UWP 3.0 WEB APP

INSTRUCTION MANUAL

Mar. ’19

Index

Updated version

Content subject to change.
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Introduction

In this chapter, we're going to describe the UWP 3.0 system.

General description

UWP 3.0 is a monitoring gateway and controller that allows to monitor and control installations where Energy Efficiency Management, Building Automation and Car Park Guidance functions are needed.

The system:

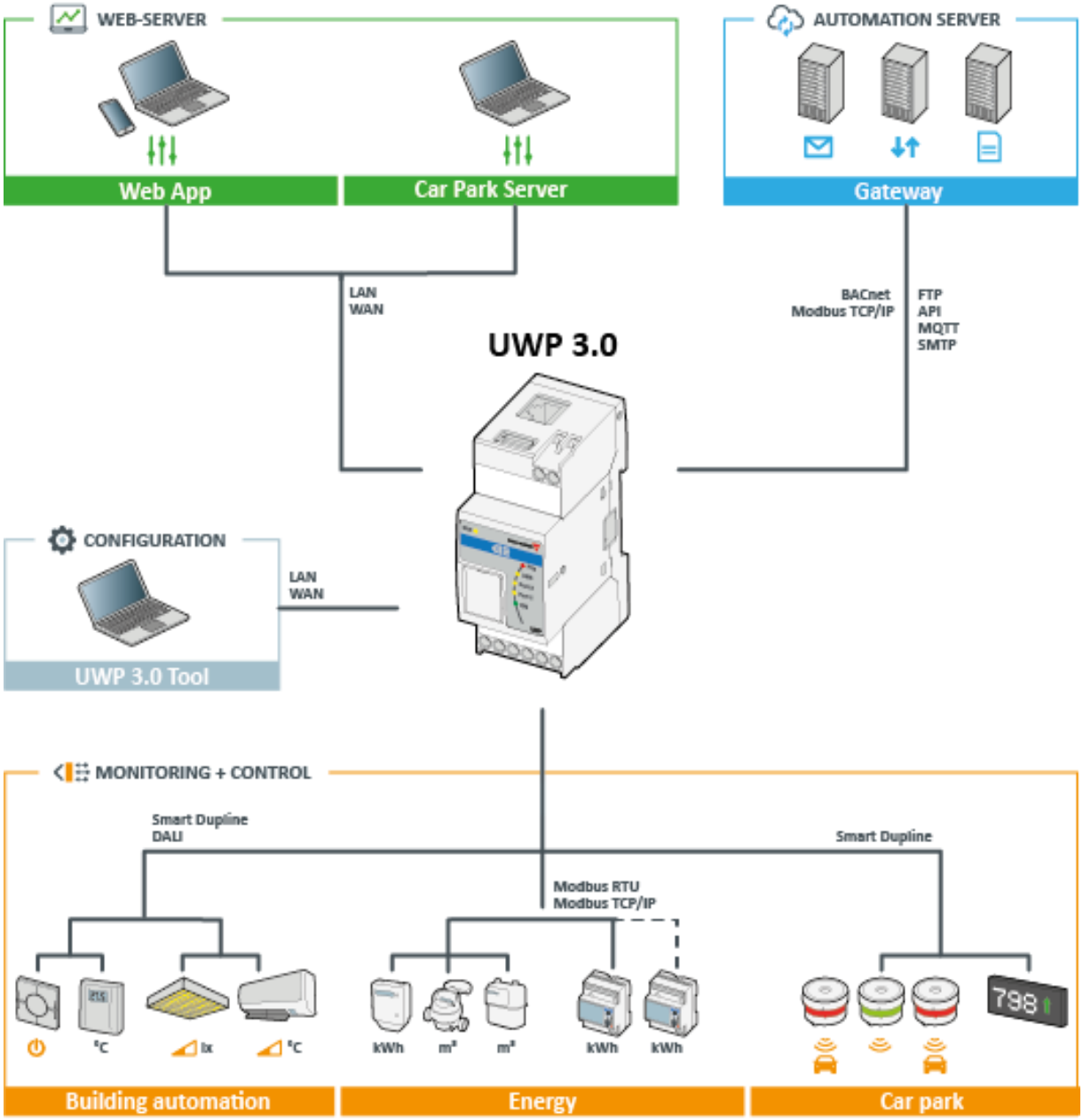
- monitors and controls connected devices via its local bus management functions;
- includes a web server with a powerful and intuitive user interface that displays custom dashboards
- interacts with local devices and remote systems.

The UWP 3.0 embedded automation server (see ***Services*** (Automation server)) allows you to exchange data locally or remotely via standard Internet protocols.

The UWP 3.0 Web App is the UWP 3.0 Web Interface accessible through standard browsers such as Google Chrome, Mozilla Firefox or Microsoft Edge, from Mobile or Desktop devices. Through widgets contained in predefined and custom dashboards, it allows you to:

- view and export collected data;
- control the automation functions;
- define specific settings.

System architecture



Main features

The Web App allows you to:

- view collected data as real time values or charts;
- generate data and events reports;
- manage and adjust the functions parameters (e.g. to modify temperature set points);
- send commands (e.g. to switch on/off or to select scenarios);
- configure Data Push Services to FTP/SFTP/FTPS servers or Em^2-Server (Carlo Gavazzi);
- configure MQTT link to IoT Hubs (Microsoft Azure).

Compatible systems (M2M)

The UWP 3.0 compatible systems are:

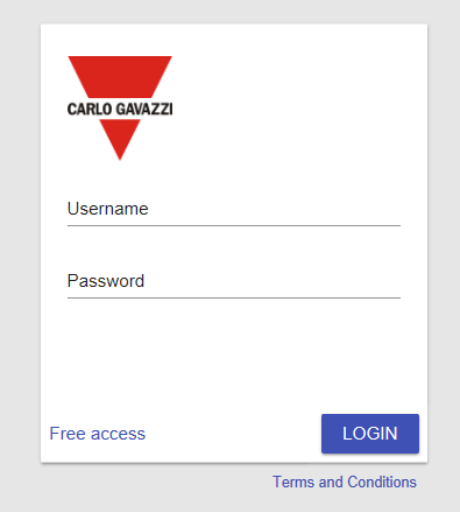
- Em^2-Server (Carlo Gavazzi);
- FTP/SFTP/FTPS servers;
- Microsoft Azure IoT Hub.

Installation and first access

This chapter is intended to describe the UWP 3.0 Web App installation process and the first access.

How to access/First access

In the following chapter, it is described the procedure to access the Web App.

STEP	ACTION
1	From any standard web browser, access by typing the IP address.
2	In the access area, type valid credentials.  **1. Access area**
3	Click on **Login.**
4	Read and accept the **Terms and Conditions**. ⚠ *If you do not accept these terms, you cannot access the Web App.*

Notes:

- The **Terms and Conditions** will appear only the very first time you access the Web App;
- After having logged in, you will be redirected to the ***Home page***.

User interface

COMPONENT	DESCRIPTION
	Custom logo (for more information, see ***Settings menu***).
Username **Password**	Credentials (depending on the type of user*). ***Note**: see ***User types.***
Free access	To access without credentials.  See ***Free access.***
LOGIN	To access the Web App.
Terms and Conditions	Use conditions.  *Read and accept them.*

Things to know

In this chapter, you can find information about the HW part installation and the supported **types of Users**.

Installation

To install the HW part and for the system commissioning, refer to the ***UWP 3.0 Tool*** (***Configuration software) manual.***

User types

The UWP 3.0 Web App manages two types of user:

- **admin** and
- **user**.

The **admin** user can access more functions than the **user** (see in the following chapters).

 *See the **UWP 3.0 Tool manual.***

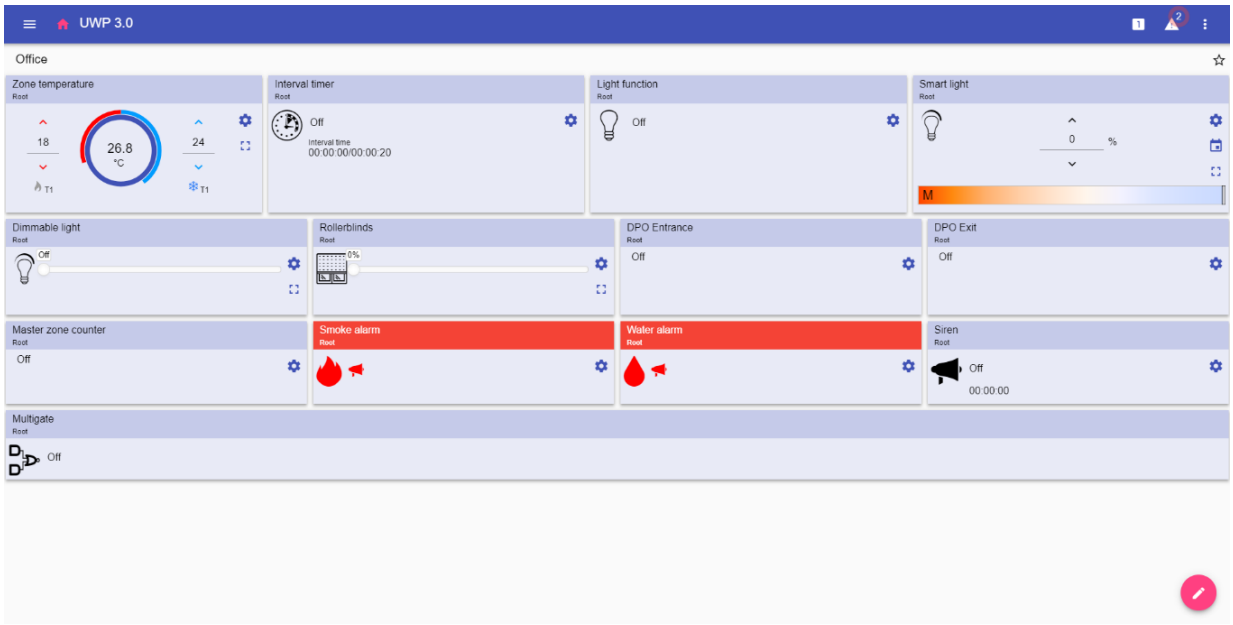
Free access

If you select the **Free access**, the following options will not be available:

- **Settings menu** (see ***Settings menu***);
- *Editing mode* (see the following chapters);
- **Main menu** options (except the logout; see ***Main menu***).

Home page

This chapter is intended to describe the Web App **Home page**.

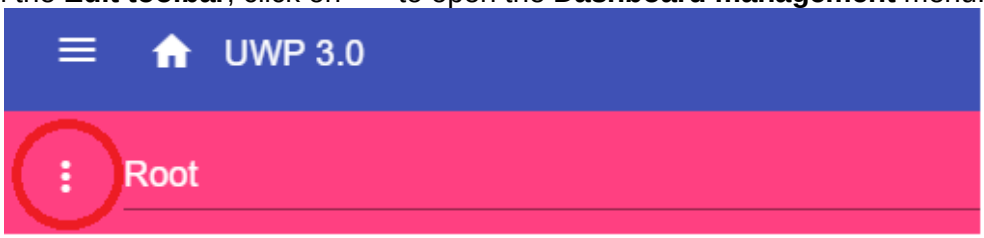
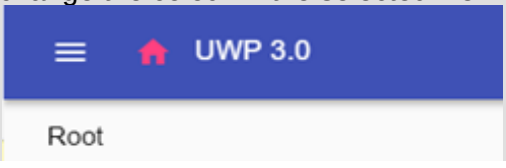


2. Home page

User interface

AREA	DESCRIPTION	
Navigation bar	**ICON**	**FUNCTION**
	☰	To access the **Main menu.**
	←	To go back to the previous page. **Note**: This option is available only when you are navigating the **Main menu** options (see ***Main menu***).
	⌂	To go back to the **Home page.**
	⋮	To access the **Settings menu.**
Widget area	**ICON**	**FUNCTION**
	FIRST FLOOR	**Page selector**: to select the dashboard to view.
	☆	*Favourites* menu: you can add or remove the dashboard to/from the *favourites* list, displayed in the navigation bar. **Note**: Once you have marked a dashboard as a favourite, the relevant icon will appear in the navigation bar.
	✎	To access the *editing mode.*

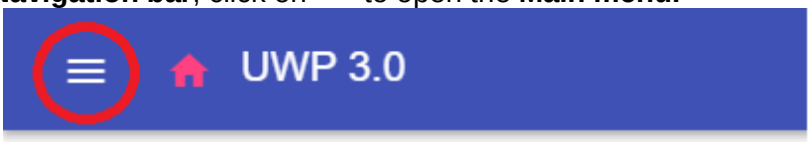
How to set the home page

STEP	ACTION
1	From the desired dashboard, click on to enter the *editing mode*.  3. **Editing mode access**
2	From the **Edit toolbar**, click on to open the **Dashboard management** menu.  4. **Edit toolbar** For further information, see ***Dashboards***.
3	Click on **Set as homepage**.
4	Click on to save. **Note**: the icon will change the colour in the selected **Home page.** 

Main menu

This chapter is intended to describe the Web App **Main menu**.

How to access the main menu

STEP	ACTION
1	From the **Navigation bar**, click on ☰ to open the **Main menu.**  **5. Main menu**
2	Select the desired option (see the following chapter).

Note: This menu is not available if you choose the ***Free access***.

User interface

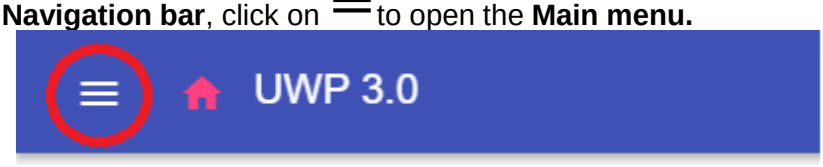
In this chapter, you can find information concerning the **Main menu** options.

AREA	DESCRIPTION
	Custom Logo  To change the logo, go to the **Settings menu**.
	Logout
Lights › **Temperature Control** › **Roller blinds** › **Sequence** ›	**Functions dashboard** menu. **Note**: It depends on the configuration made by means of the UWP 3.0 Tool (see the ***UWP 3.0 Tool manual***).
Alarms › **Reports** › **Search** ›	Widgets and data management.
Services ›	**Services** (automation server) menu: • **Data push service;** • **Azure IoT Hub service;** • **Modbus gateway;** • **Remote support VPN;** • **API.**  For further information, see ***Services (Automation server).***
System Info ›	Information concerning the system: • Serial number, Mac address and Firmware version **(Information);** • UWP date / time and time zone **(Date and time*);** • Connected automation bus subnet, Modbus RTU COM1/COM2 devices, TCP devices, Total processed signals **(Signals);** • Ethernet and Modem Status **(Connection status).** ***Note**: these fields can be changed by means of the **Settings menu**.
System settings ›	To manage: • **Network settings;** • **Dynamic DNS.**
Online guide 	Web App Instruction manual (online version).

Services (Automation server)

This chapter is intended to describe the **Automation server** services: **Data push, Azure IoT Hub, AWS IoT, Modbus gateway, Remote support VPN** and **API**.

How to access the services

STEP	ACTION
1	From the **Navigation bar**, click on ☰ to open the **Main menu.**  **6. Main menu**
2	Select **Services** ›

User interface

The following chapters describe each service page structure.

