

**U.motion**

# **U.motion KNX Server Plus, Touch 10** **U.motion KNX Server Plus, Touch 15**

## **User Manual**

Art. no. MTN6260-0410 | MTN6260-0415

04/2014 VERSION 1.0.1



## GENERAL INFORMATION

### Schneider Electric SAS

If you have technical questions, please contact the Customer Care Centre in your country.

[www.schneider-electric.com](http://www.schneider-electric.com)

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Note: please read the manual **before** beginning and keep the manual for later use.

Audience: the manual has been conceived and written for users who are experienced in the use of PCs and automation technology.

## CONVENTIONS

[KEY]	Keys that are to be pressed by the user are given in square brackets, e.g. [CTRL] or [DEL]
Courier	On-screen messages are given in the Courier font, e.g. C:\>
Courier bold	input to be made by the user are given in Courier bold, e.g. C:\> <b>DIR</b> ).
„...“ (double quotes)	Names of buttons to be pressed, menus or other onscreen elements and product names are given within double quotes. (e.g. “Configuration”).
Symbolic	In this manual the following symbolic are used to indicate particular text blocs.
	<b>Caution!</b> A dangerous situation may arise that may cause damage to material.
	<b>Note.</b> Hint and additional notes

## **SAFETY INSTRUCTIONS**

The present operating instructions contain those safety instructions that are required to safely operate the machine.

All persons working with the machine must heed the present operating instructions, especially the safety instructions.

In addition, all local stipulations governing the prevention of accidents must be heeded.

Only trained and authorized personnel may install and operate the machine.

Proper application: The machine has been designed for application in a building environment.

The machine meets the requirements of the EMC guidelines and of the harmonized European standards. Modifications to the machine hardware may affect the system's EMC compatibility.

Without special protection measures, the machine must not be used in EX areas and in plants that require special monitoring.

Danger of explosion. Do not expose the buffer batteries to heat. Serious injury may be the result.

The operating voltage of the machine must be within the specified range! The product label provides the required information.

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# 1 GENERAL OVERVIEW

## 1.1 INTRODUCTION

U.motion KNX Server Plus Touch is a touch panel for the supervision and visualisation of home & building automation systems, which have been realized on the basis of the worldwide KNX standard. U.motion KNX Server Plus Touch allows managing of all functions of the system locally through its display or also remotely through U.motion Client Touch 7, tablets and smartphones of the last generation, within the same network or remotely via internet.

## 1.2 REQUIREMENTS

This manual contains all the important information necessary to operate correctly on U.motion KNX Server Plus Touch within the own system; nevertheless, it is assumed that U.motion KNX Server Plus Touch has first been correctly configured from the installer by following the INSTALLATION MANUAL.

The instructions in this guide refer to the usage of U.motion KNX Server Plus Touch directly on the touch screen of the device itself, if not noted differently. For the access from mobile devices the usage of the U.motion Control app is recommended. For remote control and programming purposes one access from a PC / MAC is possible (multiple accesses from different PCs / MAC is not supported). In this case the following browsers can be used:

- GOOGLE CHROME (recommended, guarantees maximal compatibility)
- APPLE SAFARI

The usage of the following browsers is not recommended, since their compatibility can't be fully granted:

- MICROSOFT INTERNET EXPLORER
- OPERA
- MOZILLA FIREFOX

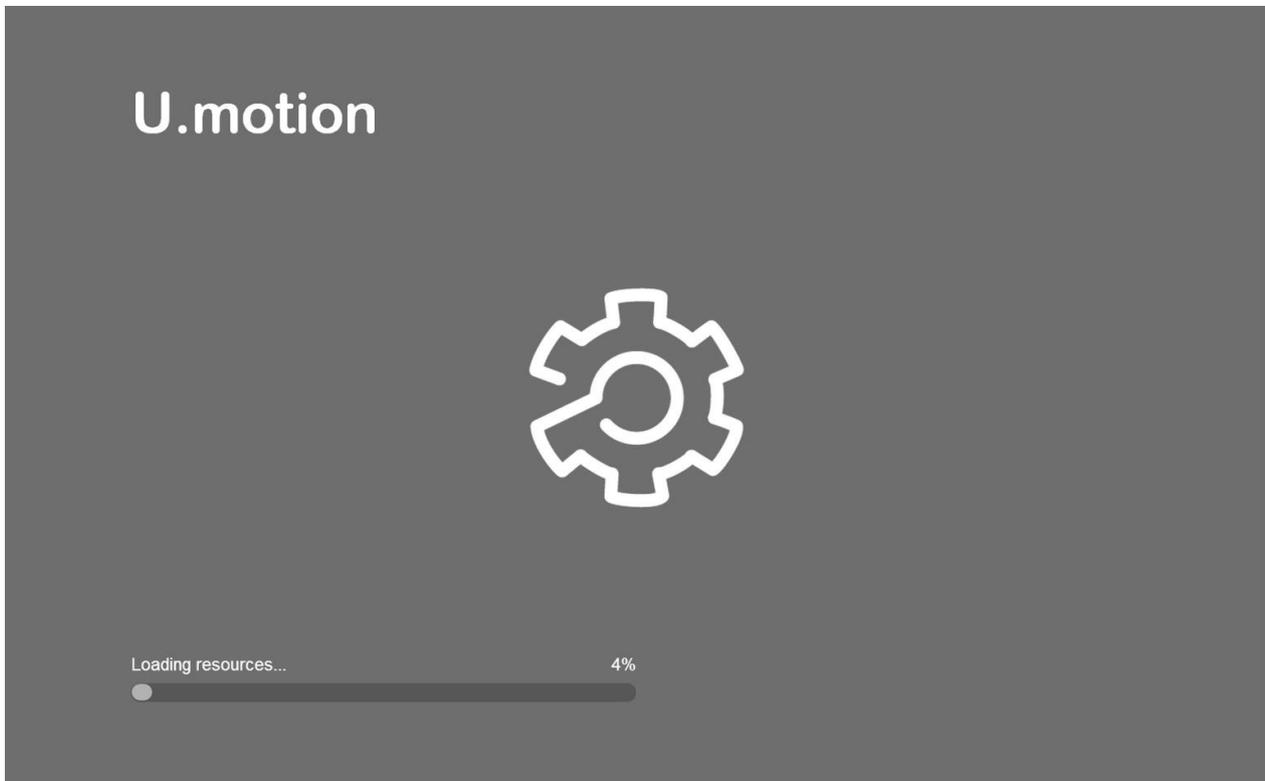
In order to access the visualisation locally, make sure your own PC / MAC is connected to the same network as U.motion KNX Server Plus Touch (also via Wi-Fi, if the network supports it). However, if you want to access to U.motion KNX Server Plus Touch via internet, the local network must be configured to support a remote access via *port forwarding*. In both cases, specific addresses must be known:

- For local access: the IP address of U.motion KNX Server Plus Touch within the network
- For remote access via internet: the public IP address of the network to which a connection should be established

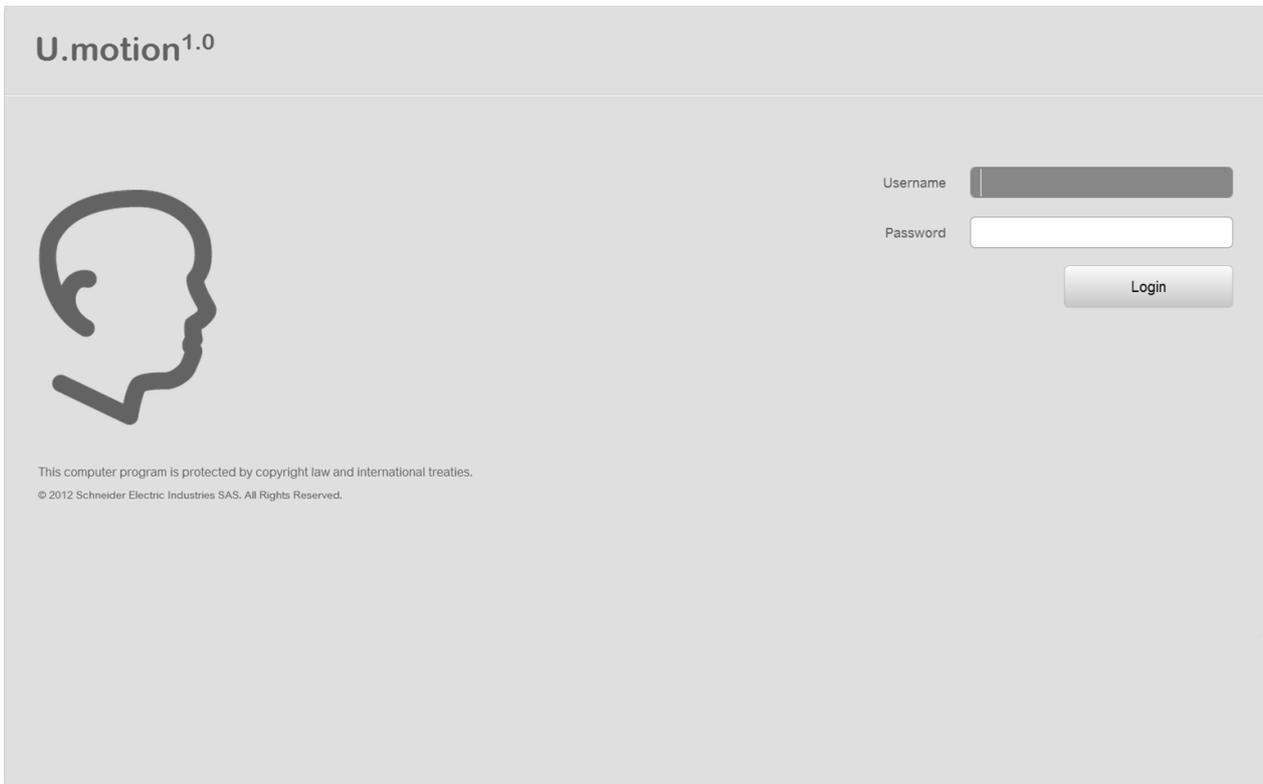
These parameters are defined by the installer or network administrator (if present) during the configuration of U.motion KNX Server Plus Touch and can be obtained from them.

## 1.3 FIRST ACCESS

After the startup of U.motion KNX Server Plus Touch he will connect autonomously to the visualization. After some seconds a loading screen will appear. On the first access, the different information is loaded into the local cache and stored there (HTML-client cache, DB-client cache). These information are used later to navigate in the visualisation and to command the different objects, by preloading this information is the future access accelerated and the operating is nearly at real time. Even if the browser is closed or the device is restarted the cache will be kept and no reloading is needed. The different cache technologies can be disabled if it is wanted, detailed information on how this is realized can be found in the installation manual.



If not configured in another way, because of special situation, U.motion KNX Server Plus Touch will do an automatic login into the visualization on start up. If for a special reason U.motion KNX Server Plus Touch must be password protected, after booting and loading the cache, the following screen will appear on U.motion KNX Server Plus Touch:



Highlight the box under "USERNAME" and enter the user with which you want to login. Select the field under "PASSWORD" and enter the password corresponding to the entered user name. Finally click on LOGIN in order to access the visualisation. With the option "REMAIN CONNECTED", the login information can be saved and on the next access the login will be skipped and the login will be made automatically. If it is wanted to login on every access the option can be disabled by unchecking the box.

A software keyboard will appear on the screen, through which username and password can be entered on the touch screen of U.motion KNX Server Plus Touch (with the finger).

The same screen will be shown, if an access on U.motion KNX Server Plus Touch is done for remote control or programming from a PC/MAC. For such purposes a login on the system by entering username and password is always required.



The credentials of U.motion KNX Server Plus Touch will be defined by the installer and can be obtained from him. The factory-set login credentials are:

Username	Password	Description
user	user	Basic user: can use the visualisation of U.motion KNX Server Plus Touch, but has only very limited access to the configuration of U.motion KNX Server Plus Touch. This user is configured by default for the automatic login on the system directly on U.motion KNX Server Plus Touch.
manager	manager	User with access to the most configuration parameters of U.motion KNX Server Plus Touch, but not to the administrative configurations
admin	admin	System administrator: has full access to the visualisation and configuration.

*Hint: If not defined differently by the installer, usernames and passwords are configured in LOWER CASE letters.*

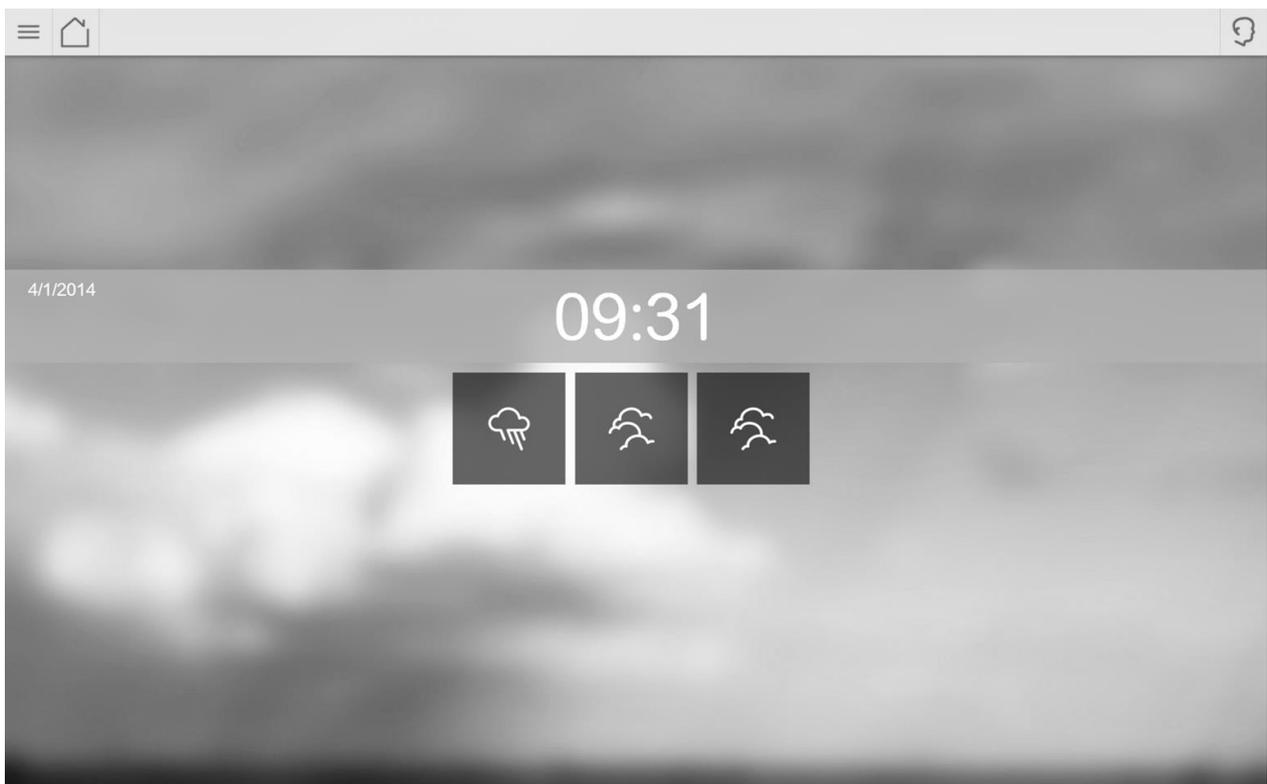
## 1.4 GRAPHICAL THEMES

U.motion KNX Server Plus Touch provides several THEMES for the graphical interface of the visualisation. The different THEMES offer the same functionality and the same layout, but differ in color, symbols, etc. The desired THEME can be set in the configuration area of U.motion KNX Server Plus Touch, as described in the INSTALLATION MANUAL. The following screenshots show the HOME page of the visualisation area in different THEMES:



## 1.5 VISUALISATION LAYOUT

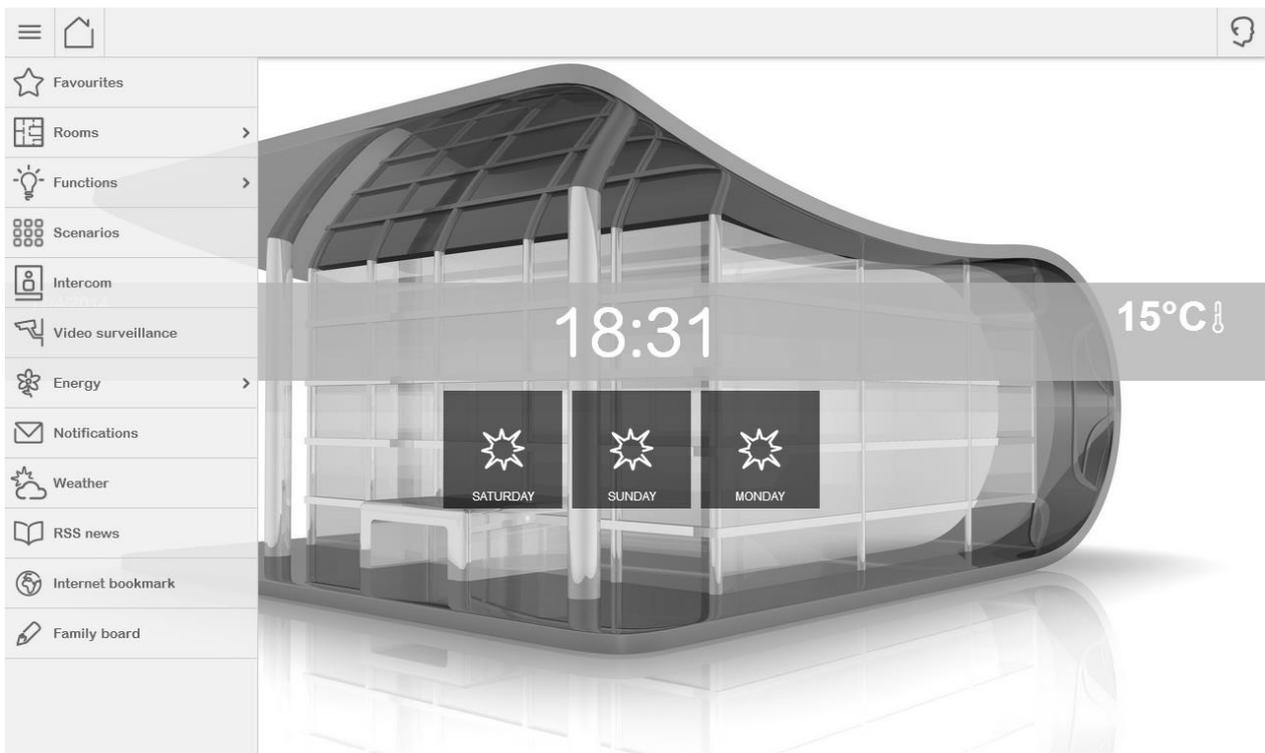
Once logged in, the HOME screen will be shown:



The HEADER at the top of the page contains the following elements:

- Logo of U.motion Control
- HOME button, allows a quick return to the HOME page from every page
- 
  - Button to show/hide the NAVIGATION MENU:
    - NAVIGATION MENU is closed, a click on this button opens it
    - NAVIGATION MENU is open, a click on this button closes it; furthermore a swipe gesture to the left over the navigation menu can be used to close it.

