tinger Lamp Couch		Switch function					
Switch function Switch function Switch function Switch function Cen OK Cancel P Dimming function Dimming setuater Trigger Lamp Couch Cen Cen Cen Cen Cen Cen Cen Ce		ð	l nad selection		Auto	~	Gro —
Switch function 10% ~ Switch function 0K OK Cancel Dimming function Dimming seturator Imp Couch			Dimming time		6	s 🗸	Centr
Switch function			Minimum dimming va	alue	1	0% ~	Pa
Ceri Ceri OK Cancel P Dimming function Cancel P		Switch function					
OK Cancel p Dimming function Cancel p Dimming scluster Lamp Couch		õ					Gro —
Dimming function Dimming setuator Lamp Couch Lamp Couch							Centr
Dimming actualer Trigger C Lamp Couch Lamp Couch			ОК		Cancel		Pa
Lamp Couch		Dimming function					
Trigger		ò	Lamp Couch	Lamp Couch		> 	Gro Centr

In the parameter window, the function can be named and various parameters can be set.

Load selection	
Auto:	The connected load type is automatically detected by the dimming channel.
Inductive:	Dimming channel operates with leading edge control
RC load:	Dimming channel operates with trailing edge control
ESL-L and ESL-RC:	Settings for dimmable energy-saving lamps /
	Compact fluorescent lamps
Dimming time:	The dimming time defines the dimming speed for the complete
	dimming range 0100 %
Minimum dimming value	e: Adjustment to the connected lamp. If the
	lamp flickers, e.g. with dimming values < 10 %, the minimum dimming
	value has to be limited to 10 %.

Afterwards, a "trigger" can be assigned to the dimming channel.

	theben	LUXORplug	
Heating function			
ő –	Heed LUXORplug		×
Blinds function	Edit sensor		
ě	Blin Name		
	Lamp Couch		
	Туре		
	Push button		
	System name Push button interface 2 C1		à
Switch function			
õ	Swit		
	Flc		
Switch function			
à	Swit Ceil		
	Cen		
	ОК	Cancel	
Dimming function			
8	Dimming actuator	Trigger	>

In the parameter window, the function can be named.

- ➢ Click on the "Group" field.
- \rightarrow The window with the central and group functions is opened.

		theba	n LUXORplug		
Heating fun	ction				
ð	Heating actuator Heating	2 LUXORplug		× - >	Grou
Blinds funct		Group switching			-
	Blinds actuator Blinds	Creating a new group		+]-	Group +
		New group name			Pani
		Corresponding groups		õ.	
		Central Off			
Switch func	tion	Panic		<	
ð	Switch actuator Floor lamp	Twilight	Mornings Off		Grou
		Twilight	Evenings On		Central
				3	Pani
Switch func	tion				
ò	Switch actuator Ceiling lamp				Group +
	connig terrip				Central
		ОК	Cance	i j	Pani
Dimming fu					
õ	Dimming actuator		Trigger Lamp Couch	<u>></u>	Group +

Here, the channel can be integrated into existing group functions, and own groups can be added. The thresholds for twilight functions can be set in the settings of the weather station.

A "trigger", e.g. the channel of a button interface, can be drawn on a group function and thus be triggered with this participant.

4.2.2.3 Blinds

- > Pull the appropriate channel of a blinds actuator to the "Blinds actuator" field.
- \rightarrow The parameter window of this blinds function is opened.

	theben LUXORplug		
Heating function			
He	🗟 LUXORplug	×	Group
Blinds function	Edit actuator		
	Name Blinds		Group +
	_{Type} Blinds actuator		Panic
	System name Blinds actuator 1 C1	Ö	
Switch function	Parameters		
5 SM		Jalousie 🗸	Group +
	Runtime (mm:ss)	00:30 //	Central Off Panic
Switch function	Time for a turn	0.4 s 🗸 🗸	
Switch Toliction			Group
	Wind threshold	Threshold 1 V	Central Off
	OK	Cancel	Panic
Dimming function			
Dim	mino actuator		Group

In the parameter window, the function can be named and various parameters can be set.