Data push service

<table>
<tr><th>AREA</th><th>DESCRIPTION</th></tr>
<tr><td>📍</td><td>UWP 3.0 installation position.</td></tr>
<tr><td>Service configuration</td><td>
<table>
<tr><th>ELEMENT</th><th>DESCRIPTION</th></tr>
<tr><td>Start date</td><td>Sending data date/time
⏱ = Apply</td></tr>
<tr><td>Host address</td><td>Em²-Server address
⇄ = Connection test</td></tr>
<tr><td>Upload interval</td><td>Data pushing interval expressed in minutes.</td></tr>
<tr><td>Command verify interval</td><td>It indicates how often the UWP 3.0 verifies the presence in the Em²-Server of commands to execute.</td></tr>
<tr><td>Service</td><td>Disabling/Enabling</td></tr>
</table>
</td></tr>
<tr><td>📍 Coordinates</td><td>UWP 3.0 installation position.</td></tr>
<tr><td>ⓘ Information</td><td>Information concerning the service.
<table>
<tr><th>ELEMENT</th><th>DESCRIPTION</th></tr>
<tr><td>Status</td><td>Service status:
● Active / ○ Inactive</td></tr>
<tr><td>Last data transmission</td><td>Date/time of the last data transmission.</td></tr>
<tr><td>Last sample sent</td><td>Date/time of the last sent sample.</td></tr>
<tr><td>Show logs - OK</td><td>Logs list successfully loaded.</td></tr>
<tr><td>Show logs - Errors</td><td>Logs list errors.</td></tr>
<tr><td>Server version</td><td>Installed software version on Em²-Server.</td></tr>
</table>
</td></tr>
<tr><td>Commands</td><td>Configuration manual commands.
<table>
<tr><th>ELEMENT</th><th>DESCRIPTION</th></tr>
<tr><td>Partial configuration</td><td>To send the last changes of the devices configurations.</td></tr>
<tr><td>Complete configuration</td><td>To send all the devices configurations.</td></tr>
<tr><td>Commands request</td><td>To subscribe to the commands published by the connected Em²-Server.</td></tr>
</table>
</td></tr>
<tr><td>💾</td><td>To save the configuration.</td></tr>
</table>

Azure IoT Hub service

<table>
<tr><th>AREA</th><th>DESCRIPTION</th></tr>
<tr><td>Service configuration</td><td>
<table>
<tr><th>ELEMENT</th><th>DESCRIPTION</th></tr>
<tr><td>Connection string</td><td>For device registration/un-registration.
= Connection test

Note: Available only when the service is enabled.</td></tr>
<tr><td>Start date</td><td>Sending data date/time
= Apply</td></tr>
<tr><td>Upload interval</td><td>Data pushing interval expressed in minutes.</td></tr>
<tr><td>Service</td><td>Disabling/Enabling</td></tr>
</table>
</td></tr>
<tr><td>Information</td><td>Information concerning the service.
<table>
<tr><th>ELEMENT</th><th>DESCRIPTION</th></tr>
<tr><td>Status</td><td>Service status:
Active / Inactive</td></tr>
<tr><td>Last data transmission</td><td>Date/time of the last data transmission.</td></tr>
<tr><td>Show logs – OK</td><td>Logs list successfully loaded.</td></tr>
<tr><td>Show logs - Errors</td><td>Logs list errors.</td></tr>
</table>
</td></tr>
<tr><td>Selected devices</td><td>The data are collected from the Selected devices.</td></tr>
<tr><td></td><td>To save the configuration.</td></tr>
</table>

AWS IoT service

<table>
<tr><th>AREA</th><th>DESCRIPTION</th></tr>
<tr><td>Service configuration</td><td>
<table>
<tr><th>ELEMENT</th><th>DESCRIPTION</th></tr>
<tr><td>Connection string</td><td>For device registration/un-registration.
= Connection test

Note: Available only when the service is enabled.</td></tr>
<tr><td>Client ID</td><td>Client ID</td></tr>
<tr><td>Topic</td><td>Defined by the user</td></tr>
<tr><td>Security certificates</td><td>Uploading of the Device Certificate and the Private Key generated using AWS online tools.

Note: They have both to be uploaded.</td></tr>
<tr><td>Start date</td><td>Sending data date/time
= Apply</td></tr>
<tr><td>Upload interval</td><td>Data pushing interval expressed in minutes.</td></tr>
<tr><td>Service</td><td>Disabling/Enabling</td></tr>
</table>
</td></tr>
<tr><td>Information</td><td>Information concerning the service.
<table>
<tr><th>ELEMENT</th><th>DESCRIPTION</th></tr>
<tr><td>Status</td><td>Service status:
Active / Inactive</td></tr>
<tr><td>Last data transmission</td><td>Date/time of the last data transmission.</td></tr>
<tr><td>Show logs - OK</td><td>Logs list successfully loaded.</td></tr>
<tr><td>Show logs - Errors</td><td>Logs list errors.</td></tr>
</table>
</td></tr>
<tr><td>Selected devices</td><td>The data are collected from the Selected devices.</td></tr>
<tr><td></td><td>To save the configuration.</td></tr>
</table>

Modbus gateway

AREA	DESCRIPTION
Service configuration	**Port:** 503 (selectable)
	Service Enabling/Disabling.
	To **save** the configuration

Remote support VPN

AREA	DESCRIPTION
Service configuration	Service Enabling/Disabling.
Information	Service status: Active / Inactive
	To **save** the configuration.

API

For further information, go to ***www.productselection.net/Documents/UK/uwp3.0_API.pdf.***

Things to know

The following chapter describes the services available on the Web App.

Data push service functions

The **Data push** service allows you to send data from the UWP 3.0 to the Em^2-Server.

Azure IoT Hub service

The **Azure IoT Hub** service allows you to send data from the selected devices to the UWP 3.0.

AWS IoT service

UWP 3.0 is compatible with Amazon AWS IoT. By having data available on Amazon AWS, users can leverage the powerful Amazon tools for:

a) Integrating other data source data;

b) Sharing information with other systems;

c) Using the best Business Intelligence tools to dig into data.

For further information, go to
www.productselection.net/Documents/UK/uwp3.0_AWS.pdf

Modbus gateway service

This bridging feature allows you to use the UWP 3.0 as a **Modbus gateway**, in order to route any Modbus TCP/IP request to a specific meter connected on the serial ports (COM1 and COM2) of the UWP 3.0.

Once the service has been activated, two specific slave IDs are available, connecting to the relevant TCP port (default: 503):

- slave ID 248: dedicated ID to configure all Modbus gateway parameters. Specific registers allow to set properly all communication parameters that are needed to reach the desired meter connected on the serial ports (COM1 and COM2) of the UWP 3.0.
- slave ID 249: dedicated ID that collects all Modbus TCP/IP requests from the remote SCADA/software, to be routed to the desired slave ID (Target slave ID) connected on the ports (COM1 and COM2) of the UWP 3.0.

Modbus gateway configuration parameters

All following registers are available in reading/writing mode by means of Modbus request to slave 248:

Register address	Name	Type	Default	Values
0x0000	Target slave ID	int16	99	1..247
0x0001	Baud rate	int16	7 [9600bps]	0=110, 1=150, 2=300, 3=600, 4=1200, 5=2400, 6=4800, 7=9600, 8=19200, 9=38400, 10=57600, 11=115200, 12=256000
0x0002	Data bits	int16	8	
0x0003	Parity	int16	0 [none]	0=none, 1=odd, 2=even
0x0004	Stop bit	int16	1	
0x0005	Time out	int16	1000	

Accepted Modbus functions for Modbus ID 248 are:
0x03 read holding register
0x06 Write single register
0x010 Write multiple registers

Accepted Modbus functions for Modbus ID 249 are all standard Modbus function (if supported by the slave).

Notes:
- All registers that refer to the ID 248 are reset to default values at every restart of the service or UWP 3.0 reboot.
- All configuration parameters that refer to the ID 248 are not reported in the PDF or XML Modbus map exported from UWP 3.0.

Example 1: reading of all default Modbus gateway parameters

To read all default parameters, using the UWP 3.0 IP address and Modbus ID 248, the following request must be sent:

Request [00h] [00h] [00h] [00h] [00h] [06h] [F8h] [03h] [00h] [00h] [00h] [05h]

Where…

[00h] [00h] : Transaction Identifier
[00h] [00h] : Protocol Identifier
[00h] [06h] : Message Length, 6 bytes
[F8h] : Modbus ID 248
[03h] : Function code
[00h] [00h] : Address of the first register to be read
[00h] [05h] : Number of registers to be read

Response [00h] [00h] [00h] [00h] [00h] [0Dh] [F8h] [03h] [0Ah] [00h] [63h] [00h] [07h] [00h] [08h] [00h] [00h] [00h] [01h]

Where…

[00h] [00h] : Transaction Identifier
[00h] [00h] : Protocol Identifier
[00h] [0Dh] : Message Length, 13 bytes
[F8h] : Modbus ID 248
[03h] : Function code
[0Ah] : Byte count (number of following bytes)
[00h] [63h] : Target slave ID (63h = 99d)
[00h] [07h] : Baud rate (7 = 9600)
[00h] [08h] : Data bits
[00h] [00h] : Parity (0 = None)
[00h] [01h] : Stop bit

Example 2: reading of 10 registers from slave ID 99, starting from register 0050h.

To read 10 registers from slave ID 99, starting from register 0050h, using the VMU-C IP address and Modbus ID 249, the following request must be sent:

Request [00h] [00h] [00h] [00h] [00h] [06h] [F9h] [03h] [00h] [50h] [00h] [0Ah]

Where…

[00h] [00h] : Transaction Identifier
[00h] [00h] : Protocol Identifier
[00h] [06h] : Message Length, 6 bytes
[F9h] : Modbus ID 249
[03h] : Function code
[00h] [50h] : Address of the first register to be read
[00h] [0Ah] : Number of registers to be read (Ah = 10d)

Response [00h] [00h] [00h] [00h] [00h] [17h] [F9h] [03h] [14h] [5Fh] [8Bh] [43h] [62h] [66h] [56h] [43h] [62h] [64h]
[E0h] [43h] [62h] [63h] [95h] [43h] [62h] [00h] [00h] [00h] [00h]

Where…

[00h] [00h] : Transaction Identifier
[00h] [00h] : Protocol Identifier
[00h] [17h] : Message Length, 23 bytes
[F9h] : Modbus ID 249
[03h] : Function code
[14h] : Byte count (number of following bytes)
[5Fh] [8Bh] : value of register 1
[43h] [62h] : value of register 2
[66h] [56h] : value of register 3
[43h] [62h] : value of register 4
[64h] [E0h] : value of register 5
[43h] [62h] : value of register 6
[63h] [95h] : value of register 7
[43h] [62h] : value of register 8
[00h] [00h] : value of register 9
[00h] [00h] : value of register 10

Remote support VPN service

The **VPN** service is a remote access service that **Carlo Gavazzi Controls** activates to provide remote assistance.

API

The UWP Rest-API is a RESTful application programming interface (A.P.I.) that allows other systems to interact with UWP by means of Web Services in a secure, scalable and reliable way.

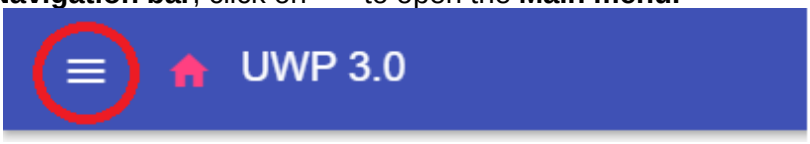
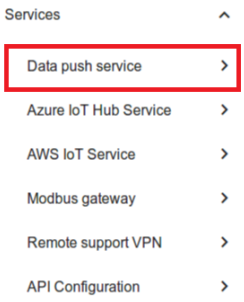
Through this service, it's possible to system integrators, software developers and system administrators to access the UWP resources via URL paths, using standard HTTP commands such as GET, POST, PUT, and DELETE. As a result, a JSON file is returned.

The description of UWP's Rest-API is beyond the scope of this document. For further information, go to ***www.productselection.net/Documents/UK/uwp3.0_API.pdf.***

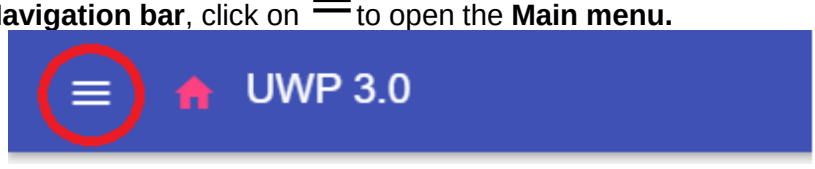
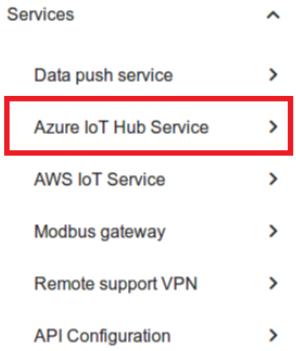
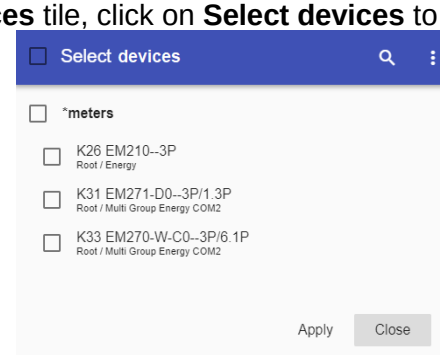
How to

In the following chapters, you can find the procedures to configure the **Data push**, the **Azure IoT Hub** services and to manage the **Modbus gateway** and **VPN** services. Moreover, you can find a link that redirects you to a document dedicated to the **API** service.

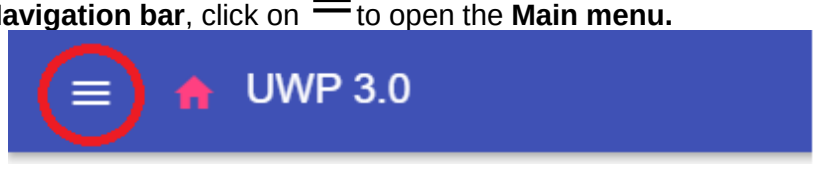
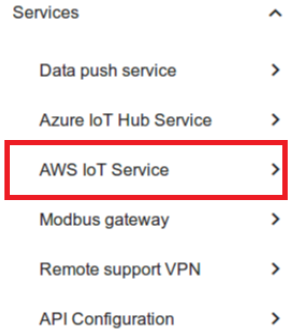
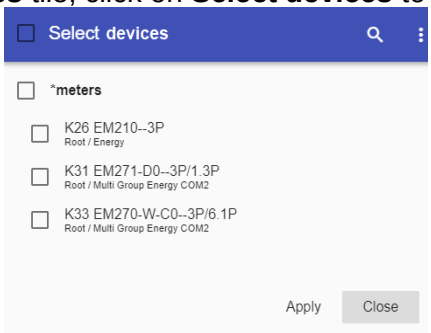
How to configure the Data push service

STEP	ACTION
1	From the **Navigation bar**, click on ☰ to open the **Main menu.**  **7. Main menu access**
2	From the **Services** menu, select the **Data Push service** to open the configuration page.  **8. Data push service option**
3	In the **Service configuration** tile, insert the: • **Start date** • **Host** (Em^2-Server) **address** • **Upload interval** • **Command verify interval**.
4	From the same tile, click on ▼ (under **Service**) to select **Enable**.
5	From the **Commands** tile, select the **Configuration** option: **If you want to…** / **Then select…** send the last changes of devices configurations → The **Partial configuration**. send all the devices configurations → The **Complete configuration**. request a verification of the presence (in the server) of commands to execute without waiting for the automatic check → **Commands request.**
6	Click on 💾 to **save** the configuration.
7	From the **Information** tile, check on the service status.

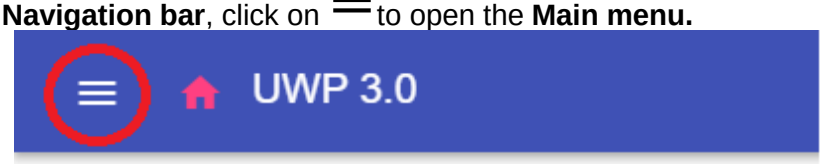
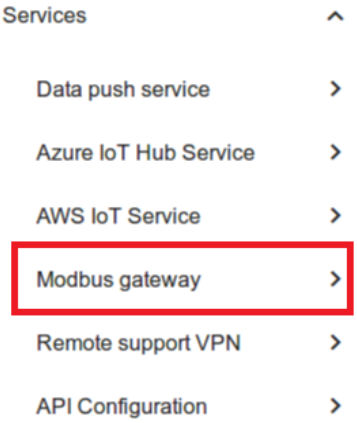
How to configure the Azure IoT Hub service

STEP	ACTION
1	From the **Navigation bar**, click on ☰ to open the **Main menu.**  **9. Main menu access**
2	From the **Services** menu, select the **Azure IoT Hub service** to open the configuration page.  **10. Azure IoT Hub service option**
3	From the **Service configuration** tile, click on ▼ (under **Service**) to select **Enable**.
4	In the same tile, add the: • **Connection string** and • **Upload interval**. **Note**: The **Start date** is not available when the service is enabled.
5	From the **Selected devices** tile, click on **Select devices** to choose the variables.  **11. Select devices page**
6	Click on 💾 to **save** the configuration.
7	From the **Information** tile, check on the service status.