The NAVIGATION MENU appears on the left side of the screen and - as mentioned above - can be shown or hidden by using the corresponding button:



The button in the upper right corner permits to open a context menu with the following options:


 Starts the cleaning mode. All inputs on the screen of the client device are ignored for 30 seconds; the glass of a touch screen can be cleaned easily without have to fear unwanted actions in the visualisation. This option is only available when it is enabled in the ADMINISTRATION of U.motion KNX Server Plus Touch; detailed information can be found in the U.motion KNX Server Plus Touch INSTALLATION GUIDE.


 Permits to access the ADMINISTRATION (configuration area) of U.motion KNX Server Plus Touch, as explained in the INSTALLATION GUIDE


 Performs the logout of the current user and in this way permits to login with another user

## 1.6 HOME PAGE

In addition to the already presented elements, the HOME page of the visualisation also offers the following information:

- Current WEATHER data and forecasts for the next two days (requires that an active internet connection is available and that the locality for the weather information has been set correctly in the U.motion KNX Server Plus Touch configuration)
- Date and time synchronized with the values of U.motion KNX Server Plus Touch
- The configured entries within the navigation menu

If the WEATHER function has been configured correctly, the background image of the HOME page is updated depending on the current weather data. Alternatively, a static background image can be configured.



All elements of the HOME page can be hidden / shown through the configuration area of U.motion KNX Server Plus Touch, as described more in detail within the INSTALLATION MANUAL. For this reason, the HOME page can also appear in a different way, if the installer previously changed these parameters.



If the displayed time / date are not congruent with the values of your PC / MAC, please make sure that the values have been set correctly in U.motion KNX Server Plus Touch; the time can be set either manually or – if an internet connection is available - it can also be synchronized automatically. More information can be found in the INSTALLATION MANUAL.

## **2 ROOMS**

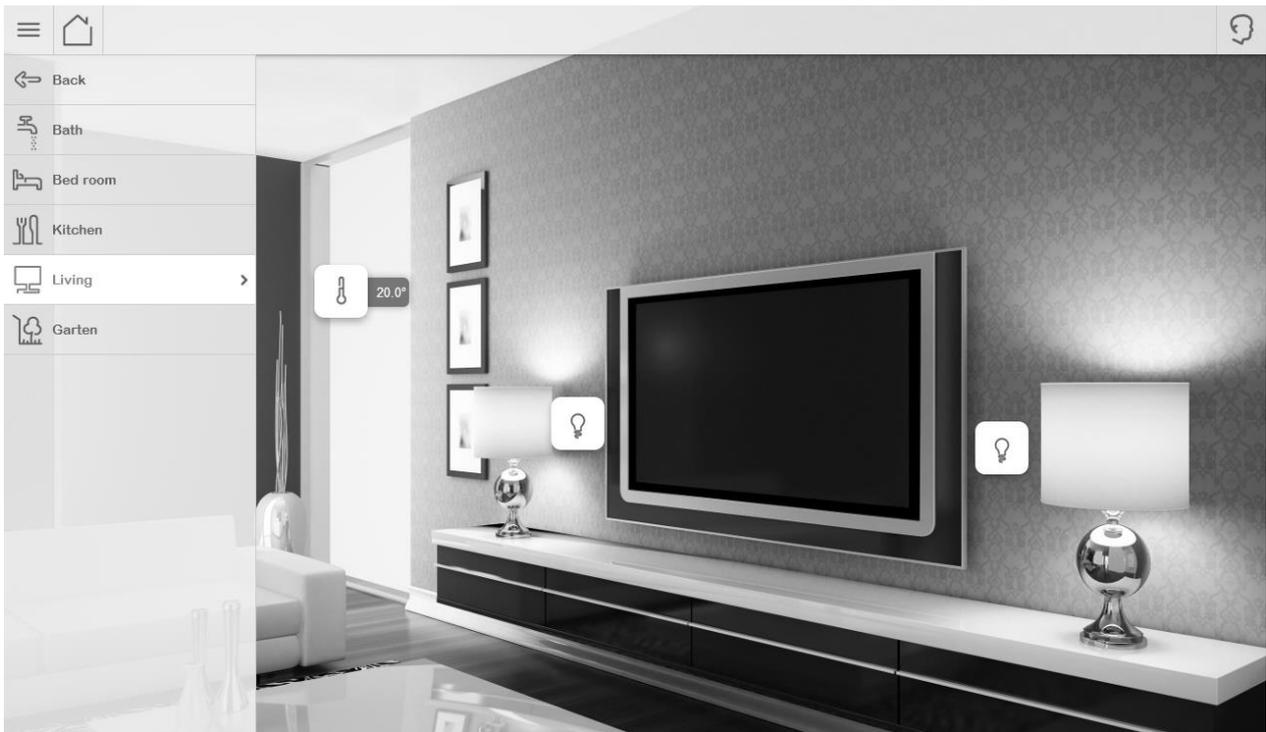
### **2.1 INTRODUCTION**

U.motion KNX Server Plus Touch allows navigation structured in rooms, through which all functions of the system can be accessed. The individual pages must be created by the installer in the configuration area of the U.motion KNX Server Plus Touch, as described in the INSTALLATION MANUAL. The rooms are freely configurable and therefore they can also contain functions, which in the installation must not necessarily be part of the selected room. For detailed information about the different rooms and the included functions present in your project, please contact your installer.

### **2.2 NAVIGATION BETWEEN DIFFERENT ROOMS**

Depending on the amount and type of the rooms in the visualisation, the navigation can be structured in one or more levels; if only one level is used, all created rooms are listed in the "ROOMS" entry in the NAVIGATION MENU.

In this case, if an entry is selected, the corresponding room is displayed and the NAVIGATION MENU is closed:

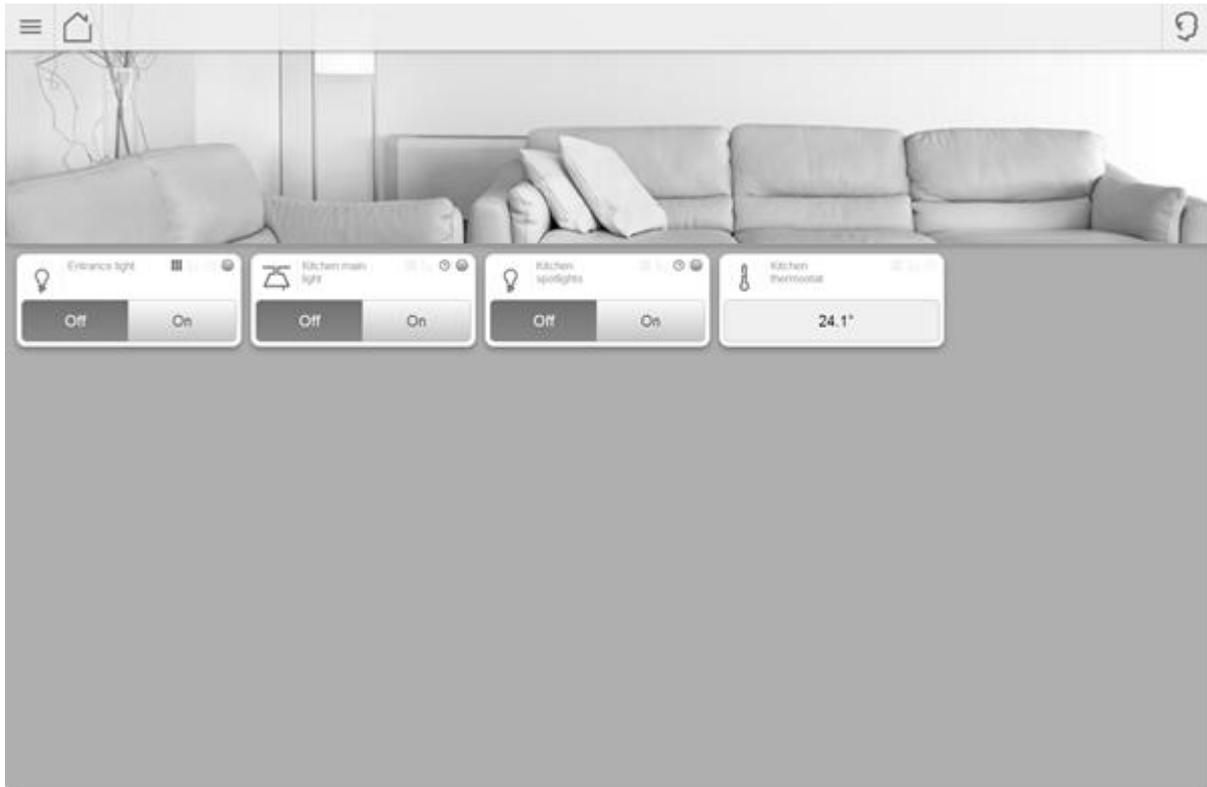


By reopening the menu and clicking on the BACK button it is possible to return to the list of the rooms and from there, either another room can be selected or alternatively it is possible to return back to the main menu (in this case the HOME page is displayed).

If the visualisation instead is structured on multiple levels, the NAVIGATION MENU will show a list of "sub-rooms" when a main room is opened. If the chosen room contains graphic content, it is displayed and the contained functions can be accessed immediately. If no content has been defined, the NAVIGATION MENU will show the contained rooms, while the content of the displayed page will not change. Also here, by clicking on the BACK button it is possible to navigate back to previous pages / menus.

## 2.3 ROOMS IN GRID VIEW

The room pages can represent the configured content in different ways. The most common view mode is the GRID view, which lists the contained objects in tabular form. The GRID view can also include an image file, which can be placed either on top, on the left, on the right side or as background of the page:



**ROOM IN GRID VIEW WITH IMAGE ON TOP**



**ROOM IN GRID VIEW WITH IMAGE ON THE RIGHT**

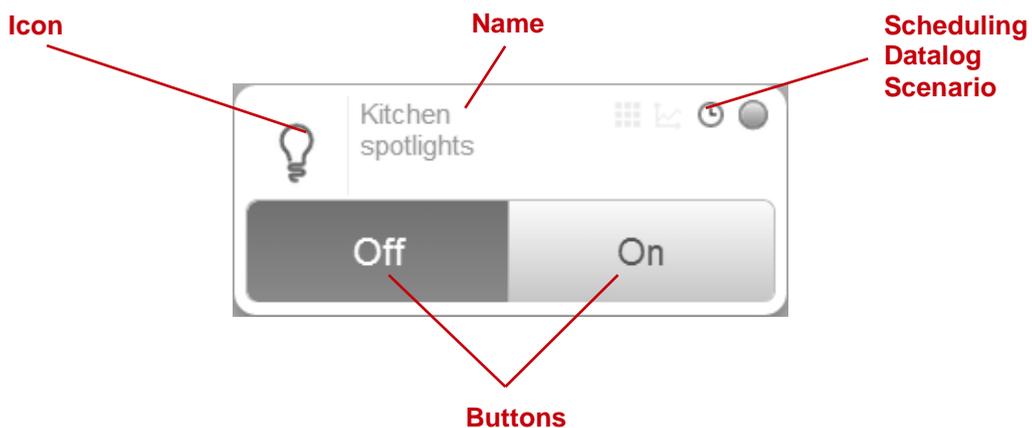


**ROOM IN GRID VIEW WITHOUT IMAGE**

In all variants of the GRID view the objects are automatically positioned within the available space: depending on the window width, more or less columns are displayed. For this reason, the representation of the same page can vary from device to device because of the different screen resolutions, since the objects are arranged depending on the window width. This has the advantage that you don't have to worry about adapting the pages for different resolutions.

In the GRID view the functions are displayed within a "box", which provides a series of information and buttons. Depending on the object type and the configuration made by the installer, the boxes can be shown in a different way, in order to meet best the requirements for the single operations.

The graphic of the box of a "Light On/Off" function is shown below:

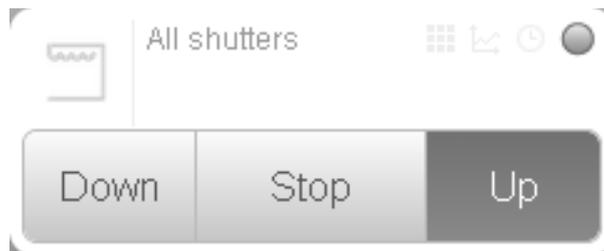


The ICON represents the intended purpose of the object in a graphical way and changes depending on the current state of the object (on, off, open, close etc.). The NAME describes the function of the object and allows an easy identification of the function within the system.

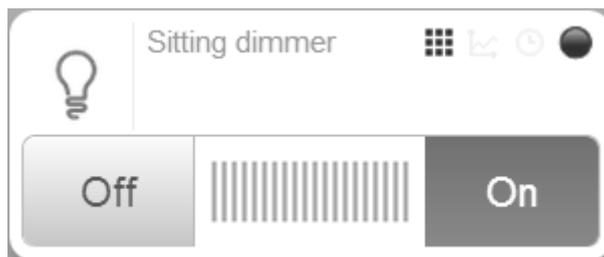
The STATUS-ICONS on the right show information about the object itself:

- Scheduling: active when the object is associated with a time schedule and is therefore controlled by a timer
- Datalog: active when the object is logged and a graphic history of the object is traced
- Scenario: active when the object is part of a scenario and is controlled together with other objects

In the lower part of the box some BUTTONS can be found, through which the object can be controlled. Those are directly dependent on the object type: the previous example of the "Light On/Off" function has buttons to turn on or off the associated light (the button that corresponds to the active state is highlighted). In the case of blinds or – more in general - motor controls, three buttons are available (move up, move down and stop):



If a dimming function is used, it is possible to turn on and off the light, and in addition through a slider element the brightness value can be changed:



A list of the various types of functions and their boxes can be found in the chapter "FUNCTIONS" of this manual.