Application "blinds"

2 LUXORplug	×
Edit actuator	
Parameters	
Application	Jalousie 🗸
Runtime (mm:ss)	00:30
Time for a turn	0.4 s 🗸
Participation wind alarm	
Wind threshold	Threshold 1 🗸
Participation in frost	
Response to frost	Schließen 🗸
Participation in rain	
Response to rain	Schließen 🗸
ОК	Cancel

For each blinds channel, the entire runtime, the time for a turn (step), as well as the participation in functions of the weather station can be set individually. **Application "roller blinds"**

2 LUXORplug	×
Edit actuator	
System name	ň
Blinds actuator 1 C1	
Parameters	
Application	Rollladen 🗸
Runtime (mm:ss)	00:30 🥒
Participation wind alarm	
Wind threshold	Threshold 1 V
Participation in frost	
Response to frost	Schließen 🗸
Participation in rain	
Response to rain	Schließen 🗸
ОК	Cancel

For each roller blind channel, the entire runtime, as well as the participation in functions of the weather station can be set individually.

Application "awning"

2 LUXORplug	×
Edit actuator	
System name Blinds actuator 1 C1	Ň
Parameters	
Application	Markise 🗸
Runtime (mm:ss)	00:30 🥒
Tighten fabric	
Participation wind alarm	
Wind threshold	Threshold 1 V
Participation in frost	
Response to frost	Schließen 🗸
Participation in rain	
OK .	Cancel

For each awning channel, the entire runtime, a canvas tightening, as well as the participation in functions of the weather station can be set individually.

Afterwards, a "trigger" can be assigned to the awning channel.

	theben LUXORplug]		
Heating function				
õ	LUXORplug		×	Group
Blinds function	Edit sensor			
	am Name Blinds			Group + Panic
	_{Type} Push button			Panic
	System name Push button interface 1 C1		Ŏ	
8	Swit			Group
	Fic			Central (
				Panic
Switch function				
<u>×</u>	swit Cell			Group +
				Central (
	OK	Cancel		Panic
Dimming function				
	imming actuator Trinner		>	Group

For controlling blinds, roller blinds, or an awning, two inputs are necessary (Up/Down). This input pair will be assigned automatically. The first trigger that is assigned must have an odd channel number (C1, C3, C5, C7), and the second trigger will be added automatically (C2, C4, C6, C8).

In addition, a "door contact" can be assigned to the blinds channel. The door contact prevents automatic travel with an open door or window.

2 LUXORplug		×
Edit sensor		
Name Binary input 3 C1		
_{Type} Push button		
System name Binary input 3 C1		Ň
Parameters		
Action if contact is closed	Tür offen	\sim
ОК	Cancel	

The setting "Operation with closed contact" depends on the contact used (NO contact (NO) or opening contact (NC)).

- ➢ Click on the "Group" field.
- \rightarrow The window with the central and group functions is opened.

		thebe	n LUXORplug			
Heating function						
ő	Heating actuator Heating	2 LUXORplug		×	- >	Group
Blinds function		Group switching				
ő	Blinds actuator Blinds	Creating a new group		+	-	Group
		New group name				Panic
		Corresponding groups		ò		
		Panic		✓	l	
Switch function		Sun protection	Sensor front			
<u>ő</u>	Switch actuator Floor lamp	Sun protection	Sensor right		-	Group +
		Sun protection	Sensor left			Central Off
		Sun protection	Maximum value		3	Panic
Switch function		Twilight	Mornings Up			
ő	Switch actuator Ceiling lamp	Twilight	Evenings Down) 	Group +
		ОК	Cance	21	[Central Off Panic
Dimming function						

Here, the channel can be integrated into existing group functions, and own groups can be added.

The thresholds for sun protection or twilight function can be set in the settings of the weather station.

A "trigger", e.g. the channel of a button interface, can be drawn on a group function and thus be triggered with this participant.