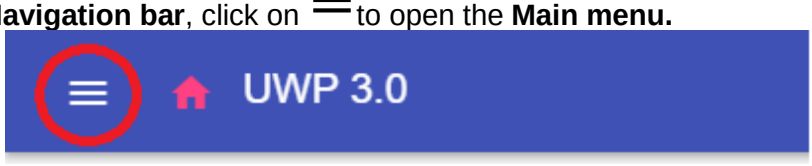
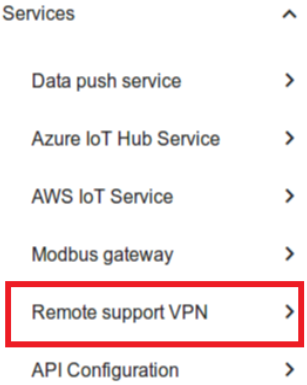
How to configure the AWS IoT service

STEP	ACTION
1	From the **Navigation bar**, click on ☰ to open the **Main menu.**  **12. Main menu access**
2	From the **Services** menu, select the **AWS IoT service** to open the configuration page.  **13. AWS IoT service option**
3	From the **Service configuration** tile, click on ▼ (under **Service**) to select **Enable**.
4	In the same tile, add the: • **Connection string** • **Client ID** • **Topic** • Security certificates and • **Upload interval**. **Note**: The **Start date** is not available when the service is enabled.
5	From the **Selected devices** tile, click on **Select devices** to choose the variables.  **14. Select devices page**
6	Click on 💾 to **save** the configuration.
7	From the **Information** tile, check on the service status.

How to manage the Modbus gateway service

STEP	ACTION
1	From the **Navigation bar**, click on ☰ to open the **Main menu.**  **15. Main menu access**
2	From the **Services** menu, select the **Modbus gateway** service**.**  **16. Modbus gateway option**
3	Choose a **port** by typing the number in the relevant field.
4	**Enable** the service.  **17. Enable/Disable menu**
5	Configure the parameters following the instructions described in the ***Modbus gateway configuration parameters*** paragraph.
6	Click on 💾 to **save** the configuration.

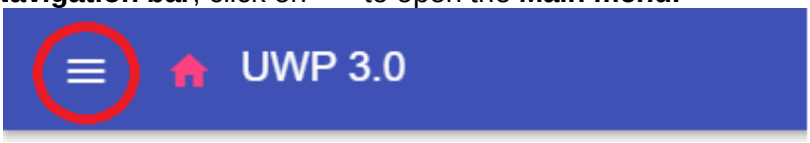
How to manage the remote support VPN service

STEP	ACTION
1	From the **Navigation bar**, click on ☰ to open the **Main menu.**  **18. Main menu access**
2	From the **Services** menu, select the **Remote support VPN.**  **19. Remote support VPN option**
3	**Enable** the service.  **20. Enable/Disable menu**
4	Click on 💾 to **save** the configuration.

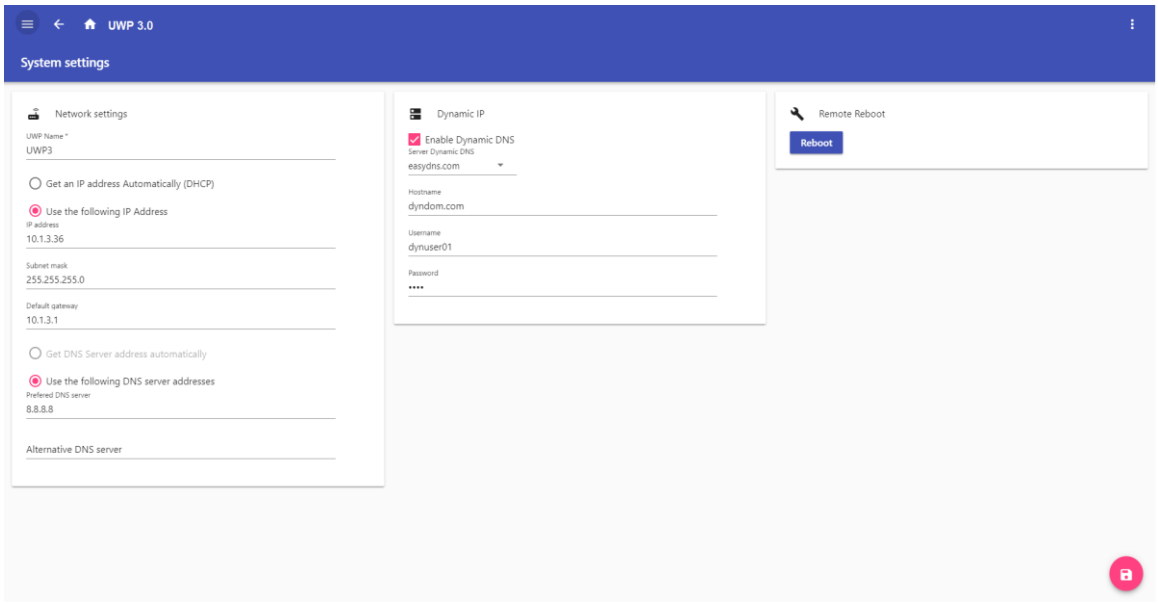
System settings

This chapter is intended to describe the **System settings**.

How to access the System settings

STEP	ACTION
1	From the **Navigation bar**, click on ☰ to open the **Main menu.**  **21. Main menu**
2	Select **System settings** ›

User interface



22. System settings

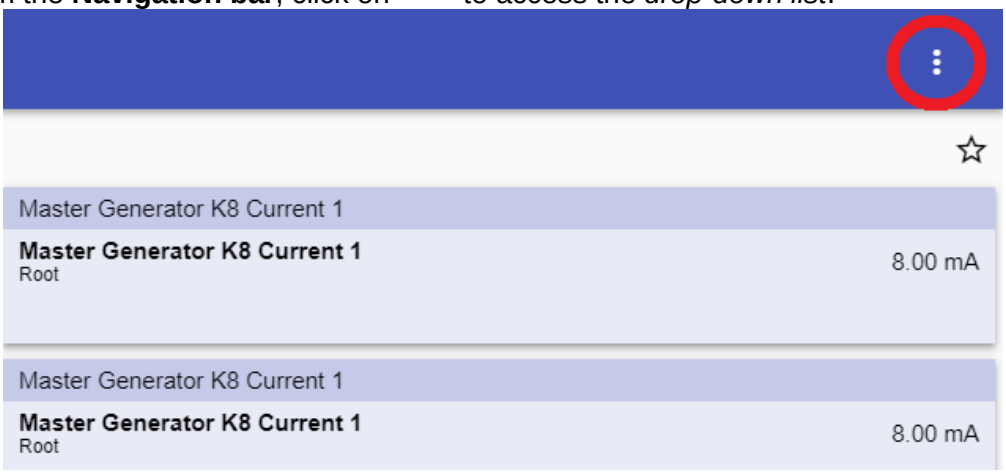
AREA	DESCRIPTION	
Network settings	**COMPONENT**	**FUNCTION**
	UWP Name*	You can change the UWP name.
	Get an IP address Automatically (DHCP, Dynamic Host Configuration Protocol)	By selecting this option, an IP address will be automatically assigned.
	Use the following IP Address	You can assign a static IP address by filling in the fields: • IP address • Subnet mask • Default gateway.
	Get DNS Server address automatically	By selecting this option, a DNS Server address will be automatically assigned. **Note**: This option is available only if you choose the DHCP.
	Use the following DNS Server addresses	You can assign a DNS Server address, by filling in the fields: • Preferred DNS server • Alternative DNS server.
	Note: the field marked with (*) is mandatory.	
Dynamic IP	**COMPONENT**	**FUNCTION**
	Enable Dynamic DNS	To enable the relevant options
	Dynamic Server DNS	You can select a DNS Server address from the list below
	Hostname	To type the Hostname
	Username	To type the Username
	Password	To type the Password
Reboot	To reboot UWP 3.0	

Settings menu

This chapter is intended to describe the Web App **Settings menu**.

Note: This menu is not available if you choose the **Free access**.

How to access the settings menu

STEP	ACTION
1	From the **Navigation bar**, click on ⋮ to access the *drop-down list*.  **23. Settings menu**
2	Select the settings to change.

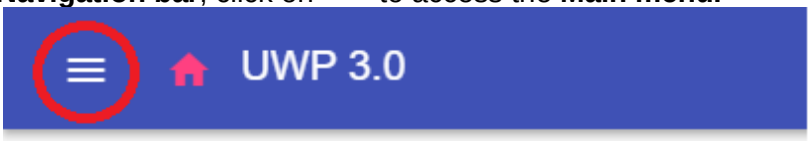
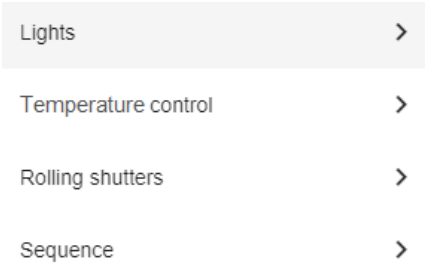
User interface

AREA	DESCRIPTION
Theme and colours	You can: • change the Web App **Theme** colours • change the **Icon** colours (**Colour for icon ON/OFF**); • change the **Font** and its size (**Zoom**); • **select** another **Logo** (displayed in the main menu and in the access page) * ⚠ *Once you have changed the logo, the previous image will be lost. Be sure to make a backup before changing it.* • **restore** the **default Logo**. ***Note**: Max dimensions: **300px per 95px (width x height)**. Max weight: **200kB**.
Language	To change the Web App language.
Date and time	You can: • Change the **UWP date and time**; • Select a **Time zone**; • **Enable** Network Time Protocol **(NTP)** for clock synchronization. For this function, you can indicate the server address (**server** 1 or **server 2**). **Note**: This information will appear in the System info page (see ***Main menu***).
User	You can change: • the **username;** • the **password;** • the **name;** • the **surname**.
Others	You can change: • the **Project name*** and • the **Naming levels**. ***Note**: This option is available only for the **Admin user**.
Maintenance*	You can: • save the Web App configuration as a .zip file (**Web App Database backup**), • load the Web App configuration from a previously saved file (**Restore database**) and • restore the **UWP 3.0 Tool** configurated locations, displayed as dashboards in the Web App, that contain functions, displayed as widgets in the Web App (**Set to default Web App**) • **Clean** the **Web App** • Switch to **Developer mode** (to see the labels keys). ***Note**: This field is available only for the **Admin user**.
Restore / Close	To restore the Web App settings / To close the **Settings menu.**

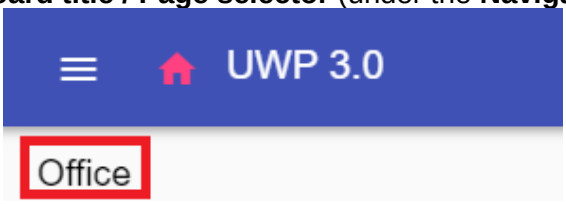
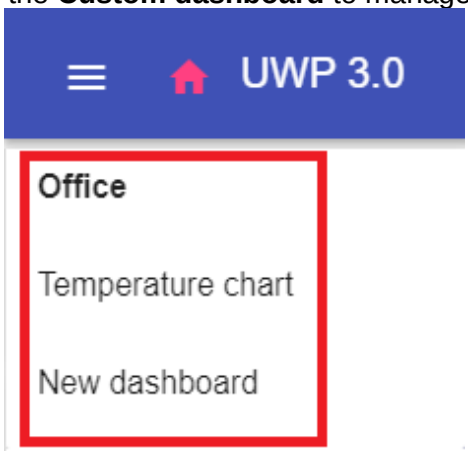
Dashboards

This chapter is dedicated to the Web App **Dashboards**.

How to access a function dashboard

STEP	ACTION
1	From the **Navigation bar**, click on ☰ to access the **Main menu.**  **24. Main menu access**
2	Select the desired **Function dashboard**.  **25. Function dashboards***
	Note**: the function dashboards list depends on the configuration made by means of the UWP 3.0 Tool (see ***UWP 3.0 Tool manual).

How to access a custom dashboard

STEP	ACTION
1	Click on the **Dashboard title / Page selector** (under the **Navigation bar**).  **26. Dashboard title / Page selector**
2	From the *list box*, select the **Custom dashboard** to manage.  **27. Custom dashboards list**

User interface

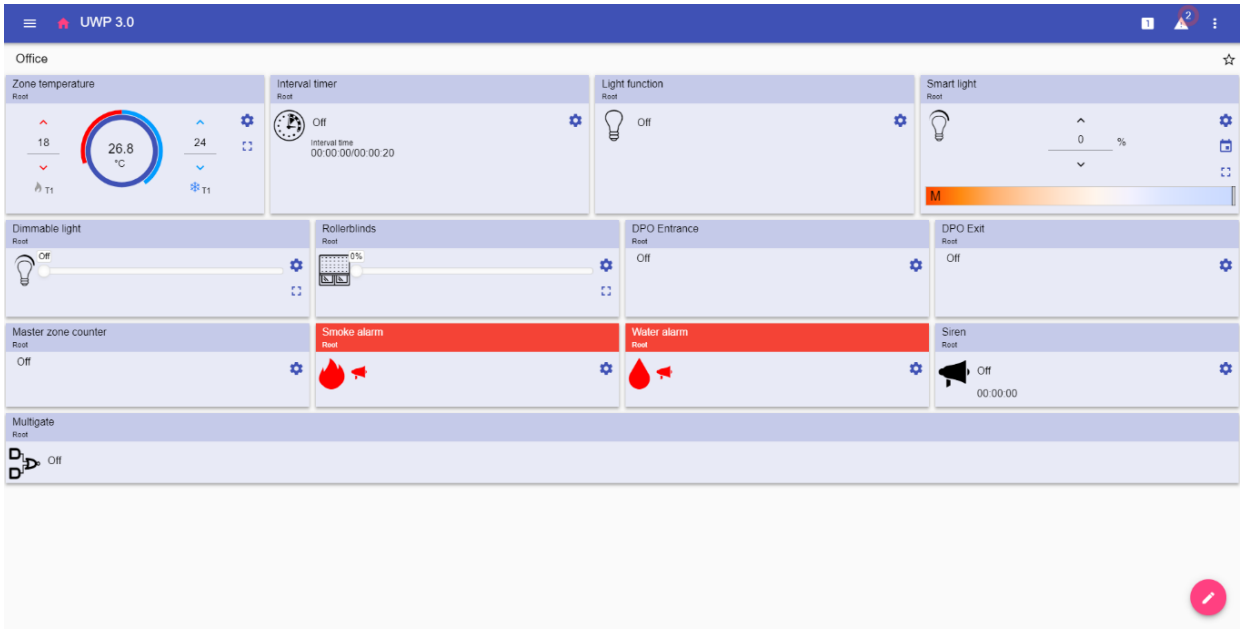
These chapters describe the different types of Dashboard structure and their common elements.

Common elements

AREA	DESCRIPTION
Office	**Dashboard** title / **Page selector** to change the viewed **dashboard.**
	**Editing mode** access: 

COMPONENT	FUNCTION
	Dashboard management menu. You can: • **Add** a new Dashboard; • **Move/Clone/Delete/Set as home page** an existing Dashboard or • Set the **background colour** • Manage the **Template editor** • **Allow/Remove free access.**
Root	To change the **Dashboard** title.
	To **save** the changes.
	To **discard** the changes.

Widget dashboard



28. Widget dashboard

ICON	DESCRIPTION
	Editing mode access:

ICON	FUNCTION
+	Add **widget** elements, such as: • **Functions** • **Real-time** • **History** • **Separator**. For further information concerning the widgets, see ***Types of widget***.

Custom chart dashboard

29. Custom chart dashboard

ICON	DESCRIPTION
	**Editing mode** access: 

COMPONENT	FUNCTION
	Layout preferences menu: • No column; • Left column; • Right column; • Two columns. **Note**: These options are available in the **Chart template** and the **Energy summary** dashboard too.
+	Add a type of **widget**
	To lock/Unlock the column(s).

⚠ *If you select a layout and then you select another one, the content of the first selected layout will be lost.*

Note: the other Dashboard elements are described in the previous chapter (***Widget dashboard***).

Chart template dashboard

30. Chart template dashboard

COMPONENT	DESCRIPTION
	To lock/Unlock the column(s).
	**Chart template** selector**.**
	**Devices selector**: you can select the devices whose variables will be displayed in the chart. ⚠ *If you open it, the widgets you have added in the relevant column disappear. When you close it, the widgets appear again.*

Note: The structure is described in the previous chapter (***Custom chart dashboard)***.

For information concerning the template creation, go to ***Widgets*** > ***How to*** > ***How to manage a chart template.***

Energy summary dashboard

This Dashboard contains the **Energy summary**: for each device (first column), the energy consumption (or production) is shown for different aggregation period (the last four columns).