## 2.4 ROOMS IN BACKGROUND VIEW

### 2.4.1 VISUALISATION

In alternative to the GRID view, the rooms can also be displayed in the BACKGROUND view. In this case, an image file can be defined as background image for the related room; afterwards it is possible to position the individual functions directly on the image, as shown in the following screenshot:



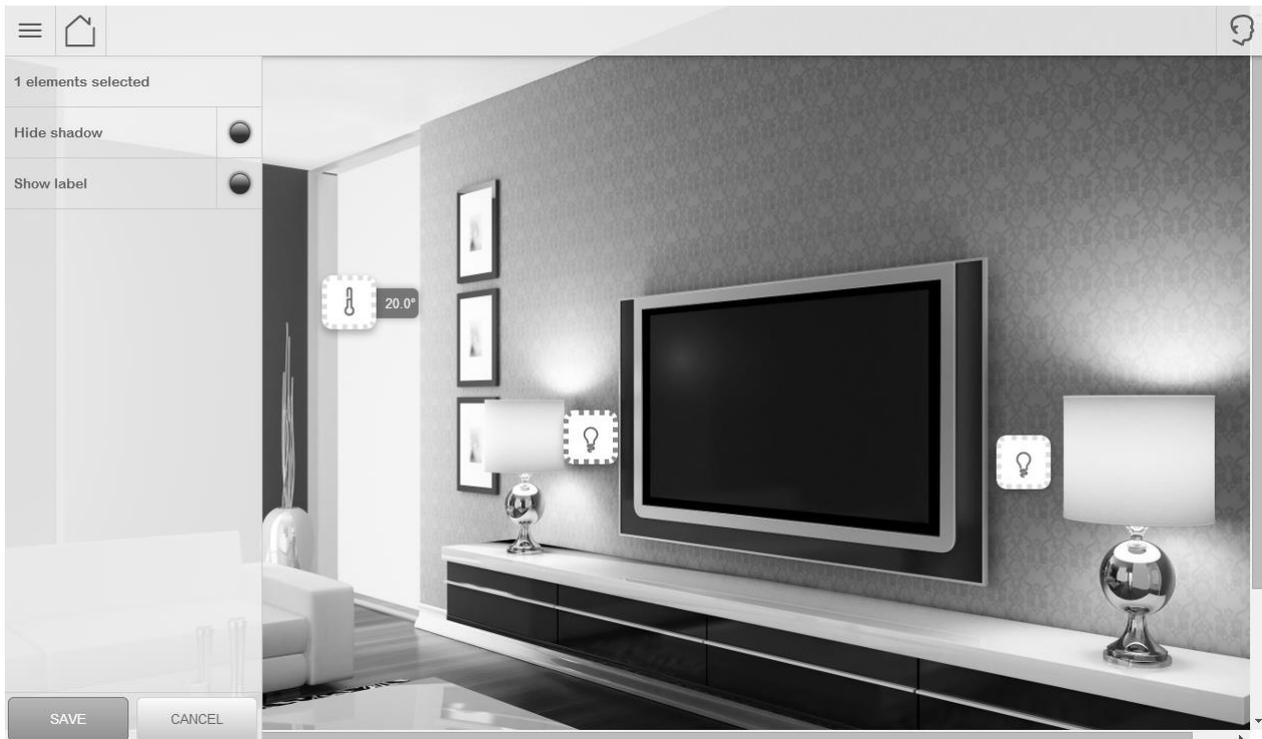
Normally, only the icons of the functions are displayed in this view mode (and in some case a value directly below the icon). Clicking on the icon, the box of the related function is displayed, which shows the same information as in the GRID view. If another object is clicked or the current page is left, the box is closed automatically. In addition, the box closes by itself after a few seconds.

Some objects (e.g. "Light On/Off") behave slightly different when they are displayed in BACKGROUND view: a click on the icon will trigger directly an action on the object, depending on the current state of the object (if the light is turned on, it will be turned off and vice versa). This allows a faster and easier usage of objects that only use a toggle function (on or off).

### 2.4.2 CUSTOMIZATION

If the logged in user has appropriate permissions, he can change the content of a room in BACKGROUND view in the following way:

- Open the desired room
- Open the context menu through the appropriate button in the upper right corner
- Click on the button "Edit background"
- Wait until you see the CUSTOMIZATION MENU on the left side (replacing the normal content of the NAVIGATION MENU)

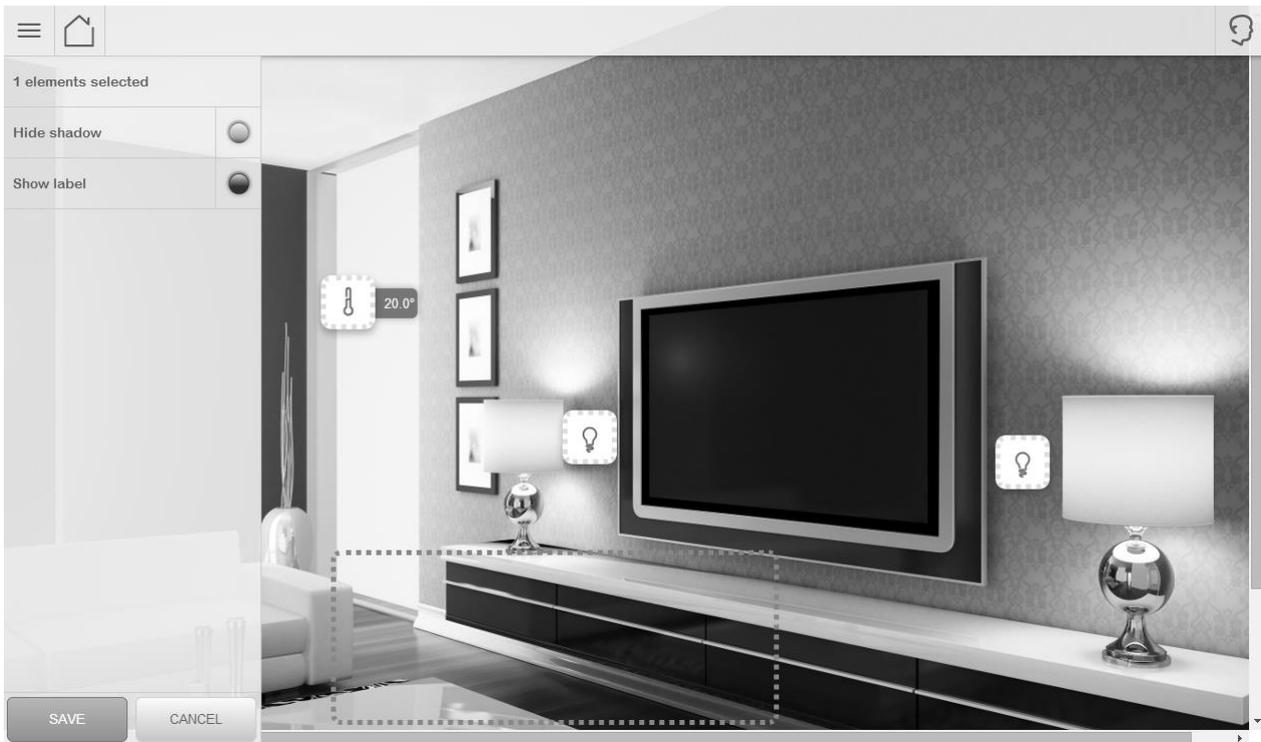


When you first access the page in editing mode, all the objects will be located in the upper left corner. Simply click on the first object and drag it to the desired location within the page. Repeat this process for all objects. The currently selected object is identified by a red border; it is also possible to select multiple objects by holding down the CTRL key and to move them simultaneously.

If at least one object is selected, in the CUSTOMIZATION MENU the following actions can be performed:

- Show / hide the shadow of the function (box that appears around the icon of the function); if the shadow is disabled, the icon becomes transparent
- Show / hide the label of the function even when the box is closed

A special case occurs when a room contains other rooms ("sub-rooms"): in this case the contained rooms are represented by an empty box. This box can also be moved to the desired position like other objects and it's possible to change also the size of the box through the elements displayed on the borders of the box (the pointer turns into a pad, if these elements are hovered). The box can also be kept fully transparent by using the option "Hide Shadows" (with the exception of a slight edge, which appears only in editing mode for orientation purposes):



In this way transparent, TOUCH-SENSITIVE areas can be created, which can be used to access to the sub-rooms: after termination of the editing of the room, a click in the area covered by the box of the desired sub-room, will open the page of the sub-room inside the visualisation.

Other objects can be placed directly on such TOUCH-SENSITIVE areas. In this case, a click on the icon commands the object, while a click beneath the object (on the TOUCH-SENSITIVE area) will open the related room's page.

If the option "Show Title" is enabled for such an area, the name of the room will be shown in the center of the area.

If you want to stop the editing of a room, this can be done either by clicking the SAVE button or by clicking the CANCEL button (discards all changes).

# 3 FUNCTIONS

## 3.1 INTRODUCTION

U.motion KNX Server Plus Touch allows not only the navigation through rooms, but also a navigation structured by object types via the "FUNCTIONS" entry in the NAVIGATION MENU. The provided functions are:

- SYSTEM
- ILLUMINATION
- CLIMATE
- SHADING
- ENERGY-MANAGEMENT
- WEATHER

Some of these entries could be disabled in your project, depending on the configuration made by the installer.

If a function entry is selected from the NAVIGATION MENU, a GRID view page showing all objects assigned to the corresponding function type will appear. The handling of such a page is identical to the handling of a page in GRID view without image.

If a function page contains a large number of objects, it is possible to scroll within the displayed page; depending on the used device, either the mouse wheel (if accessed from a PC / Mac) or *scroll gestures* (for touch devices) can be used for this purpose.

The following pages show the primary object types and their representation / usage within the pages of U.motion KNX Server Plus Touch.

## 3.2 ILLUMINATION

### 3.2.1 LIGHT ON/OFF

The "Light On/Off" – function is shown in the visualisation as shown below:



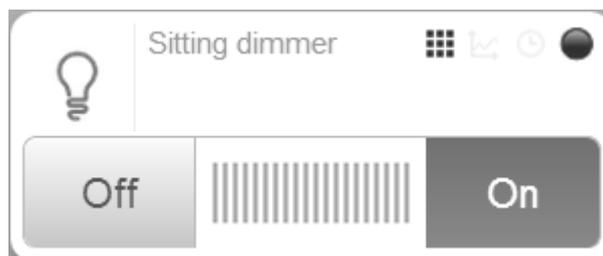
The buttons "ON" and "OFF" permit to control the connected light; the button, which corresponds to the current state of the object is highlighted in a different color (furthermore, the icon in the upper left corner shows the current status, too).

In the software several icons are available for illumination; each icon shows a different illumination device:



### 3.2.2 DIMMER

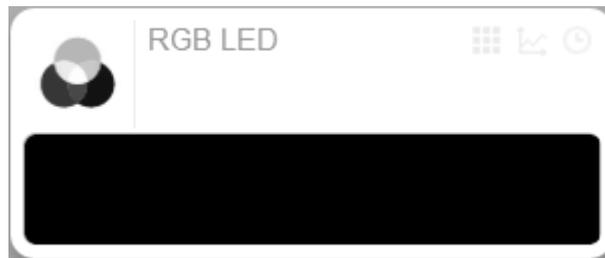
Dimming functions are represented in the software through the following box:



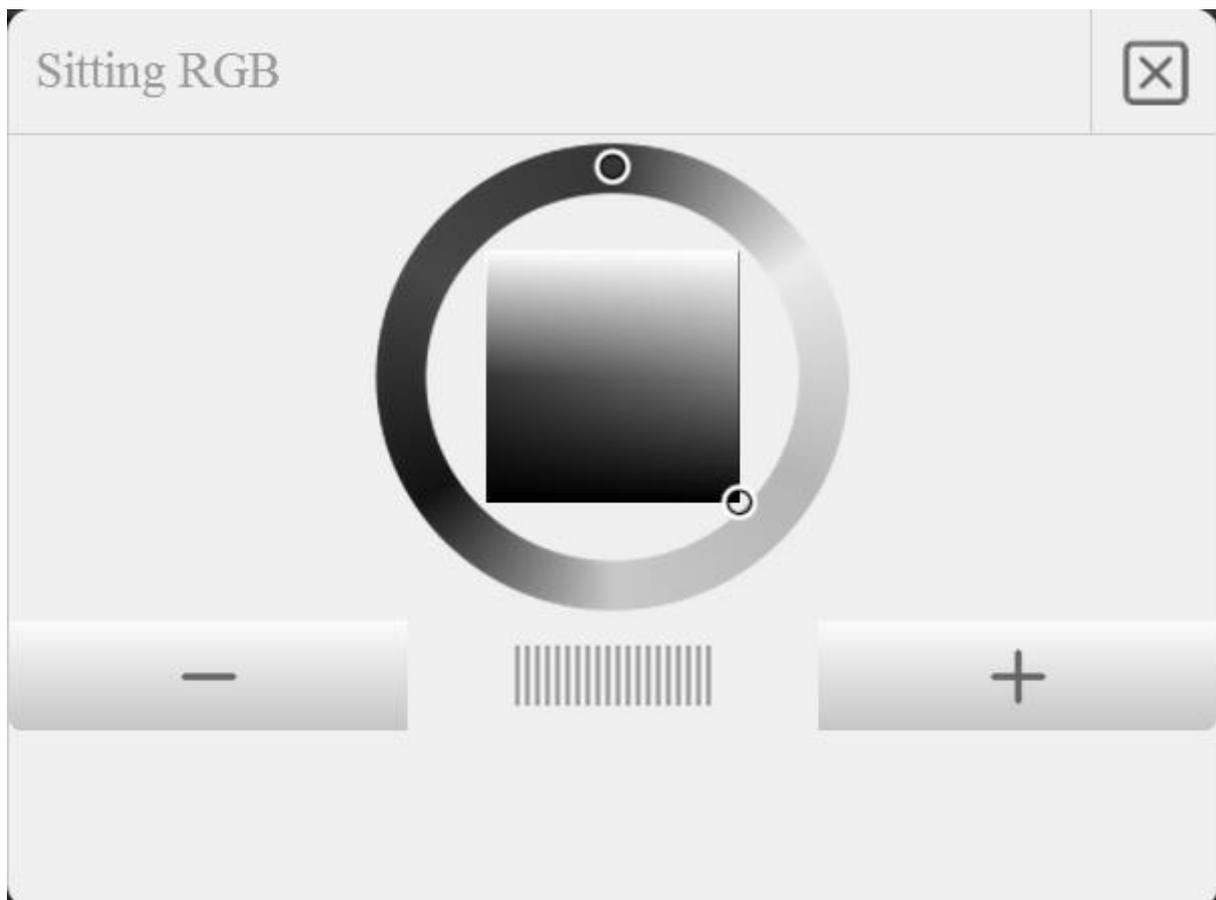
The buttons "ON" and "OFF" permit to switch the light on and off directly. Using the slider scale, the brightness of the light can be set. If the light is controlled through the "ON" or "OFF" button, the slider scale is automatically refreshed. In addition, the brightness value is shown under the icon in the upper left corner and also the brightness of the icon itself changes with the current dimming value.

### 3.2.3 RGB LIGHT

This special object allows the control of light points with RGB control; these objects are represented in the rooms and function pages in the following way:



In the lower left side of the box the last set color is shown, while the button on the right side opens the following pop-up window:

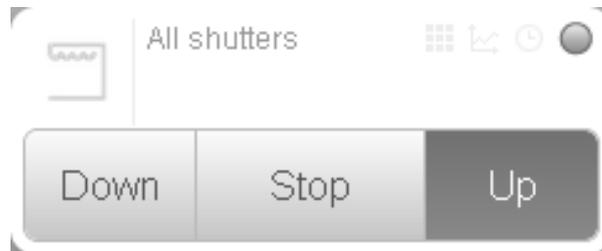


Through the displayed graphic elements it is possible to set the desired color of the related RGB light in a simple way: while the ring permits to select the color spectrum, the rectangle permits to tune brightness and saturation of the color. If available, also the brightness of the RGB light itself can be adjusted through the slider scale at the bottom.

## 3.3 SHADOWING, DOORS AND WINDOWS

### 3.3.1 SHUTTERS UP/DOWN/STOP

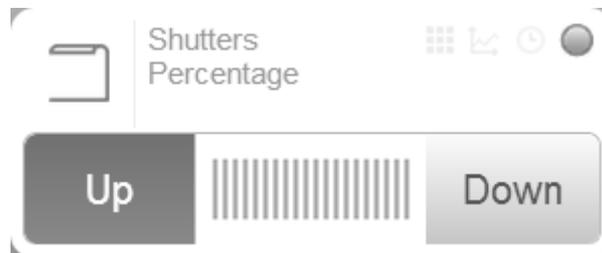
These object types allow the operation of motor control objects (e.g. blinds, shutters) by using the "UP" and "DOWN", as well as the interruption of the operation using the "STOP" button:



The buttons "UP" and "DOWN" are highlighted in a different color, depending on the last command sent; the "STOP" button will not display any state, but show up a color mark for a few seconds, when it is pressed.