4.2.2.4 Heating

- > Pull the appropriate channel of a heating actuator to the "heating actuator" field.
- \rightarrow The parameter window of this heating function is opened.

		theben LUXORplu	Ig		
He	eating function				
ð	Heat Heat	2 LUXORplug		×	Group
BI	inds function	Edit actuator			
Ď	Blin	Name			Group +
		Heating			Panic
		Type Heating actuator			
		System name Heating actuator 1 C1		Ř	
Sv	vitch function	Parameters			
ð	Swit Flo	Control for	Heizen	~	Group +
		Heating installation type	Radiator	~	Central Off
					Panic
	vitch function Swit				Group
ð	Ceil				+
		ΟΚ	Cancel		Central Off
	l		Concer		Panic

In the parameter window, the function can be named and various parameters can be set.

The control supports the operating mode "Heating", as well as "Heating and cooling". The installation type can be set for each operating mode.

Installation type heating:

Radiator: For fast acting heating systems, such as radiators or blower heaters Floor: For slow acting heating systems, such as water-using underfloor heatings

Installation type cooling:

Cooling ceiling: For slow acting cooling systems, such as water-using cooling ceiling Fan coil: For fast acting cooling systems, such as fan coil unit

Subsequently, a "Sensor" can be assigned to the heating channel.

	theben LU	XORplug		
Heating function				
Heat Heat	2 LUXORplug		×	Group
Blinds function	Edit sensor			
Blin	_{Name} Room temperature sensor			Group +
	_{Type} Room sensor			Panic
	System name Room temperature sensor 1		ò	
Switch function	Min cotooint		10 °C 🗸	Group
Fit	Max. setpoint		30 °C ∨	Central Off Panic
Switch function	Calibration value		0 K 🗸	
Cei				Group +
	ОК	Cancel		Central Off Panic
Dimming function				

In the parameter window, the function can be named and various parameters can be set.

Apart from limiting the minimum and maximum permissible set temperature, a room calibration can be performed. Room calibration allows a subsequent adjustment of the temperature measurement.



- ➢ Click on the "Group" field.
- ightarrow The window with the central and group functions is opened.

		Эхокрійд	
Heating function			
Heating actual Heating actual Heating		×	> Group
Blinds function	Group switching		
Blinds actual	or Corresponding groups	ò	Group +
	Heating/cooling		Panic
			F
Switch function			
Switch actua			Group
			Central Off
			Panic
Switch function	tor		
Ceiling la			+
	ОК		Central Off Panic
Dimming function			

In control type "Heating and cooling", a "trigger", e.g. a channel of a button interface, can be drawn on the "Heating/cooling" group function, and the configuration type can be set.

	theben L	JXORplug	
Heating function			
He	H 2 LUXORplug	×	Group
	Edit sensor		Heating/cooling
Blinds function	Name Binary input 3 C2		Group +
	Type Push button		Panic
	System name Binary input 3 C2	Ň	G
Switch function		Heizen 🗸	Group + Central Off Panic
Switch function			Group +
	ОК	Cancel	Central Off Panic
Dimming function			Panic

4.2.2.5 Scene

The scene function can be used to assign inputs, e.g. a channel of a button interface, for triggering saved scenes.

The participants and operations of the scenes are completely added and configured in the LUXORplay app.

After adding a scene trigger, a trigger (e.g. a channel of a button interface) can be connected.

		LONORPIUG	
	Blinds actuator Blinds	Trigger Blinds Blinds	→ G → Pa
Switch func	Edit sensor Name	face 2 C2	
Switch func	Switch act Floor la System name Push button interf	ace 2 C2	G Cent
õ	Switch act Ceiling I		G - Cent Pa
Dimming ful	Dimming as Lamp Cc		G Cent Cancel Pa
Szeneauslös	Sers		
ð	Szeneauslösers Auslösers 1 Living room	Trigger Push button interface 2 C2	



4.2.3 Weather station

If a weather station was loaded or added to a device list, it will be displayed in the room view under "Central services".

Eile Help							
Home		t	heben LUXORplu	p			
	_		+	õ	1		
0	Central services						
I⊒I ← S Rooms	Ť						
←	Weather station						
÷	1. First floor						
	Ă	-		<u>ې</u>			
	Corridor	Bedroom	Bathroom	Children's room			
	Ground floor						
		79	ť	ήÅ	Ă	Ţ	
	Living room	Dining room	Kitchen	Lavatory	Corridor (1)	Storage room	

- > Click on the "Weather station" field.
- \rightarrow The parameter window is opened.