31. Energy summary dashboard

AREA	DESCRIPTION	
Charts summary	**ICON**	**DESCRIPTION**
	☰	Layout preferences menu: • Daily Chart; • Monthly Chart; • Yearly Chart; • Total options.
	Device	Device whose data are displayed.
	Daily	Daily data viewing.
	Monthly	Monthly data viewing.
	Yearly	Yearly data viewing.
	Total	Total data viewing.
Widgets viewing area	Configurable columns.	
Editing mode	If you access this area (clicking on ✎), you can select: • The **conversion type;** • The **device;** • The **variables;** • The **engineering unit;** • The **scale.**	

Things to know

In these chapters, you can find information concerning the general concept of **Dashboard** and the different types of Dashboard you can manage from the UWP 3.0 Web App.

What is a dashboard

A **dashboard** is a widgets container where you can easily perform the following actions:

- To view real-time data and charts;
- To verify the alarms;
- To send commands (e.g. switch lights on/off, set the temperature, etc.),
- To set function parameters.

UWP 3.0 Web App allows you to view two types of dashboard: The **Function dashboard** and the **Custom dashboard.**

To get from one dashboard to another, it is possible to swipe left and right.

Function dashboard

A **Function dashboard** is automatically generated by the system during the configuration process.

Each **Function dashboard** contains all the widgets belonging to a specific type of function, whose name is given to the dashboard.

From the Web App, only the functions that have been set from the configuration software are available and they cannot be modified.

Custom dashboard

A **Custom dashboard** contains the widgets that you choose from the Web App.

In each dashboard, it is possible to set:

- the dashboard title and
- the associated widgets.

Moreover, there are four types of **Custom dashboards**:

- **Widget dashboard.** It allows you to manage and create widgets (see ***How to create a new widget***).

- **Custom chart dashboard**. This dashboard is dedicated to the charts creation and management.

- **Chart template dashboard.** This dashboard is dedicated to the chart templates that you can add, change or remove to create custom chart.

- **Energy summary dashboard**. This dashboard displays Daily, Monthly and Yearly consumption data for an ordered list of meters (selected by the user). Furthermore, by means of this page it is possible to:
  1. Select the variables out of the list of the available variables in the target meter.
  2. Change the engineering unit so as to align all the data to a common unit; a set of conversion scale factors is available. Nonetheless, you are free to change the scale according to the needs.

How to

In the following chapters, you can find procedures to create a **Custom dashboard**.

How to create a custom dashboard

<table>
<tr><th>STEP</th><th>ACTION</th></tr>
<tr><td>1</td><td>Go back to the Home page.</td></tr>
<tr><td>2</td><td>Access the editing mode by clicking on  .</td></tr>
<tr><td>3</td><td>From the edit toolbar, click on to open the Dashboard management menu.</td></tr>
<tr><td>4</td><td>Hover over Add to select the type of Custom dashboard to add.</td></tr>
<tr><td>5</td><td>Give the selected type of Custom dashboard a title.</td></tr>
<tr><td>6</td><td>Complete the selected Custom dashboard.
<table>
<tr><th>If you choose a…</th><th>Then…</th><th>And…</th></tr>
<tr><td>Widget dashboard</td><td>select a type of widget to add</td><td>click on Apply to save the selection</td></tr>
<tr><td>Custom chart or an Energy summary dashboard</td><td rowspan="2">select the layout preferences:
• No column
• Left column
• Right column
• Two columns</td><td>select the widget to add</td></tr>
<tr><td>Chart template</td><td>select the template (set of variables)</td></tr>
</table></td></tr>
<tr><td>7</td><td>Save by clicking on ✓ or click on ✕ to exit the editing mode.</td></tr>
</table>

For further information, see ***Custom chart dashboard, Energy summary dashboard*** and ***Chart template dashboard.***

How to manage a chart template

<table>
<tr><th>STEP</th><th>ACTION</th></tr>
<tr><td>1</td><td>From a dashboard, click on  to access the editing mode.</td></tr>
<tr><td>2</td><td>Click on to select the Template editor option.</td></tr>
<tr><td>3</td><td>From the Template editor page, click on  to access the editing mode.</td></tr>
<tr><td>4</td><td>
<table>
<tr><th>If you want…</th><th>Then…</th><th>And…</th></tr>
<tr><td>To create a new template</td><td>Click on  , select the variables to include in the template</td><td>Click on Apply to save the selection</td></tr>
<tr><td>To modify an existing template</td><td>Flag the template to modify, click on  to change the variables to include</td><td>Click on  to save the new selection</td></tr>
<tr><td>To delete an existing template</td><td>Flag the template to delete</td><td>Click on  to delete it</td></tr>
</table>
 The default templates (the grey ones) can be not modified or removed.
</td></tr>
<tr><td>5</td><td>Click on  to save the changes.</td></tr>
</table>

Widgets

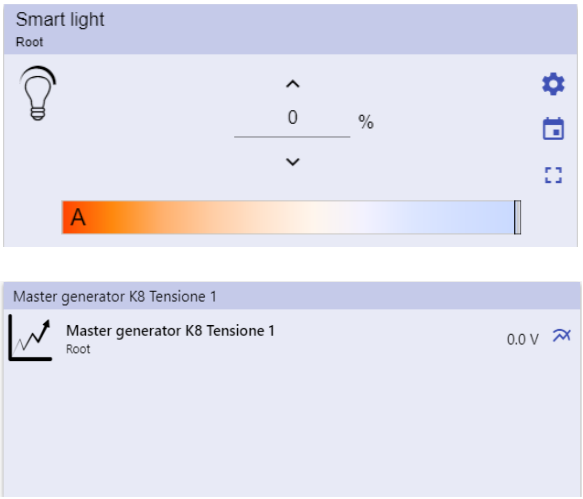
This chapter is dedicated to the **Widgets**, focusing on:

- The structure;
- What is a widget;
- The types of widget and
- The procedures to manage the widgets.

User interface

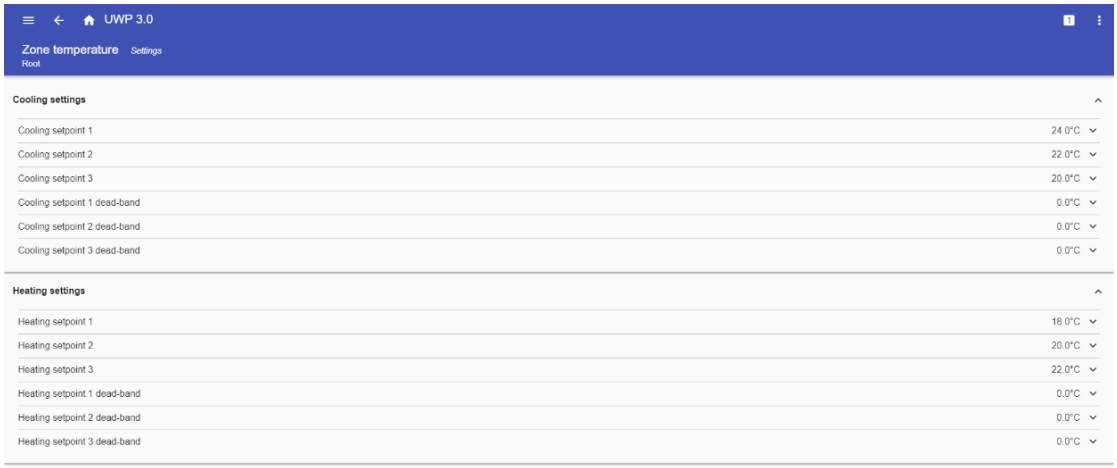
The following chapter is intended to describe the widgets common components.

Common components



32. Different types of widgets

ICON	FUNCTION
	Access the **widget settings** page.



33. Example of widget settings page

	Note: For each type of widget, there are different parameters to manage (see ***How to manage the widget settings***).
	Calendar: Events scheduling (see ***How to schedule an event***).
	Expand the **widget drawer** (for more information, go to ***Types of Function > User interface***).
	To show the **history chart** and the relevant parameters.

Things to know

These chapters describe a widget (in the UWP 3.0 Web App context) and the types of widgets available on UWP 3.0 Web App.

What is a widget

A widget is a graphic element contained in a dashboard that allows the user to interact with the system managed by UWP 3.0.

According to the type of widget, the user can:

- View real-time data, the status of a function or an alarm condition;
- Access the settings of a function;
- Access the viewing area of a chart;
- Send commands;
- Customize the distribution of widgets.

Types of widget

This chapter is intended to describe the different types of widgets.

Function widget

This type of widget is associated to a specific function, previously configured from the **UWP 3.0 Tool**.

Depending on the associated function, it allows you to:

- send commands (e.g. Switch on/off light, raise/lower blinds, etc.),
- change set points (e.g. Heating set point) or other parameters (e.g. Delays) and
- view function status or alarms.

34. Example of function widget

Real-time widget

The **Real-time widget** shows the real-time value or status of the selected variables.

35. Example of Real-time widget

Note: You can assign a title to the **Real-time widget**.

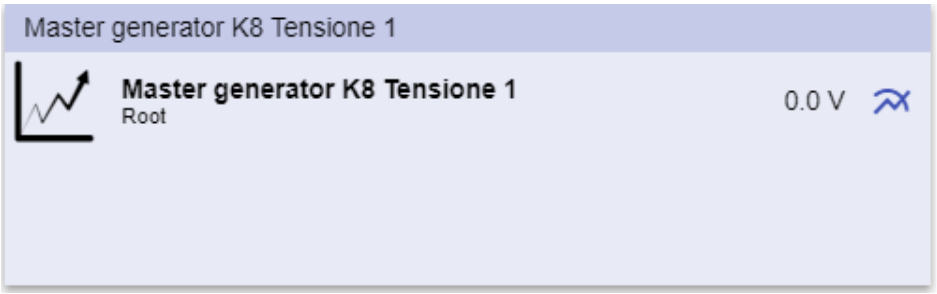
History widget

The **History widget**:

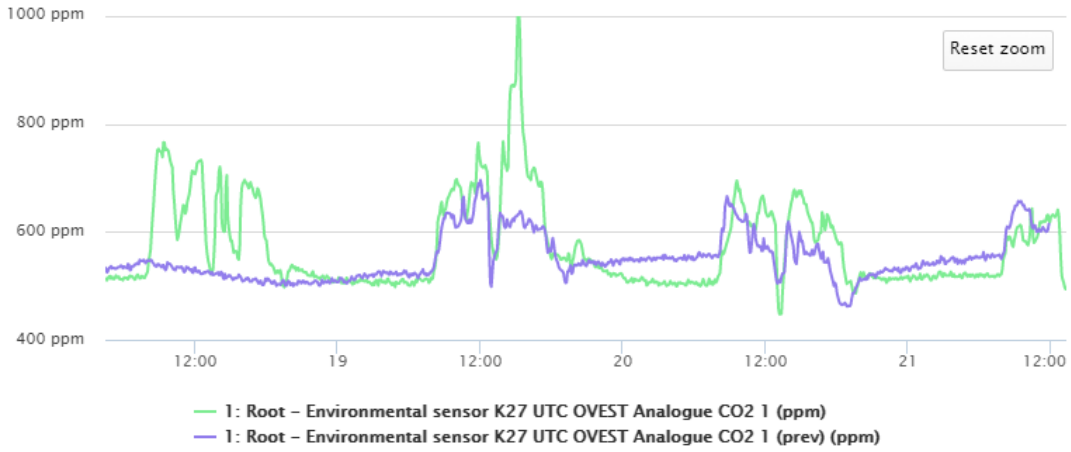
- shows the real-time value or status of the selected variables* and
- allows you to view the trend of these variables*.

***Notes**:

- The variables are plotted on a chart that is displayed in another page (click on from the **history widget**)
- The same variables displayed in the **history widget** and in the **real-time widget** *may* have different names.

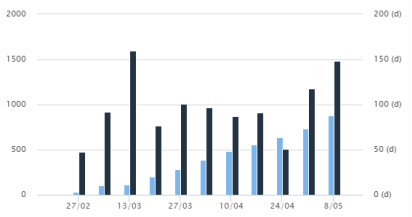
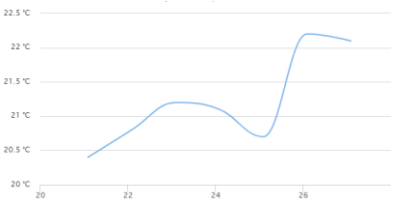
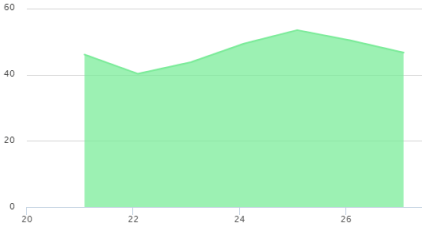


36. Example of History widget



37. Example of Chart

For each variable, you can select the type of chart for average, MIN and MAX values:

TYPE	EXAMPLE
Line	
Bar	
Spline	
Area	

Separator widget

It allows you to customize the widgets distribution in the dashboard.

It can be used to:

- change the automatic widgets distribution,
- tile horizontally two or more widgets (up to 4), chosen by the user and
- regroup widgets by function.

38. Widget distribution without separator

39. Widgets distribution with separator (the widget has been moved by the user)

40. Widgets distribution on mobile phone with separator

Note: This widget is not available in the **Custom chart dashboard**.

How to

This chapter is dedicated to the different procedures related to widgets.

How to create a new widget

In the following chapters you can find information about the creation of widgets in the different types of dashboards.

In the Widget dashboard

<table>
<tr><th>STEP</th><th>ACTION</th></tr>
<tr><td>1</td><td>Click on  to access the editing mode.</td></tr>
<tr><td>2</td><td>From the edit toolbar, click on + to select the type of widget to add.</td></tr>
<tr><td>3</td><td>
<table>
<tr><th>If you choose a…</th><th>Then…</th></tr>
<tr><td>Function widget</td><td rowspan="3">Select the available parameters or signals to add and click on Apply.</td></tr>
<tr><td>Real-time widget</td></tr>
<tr><td>History widget*</td></tr>
<tr><td>Separator</td><td>Choose a position.</td></tr>
</table>
*Note: see How to create a chart.
</td></tr>
<tr><td>4</td><td>From the edit toolbar, click on ✓ to save the changes.</td></tr>
</table>

In the Custom chart / Chart template/ Energy summary dashboard

STEP	ACTION
1	Click on  to access the *editing mode.*
2	From the **column**, click on + to select the type of widget to add.
3	From the **edit toolbar**, click on ✓ to add the widget.
4	Click again on ✓ to **save** the changes.

How to create a chart

In the following chapters you can find information about the creation of charts in the different types of dashboards.