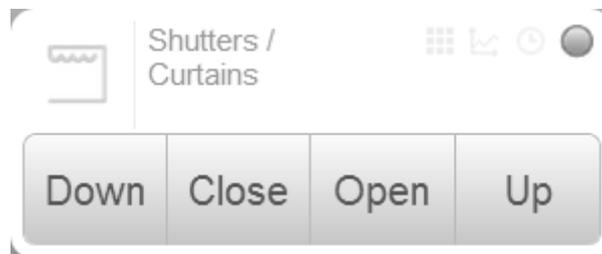
### 3.3.2 SHUTTERS UP/DOWN AND PERCENTAGE VALUE

These object types allow the operation of motor control objects (e.g. blinds, shutters) by using the "UP" and "DOWN", as well as a percentage configuration going from 0% (totally open) up to 100% (totally closed):



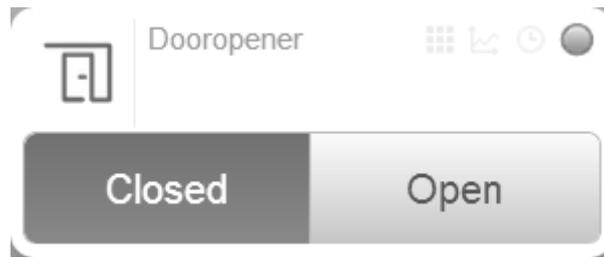
### 3.3.3 SHUTTERS / CURTAINS WITH LAMELLAE

These object types allow the operation of motor control objects with lamellae (e.g. blinds, shutters, curtains, etc.) by using the "UP" and "DOWN" buttons (movement) and "CLOSE" and "OPEN" buttons (lamellae):



### 3.3.4 DOOR / WINDOW OPEN/CLOSED

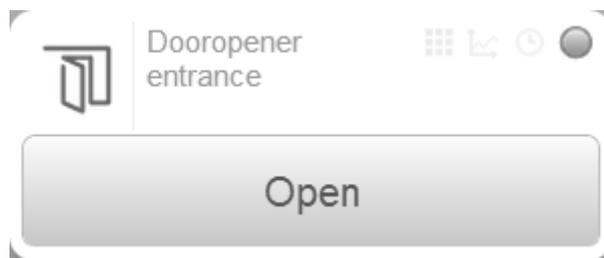
Objects of this type allow the sending of an opening or closing command to an electrical lock (e.g. a window or a door):



The button corresponding to the current state of the lock is highlighted in green or red color.

### 3.3.5 ELECTRIC LOCKS

This object is similar to the previous object, with the difference that only the "ON" command can be sent:



In this case, the object does not show any status; only during operation a short color change will be performed. The object will send the open command for the time period, which has been set by the installer during the configuration of the system (usually a few seconds).

### 3.3.6 STATE DOOR / WINDOW CONTACTS

These objects show the state of door and window contacts:



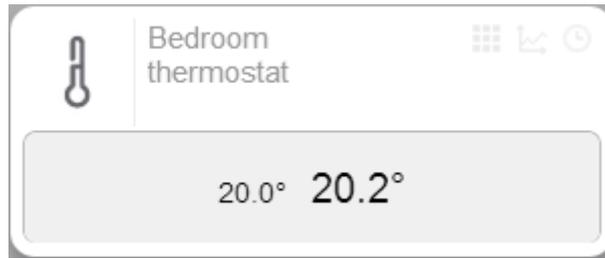
In this case, no commands can be sent: therefore the lower part of the box contains no buttons, but just shows the state of the associated contact.

## 3.4 THERMOREGULATION

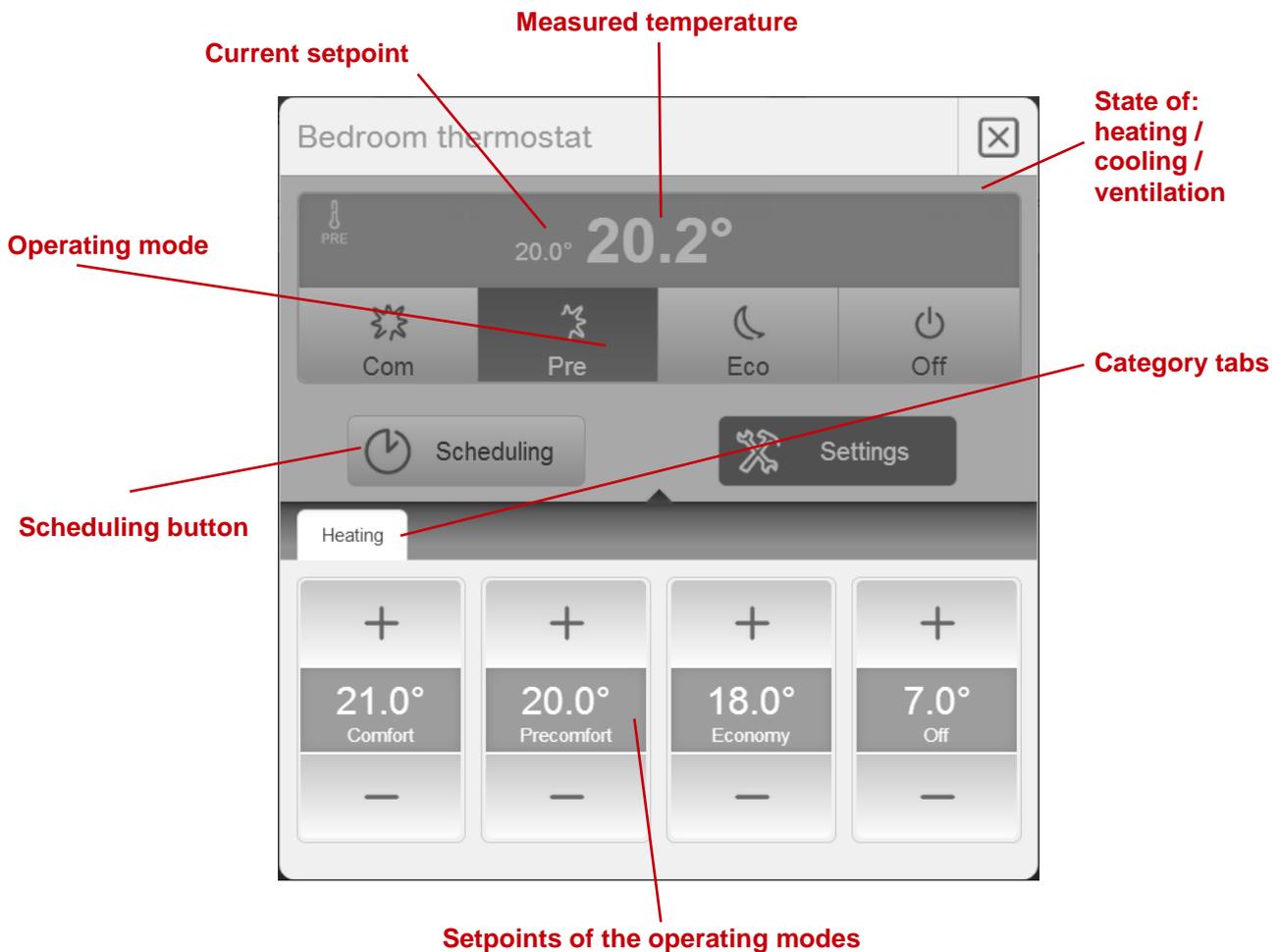
### 3.4.1 THERMOSTATS

The administration of thermostats within the visualisation of U.motion KNX Server Plus Touch strongly depends on the manufacturer / type of the used thermostat and their respective configuration. The instructions in this manual refer to the most common configuration methods and try to represent the maximum of available objects. In your own configuration, some of the functions presented may not be used.

The following graphic shows the typical box of a thermostat within the rooms or function pages of the visualisation:



In the display on the left side the measured temperature of the thermostat is shown, which is also shown directly below the icon (useful for BACKGROUND view, where the box is initially closed). By clicking on the button on the right side, the following pop-up window will appear:



The "DISPLAY" in the upper area contains the following information about the thermostat:

MEASURED TEMPERATURE	Measured ambient temperature of the thermostat
CURRENT SETPOINT	Temperature setpoint, towards which the thermostat regulates the temperature; depends from the selected operating mode of the thermostat.
STATE HEATING / COOLING / VENTILATION	State icon, which shows the active mode of the thermostat (heating, cooling, ventilation)

The buttons below the display are used to change the OPERATING MODE of the thermostat. Depending on the type of thermostat, different setpoints can be adjusted for heating, cooling and ventilation (if present).

The tabs on the category selection (if configured) determine the items displayed in the bottom area of the object:

HEATING	Allows the configuration of the several heating setpoints for the different operating modes of the thermostat
COOLING	Allows the configuration of the several cooling setpoints for the different operating modes of the thermostat
VENTILATION	Permits to control the ventilation (automatic or manually); by selecting manual control, the single ventilators can be controlled.

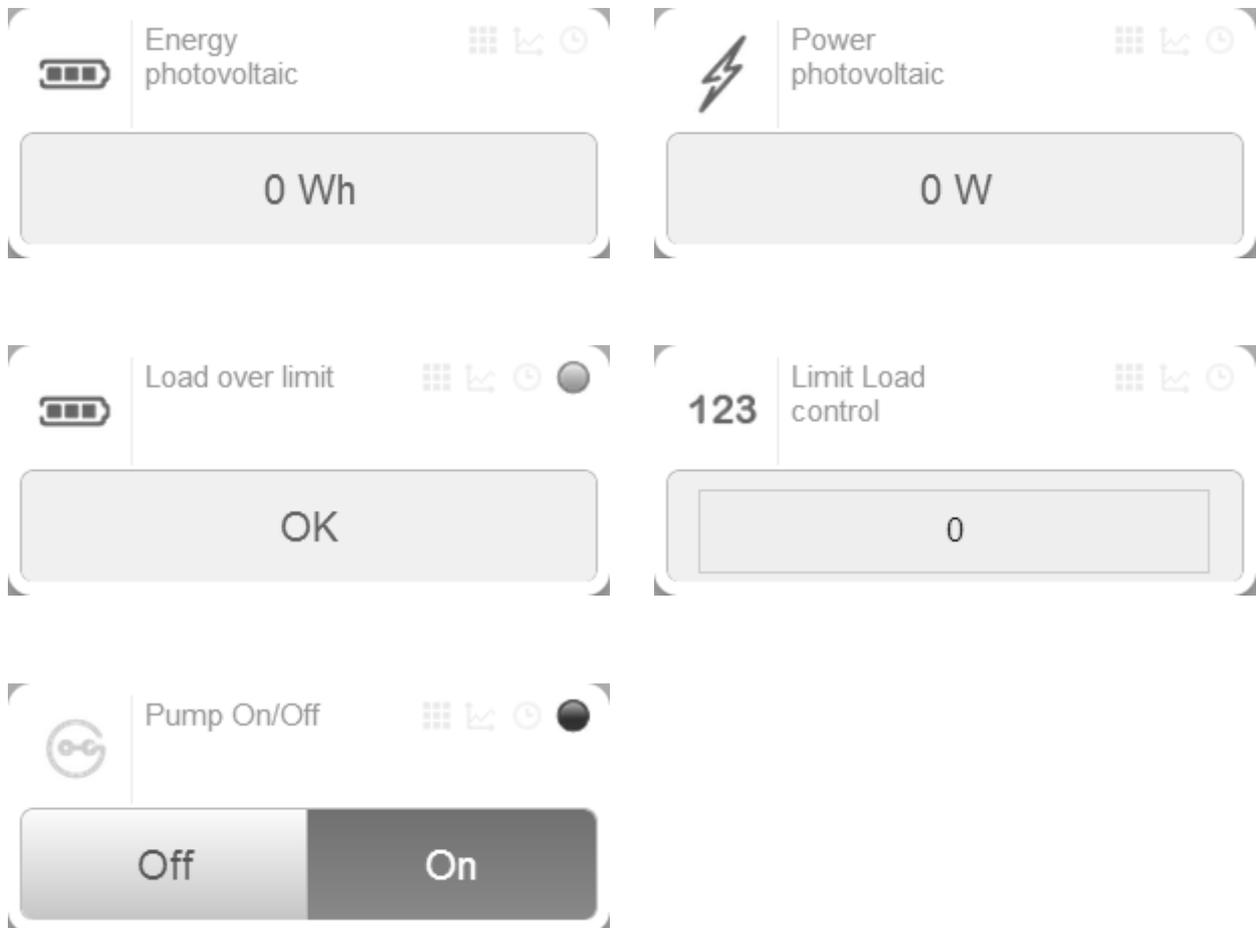
The following screenshot shows an example of a thermostat with inactive "VENTILATION":



The "SCHEDULE" button (if enabled by the installer) allows time scheduling of the thermostat functions; for further details, please refer to the chapter "SCHEDULING" of this manual.

### 3.5 ENERGY MANAGEMENT

U.motion KNX Server Plus Touch provides various types of objects, through which various energy information (which are provided from KNX energy counters installed in the system) can be represented in the software. Furthermore, the parameters of load-controllers can be actively controlled. The following graphics show some examples of the existing object types:

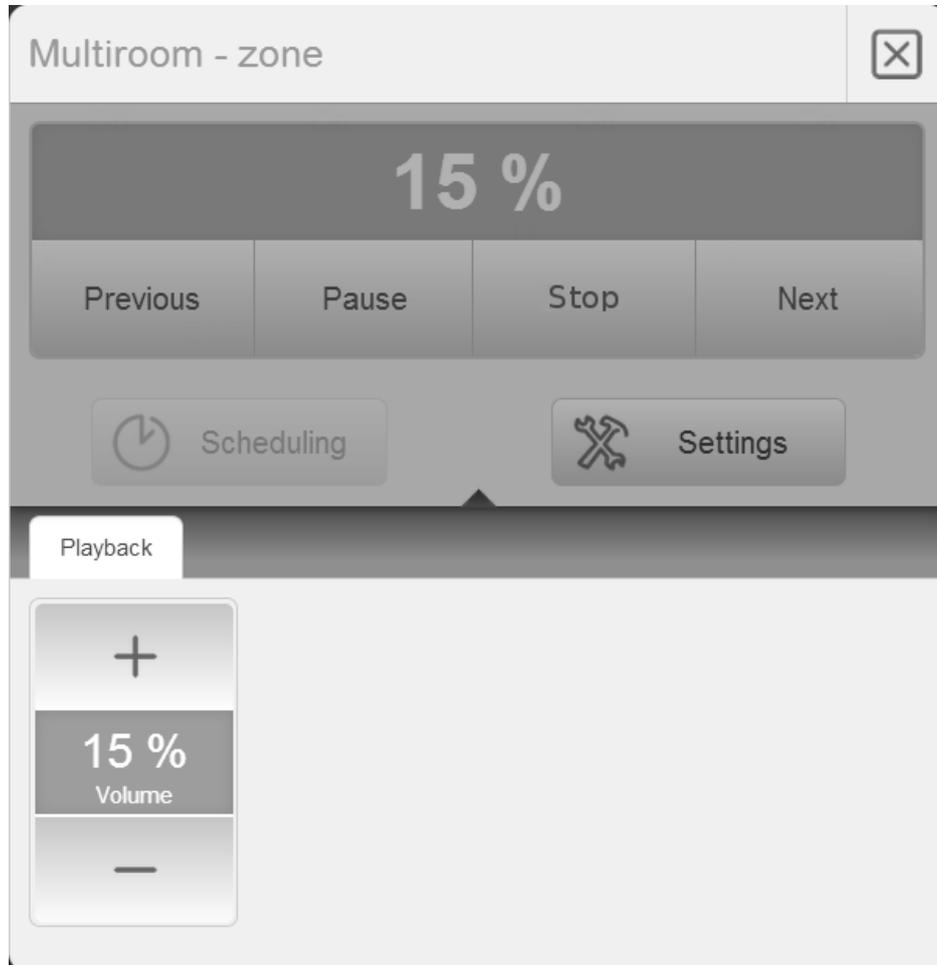


These objects can be connected to rooms, just like all other objects, in order to show individual consumptions, or they can also be used in combination with load controllers for the representation of the total consumption. Additionally, U.motion KNX Server Plus Touch offers a separate area called "ENERGY MANAGEMENT", accessible through the NAVIGATION MENU. This section shows a complete overview of the current power consumption. For more information about the ENERGY MANAGEMENT, please refer to the appropriate chapter in this manual.

## 3.6 AUDIO

### 3.6.1 MULTIROOM-AUDIO-ZONE

With U.motion KNX Server Plus Touch it is possible to manage the single zones of a compatible multi-room audio system using the following pop-up window:



The pop-up can offer the following action buttons (some of them could be missing in your configuration, since the buttons depend on the functionalities provided by the installed audio system):

- PLAY/PAUSE
- STOP
- PREVIOUS / NEXT track
- Playback mode: NORMAL, RANDOM or REPEAT
- VOLUME control

# 4 FAVOURITES

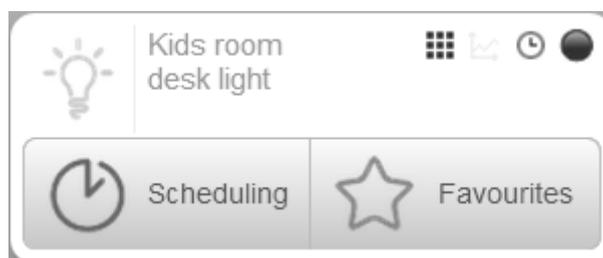
## 4.1 INTRODUCTION

With the FAVOURITES page U.motion KNX Server Plus Touch offers a special page, which can contain the most frequently used functions. The FAVOURITES page can be accessed directly from the NAVIGATION MENU or the HOME page.