The following functions can be set:

Wind	Threshold 1 and threshold 2
Frost	
Twilight	In the morning OFF, in the evening ON, in the morning UP, in the evening
	DOWN
Sun protection	Sensor at front, sensor right, sensor left, maximum value

4.2.3.1 Wind

2 LUXORplug	×
Edit weather station	
Wind Wind alarm down Switch-off delay wind alarm	Threshold 1 → Threshold 1 Threshold 2 10 min →
Frost Frost alarm Hysteresis	5°C ∨ 1K ∨
Twilight	Mornings OFF V
Switching threshold	10 lx 🗸
Delay when brightness increases	2 min. 🗸
ОК	Cancel

For each wind channel (threshold 1 and threshold 2), wind speed and switch-off delay can be set individually. The wind speed has to be set after consulting the technician or manufacturer of the hangings.

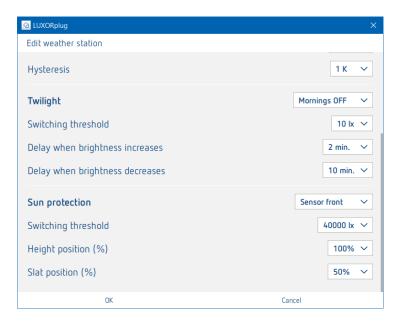
A larger switch-off delay minimizes the frequency of travel and thus provides a calm facade. Participation and operation in case of wind alarm can be set for each blinds function individually in room view.

4.2.3.2 Frost

図 LUXORplug	Х
Edit weather station	
Wind Wind alarm down	□ Threshold 1 ✓ 6 m/s ✓
Switch-off delay wind alarm	10 min 🗸
Frost	
Frost alarm	5 °C 🗸
Hysteresis	1К 🗸
Twilight	Mornings OFF 🗸 🗸
Switching threshold	10 lx 🗸
Delay when brightness increases	2 min. V
OK	Cancel

The "Frost" function prevents the automatic lowering of hangings when there is a risk of frost and allows the performance of a defined action in case of frost alarm. Participation and operation in case of frost alarm can be set for each blinds function individually in room view.

4.2.3.3 Twilight



The "twilight" function includes four different dimming functions. In room view, each of these functions can be assigned individually to the switch, dimming, and blinds functions.

In the morning OFF:	This function can be used in connection with switch and dimming functions and allows an automatic switch-off if the set brightness value is exceeded.
In the evening ON:	This function can be used in connection with switch and dimming functions and allows an automatic switch-on if the brightness value falls below the set value.
In the morning UP:	This function can be used in connection with blinds functions and allows an automatic up travel (to the upper end position) if the set brightness value is exceeded.
In the evening DOWN:	This function can be used in connection with blinds functions and allows an automatic down travel (to the lower end position) if the brightness value falls below the set value.

For each function, the brightness threshold and the delay times can be set individually.

4.2.3.4 Sun protection

2 LUXORplug	×
Edit weather station	
Hysteresis	1 K 🗸
Twilight	Mornings OFF V
Switching threshold	10 lx 🗸
Delay when brightness increases	2 min. 🗸
Delay when brightness decreases	10 min. 🗸
Sun protection Switching threshold	Sensor front
Height position (%)	Sensor right Sensor left Maximum value
Slat position (%)	50% 🗸
OK	Cancel

The "Sun protection" function includes four different functions. In room view, each of these functions can be assigned individually to the blinds functions.

Sensor at front:	The sensor at the front of the weather station detects the brightness and
	carries out, for instance, the automatic shading control of the south facade.
Sensor right:	The sensor at the right side of the weather station detects the brightness and
	carries out, for instance, the automatic shading control of the east facade.
Sensor left:	The sensor at the left side of the weather station detects the brightness and
	carries out, for instance, the automatic shading control of the west facade.
Maximum value	All three sensors of the weather station detect the brightness. As soon as the measurement value of one of the sensors exceeds the set switching threshold, the set positions are approached.