In the Widget dashboard

<table>
<tr><th>STEP</th><th>ACTION</th></tr>
<tr><td>1</td><td>Add a history widget (see How to create a new widget).</td></tr>
<tr><td>2</td><td>Click on Select variables to open the available parameters page.
<table>
<tr><th>ICON</th><th>DESCRIPTION</th></tr>
<tr><td>☐</td><td>To select the variables (max. 16)</td></tr>
<tr><td>🔍</td><td>To search the variables</td></tr>
<tr><td>⋮</td><td>To access the Filters:
• Group by (None/Module/Name/Signal Class/Location)
• Search in (Module/Name/Signal Class/Location)
• Show (All items/Selected items/Unselected items)</td></tr>
</table></td></tr>
<tr><td>3</td><td>Click on Apply to save the selection.</td></tr>
<tr><td>4</td><td>Assign the widget a title</td></tr>
<tr><td>5</td><td>Click on ✓ to save the widget.</td></tr>
<tr><td>6</td><td>Enter the chart page by clicking on  .</td></tr>
<tr><td>7</td><td>Assign the chart another title.</td></tr>
<tr><td>8</td><td>From the list, select the type of chart.</td></tr>
<tr><td>9</td><td>Select the Aggregation period (under the Select variables list box)</td></tr>
<tr><td>10</td><td>Complete the chart by choosing one of these options.
<table>
<tr><th>If you select…</th><th>Then…</th></tr>
<tr><td>Compare</td><td>It will compare the data of the current period with the data of another selected period.</td></tr>
<tr><td>Preview</td><td>The chart will be refreshed with the updated parameters.</td></tr>
<tr><td>Save chart</td><td>The chart will be saved and added to the Widget dashboard.</td></tr>
<tr><td>Export data</td><td>The chart will be sent to the Reports page
 
</td></tr>
<tr><td>Cancel</td><td>Discard the changes.</td></tr>
</table></td></tr>
</table>

In the Custom chart dashboard

<table>
<tr><th>STEP</th><th>ACTION</th></tr>
<tr><td>1</td><td>Create a new Custom chart dashboard (see How to create a custom dashboard).</td></tr>
<tr><td>2</td><td>Assign the chart another title.</td></tr>
<tr><td>3</td><td>Click on Select variables to open the available parameters page.
<table>
<tr><th>ICON</th><th>DESCRIPTION</th></tr>
<tr><td>☐</td><td>To select the variables (max. 16)</td></tr>
<tr><td>🔍</td><td>To search the variables</td></tr>
<tr><td>⋮</td><td>To access the Filters:
• Group by (None/Module/Name/Signal Class/Location)
• Search in (Module/Name/Signal Class/Location)
• Show (All items/Selected items/Unselected items)</td></tr>
</table></td></tr>
<tr><td>4</td><td>From the list, select the type of chart</td></tr>
<tr><td>5</td><td>Select the Aggregation period (under the Select variables list box)</td></tr>
<tr><td>6</td><td>Complete the chart by choosing one of these options.
<table>
<tr><th>If you select…</th><th>Then…</th></tr>
<tr><td>Compare</td><td>It will compare the data of the current period with the data of another selected period.</td></tr>
<tr><td>Preview</td><td>The chart will be refreshed with the updated parameters.</td></tr>
</table></td></tr>
<tr><td>7</td><td>Click on ✓ to save the dashboard.</td></tr>
<tr><td>8</td><td>
<table>
<tr><th>If you want to…</th><th>Then click on…</th><th>And…</th></tr>
<tr><td>Refresh the chart</td><td>Refresh</td><td>View the updated chart</td></tr>
<tr><td>Export the chart</td><td>Export data to choose a file format</td><td>Go to the Reports page to see the export</td></tr>
</table></td></tr>
</table>

In the Chart template dashboard

STEP	ACTION
1	Create a new **Chart template dashboard** (see ***How to create a custom dashboard***).
2	Select a template from the list.
3	Assign the chart another title.
4	Select the **Aggregation period** (under the **Title** section)
5	Complete the chart by choosing one of these options. **If you select…** / **Then…** **Compare** / It will compare the data of the current period with the data of another selected period. **Preview** / The chart will be refreshed with the updated parameters.
6	Click on ✓ to **save** the dashboard.

In the Energy summary dashboard

STEP	ACTION
1	Create (see ***How to create a custom dashboard***) or select an **Energy summary dashboard**.
2	From the column, click on + to select the **Chart widget**.
3	Follow the same procedure described in ***How create a chart > In the Widget dashboard*** (from the **Step 2**).

How to remove a widget

STEP	ACTION
1	Click on to access the *editing mode.*
2	Click on the widget to modify.
3	From the **edit menu,** click on to **remove** the widget.
4	Click on to **save**.

How to move a widget to another page

STEP	ACTION
1	From the **widget dashboard**, click on to access the *editing mode.*
2	Click on the widget to modify.
3	From the **edit menu,** click on to **move** the widget.
4	Select the dashboard and the column where to move the **widget**.
5	Click on to **save**.

How to copy a widget

STEP	ACTION
1	Click on to access the *editing mode.*
2	Click on the **widget** to modify.
3	From the **edit menu,** click on (**copy**).
4	Select the dashboard and the column where to copy the **widget**.
5	Click on to **save**.

How to schedule an event

To schedule an event, follow the procedure described below.

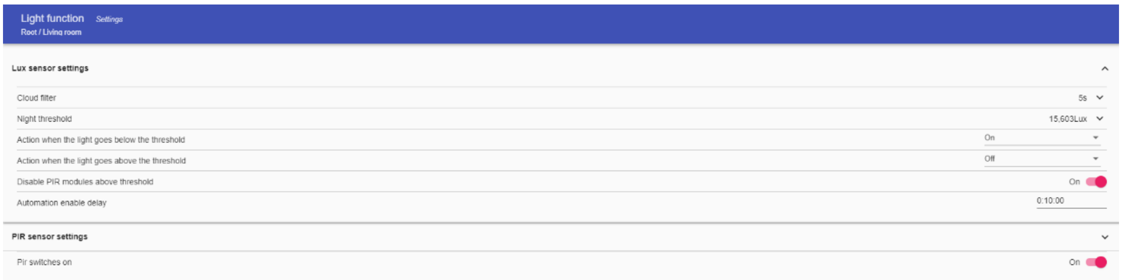
<table>
<tr><th>STEP</th><th>ACTION</th></tr>
<tr><td>1</td><td>From a widget, click on  to access the event-scheduling page.</td></tr>
<tr><td>2</td><td>Click on  to open the configuration area.</td></tr>
<tr><td>3</td><td>Fill in all the fields.
<table>
<tr><th>COMPONENT</th><th>DESCRIPTION</th></tr>
<tr><td>Name</td><td>In this field, you define the name of the event that will appear on the calendar.</td></tr>
<tr><td>Start date</td><td>Date at which the event will start</td></tr>
<tr><td>Start time</td><td>Time at which the event will start.</td></tr>
<tr><td>End date</td><td>Date at which the event will finish.</td></tr>
<tr><td>End time</td><td>Time at which the event will finish.</td></tr>
<tr><td>Event
Action at start/end time</td><td>You can decide the action to be performed as the time period starts or finishes.</td></tr>
<tr><td>Action during the whole period</td><td>You can choose to:
• disable the automation or
• perform no action during the selected period.</td></tr>
</table></td></tr>
<tr><td>4</td><td>Click on Save.</td></tr>
</table>

How to manage the widget settings

You can manage each type of widget settings, without adding or removing the available parameters from the Web App. Indeed, the available parameters list can be added or removed only by means of the **UWP 3.0 Tool**.

Note: This function is available only for the **Admin users**.

To manage the different parameters, follow the procedure described below.

<table>
<tr><th>STEP</th><th>ACTION</th></tr>
<tr><td>1</td><td>From a widget, access the settings page by clicking on .


41. Example of settings page</td></tr>
<tr><td>2</td><td>Select the parameter(s) to adjust.</td></tr>
<tr><td>3</td><td>Send the parameter(s) by clicking on .</td></tr>
</table>

Types of Function

This chapter is intended to describe the different types of **functions** available on the UWP 3.0 Web App.

*The available parameters list can be added or removed only by means of the **UWP 3.0 Tool**. From the Web App, you can only adjust them.*

User interface

The following chapters present the different functions widgets structure.

Note: only the **Admin** users can adjust the functions settings described below.

Light function

You can either manage the basic function to switch the light on /off or implement an automated system by adjusting the settings.

42. Light function

ICON	MEANING	DESCRIPTION
	**Light is OFF**	These icons show the current status of the function. It is possible to switch a light on/off clicking on the push button. **Note:** the icons colour can be changed (see ***Settings menu***).
	**Light is ON**	
	**Settings**	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).
524Lux	**Lux sensor value**	It shows the **Lux** sensor value (if the related sensor is available).
23:28:31	**Energy save timer**	This field shows the **Energy save timer** value.
	**Calendar**	To schedule the events related to this function (see ***How to schedule an event***).

Dimmable light function

You can either configure a basic function to switch the light on /off and adjust the light intensity or implement an automated system by adjusting the settings.

43. Dimmable light function

ICON	MEANING	DESCRIPTION
	**Light is OFF**	These icons show the current status of the function. Toggle the light ON / OFF to **S1** (the last valid value stored). **Note:** the icons colour can be changed (see ***Settings menu***).
	**Light is ON**	
	**Settings**	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).
	**Expand / reduce the drawer***	It shows the **Scenario** buttons (**S2** – **S3** – **S4** –**S5**). **Note**: Only the **Scenarios** available in the configuration will be shown.
	Slider	To dim the light.
224Lux	**Lux sensor value**	It shows the **Lux sensor** value (if the related sensor is available).
00:00:00	**Energy save timer**	This field shows the **Energy save timer** value.
	**Calendar**	To schedule the events related to this function (see ***How to schedule an event).***

*__Note__: this function is available only for the “admin” user.

Constant light function

This function automatically regulates a **constant light** level using dimmers.
In the settings, you can select different ways of controlling the constant light: with timers and/or schedulers, according to the presence of people. Up to 5 different predefined scenarios can be set.

44. Constant light function

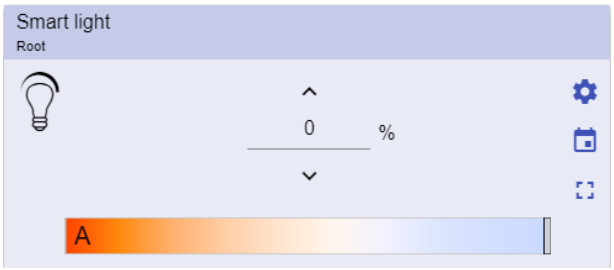
ICON	MEANING	DESCRIPTION
	Light is OFF	These icons show the current status of the function. Toggle the light ON / OFF to **S1** (the last valid value stored).
	Light is ON	**Note:** the icons colour can be changed (see ***Settings menu***).
	Settings	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).
	Expand / reduce the drawer*	It shows the **Scenario** buttons (**S2** – **S3** – **S4** –**S5**). **Note**: Only the **Scenarios** available in the configuration will be shown.
	Up/down arrows	To change the target lux level.
117Lux	**Lux value**	It shows the **Lux sensor** value (if the related sensor is available).
00:05:00	**Energy save timer**	This field shows the **Energy save timer** value.
	Calendar	To schedule the events related to this function (see ***How to schedule an event)***

*__Note__: this function is available only for the “admin” user.

Smart light function

There are different types of lighting control you can choose:

- Dimmer: see the ***Dimmable light function***
- Constant light: see the ***Constant light function***
- **Dimmer + Colour and Constant light + colour**: managed as a standard Dimmable light /Constant light with the additional control of the temperature colour.
  The light intensity is managed according to the standard Dimmable/Constant light control, whilst, the tuneable white control can be set manually by you or can be dynamically changed creating a relationship between day time and Table colour.



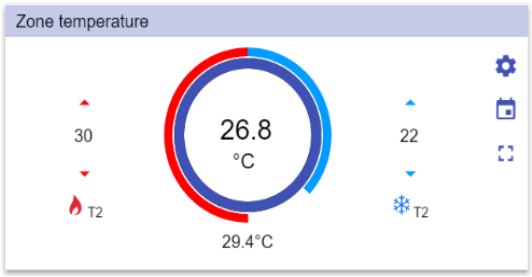
45. Smart light function

ICON	MEANING	DESCRIPTION
	**Light is OFF**	These icons show the current status of the function. Toggle the light ON / OFF to **S1** (the last valid value stored). **Note:** the icons colour can be changed (see ***Settings menu***).
	**Light is ON**	
	**Settings**	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).
	**Expand / reduce the drawer***	Once opened, you can select: • a **Scenario** (**S2** – **S3** – **S4** –**S5**) • the options to be displayed **Note**: only the **Scenarios** available in the configuration will be shown.
	**Up/down arrows**	**If you select a….** / **Then you can adjust…** **Dimmable light** / The light intensity **Constant light** / The lux level
	**Slider**	To set the colour temperature (A: automatically; M: manually).
	**Calendar**	To schedule the events related to this function (see ***How to schedule an event)***

*__Note__: this function is available only for the “admin” user.

Zone temperature function

You can monitor the temperature of different zones, created according to the requirements.



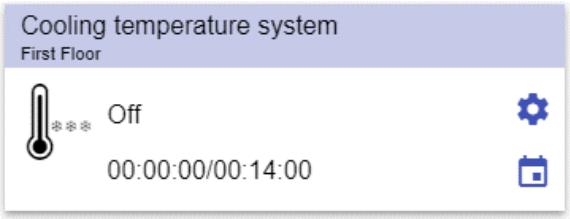
46. Zone temperature function

ICON	MEANING	DESCRIPTION
	Heating is OFF	It indicates when the heating setpoint is ON/OFF.
	T(x)	It indicates the active setpoint for **Heating**.
	Cooling is OFF	It indicated when the cooling setpoint is ON/OFF.
	T(x)	It indicates the active setpoint for **Cooling**.
	Settings	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).
	Expand / reduce the drawer*	Once opened, it is possible: • To use the set point buttons for H/C. Only the setpoints in the configuration will be shown. • To click directly on a setpoint (T1, T2, T3, OFF) that is automatically activated (without saving). The selected setpoint changes colour to be quickly identified.
	Up/down arrows	To adjust the heating/cooling set point.
26.8°C	**Auxiliary temperature**	This field shows the Auxiliary temperature, if the related sensor is available.
	Calendar	To schedule the events related to this function (see ***How to schedule an event)***

*__Note__: this function is available only for the “admin” user.

Cooling temperature system function

The **cooling temperature system** function is used to manage the cooling/ventilation of the building.

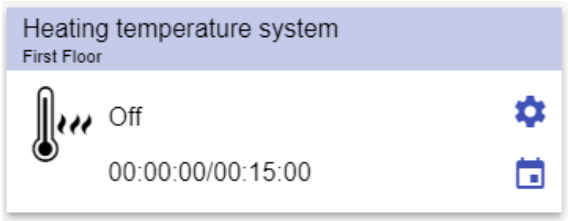


47. Cooling temperature system function

ICON	MEANING	DESCRIPTION
	**The function is active**	This icon shows the current status of the function. By clicking on the icon, the toggle action is performed (start/stop). **Note:** the icons colour can be changed (see ***Settings menu***).
	**The function is not active**	
	**Settings**	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).
00:00:00/ 00:14:00	**Disabling timer**	When the timer expires, the function automatically is disabled.
	**Calendar**	To schedule the events related to this function (see ***How to schedule an event)***

Heating temperature system function

The **heating temperature system** function is used to manage the heating/ventilation of the building.



48. Heating temperature system function

ICON	MEANING	DESCRIPTION
	**The function is active**	These icons show the current status of the function. By clicking on the icon, the toggle action is performed (start/stop). **Note:** the icons colour can be changed (see ***Settings menu***).
	**The function is not active**	
	**Settings**	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).
00:00:00/ 00:15:00	**Disabling timer**	When the timer expires, the function automatically is disabled.
	**Calendar**	To schedule the events related to this function (see ***How to schedule an event)***

Roller blind function

You can either configure a basic function to move blinds up and down or implement an automated system by adjusting the settings.

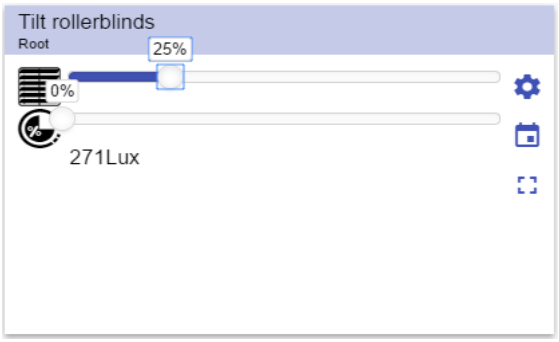
49. Roller blind function

ICON	MEANING	DESCRIPTION
	**Motor is moving DOWN**	These icons show the current status of the function. **Note:** the icons colour can be changed (see ***Settings menu***).
	**Motor is moving UP**	
	**Motor is stopped**	
	**Settings**	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).
	**Expand / reduce the drawer***	To select Fully up/down.
	Slider	To adjust the blind opening.
0.0m/s	**Wind speed**	These fields show the following information, if the related sensors are available: • Lux sensor value; • Wind speed; • Raining condition.
208Lux	**Lux sensor value**	
	**Calendar**	To schedule the events related to this function (see ***How to schedule an event).***

*__Note__: this function is available only for the “admin” user.

Tilting roller blind function

The automation of the tilting slats can be managed by accessing the Settings, where you can select different kinds of automation: wind sensors, rain sensors, lux sensors, calendar.

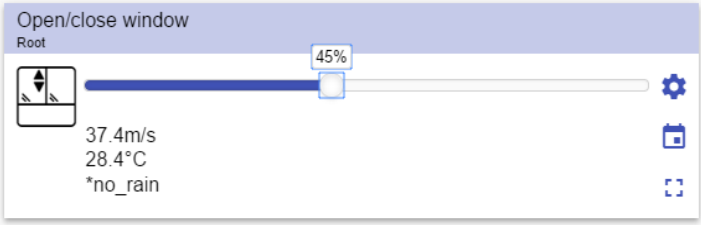


50. Tilting roller blind function

ICON	MEANING	DESCRIPTION
	**Motor is moving DOWN**	These icons show the current status of the function.
	**Motor is moving UP**	
	**Motor is stopped**	
	**Tilt is stopped**	
	**Tilt is moving**	**Note:** the icons colour can be changed (see ***Settings menu***).
	**Settings**	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).
	**Expand / reduce the drawer***	To select Fully up/down.
	Sliders	To change the curtains and the tilt position.
271Lux	**Lux sensor value**	These fields show the following information, if the related sensors are available: • Lux sensor value; • Wind speed; • Raining condition.
	**Calendar**	To schedule the events related to this function (see ***How to schedule an event)***

*__Note__: this function is available only for the “admin” user.