In order to add an object to the FAVOURITES, please follow the steps below:

- Open a page containing the target object in GRID view (room or function page)
- Click on the icon of the function and hold down the mouse / finger for a few seconds; instead of the command buttons two more buttons ("SCHEDULING" and "FAVOURITES") are shown, where the FAVOURITES button is highlighted when the object already is present in the FAVOURITES.
- Enable / Disable the FAVOURITES button, depending on whether the object should be added or removed

By clicking on the button, its color will change (highlighted = object is already linked to the FAVOURITES, not highlighted = object is not linked to the FAVOURITES). After a few seconds, the buttons will disappear and the object will reappear in its original form.



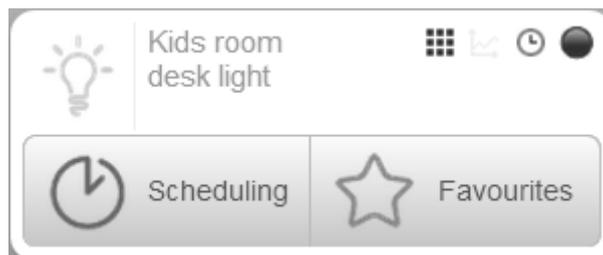
# 5 SCHEDULING

## 5.1 INTRODUCTION

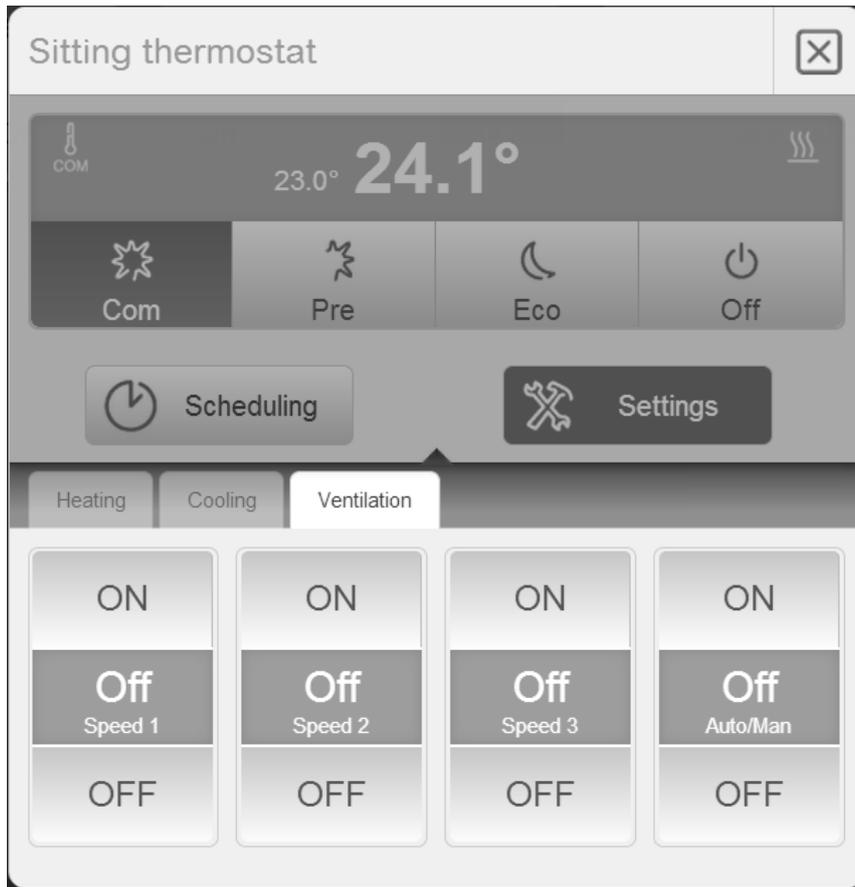
U.motion KNX Server Plus Touch allows the time scheduling of all objects that are present in the rooms and function pages of the visualisation. If a time schedule is active, U.motion KNX Server Plus Touch controls the related objects, even if no one is in the building. This chapter shows how a schedule can be established, from a simple daily scheduling to a complex planning with the year calendar.

## 5.2 SCHEDULING OF OBJECTS

To set up a time scheduling, click on the icon of the target function and hold down the mouse / finger down for a few seconds (works with both GRID view and BACKGROUND view). As mentioned in the previous chapters, additional buttons will appear, through which the scheduling can be accessed:



When using objects with pop-up windows, such as thermostats, the time scheduling can also be accessed through the appropriate button in the pop-up window:



In both cases a second pop-up window will appear (initially without any time scheduling and therefore empty), as shown in the screenshot below:



In order to create a new scheduling, please click on the "+" symbol: for each scheduling, a new line will appear in the window; the following screenshots refer to the time scheduling of the operating mode of a thermostat.



The individual time schedules are always based on daily activities (from 00:00 to 23:59). By clicking on the EDIT button (tool icon), the property window of the selected time scheduling will appear:



In the upper area, a label can be assigned to the scheduling, through which it can be easily identified in the visualisation. It is recommended to define the label in a way that it's possible to easily understand what actions the scheduling contains, to facilitate the configuration and usage of the scheduling.

*Example: "Irrigation Monday-Friday" or "Garden lights weekend"*

The section "DAILY SCHEDULING" allows the configuration of one or more actions that should be executed during the period of a single day. To add new actions, simply click on the "+"-button and for each action configure the following parameters:

- Hour
- Minute
- Action to execute
- Value to set (if available)

The section "CALENDAR-BASED SCHEDULING" defines whether the configured actions will be executed on one or more days of a week or ALTERNATIVELY on one or more days selected through the yearly calendar. In the case of the weekly-scheduling, the individual days of the week can be selected by clicking the appropriate buttons at the bottom.

The following screenshot shows the scheduling of a thermostat with multiple daily actions, active from Monday to Friday:



To save the scheduling, simply click on the SAVE button in the upper right corner. If all changes should be discarded, simply click on the CANCEL button next to the SAVE button.

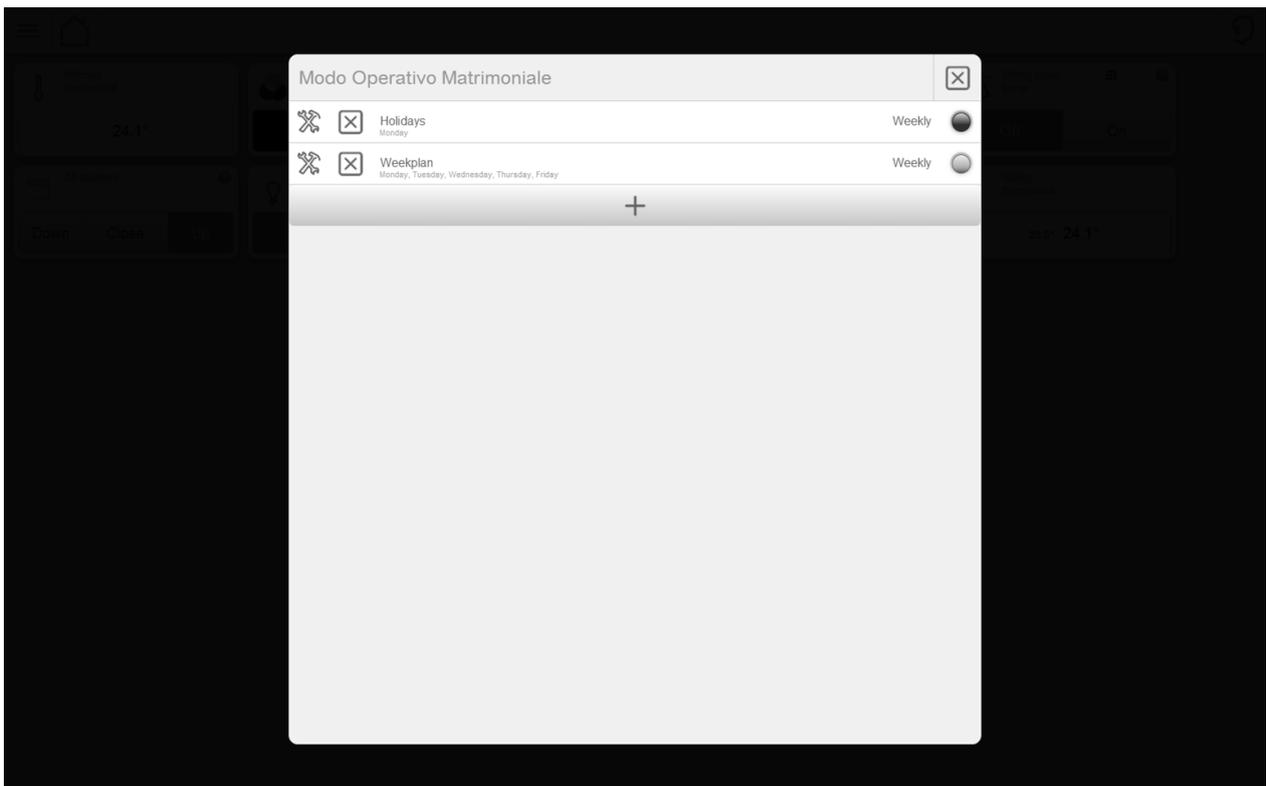
To create a complete yearly calendar, the single days on which the defined actions should take place can simply be selected in the calendar, which is available in the section "YEARLY" of the "CALENDAR-BASED SCHEDULING". This type of scheduling also allows the "omission" of individual days to take care about holidays or vacations in the weekly scheduling.



If several individual schedules are defined for the same day, U.motion KNX Server Plus Touch will give priority to the schedules of type "YEARLY", since - as already mentioned - the creation of exceptions, e.g. for holidays, can be configured only within this type of scheduling. If no yearly scheduling is defined, the weekly scheduling is executed without deviations.

**ATTENTION:** within the same scheduling it is **ONLY** possible to use **EITHER** the WEEKLY OR the YEARLY calendar scheduling (not both!). Exceptions, as described above, must always be configured in a **SEPARATE** weekly or yearly scheduling!

It is furthermore possible to disable individual schedules and therefore prevent their execution, without having to delete the defined schedules. This can be done through the button on the right side of the time scheduling (green icon = schedule is active, red icon = schedule is disabled).

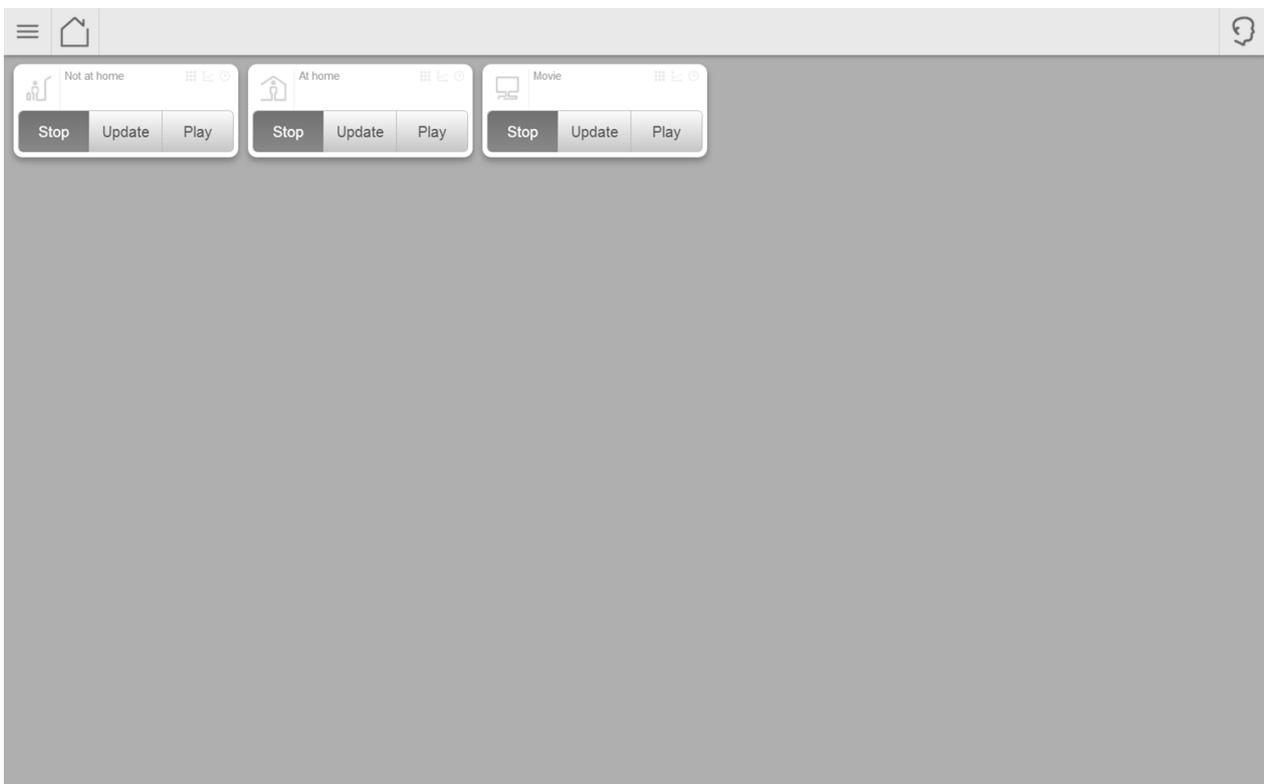


In the screenshot above the scheduling "HOLIDAYS" is disabled and is therefore ignored by the system.

# 6 SCENARIOS

## 6.1 INTRODUCTION

U.motion KNX Server Plus Touch allows the automatic execution of different commands; these sequences are called "SCENARIOS". The entry "SCENARIOS" in the NAVIGATION MENU displays all the scenarios that have been configured in the project by the installer. The following screenshot shows an example of the SCENARIOS page:



## 6.2 EXECUTION / INTERRUPTION OF SCENARIOS

The box of a scenario provides the following buttons:

PLAY	Starts the command sequence defined in the scenario
STOP	Stops the command sequence (premised the scenario is running)
UPDATE	Permits to update the commands configured in the scenario with the current states of the related objects; the procedure is explained more in detail in the connection

Since the execution of the actions of a scenario may include also time delays (due to wait commands added by the installer), the scenario may remain in PLAY mode for a longer time. In this case, the scenario can be interrupted with the STOP button.



The interruption of a scenario does NOT reset the actions already executed to the state before the execution of the scenario. This means that actions that should be reset after an interruption of the scenario must be reset MANUALLY.

A typical example are irrigation scenarios: these usually include the delayed opening and closure of the irrigation valves; if such a scenario is stopped before its completion, the already opened irrigation valves remain open and must be closed MANUALLY through the appropriate KNX object in the visualisation of U.motion KNX Server Plus Touch.