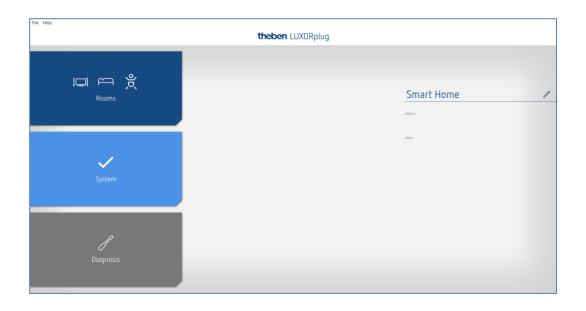
For each function, the position "height" and "slat" can be set in percentage values. The delay times are non-adjustable (exceeding: 3 minutes, falling below: 20 minutes).



4.3 Programming with LUXORplug

After the functions have been assigned to the rooms and set, the system can be programmed. This step is possible any time, even if only single functions have been added.

> For programming, open the **main menu**.

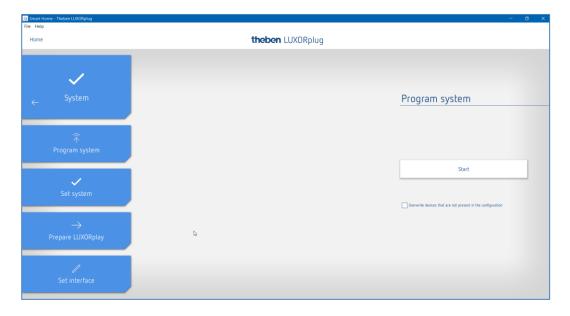


- Click on the "System" field.
- \rightarrow The submenu is opened.

nart Home - Theben LUXORplug Help		*		- 0
ome		theben LUXORplug		
	Device		Name	
	LUX0RIving S4	0	Switch actuator 1	
\sim	LUXORIving D2	Ø	Dimming actuator 1	
	LUXORIving J4	=	Blinds actuator 1	
	LUXORIving H6	8.	Heating actuator 1	
	LUXORIIving T4	34	Push button interface 1	
	LUXORIving T4	a r(Push button interface 2	
	LUXORIving B6	2(Binary input 3	
	LUXORIving M140	*	Weather station 1	
	LUXORINING R718	8	Room sensor 1	
✓ Set system				
→ Prepare LUXORplay				

> Click on the "Program system" field and then on "Start".

Here, you can also overwrite devices which have been installed, but not yet included in your project. This ensures that these devices do not disturb the functions included in the project.



At the first time, programming will take a little longer, since all device parameters have to be transferred. Subsequent programming is faster. Successful programming will be acknowledged.

After successful programming, the configured functions are available in the system.

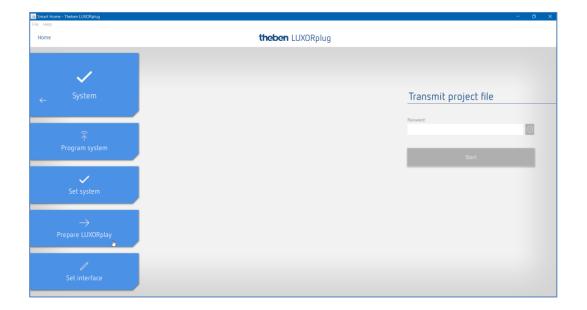
4.4 Prepare LUXORplay

In order for the **LUXORplay** app to be able to access the programmed functions, this has to be prepared in the "System" menu.

Click on the "Prepare LUXORplay" field and start the data transmission to the system centre.

For the transmission, a password for the administrator has to be defined (default password: $admin)^2$. The password can be changed or defined by clicking on the password settings.

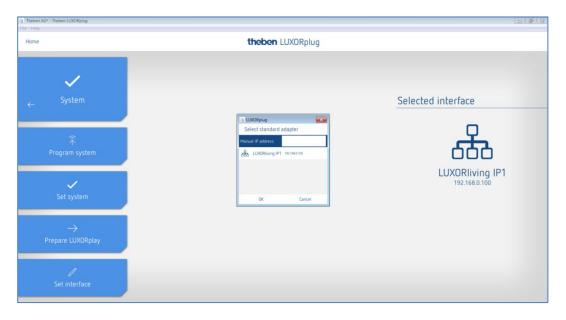
If the password gets lost, the LUXORIiving IP1 system control centre has to be reset with a master reset. This can be done directly at the device ("Reset" menu – "Master Reset"). Afterwards, the password can be created again via LUXORplug.