Window control function



51. Window control function

ICON	MEANING	DESCRIPTION
	**Motor is moving DOWN**	These icons show the current status of the function. **Note:** the icons colour can be changed (see ***Settings menu***).
	**Motor is moving UP**	
	**Motor is stopped**	
	Slider	To change the curtains position.
	**Settings**	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).
37.4m/s **28.4°C** **No rain**		These fields show the following information, if the related sensors are available: • Lux sensor value; • Wind speed; • Raining condition.
	**Calendar**	To schedule the events related to this function (see ***How to schedule an event)***

Program function

A **Program function** is a sequence that is just an ordered list of steps: each step in a sequence is identified by an index number that represents the sequential order in which the steps will be executed when the sequence is started.
A **Program function** allows you to define, for the selected **Switch** functions, the activation time and the sequential order in which the steps are executed.

From the Web App, you can:

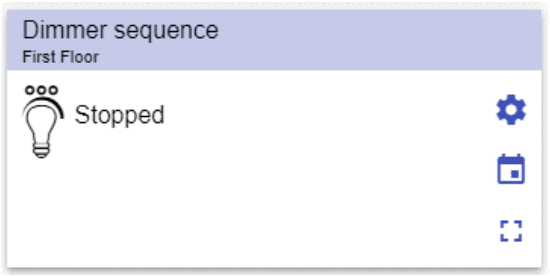
- Send actions (Start – Pause -Stop the sequence)
- Change the *On time* value of one or more steps
- Change the *On time* of all steps by a percentage value
- Enable/disable the steps that have to be executed.

52. Example of a Program function widget in running mode

ICON	DESCRIPTION
▶ ⏸ ■	• **Start**: The function is started • **Pause:** The function is paused • **Stop:** The function is stopped
/	These icons show the **Program function** status (toggle the function **Start/Stop).** **Note:** the icons colour can be changed (see ***Settings menu***).
Switch 1 Running	It shows the name of the current active step.
Step time 00:00:00/00:00:00	It shows the countdown of the current active step *[Step time] / [Step countdown]*
Sequence time 00:00:00/00:00:00	It shows the total execution time of the entire sequence *[sequence time] / [Sequence countdown]*
⚙	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).

Dimmer sequence function

The **Dimmer sequence** function allows you to manage, together, the **dimmable light functions** already created. The light level of all the added functions is set according to those defined in each step of the sequence, with the aim of making all the dimmers reach the final level at the same time.
This function can be used to create different scenarios, such as switching all the lights off at the same time regardless of the starting level of each single light.



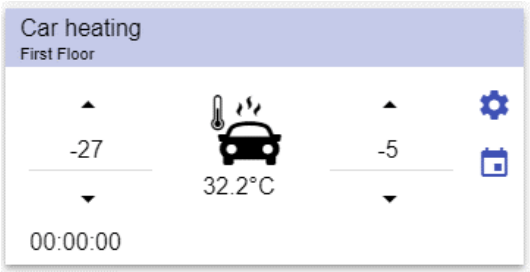
53. Dimmer sequence

ICON	MEANING	DESCRIPTION
	**Sequence is OFF**	These icons show the current status of the function. By clicking on the icon, the toggle action is performed (start/stop). **Note:** the icons colour can be changed (see ***Settings menu***).
	**Sequence is ON**	
	**Settings**	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).
	**Expand / reduce the drawer***	It shows the following options: • Play / Pause / Stop buttons; • Disable timeout value.
	**Calendar**	To schedule the events related to this function (see ***How to schedule an event)***

*__Note__: this function is available only for the “admin” user.

Car heating function

The **car heating** function allows you to heat the car so that it is ready at a predefined set time. You must set a time, two external temperatures limits (SP 1 and SP 2) and two timers (T1 and T2) so as to define the extreme points of a straight line.
The straight line is used in the algorithm to define when the output should be on to heat the car.

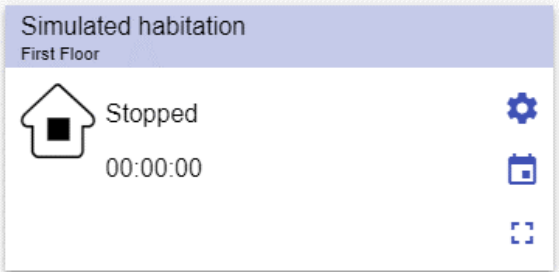


54. Car heating function

ICON	MEANING	DESCRIPTION
	**Function is not active**	These icons show the current status of the function. By clicking on the icon, the toggle action is performed (start/stop).
	**Function is active**	**Note:** the icons colour can be changed (see ***Settings menu***).
	**Up/down arrows**	To adjust the temperature limits (high/low).
00:00:00	**Counting timer**	For automation enabling(s).
32.2°C	**Temperature**	Outdoor temperature
	**Settings**	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).
	**Calendar**	To schedule the events related to this function (see ***How to schedule an event).***

Simulated habitation function

The **simulated habitation** function can be used to give the impression that the house is inhabited even if the user is out.



55. Simulated habitation function

ICON	MEANING	DESCRIPTION
	**The function is stopped**	These icons show the current status of the function. By clicking on the icon, the toggle action is performed (start/stop).
	**The function is running**	
	**The function is paused**	**Note:** the icons colour can be changed (see ***Settings menu***).
	**Settings**	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).
	**Expand / reduce drawer***	**Play/Pause/Stop** buttons.
00:00:00	**Counting timer**	For automation enabling(s).
	**Calendar**	To schedule the events related to this function (see ***How to schedule an event).***

*__Note__: this function is available only for the “admin” user.

Multigate function

The multigate function can be used to perform a logical operation with one or more inputs to have a single logic output status.

56. Multigate function

ICON	MEANING	DESCRIPTION
	Function is not active	These icons show the current status of the function. By clicking on the icon, the toggle action is performed (start/stop).
	Function is active	**Note:** the icons colour can be changed (see ***Settings menu***).

Interval timer function

The timer function can be used to control an output where an automated temporization is required.

57. Interval timer function

ICON	MEANING	DESCRIPTION
	Function is not active	These icons show the current status of the function. By clicking on the icon, the toggle action is performed (start/stop).
	Function is active	**Note:** the icons colour can be changed (see ***Settings menu***).
00:00:00/00:04:00	**Interval timer**	This field shows: *Counting delay off timer / Timer off value*
	Settings	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).

Delay timer function

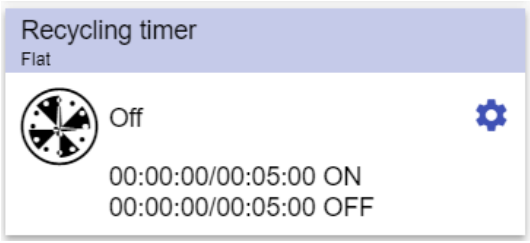
Using the delay timer, the output replicates the status of the input, applying a **delay on** and/or a **delay off timer**.

58. Delay timer function

ICON	MEANING	DESCRIPTION
	**Function is not active**	These icons show the current status of the function. By clicking on the icon, the toggle action is performed (start/stop).
	**Function is active**	**Note:** the icons colour can be changed (see ***Settings menu***).
00:00:00/00:05:00 ON **00:04:58/00:05:00 OFF**	**Delay ON/OFF Timer**	These fields show: • *Counting delay on timer / Timer On value* • *Counting delay off timer / Timer Off value*
	**Settings**	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).

Recycling timer function

In the recycling timer function, until the trigger input is on, the output goes on and off with fixed timing.
As soon as the trigger signal is activated, the output starts going on/off according to the Ton and Toff times; when the stop signal is activated, the output goes off.

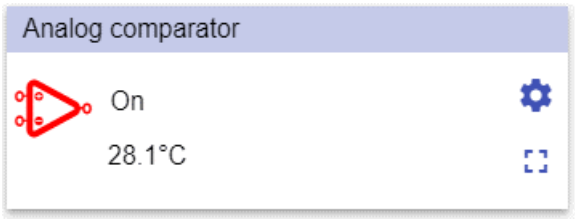


59. Recycling timer function

ICON	MEANING	DESCRIPTION
	**Function is not active**	These icons show the current status of the function. By clicking on the icon, the toggle action is performed (start/stop). **Note:** the icons colour can be changed (see ***Settings menu***).
	**Function is active**	
00:00:00/00:05:00 ON **00:04:58/00:05:00 OFF**	**Delay ON/OFF Timer**	These fields show: • *Counting delay on timer / Timer On value* • *Counting delay off timer / Timer Off value*
	**Settings**	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).

Analogue comparator function

The analogue comparator function can be used to compare two values.



60. Analogue comparator function

ICON	MEANING	DESCRIPTION
	Function is not active	These icons show the current status of the function. By clicking on the icon, the toggle action is performed (start/stop). **Note:** the icons colour can be changed (see ***Settings menu***).
	Function is active	
	Expand / reduce drawer*	It shows the: • Type of comparison; • Delay ON timer; • Delay OFF timer.
	Settings	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).
28.1°C	**Degrees**	Output value (average of input signals).

*__Note__: this function is available only for the “admin” user.

Switch Function

The switch function allows you to activate or deactivate any type of load (e.g. a relay).

61. Examples of switch functions

ICON	MEANING	DESCRIPTION
	Switch On / Off	
	Under floor heating	Custom icons
	Air conditioner	**Note:** the icons colour can be changed (see ***Settings menu***).
	Settings	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).
	Calendar	To schedule the events related to this function (see ***How to schedule an event).***

Master zone counter

This function permits the monitoring of the available bays.

62. Master zone counter

AREA	MEANING	DESCRIPTION
***39**	**Available car bays**	This number indicates the amount of available parking spaces. It changes every time a car enters or leaves the MZC.

Detection point (DPO) function

A **detection point** is a lane or driveway where cars enter or leave an MZC.

63. DPO function

ICON	MEANING	DESCRIPTION
Off/On	**Detection of car entrance/exit**	Every time a car enters/exits, the status changes from **Off** to **On** for a while. **Note**: To view the number of entering/exiting cars, refer to the ***Master zone counter***.

Things to know

These chapters describe the functions and present the different groups of functions available on the Web App.

What is a function

A **function** is a set of instructions that in presence of

- one or more commands (e.g., button pressing) and
- one or more conditions (e.g., the temperature is lower than a defined set point),

generates one or more actions, such as

- commands (e.g. switch on/off the light or activate the boiler) and
- alerts.

There are predefined functions used to manage a whole series of automations, from lights to roller blinds:

FUNCTION TYPE	DESCRIPTION
Light	ON/OFF switching of one or more lights, dimming of lights, setting of a constant light and settings of light intensity and colour.
Temperature control	Heating, ventilation and air conditioning control.
Rolling shutters	Blind control.
Sequence	Set of functions executed in sequence.

Note: There are further available functions that can be defined and configured by means of the wizard tool (see the ***UWP 3.0 Tool manual).***

Light functions

These functions allow you to manage one or more lights at the same time.

You can either configure:

- a basic function to switch the light on manually, or
- an automatic system by programming the relevant objects of the function.

From the Web App, you can:

- Switch a light on/off (**Light function**)
- Dim the light (**Dimmable light function**)
- Set a constant light (**Constant light function**)
- Set the light intensity and colour (**Smart light function**).

Temperature control functions

From the ***UWP 3.0 Tool***, you can manage the temperature inside the building, creating different zones depending on the different requirements. Each zone function can correspond to a part of the building (e.g. an office) where the user wants to control the heating/cooling.

On the Web App, the functions dedicated to the **temperature control** are:

- **Zone temperature function;**
- **Cooling temperature system function;**
- **Heating temperature system function.**

Rolling shutters functions

These functions allow you to manage the motor to control roller blinds.

You can either configure:

- a basic function to move blinds up and down or
- an automated system by programming the relevant objects of the function.

From the Web App, you can:

- Control the roller blind movement;
- Adjust the tilting slats;
- Control the window movement.

Sequence functions

The **sequence** functions allow you to put together the functions already created and activate/deactivate them with just one click. All the selected functions are activated according to a certain time and order. The sequence starts activating the first function in the list and goes on to activate the others following the predefined order, until the last function in the list is executed.

The functions that can be controlled are:

- lights,
- roller blinds and windows,
- intruder alarm,
- sirens,
- timers and
- zone temperature functions.

From the Web App, you can manage a:

- **Program function**,
- **Sequence function** or
- **Dimmer sequence function**.

Carpark functions

The **Carpark** functions permit the monitoring of the **Carpark system** status (e.g. number of available/occupied bays).

For further information, see the ***CP3 installation manual***.

How to

In the following chapters, you can find procedures relating to the **Program** function.

How to manage the Program function

In this chapter, you can find specific procedures concerning the program function management.

STEP	ACTION
1	From the **Program function widget**, click on the ⚙ button to access its **Settings menu**.
2	Choose the procedure to follow: **Type** / **Procedure** **Sequence programming**: How to set a steps sequence once; How to change the sequence programming **Set parameters**: How to change the *On time* (individually); How to change the *On time* (multi-change)

How to check which Switch functions belong to a step

STEP	ACTION
1	From the **Program function widget**, click on the ⚙ button to access its **Settings menu**.
2	Click on ⌄ to check which **Switch** functions belong to a step.  **64. Switch function setting** **Note:** The relation between the step and the **Switch** functions cannot be changed by means of the **Program function widget.**

How to change the *On time* value

STEP	ACTION
1	From the **Program function widget**, click on the ⚙ button to access its **Settings menu**.
2	There are two ways to change the *on time* value for each step in the sequence.

If you want to change it…	Then…	And…
Individually	In the *Time on* column, click on the *time* field	Change the *Hours, Minutes, Seconds* values.
Multi-change	Click on the + or − button in the *On time* column	Select the percentage value that will be applied to all the steps of the sequence:

How to change the sequence programming

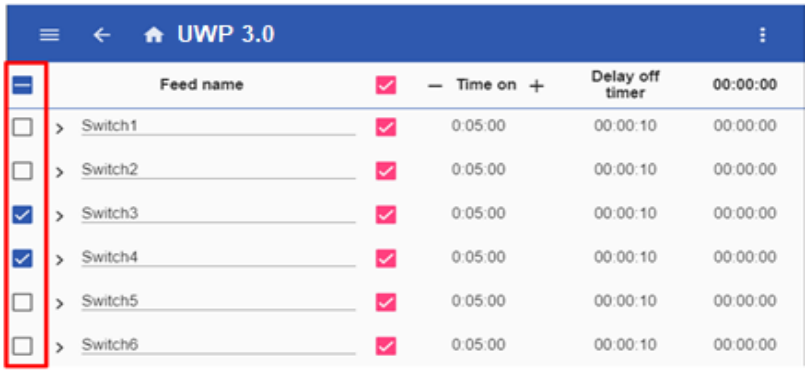
STEP	ACTION
1	From the **Program function widget**, click on the ⚙ button to access its **Settings menu**.
2	Click on ✓ to select the steps to execute when the sequence starts. **Note**: Each time the sequence starts, only the flagged steps will be executed.
3	Click on ➤ and select 💾 to save the changes.
4	Otherwise, click on ↺ to restore the last valid set of steps.
5	Click on ⊂≡ and select ▶ to play the sequence.
6	Check the status of each step of the sequence:

INDICATOR	BEHAVIOR
🔴	Current active step
🔵	Enabled steps
⚪	Disabled steps

7	If you want to…	Then click on…
	Pause the sequence	⏸
	Stop the sequence	■

Note: When the sequence is running, you are not able to change the sequence set. In order to change it, the sequence must first be stopped.

How to execute a set of steps one time only

STEP	ACTION
1	From the widget **Settings menu**, flag the steps that have to be executed one time.  **Notes**: • This configuration overwrites the behaviour of the sequence, allowing the execution of a specific set of steps. • When the sequence ends, the previous configuration will be restored. • This procedure can be followed only if the sequence is not running. • The steps that are not enabled will not be selectable and playable.
2	Click on ⚙ and select ▶ to play the sequence.
3	**If you want to…** / **Then click on…** **Pause the sequence** / ⏸ **Stop the sequence** / ■ **Note:** When the sequence is running, you are not able to change the sequence set. In order to change it, the sequence must first be stopped.