## 6.3 UPDATE OF A SCENARIO

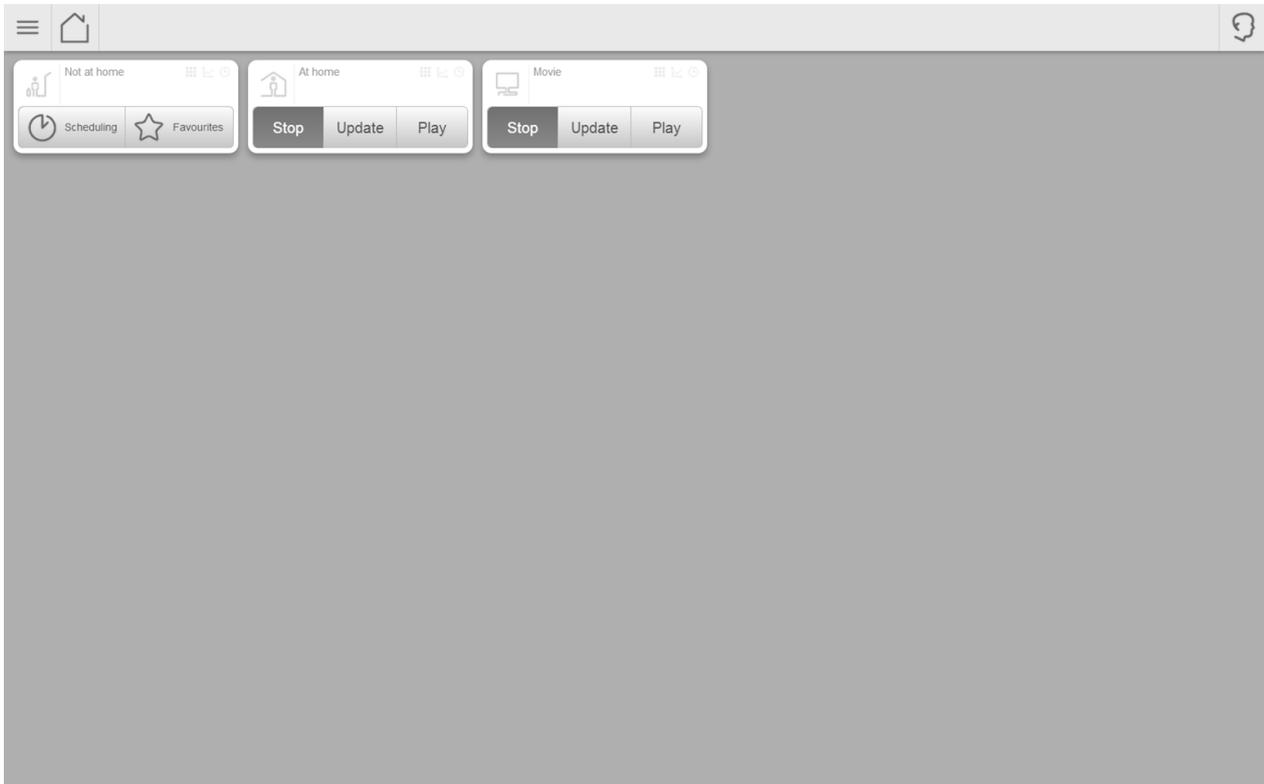
If the UPDATE button of a scenario is pressed, the scenario for all contained objects assumes the current state in the system as new reference value for future executions of the scenario. This operation can last a few seconds, depending on the amount of objects contained in the scenario. Once the UPDATE procedure is finished, the UPDATE button returns to its original condition.



The UPDATE button could also be disabled for the scenarios in your configuration. In this case, your installer blocked the update of the scenarios. This may be especially the case for scenarios that commands the same object multiple times. In this case, the update process would cause a malfunction of the scenario.

## 6.4 SCHEDULING OF A SCENARIO

The scenarios can be used like any other objects of the software and therefore can also be scheduled. In this case, by clicking on the icon of the scenario and holding the mouse button / finger for several seconds, as mentioned already before, more buttons are shown, through which the scheduling can be activated or the scenario can be added to the favourites:

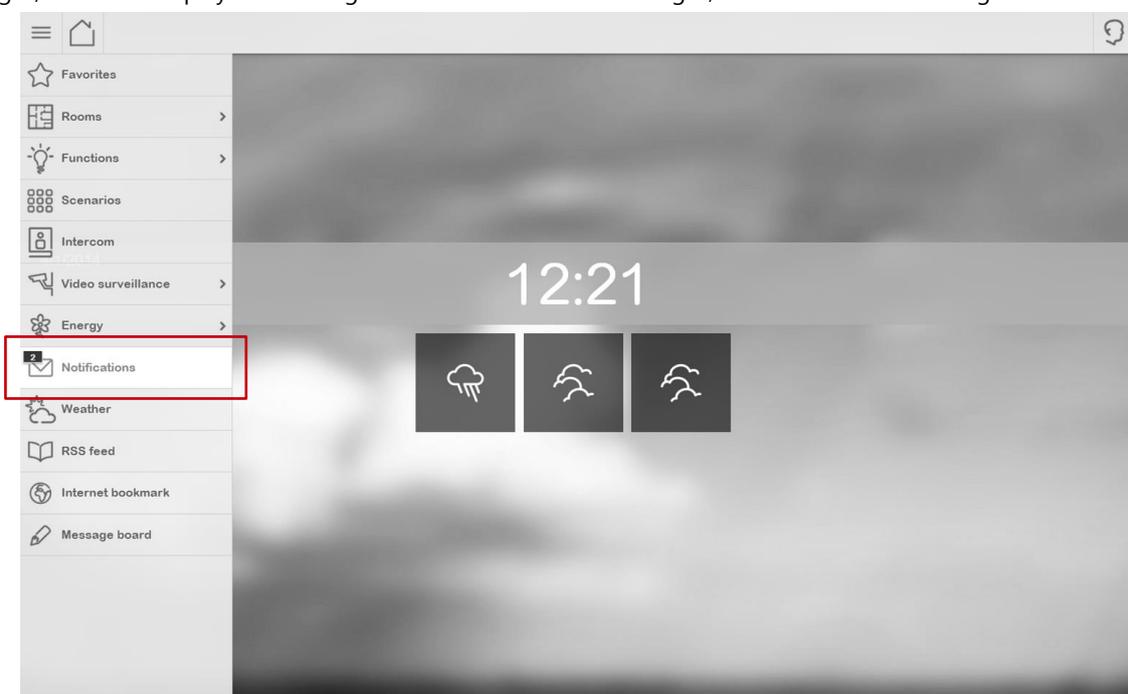


# 7 MESSAGE CENTRAL

## 7.1 INTRODUCTION

The message central of U.motion KNX Server Plus Touch allows the centralized management of system-generated messages. Those can either be generated by events / alarms in the system or by the user.

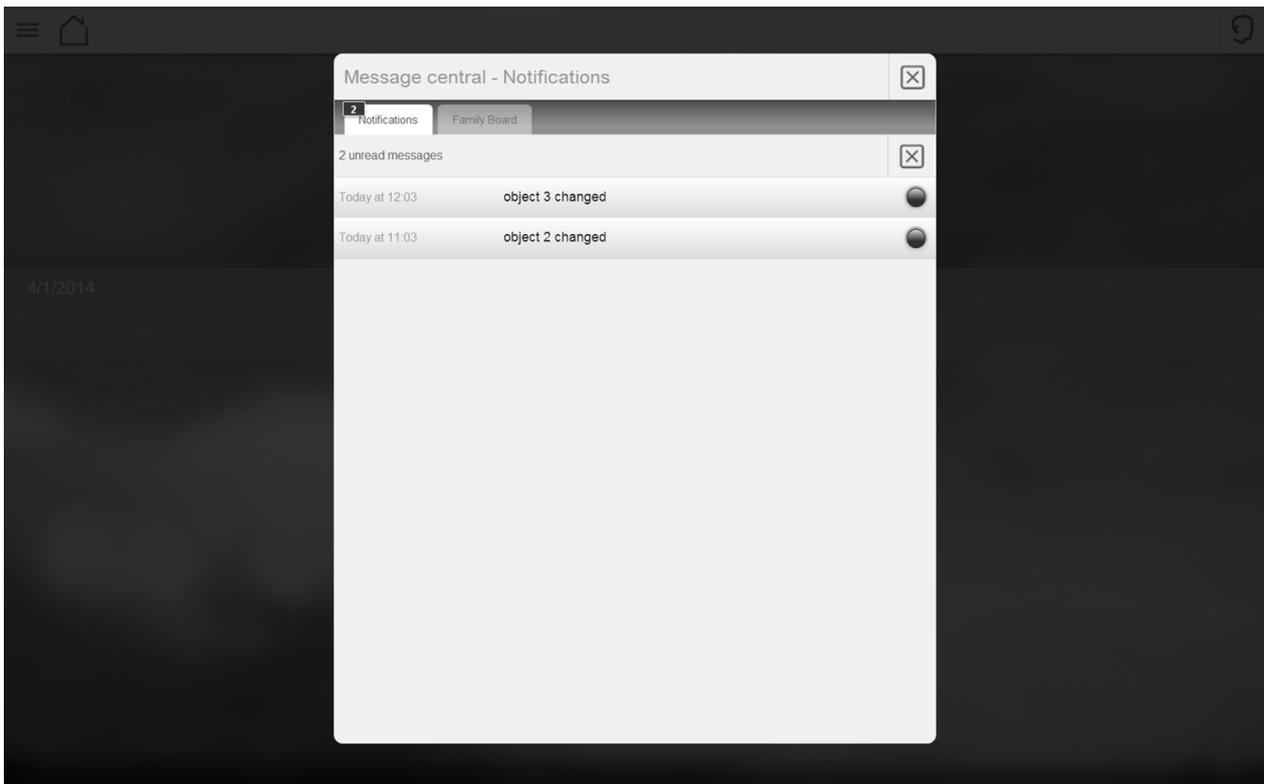
The message central is always available through the NAVIGATION MENU or the HOME page. If there are unread messages, an icon is displayed including the number of unread messages, as shown in the following screenshot:



## 7.2 NOTIFICATIONS

The section "NOTIFICATIONS" of the message central displays a list of all messages generated by U.motion KNX Server Plus Touch, which are triggered depending on the configuration within the system (e.g. by events, alarms or faults).

The message central will only be opened automatically when a notification of type "ALARM" is received, if not configured differently. Other messages are shown only through the icon in the NAVIGATION MENU or the HOME page; the user must manually click on "NOTIFICATIONS" to check out those messages:

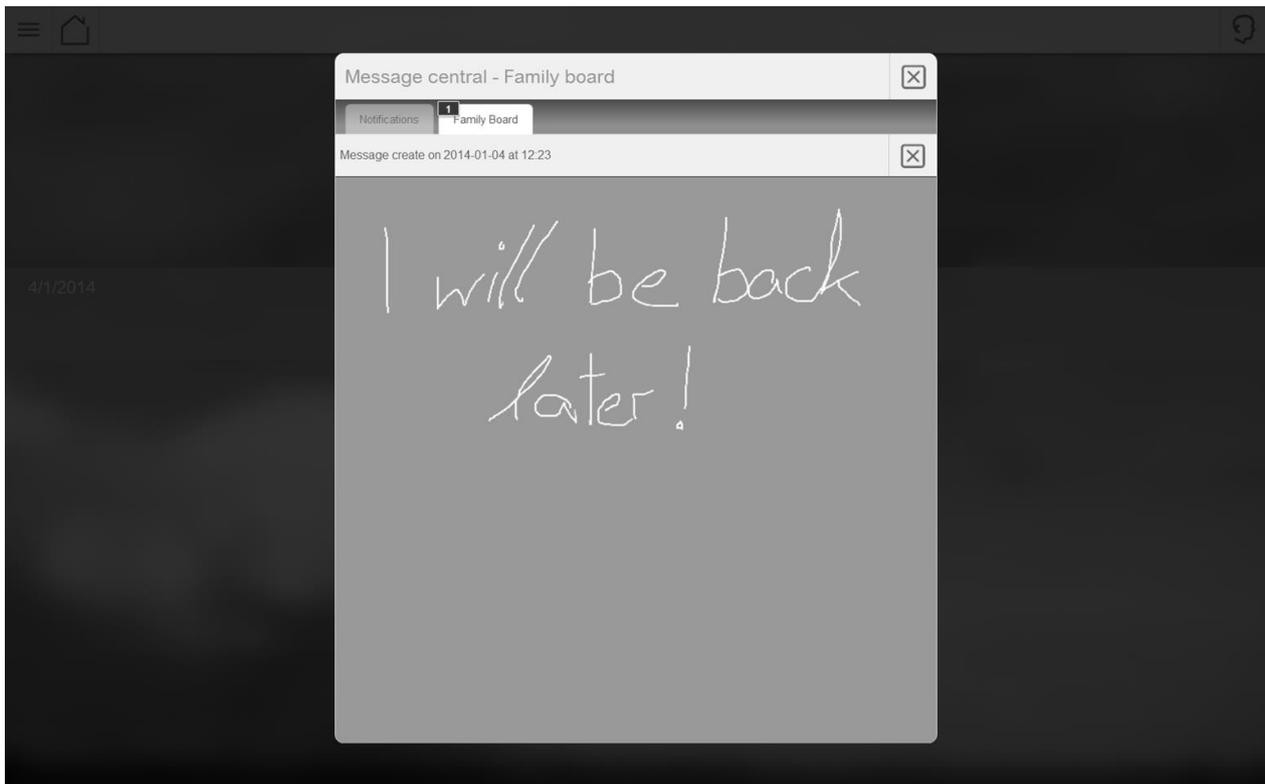


The different levels / types of notifications are represented through different colors. If a message was read, it can be deleted using the appropriate button on the right side.

If several messages are displayed, they can be deleted all together by using the DELETE button in the upper right corner.

## 7.3 MESSAGEBOARD / FAMILYBOARD

The MESSAGE BOARD permits to enter messages directly through the touchscreen (for touch devices):



At completion of the message, also here an icon is displayed informing about the presence of a new message; it appears in the NAVIGATION MENU / the HOME page on the entry MESSAGE BOARD; the icon remains visible also after closing the message central window.



The messages on the MESSAGE BOARD are only displayed on the device on which the message has been entered and not on other devices in the network. Furthermore, these messages will be lost if the browser is closed or the visualisation is updated.

# 8 IP CAMERAS

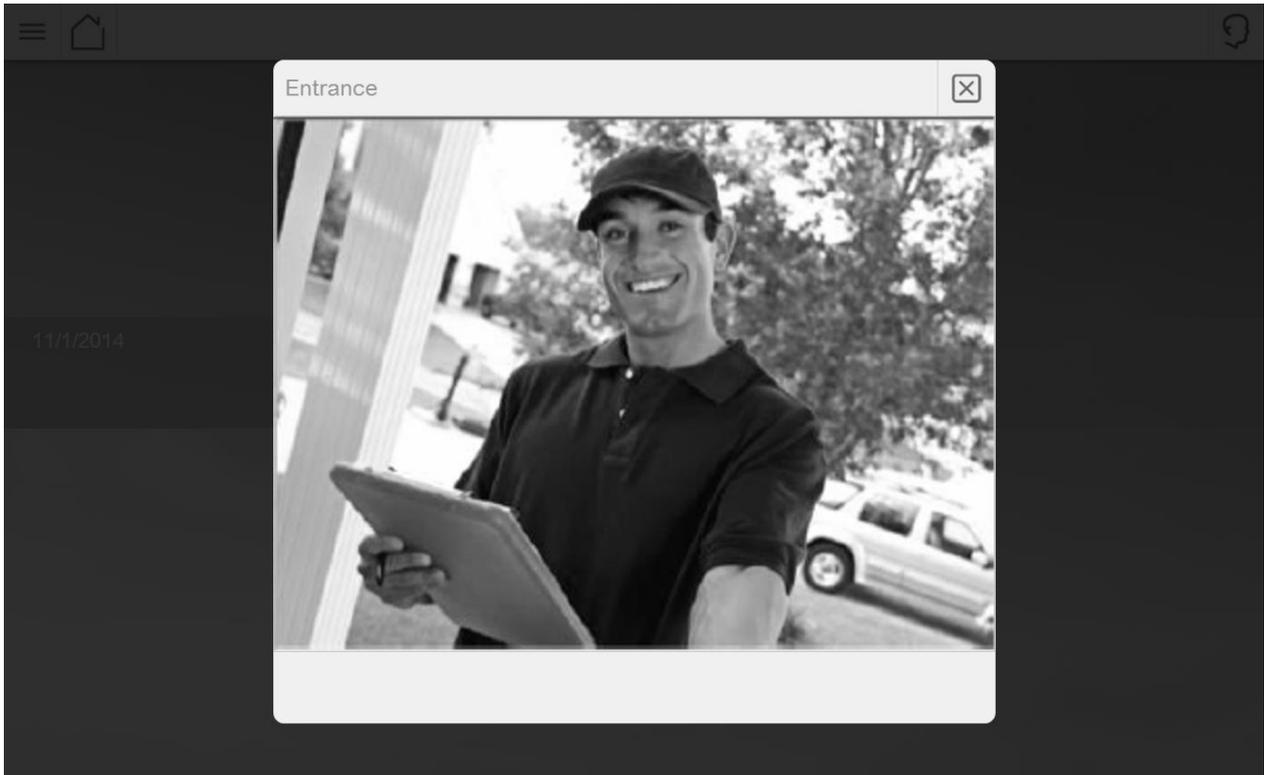
## 8.1 INTRODUCTION

U.motion KNX Server Plus Touch permits to display video streams of compatible IP cameras, video servers and video recorders inside the pages of the visualisation. The video streams can be accessed from within the local network or also by remote access through internet.

## 8.2 VISUALISATION OF THE VIDEO SIGNAL

By selecting the entry "VIDEO SURVEILLANCE" in the NAVIGATION MENU, a list of the configured cameras is displayed. If one of them is selected, a pop-up window containing the video stream of the selected camera will be shown (the performance of the stream depends on camera type, the quality of the network and the performance of the client device)

:



If you click on the top bar of the pop-up window, the window will be closed and another camera can be selected from the NAVIGATION MENU or other pages of the visualisation can be accessed.

If the camera object was assigned to one or more rooms, it can also be displayed within the pages of the visualisation, together with the other objects of the project, as shown below:





A click on the camera-icon opens a pop-up window showing the related cameras video stream in the configured resolution; the result basically is the same as opening the camera through the NAVIGATION MENU.