² In the LUXORplay app, the administrator has to authenticate himself with this password, in order to be able to create other users and define their rights as well as individual passwords for each user.

4.5 Set interface

Another function in the "System" menu allows the setting of the LUXORIiving IP1 system control centre. Principally, the system control centre is automatically detected. If this is not the case, the IP address of the connected system control centre can be entered manually in this menu. You can read the IP address of the system control centre in the display.



4.6 Diagnosis

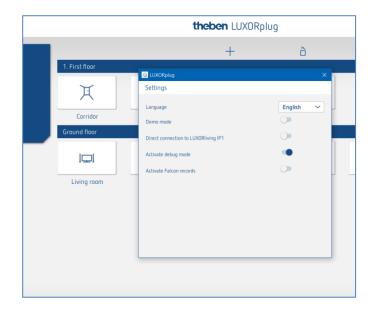
The "Diagnosis" menu allows a recording of the bus communication. This tool is intended to facilitate start-up and, if necessary, troubleshooting. The recording can be started, stopped and saved.

- > Click on the "Home" menu.
- \rightarrow The following window will open:

theben LUXORplug								
	Recording started	Stop recording	Save recording	Delete recording				
	Date / Time	Transmitter	Information					
K	13.12.2017 15:33:00	Switch actuator 1 C1	Switch status	Off				
	13.12.2017 15:33:00	Push button interface 1 C3	Switching Off					
Diagnosis :	13.12.2017 15:32:58	Push button interface 1 C2	Blinds Down					
	13.12.2017 15:32:56	Switch actuator 1 C2	Switch status Off					
	13.12.2017 15:32:56	Blinds actuator 1 C1	Slat status 0%					
	13.12.2017 15:32:56	Push button interface 1 C4	Switching Off					
	13.12.2017 15:32:55	Blinds actuator 1 C1	Height status 100%					
	13.12.2017 15:32:55	Push button interface 1 C2	Blinds increase					
	13.12.2017 15:32:54	Push button interface 1 C2	Blinds Down					
	13.12.2017 15:32:50	Push button interface 2 C1	Dimming dar	ker				
	13.12.2017 15:32:50	Push button interface 2 C1	Dimming brig	ghter				
	13.12.2017 15:32:42	Switch actuator 1 C1	Switch status On					
	13.12.2017 15:32:39	Switch actuator 1 C2	Switch status On					

5 Appendix

5.1 Debug mode



Debug mode can be activated by clicking five times on the free space. It is used for troubleshooting in the configuration.

In debug mode, the connected group addresses are displayed for each function if the cursor is placed on it.

		Trigger
		Door conta
	Switch function	
	Switch actuator Floor lamp	Trigger Floor lam
		Trigger
B	Switch function Satisfunction StatusOn0fr: 2/4 / 0 Dimmen%: 2/2/0	Trigger Ceiling lam
	Panik: 5/1/248 Schalten0n0ff: 2/0/0 ZentralAus: 5/1/249 Status%: 2/3/0 Dimming functiol DimmenRel: 2/1/0	Trigger
	Dimming actuator	Trigger Lamp Couc
		Trigger

In the "Device list" menu of the debug mode, you can also manually search for devices which are not included in the configuration or which have incompatible addressing.

Home		theben LUXORplug						
		H	ò	1	ர			
Device list	Device	Туре	Name					
	LUXORIiving S4 (9.9.14)	\bigcirc	Switch actuator 1					
	LUXORIiving D2 (9.9.6)	0	Dimming actuator 1					
	LUXORIiving J4 (9.9.10)	🙆 LUXORplug	×					
	LUXORIiving H6 (9.9.12)							
\leftarrow	LUXORIiving R718 (9.9.2)	(
	LUXORIiving B6 (9.9.13)		\prec					
	LUXORIiving T4 (9.9.5)							
	LUXORIiving T4 (9.9.4)	This specific search can find a product						
		which is not in fa start the search, p	ctory default. In order to					
		ОК	Cancel					