Alarms

This chapter is intended to describe the **Alarms**.

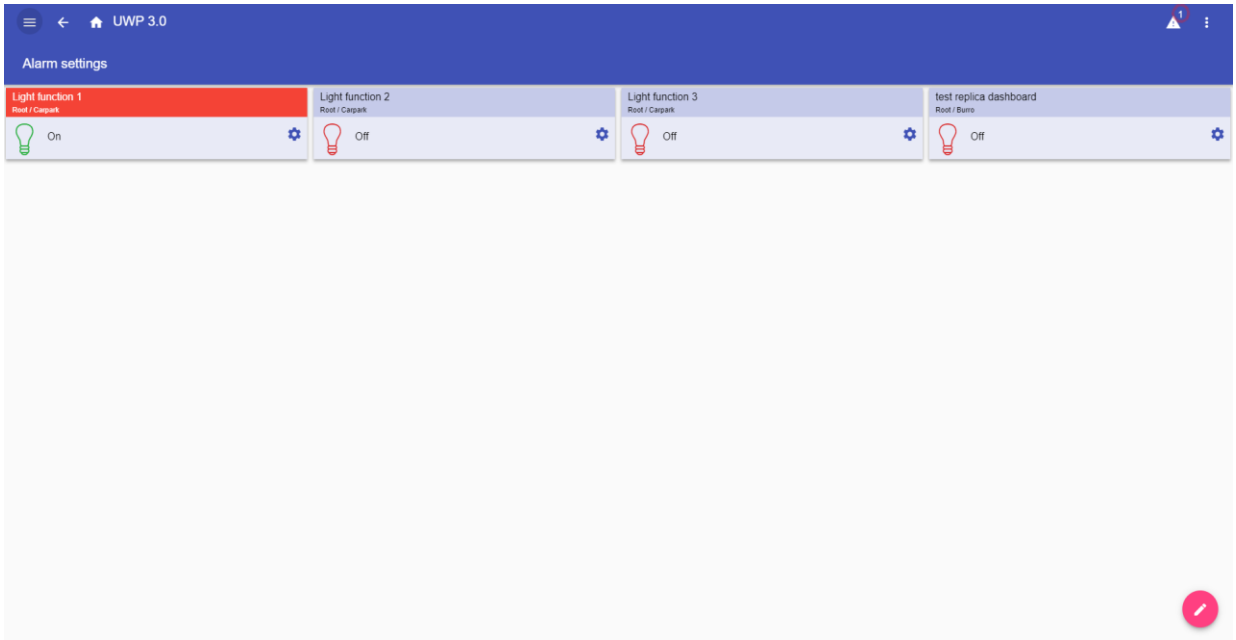
How to access the alarm dashboard

STEP	ACTION
1	Click on ☰ to access the **Main menu.**  **65. Main menu**
2	Select **Alarms** ›

User interface

The following chapters are intended to describe the **Alarms main page** and the different **Alarms functions widgets**.

Main page



66. Alarms dashboard

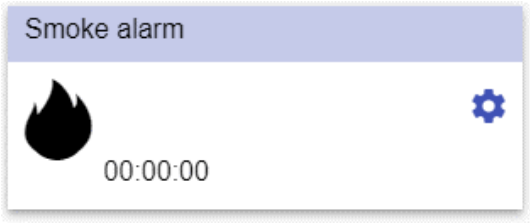
COMPONENT	DESCRIPTION
	The **Add alarms** button.
	The **Active alarms counter.** **Note:** Clicking on this icon when you are navigating other dashboards, you will be redirected to the **Alarm dashboard.**

Water alarm function

67. Water alarm function widget

ICON	MEANING	DESCRIPTION
	**Armed with no sensor active**	These icons show the current status of the function.
	**In Alarm**	
	**Disabled** **Note**: It is silenced after the Disabling timeout value.	**Note:** the icons colour can be changed (see ***Settings menu***).
00:00:00	**Disabling timeout**	The function is silenced after this period of time**.**
	**Settings**	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).

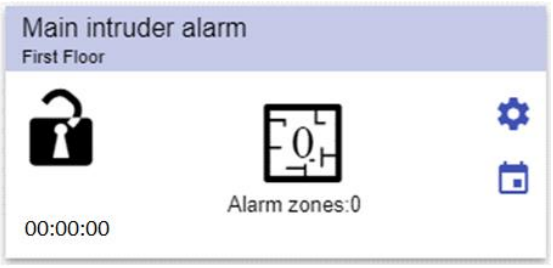
Smoke alarm function



68. Smoke alarm function widget

ICON	MEANING	DESCRIPTION
	**Armed with no sensor active**	These icons show the current status of the function.
	**In Alarm**	
	**Disabled** **Note**: It is silenced after the Disabling timeout value.	**Note:** the icons colour can be changed (see ***Settings menu***).
00:00:00	**Disabling timeout**	The function is silenced after this period of time**.**
	**Settings**	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).

Main intruder alarm function



69. Main intruder alarm function widget

ICON	MEANING	DESCRIPTION
	**Main intruder alarm is not armed**	These icons show the current status of the function. Clicking on the icon, the toggle action is performed: • If it is **Disarmed**, it will be **Armed** • If it is **Armed**, it will be **Disarmed** • If it is in **Alarm**, it will be **Reset.** **Note:** the icons colour can be changed (see ***Settings menu***).
	**Main intruder alarm is armed**	
	**Main intruder alarm is in alarm**	
00:00:00	**Disabling timeout**	The function is silenced after this period of time**.**
	**Settings**	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).
	**Alarm zones number**	It shows the total amount of the **Zone alarm function in alarm**. Clicking on the icon, it will be displayed the detailed page of the linked **Zone alarm** functions.
	**Calendar**	To schedule events related to this function.

Zone intruder alarm function

70. Zone intruder alarm function widget

ICON	MEANING	DESCRIPTION
	**Deactivated with no sensor active**	These icons show the current status of the function. Clicking on the icon, the toggle action is performed: if it is in **Alarm**, it will be deactivated with sensor active (it is reset for the deactivated time value).
	**Deactivated with sensor active**	
	**Armed with no sensor active**	
	**In Alarm**	**Note:** the icons colour can be changed (see ***Settings menu***).
00:00:00	**Disabling timeout**	The function is silenced after this period of time**.**
	**Settings**	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).

Hour counter function

71. **Hour counter function widget**

ICON	MEANING	DESCRIPTION
	Hour counter running	These icons show the current status of the function.
	Working time has been reached	**Note:** the icons colour can be changed (see ***Settings menu***).
0.00 HH **0.00/100.00HH**	**Working time Threshold reached**	These fields show: • The worked hours • Threshold of worked hours reached (value set from the settings menu).
	Expand / reduce the drawer*	To open the reset (0 or another value) of the hour counter.
	Settings	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).

*__Note__: this function is available only for the “admin” user.

Siren alarm function

72. **Siren alarm function widget**

ICON	MEANING	DESCRIPTION
	**Function is armed with no sensor active**	These icons show the current status of the function.
	**Function is in Alarm**	**Note:** the icons colour can be changed (see ***Settings menu***).
00:00:00	**Counting timer**	This field shows period during which the function is active (output of siren).
	**Settings**	The settings list depends on the configuration made by means of the configuration software (see ***UWP 3.0 Tool manual***).

Things to know

In these chapters you can find information concerning the alarms available on the Web App.

What is an alarm

The alarm warns about the change/variation of a status, graphically represented by:

- the icon  that appears in the navigation bar;
- the widget colour;
- the widgets contained in the alarms dashboard.

There are two categories of alarms:

CATEGORY	CONFIGURATION	TYPES
ALARM FUNCTION	From software	1. Water 2. Smoke 3. Intruder 4. Hour counter 5. Siren. (See ***Types of alarm functions***)
MONITORING ALARM	By the user	See ***Type of Functions.***

Types of alarm functions

The following chapters describe the different types of **Alarm functions**.

Water alarm function

From the **UWP 3.0 Tool**, you can configure a basic **Water alarm function** in order to monitor water flood on the floor.

From the Web App, you can monitor the function by adding the relevant widget.

Smoke alarm function

From the **UWP 3.0 Tool**, you can configure a basic **Smoke alarm function** in order to be warned about smoke in the house.

From the Web App, you can monitor the function by adding the relevant widget.

Main and zone intruder alarm function

The intruder alarm function is used to protect the house against burglars and undesired intruders.
To create an **Intruder alarm function**:

1. You have to create at least one **Zone alarm function**; each zone function might correspond to a part of the house that has to be monitored or just to a single sensor;
2. Then, you have to create a **Main alarm function**, used to manage all the zone functions. It is used for arming/disarming and collecting all the zone status.

From the Web App, you can monitor the function by adding the relevant widget.

Hour counter function

The purpose of the **Hour counter function** is to count the hours a function output has been ON, since the last reset.
It is typically used:

1. in the **Lighting control** for preventive replacement of fluorescent light tubes before they burn out or
2. for keeping track of HVAC (Heating – Ventilation – Air conditioner) pump running hours for early replacement and for planning maintenance.

From the Web App, you can monitor the function by adding the relevant widget.

Siren alarm function

The **Siren alarm function** allows you to manage an output when an alarm is detected.
It has two purposes:

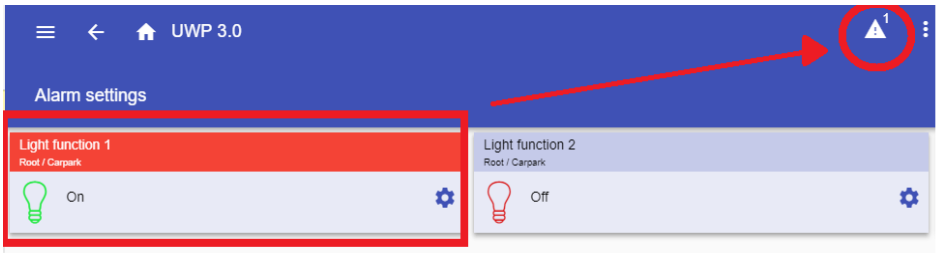
- To allow you to have the maximum flexibility for the activation of the output.
- To allow you to use a single output signal as a common output for more alarms.

From the Web App, you can monitor the function by adding the relevant widget.

How to

The following chapter describes **How to manage the alarms**.

How to manage the alarms

STEP	ACTION
1	Access the **Alarms dashboard (** ☰ **> Alarms**).
2	Click on ✎ to access the **functions** *list box*.
3	Click on + to enter the available signals list.  **73. Alarms edit toolbar**
4	Select the monitoring alarm(s).  **74. Available signals list**
5	Click on **Apply.**
6	To remove an Alarm, click on the relevant widget and click on 🗑.
7	Click on ✓ to **save** the configuration.
8	Verify the presence of the **Active alarms counter.**  **75. Active alarms counter**

Report

This chapter is intended to describe the Reports creation / exporting.

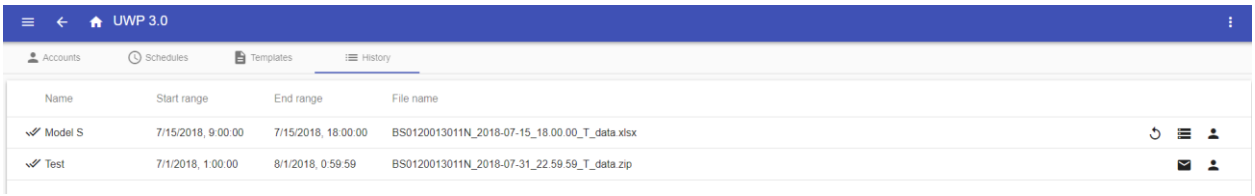
How to access the report page

STEP	ACTION
1	Click on ☰ to access the **main menu.**  **76. Main menu**
2	Select **Reports** ›

User interface

This chapter is intended to describe the Reports main page and the other tabs to be managed.

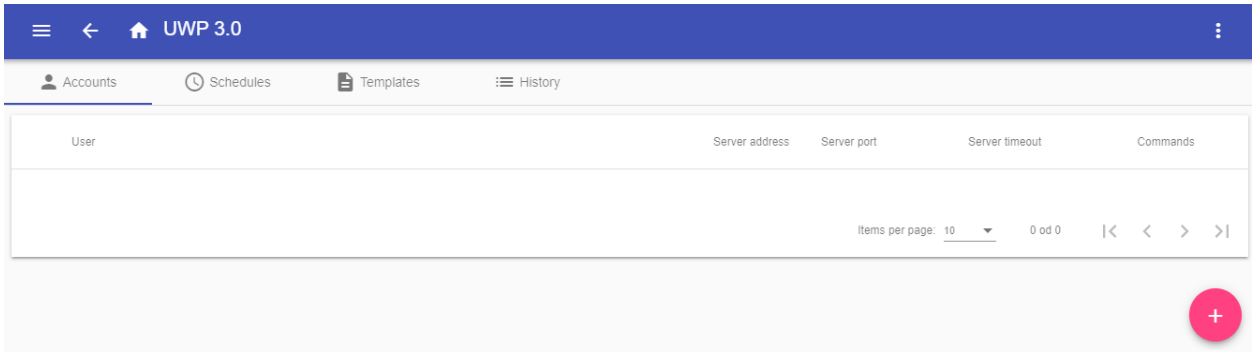
Main page



77. Reports main page

AREA	DESCRIPTION
Accounts	You can manage the FTP/SMTP accounts to which the Report has to be sent, also through scheduling.
Schedules	The reports can be generated automatically through scheduling (see ***How to schedule a report***).
Templates	You can create new Reports manually (see ***How to create a template***).
History	You can check the list of *Reports,* which have been already generated (see ***History tab***).

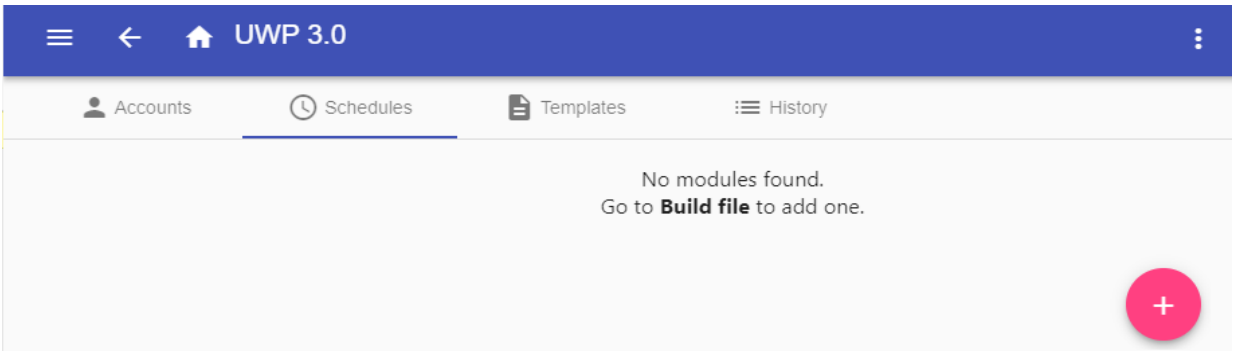
Accounts tab



78. Accounts tab (viewing area)

COMPONENT	DESCRIPTION
User	Recipient's email
Server address	SMTP address
Server port	SMTP port
Server timeout	Timeout (s)
Commands	To create a new template / modify an existing one. To send request. To delete the item.
	To select the items per page.
	To navigate the pages.
	To create a new account (see ***How to create an FTP/FTPS*** and ***How to create an SMTP account***).