# 9 ENERGY MANAGEMENT

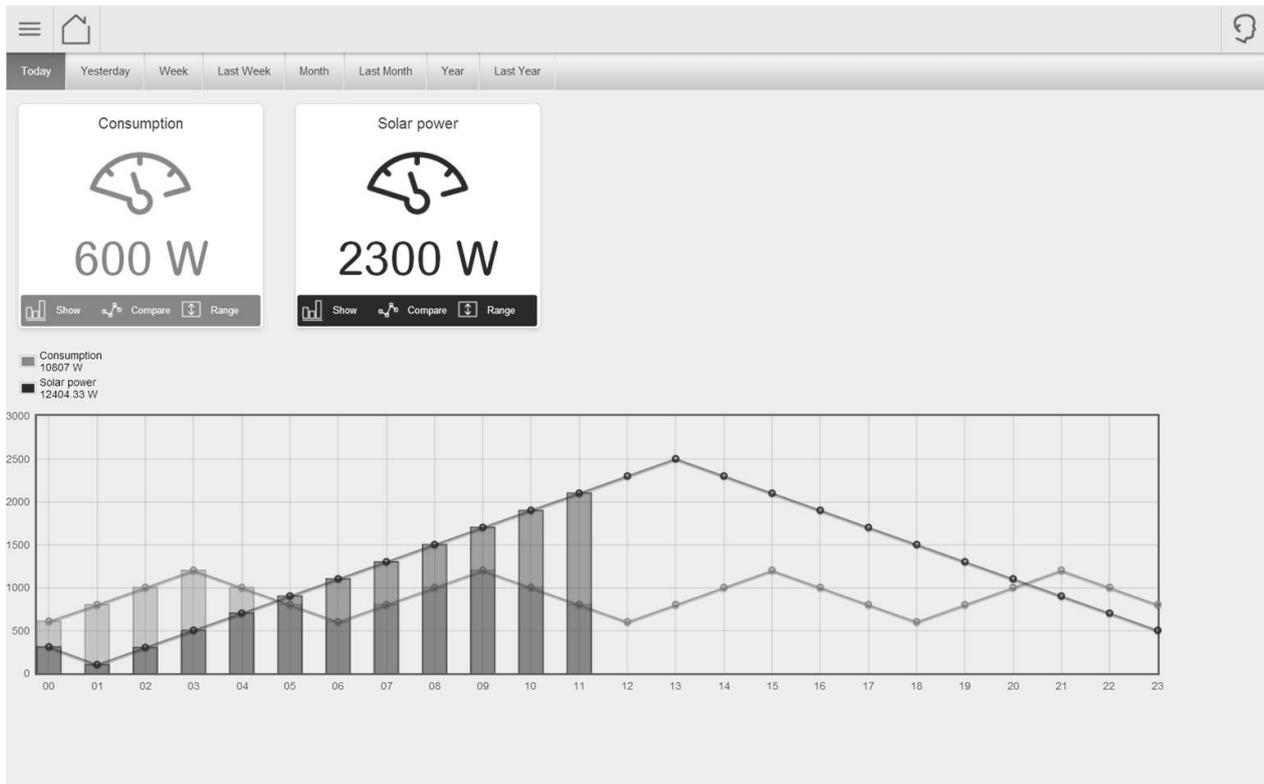
## 9.1 INTRODUCTION

The "ENERGY" section of U.motion KNX Server Plus Touch shows an overview of the complete energy consumption and possible energy production (e.g. photovoltaic) of an installation. This feature requires that the necessary KNX devices are installed in the plant, which collect energy data and provide it through the KNX bus.

This section is highly dependent on the nature of the own system and how it is configured by the installer. Therefore this chapter shows a typical application with two KNX energy counters - one to measure the current energy consumption of the plant and the other to measure the energy production of a photovoltaic system - as well as some loads, which are driven by load-controls.

## 9.2 CONSUMPTION

By selecting the entry "ENERGY" in the NAVIGATION MENU or HOME-page and subsequently the entry "CONSUMPTION", a page is opened containing a general power consumption overview:

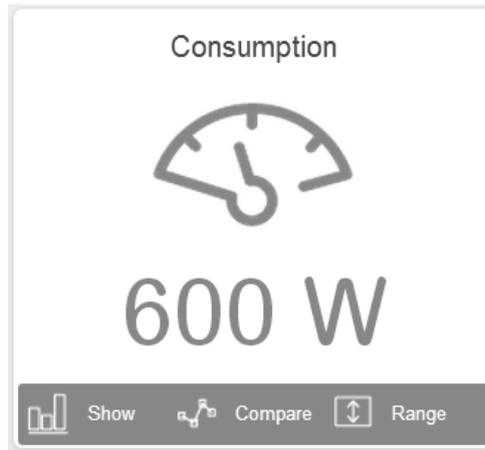


This page shows one or more energy counters which indicate the energy consumption or energy production of a building. The color (green - orange - red) indicates graphically that the configured limits are exceeded.

By clicking on one of the energy counters, the following pop-up window is opened, which provides further details about the energy consumption and gives access to the configurable parameters, which are organized in different TABS:



Under each energy counter a colored box can be seen, which allows the visualisation in graphical way of the data of the connected energy counter object. The graphs are shown in the lower part of the page:



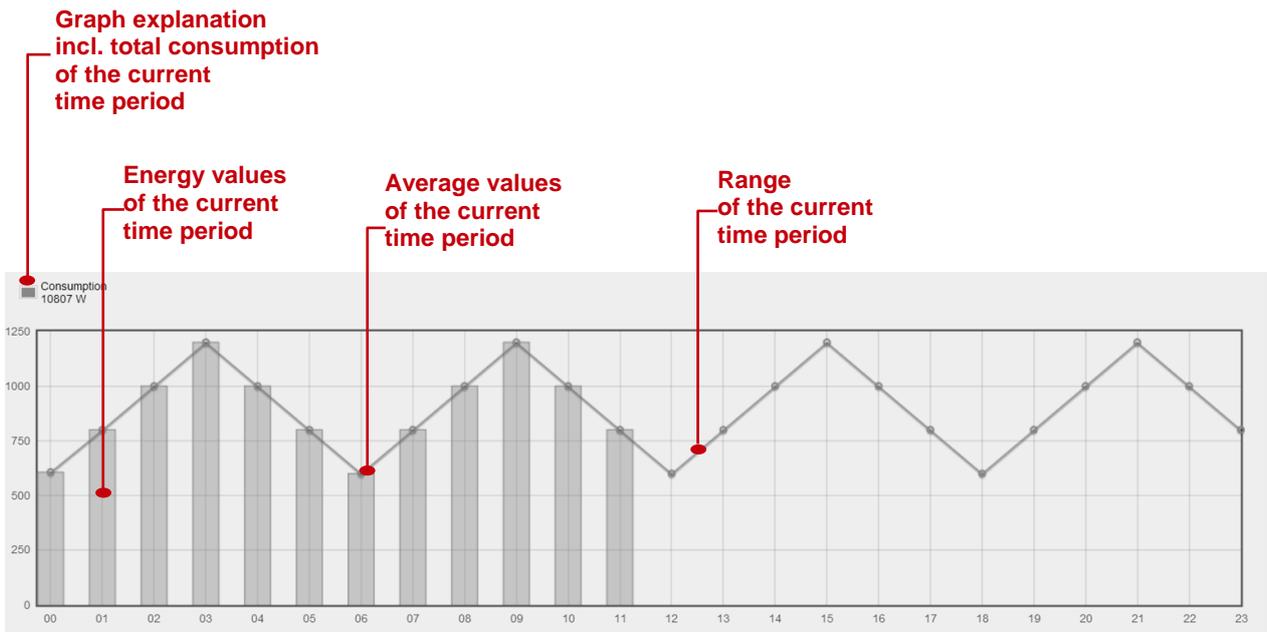
The color of the box is the same as the one of the corresponding graph, what permits to easily recognize it even when more than one graph is visualised. Furthermore, the box permits to change some options of the graphical representation of the shown data:

SHOW	Shows / Hides the graph of the corresponding energy counter
COMPARE	Shows / Hides the comparison values, which are calculated from the average value of the lastly measured values
RANGE	Shows / Hides the colored area which marks the range between the minimum and maximum values of the energy counter (in dependence of the selected time period)

The lower area of the page contains the graphs of the single energy counters from the upper area. The data shown in the graphs always refers to a certain time period, which can be selected by the user through the different TABS on the top of the page:

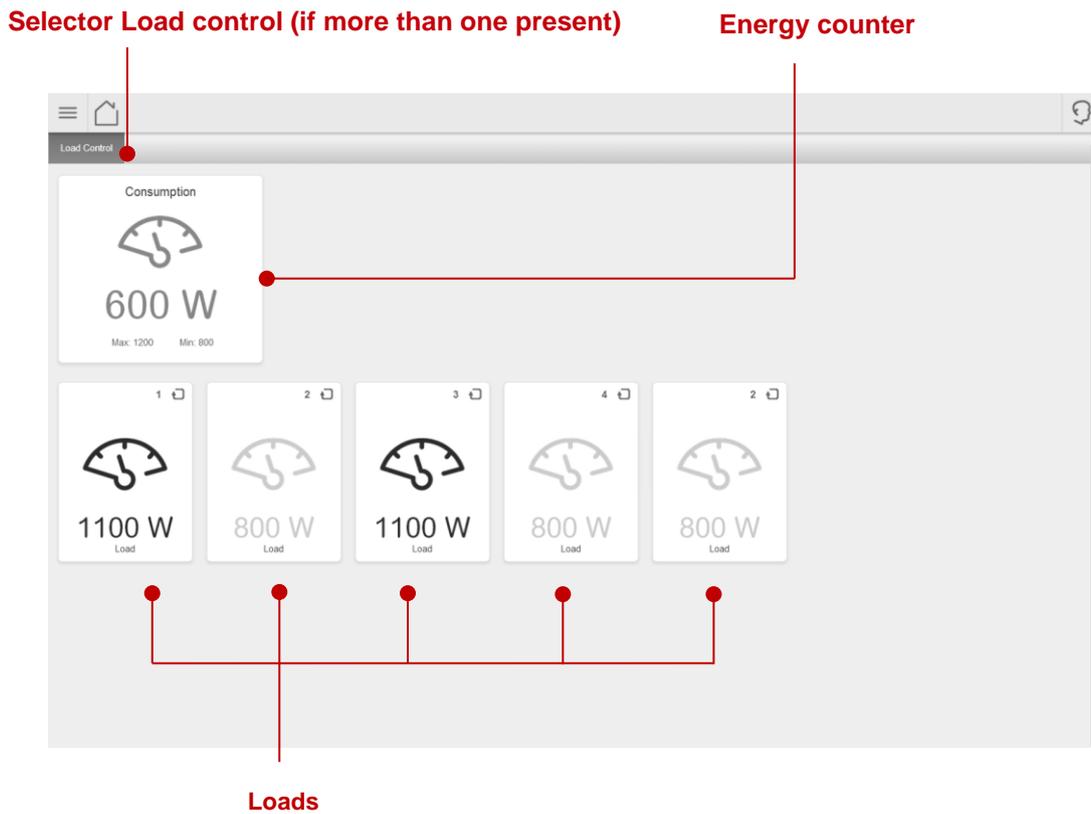
TODAY	Data of the current day (from 00:00); the comparison value – if enabled – is calculated from the average of the daily values logged
YESTERDAY	Data of the previous day; the comparison value – if enabled – is calculated from the average of the values logged the previous day
WEEK	Data of the current week (from Monday, 00:00); the comparison value – if enabled – is calculated from the average of the weekly values logged
LAST WEEK	Data of the previous week; the comparison value – if enabled – is calculated from the average of the values logged the previous week
MONTH	Data of the current month (from the first day, 00:00); the comparison value – if enabled – is calculated from the average of the monthly values logged
LAST MONTH	Data of the previous month; the comparison value – if enabled – is calculated from the average of the values logged the previous month
YEAR	Data of the current year (from the first day, 00:00); the comparison value – if enabled – is calculated from the average of the yearly values logged
LAST YEAR	Data of the previous year; the comparison value – if enabled – is calculated from the average of the values logged the previous year

The following screenshot explains the different elements within the visualisation area of the graphs:

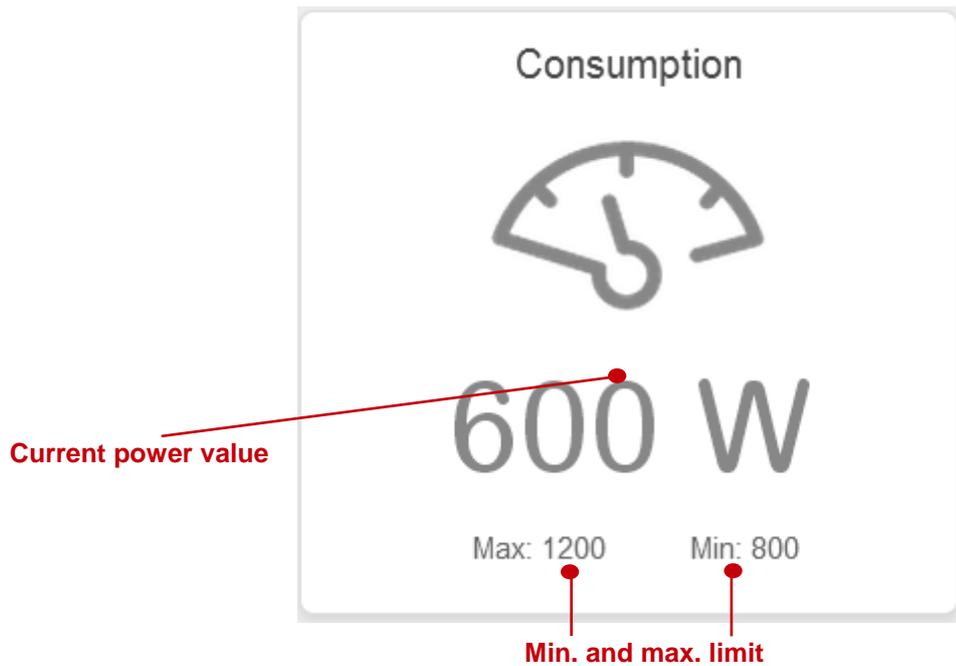


## 9.3 LOADS

This section shows the energy consumption of individual loads in real time. Furthermore, the priorities of the load control system can be displayed (if configured / available), as shown in the following screenshot:



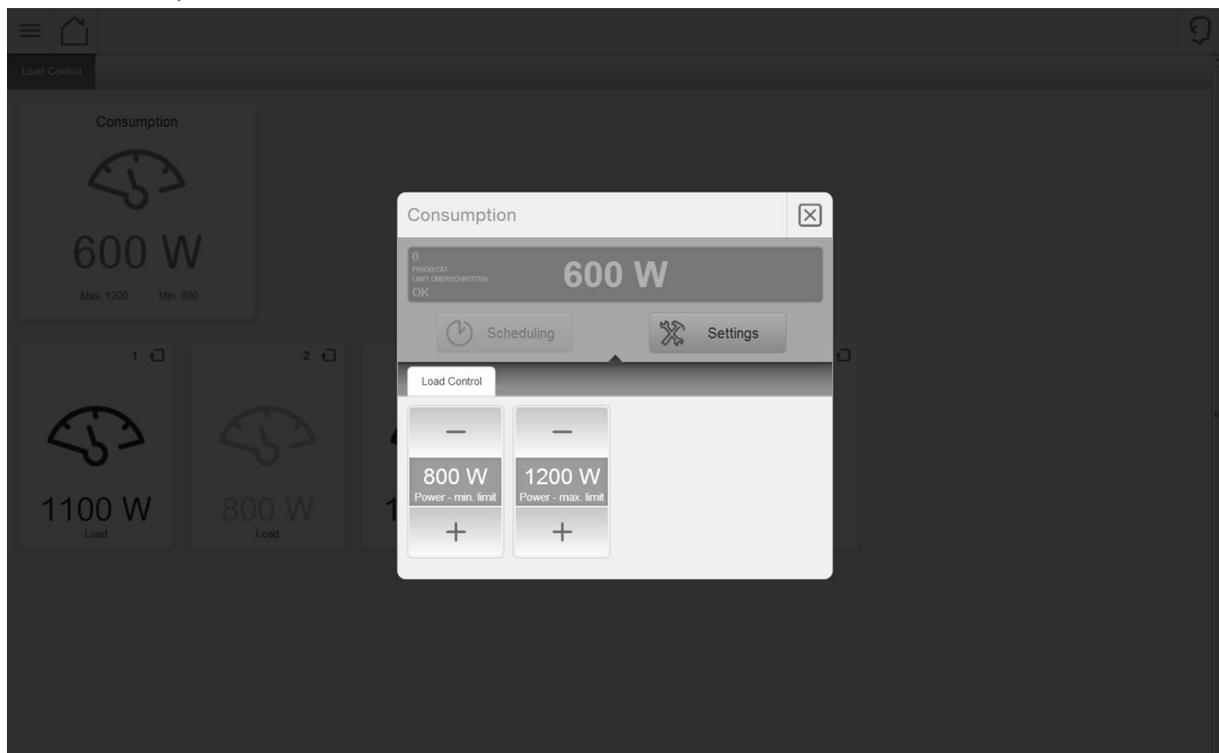
The energy counter in the upper area shows the total consumption of the system in relation to the configured limits of the load control. On the right side two icons inform about the current state of the load control logic (idle or active) and the current priority value:



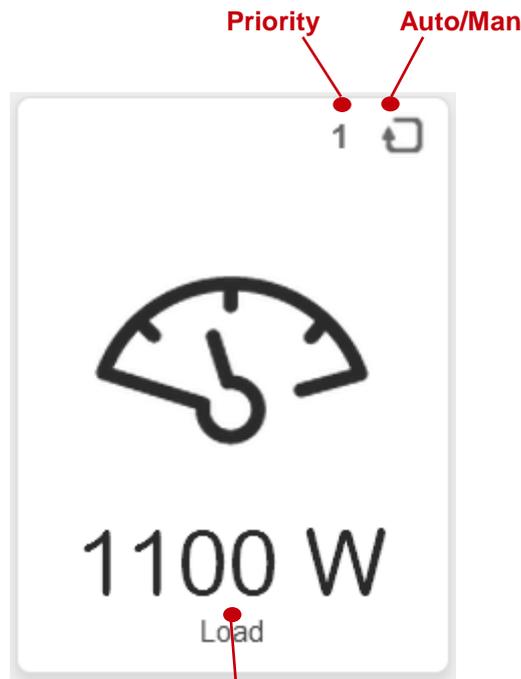
Under normal circumstances the priority value equals 0; if, however, the configured maximum limit is exceeded, the priority is increased on 1 and all loads connected to this priority are disabled. If the consumption still remains over the limit, the priority is furthermore increased (and corresponding loads are switched off), until the maximum priority value is reached.

If instead the consumption goes back below the configured minimum limit, the load control starts acting in the opposite way; the priority value is decreased and previously disabled loads are turned back on.

The limits of the load control can be changed easily through the pop-up window, which appears when the energy counter of the total consumption is clicked:

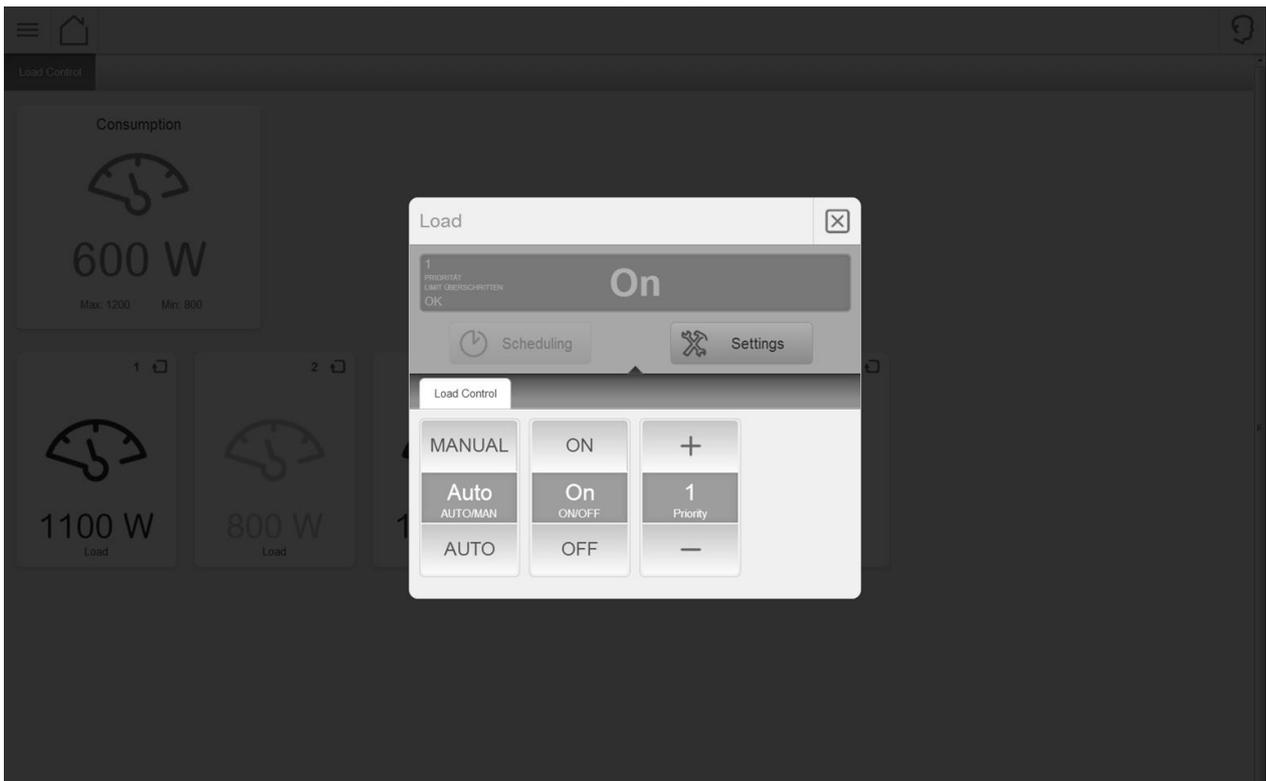


The single loads, in contrast to the overall consumption, show the following information:



Current power consumption (if available)

Also in this case, the properties of the single loads (for example the priority) can be changed through the pop-up window, which is shown when clicking on the corresponding energy counter:



As you can see in above screenshot, a load can also be put into a MANUAL mode; in this case, the load is not disabled by the load control of U.motion KNX Server Plus Touch but can only be controlled manually by the user (this can be helpful in order to exclude loads temporarily from forced switch-off).

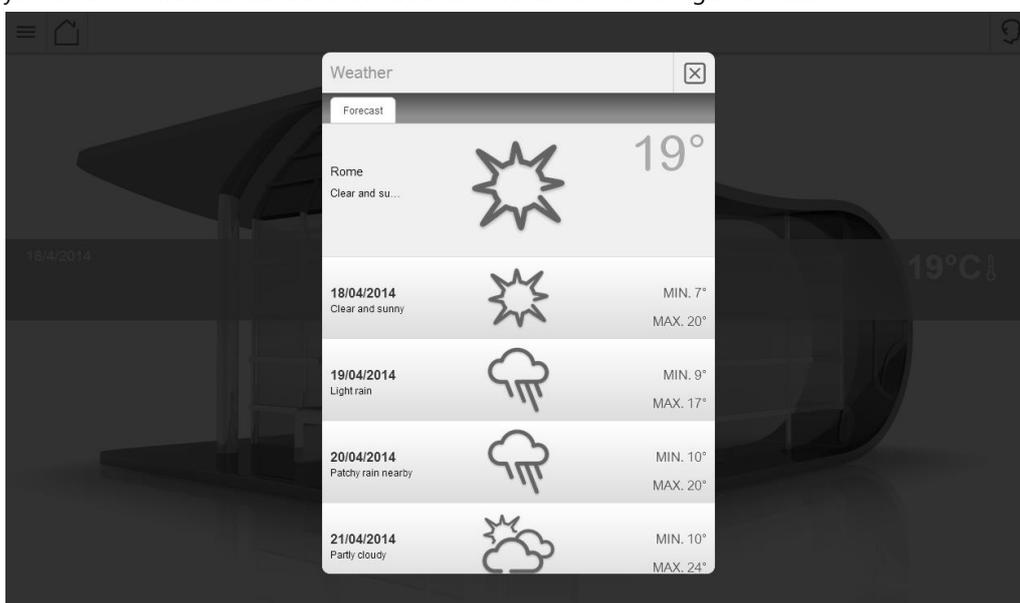
# 10 WEATHER

## 10.1 INTRODUCTION

U.motion KNX Server Plus Touch allows quick and easy display of weather data, which are obtained either over the internet or – if available - from a connected KNX weather station.

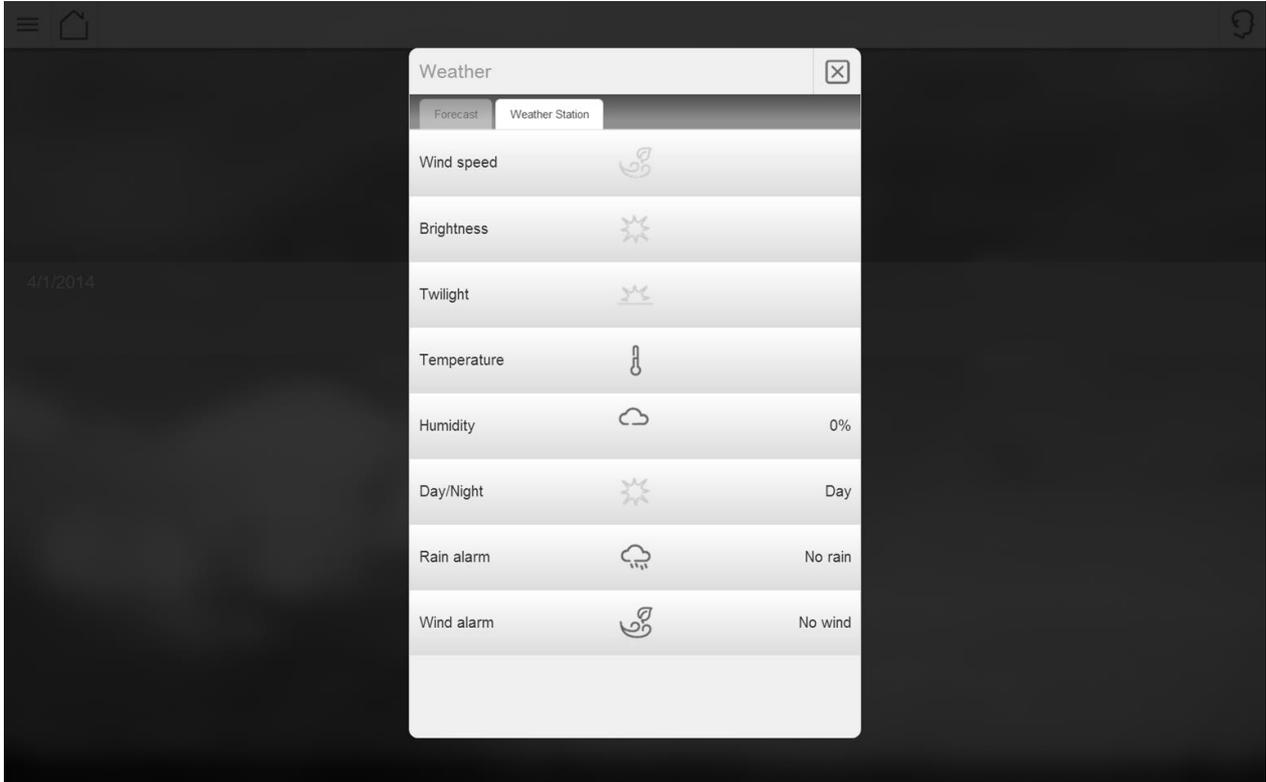
## 10.2 WEATHER PREVIEW

By selecting the entry "WEATHER" in the NAVIGATION MENU or in the HOME page, a pop-up window will be opened, which displays the current weather data and the weather forecast of the configured location:



## 10.3 KNX WEATHER STATION

If a KNX weather station is installed in the system and integrated into U.motion KNX Server Plus Touch correctly by the installer, in the WEATHER pop-up window it will be possible to select a second tab containing the data provided by the KNX weather station:



The displayed values depend on the data provided by the weather station.

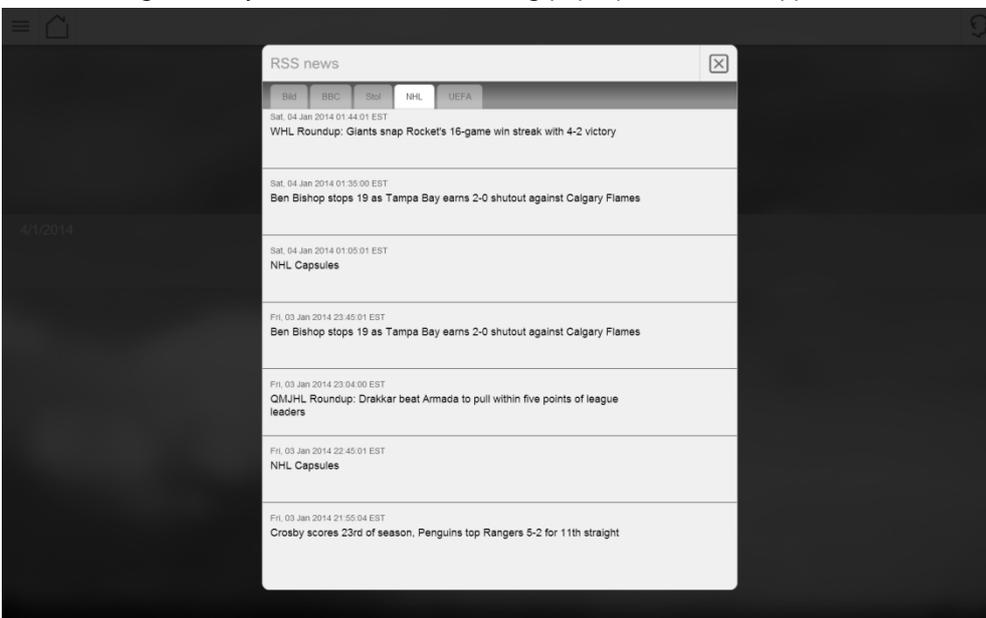
# 11 RSS FEEDS

## 11.1 INTRODUCTION

U.motion KNX Server Plus Touch permits to embed messages from one or more RSS feeds from the Internet. The RSS feeds can be accessed through the entry "RSS NEWS" in the NAVIGATION MENU or the HOME page.

## 11.2 VISUALISATION OF FEEDS

After selecting the entry "RSS NEWS" the following pop-up window will appear:

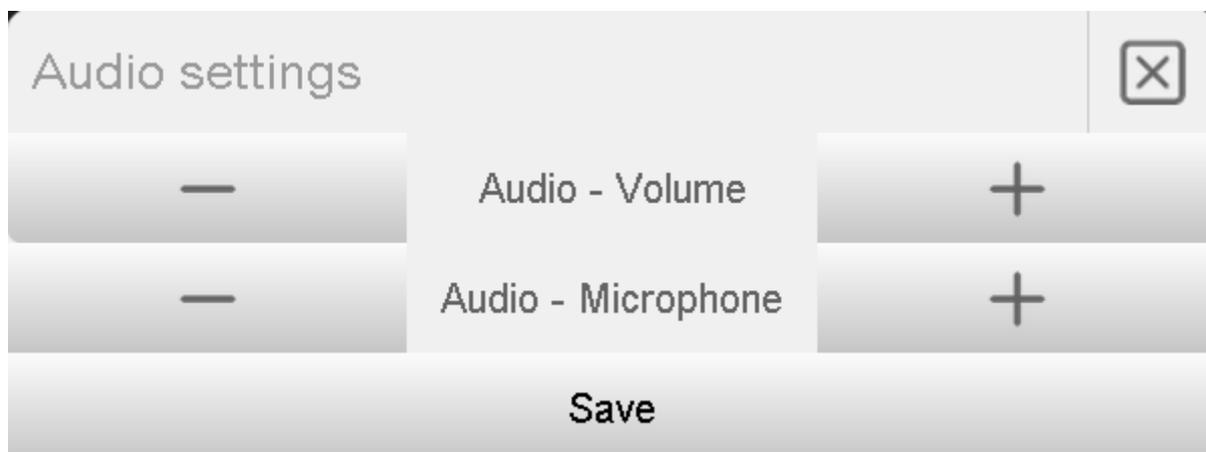


Depending on the number of configured RSS feeds (max. 5) you can switch between the single tabs. Within a feed it is possible to scroll up and down with a mouse wheel (on PC / MAC) or through *touch-gestures* (for touch devices).

# 12 AUDIO / VIDEO

## 12.1 AUDIO SETTINGS

U.motion KNX Server Plus Touch contains a special complex object called „Audio Settings“, through which the system volumes of U.motion KNX Server Plus Touch can be adapted and saved. This object is only reachable through the submenu “AUDIO/VIDEO” of the navigation menu. Through this complex object it is possible to change the sensitivity of the microphone and the volume of the loudspeaker; the values can be stored permanently by pressing the “SAVE”-button:



For the intercom communication a fine tuning of the conversation volume is possible; more information about this topic can be found in the INTERCOM manual of U.motion KNX Server Plus Touch.