Schedules tab

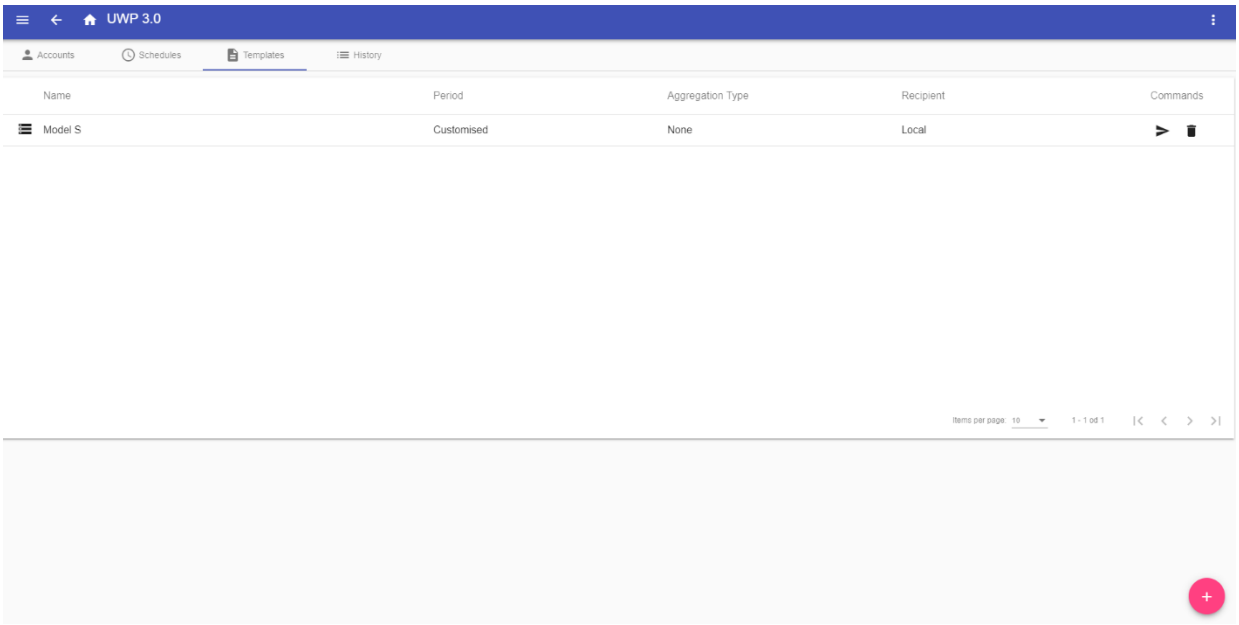


79. Schedules tab (viewing area)

AREA	DESCRIPTION
⊕	To enter the *editing mode.*

Templates tab

In the **Templates** tab, you can view the reports that have been already generated and create new reports.

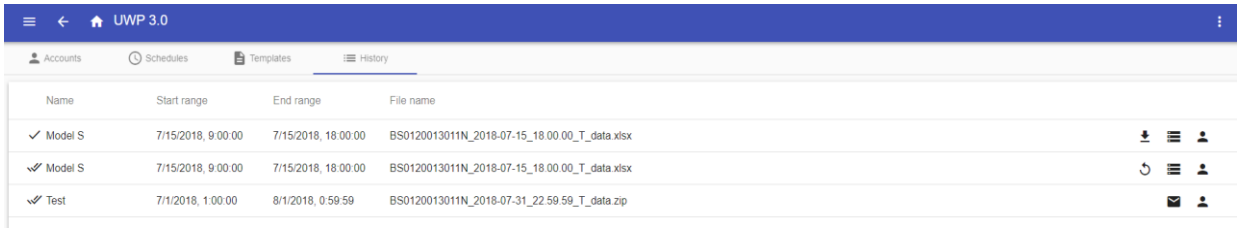


80. Templates tab (viewing area)

ICON	DESCRIPTION
	To create a new template / modify an existing one.
	To send request.
	To delete template.
	To add a report (see ***How to create a template***).

History tab

The **History** tab allows you to view the list of reports that have been already generated.



81. History tab (default page)

ICON	FUNCTION
	To download the selected *Report*.
	To re-generate the selected *Report.*
	To show/hide the details for the selected *Report.*
	To show/hide the details for the selected *Report.*
	To show/hide the details for the selected *Report.*

Things to know

These chapters are intended to describe what is a report and the report automatic sending.

What is a report

A report is a file containing a log of data or events related to a determined period of time.

It is based on a model defined by the user and it can be downloaded manually or sent automatically to an FTP/FTPS/SFTP server or to an email address through SMTP.

How to (for admin users only)

The following chapters describe the procedures to create **Templates**, create FTP/FTPS/SMTP **Accounts** and to **Schedule** reports.

How to create an FTP/FTPS account

<table>
<tr><th>STEP</th><th>ACTION</th></tr>
<tr><td>1</td><td>Access the Report page (> Reports).</td></tr>
<tr><td>2</td><td>From the Accounts tab, click on .</td></tr>
<tr><td>3</td><td>From the Account type list, select the FTP or the FTPS account.</td></tr>
<tr><td>4</td><td>Fill in the fields described below:
<table>
<tr><th>COMPONENT</th><th>DESCRIPTION</th></tr>
<tr><td>FTP server*</td><td>Fill in with the address of the FTP server to which the system has to send the file.</td></tr>
<tr><td>FTP port</td><td>Usually, the FTP service uses port 21. However, the port that the server listens to for FTP connections can be any port (if it is not already reserved for another service).
The server administrator also configures it.</td></tr>
<tr><td>Timeout</td><td>Specify the period, expressed in seconds, within which the FTP account has to try to connect to the FTP server before timing out.</td></tr>
<tr><td>FTP user and password</td><td>Fill in with valid credentials to access the remote FTP directory.</td></tr>
<tr><td>FTP remote directory</td><td>Fill in with the directory of the FTP server where the reports have to be stored.</td></tr>
<tr><td>User / Password</td><td>Data pull info</td></tr>
</table>
Note: The field marked with (*) is mandatory.</td></tr>
<tr><td>5</td><td>Click on Save.</td></tr>
</table>

How to create an SMTP account

STEP	ACTION
1	Access the **Report** page (**> Reports**).
2	From the **Accounts** tab, click on .
3	From the **Account type** list, select the **SMTP** account.
4	Fill in the fields described below:

COMPONENT	DESCRIPTION
SMTP server*	Fill in this field with the address of the server used for sending the email.
SMTP port	Usually the mail service uses port 25. However, some providers have changed it to another one in order to limit SPAM (e.g., the GMAIL account uses port 587). *Check on the provider requirements to configure an SMTP account.*
Timeout (s)	Specify the period, expressed in seconds, within which the SMTP account has to try to connect to the SMTP server before timing out.
SMTP user	Fill in with the email address used for sending the email.
SMTP password	Fill in with the password for the email account.
Recipients*	Fill in with the email address of the receiver(s).
Sender name	Fill in by typing the name used for the sender (e.g. *Web-app*).
Sender email	Fill in with the address the email is sent to.
Email subject	Fill in with the name used as the subject for outgoing emails.
Email text	Type a text that informs the receiver about the content of the Report file(s).
User / Password	Data pull info

Note: The fields marked with (*) are mandatory.

5	Click on **Save**.

How to create an SFTP account

STEP	ACTION
1	Access the **Report** page (> **Reports**).
2	From the **Accounts** tab, click on .
3	From the **Account type** list, select the **SFTP** account.
4	From the **Authentication Method** list, choose between:

OPTION	DESCRIPTION
User/Password	Fill in the fields.
User/Public key	: Authentication key request. : **Save**. An encrypted file will be downloaded. : **Delete.**

5 Fill in the fields described below:

COMPONENT	DESCRIPTION
FTP server*	Fill in with the address of the FTP server to which the system has to send the file.
FTP port	Usually, the FTP service uses port 22. However, the port that the server listens to for FTP connections can be any port (if it is not already reserved for another service). The server administrator also configures it.
Timeout	Specify the period, expressed in seconds, within which the FTP account has to try to connect to the FTP server before timing out.
FTP user and password*	Fill in with valid credentials to access the remote FTP directory.
FTP remote directory	Fill in with the directory of the FTP server where the reports have to be stored.
User / Password	Data pull info

Notes:
- This option is not available if you choose the **User/Public key** option;
- The fields marked with (*) are mandatory.

6 Click on **Save**.

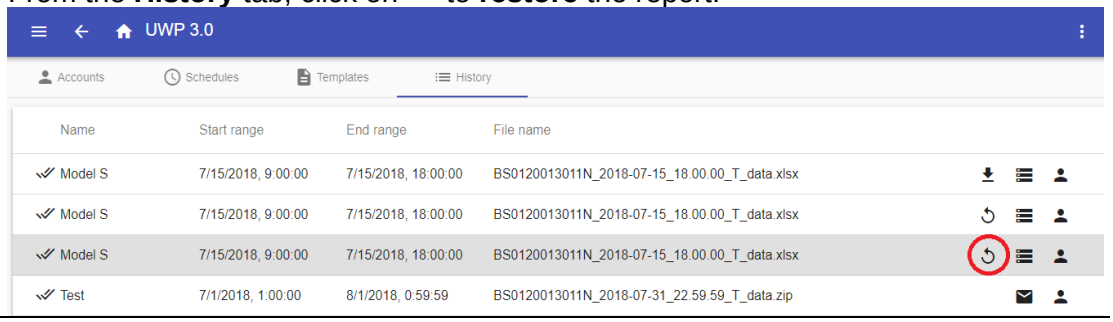
How to schedule a report

<table>
<tr><th>STEP</th><th>ACTION</th></tr>
<tr><td>1</td><td>Access the Report page (☰ > Reports).</td></tr>
<tr><td>2</td><td>From the Schedule tab, click on ⊕ to enter the editing mode.</td></tr>
<tr><td>3</td><td>Fill in the fields:
<table>
<tr><th>COMPONENT</th><th>DESCRIPTION</th></tr>
<tr><td>Name</td><td>Report name</td></tr>
<tr><td>Model</td><td>• Test Module Events
• Test Fx Event
• Test History</td></tr>
<tr><td>Recipient</td><td>Report recipient</td></tr>
<tr><td>Data interval</td><td>• Punctual
• Daily
• Weekly
• Monthly
• Yearly</td></tr>
<tr><td>Aggregation Type</td><td>• None
• Daily</td></tr>
<tr><td>Start date</td><td>Start date</td></tr>
</table></td></tr>
<tr><td>4</td><td>Click on Save.</td></tr>
</table>

How to create a template

<table>
<tr><th>STEP</th><th>ACTION</th></tr>
<tr><td>1</td><td>Access the Report page (see (☰ > Reports).</td></tr>
<tr><td>2</td><td>Access the Templates tab from the multifunction bar.</td></tr>
<tr><td>3</td><td>Click on ⊕ to open the configuration report part and fill the following fields:
<table>
<tr><th>COMPONENT</th><th>DESCRIPTION</th></tr>
<tr><td>Name</td><td>Enter the name of the report that is going to be generated.</td></tr>
<tr><td>Report type</td><td>Select the type of logged file to send:
<table>
<tr><th>If you choose…</th><th>Then it will be available…</th></tr>
<tr><td>History</td><td>• All the formats[1]
• Name layout[2]
• No measure type[3]</td></tr>
<tr><td>Events</td><td>• All the formats except for the Zipped
• Only the Record layout style
• No measure type</td></tr>
<tr><td>Legacy FTP push</td><td>• Only the CSV format[4]
• AVG, MIN, MAX
• All devices instead of All variables[5]</td></tr>
</table></td></tr>
<tr><td>Layout style</td><td>Select the layout style:
• Record
• Table (available only for History)</td></tr>
<tr><td>File format</td><td>Select the file format to generate and receive:
• XLSX
• CSV[4]
• XML
• Zipped[1] (only for History).</td></tr>
<tr><td>Name layout[2]</td><td>Select a layout for the file name</td></tr>
<tr><td>Saving mode</td><td>Single / Archive / Stream / Worksheet</td></tr>
<tr><td>Decimal separator</td><td>Dot / Comma</td></tr>
<tr><td>Null value</td><td>Null / Customised</td></tr>
<tr><td>Midnight format</td><td>23:59 / 24:00 / 00:00</td></tr>
<tr><td>Select variables[5]</td><td>The variables to be included in the report: if you select All variables, you can select the Measure type[3].</td></tr>
<tr><td>Export</td><td>The report will be generated without saving the changes.</td></tr>
<tr><td>Save and export</td><td>The report will be generated and saved.</td></tr>
<tr><td>Save</td><td>The report will be only saved.</td></tr>
<tr><td>Cancel</td><td>The changes will be discarded.</td></tr>
</table></td></tr>
</table>

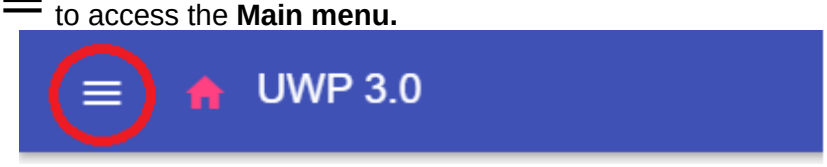
How to re-generate a report

STEP	ACTION
1	Access the **Report** page (> **Reports**).
2	From the **History** tab, click on to **restore** the report. 
3	Click on to **download** the re-generated report.

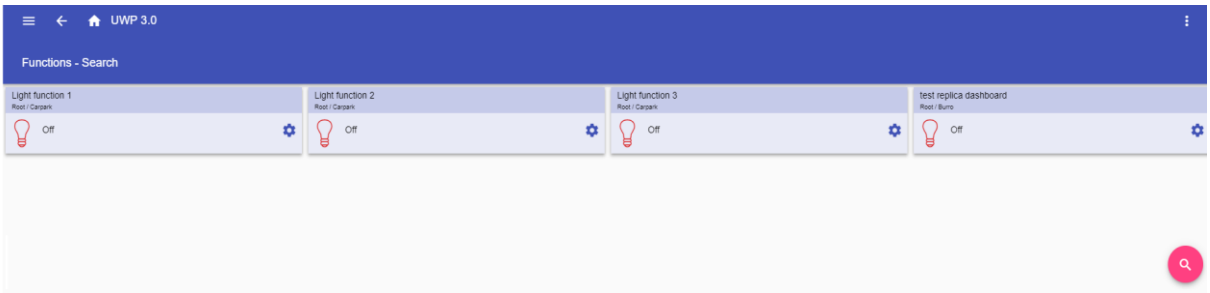
Search

This chapter is intended to describe the **Search** option (available from the **Main menu**).

How to access the search menu

STEP	ACTION
1	Click on ☰ to access the **Main menu.**  **82. Main menu**
2	Select **Search** ›

User interface



83. Search page

ICON	DESCRIPTION
	**Search** button

Things to know

The following chapter describes the **Search** option benefits.

Search benefits

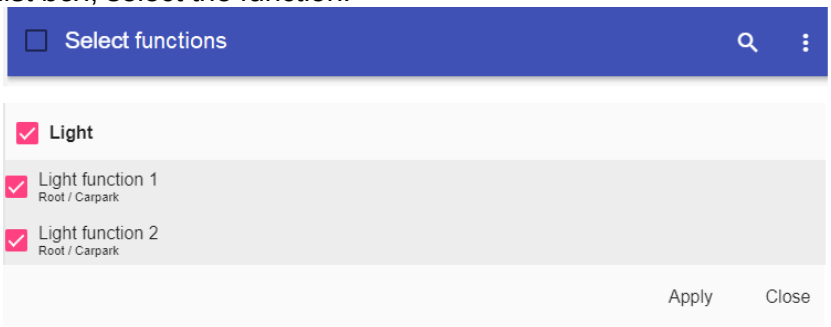
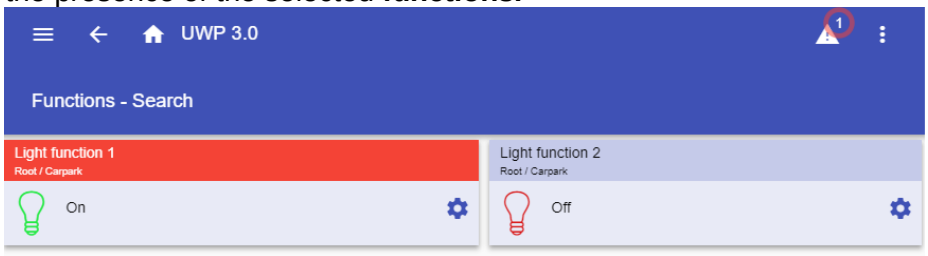
You can choose a function by clicking on and by selecting a function from the drop-down list.

Note: Leaving this page, the changes will be lost.

How to

The following chapter describes **How to search a function**.

How to search a function

STEP	ACTION
1	Access the **Search** page (**> Search**).
2	Click on to open the available signals.
3	From the *list box*, select the function.  **84. Available signals list**
4	Click on **Apply** to save the selection.
5	Verify the presence of the selected **functions.**  **85. Searched functions**

Useful links

Information	Where to find it
UWP 3.0 Tool – Instruction manual	**www.productselection.net/MANUALS/UK/uwp3.0_tool.pdf**
Carpark Parking guidance system – Design and installation manual	**www.productselection.net/MANUALS/UK/cp3_manual.pdf**
UWP 3.0 – Data sheet	**http://www.productselection.net/PDF/UK/uwp3.0_ds.pdf**
API	**www.productselection.net/Documents/UK/uwp3.0_API.pdf**

Intellectual property