Dixell EMERSON

XWEB EVO

OPERATING MANUAL (V.4.3)

TABLE OF CONTENTS

CAUTION: TO PREVENT FLAMES FROM DEVELOPING OR ELECTRIC SHOCK, AVOID ANY CONTACT BETWEEN THIS DEVICE AND RAIN OR WATER	
	CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER IT DOES NOT CONTAIN ANY PARTS THAT REQUIRE SERVICING BY THE USER ALWAYS HAVE QUALIFIED STAFF PERFORM THE PROCEDURES.
	THE SYMBOL OF THE LIGHTNING BOLT INSIDE AN EQUILATERAL TRIANGLE IS USED TO ALERT THE USER OF THE POTENTIALLY DANGEROUS NON-INSULATED ELECTRICAL VOLTAGES
	THE SYMBOL OF THE EXCLAMATION MARK INSIDE AN EQUILATERAL TRIANGLE IS USED TO WARN THE USER THAT HE/SHE MUST PAY CLOSE ATTENTION TO THE TOPIC COVERED IN THIS MANUAL

CAUTION 	This device must be installed exclusively by service staff with suitable technical training and experience, who are aware of the dangers that they are exposed to. The operations described herein are set forth exclusively for the service staff.

CAUTION 	Only use modems that are officially supported by this monitoring unit. Dixell srl cannot be held responsible for any damage caused by the use of non-supported modems.

CAUTION 	Dixell srl reserves the right to amend this manual without prior notice. The latest available version can be downloaded from the internet site.

CAUTION 	The instructions contained in this manual are standard for models “XWEB-EVO 300D” / “XWEB-EVO 500D” / “XWEB-EVO 500” / “XWEB-EVO 3000” / “XWEB-EVO 5000”. Any particular features is expressly specified.

CAUTION 	This control and monitoring unit fulfils EN 12830 for use with probes to detect measurements referred to in 13485

CAUTION 	This is a class A product. It can cause radio-interference in residential environments. Should this occur, the user should take suitable counter-measures

CAUTION 	Dixell srl reserves the right to vary the composition of its products without prior notice to the customer, ensuring the identical and unchanged features of the same

1. INTRODUCTION

Congratulations for having purchased this product.
XWEB-EVO represents one of the most advanced monitoring, control and supervision systems available on the market today. The user will benefit from a power tool, which is easy to use and highly customisable for all requirements. It uses the most advanced technology for displaying the web pages and is based on the Linux™ operating system which guarantees its efficiency and reliability. The hardware is based on highly reliable industrial boards that require practically no maintenance whatsoever.
The web interface is made available locally on models XWEB3000 / 5000 EVO WITH a monitor, mouse and keyboard directly connected to it. A local interface on the display and keyboard, is also available on the model XWEB500.
Remotely and for all models you can use the web interface by logging on with a regular computer with internet browser, such as Intenet Explorer®, or Mozilla Firefox®.
XWEB-EVO, for models 300D / 500D can easily be DIN rail. The model 500 wall. Models 3000/5000 to desk or 19 "rack.


XWEB-EVO is designed and bases its operation not only on the Dixell network of controllers. Its main applications are supermarkets of any size, industrial refrigeration and air conditioning.
In addition to the normal monitoring systems, XWEB-EVO provides (for all models):

- the recording of temperatures in compliance with food hygiene standards UNI EN 12830, HACCP
- the tracking and management of system and control alarms (and centralised management for the XCenter product)
- the management of controllers with planned operations (only for 500D/500/3000/5000 models)
- the programming of controller parameters
- Compressor Plant Management (Compressor Rack Optimiser, CRO). To better manage the availability of cooling power;
- and much more

The following tools are added to the XWEB-EVO 5000 models:

- Supervision (SPV). For load control, light control, etc.;
- Anti-Sweat Heater Control (DEWP). Useful for the management of the anti-sweat heaters

These tools are particularly useful for Energy Saving optimisation.

2. THE RECIPIENTS OF THIS MANUAL

The contents of this manual are intended for professional users, such as the XWEB-EVO installer and/or its end user. The configuration and usage procedures of the XWEB-EVO are an integral part of this manual. Users may be professionals such as energy-managers or supermarket directors.

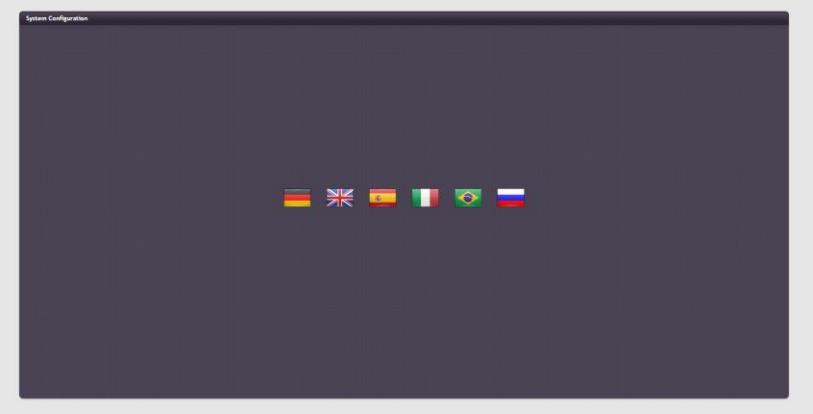
In addition to this manual, we also recommend reading the installation manual provided in paper form, inside the product package, and in electronic form on the Dixell site, under the "manual" section.

3. USING XWEB-EVO

3.1 INITIAL WIZARD PROCEDURE

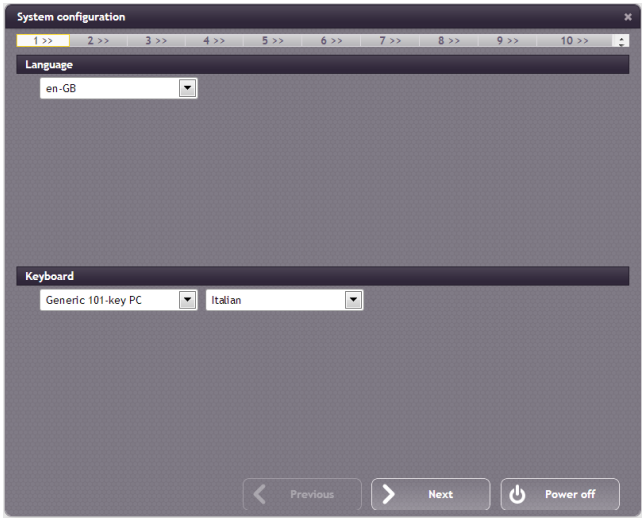
The first time the machine is switched on, the XWEBEVO will ask the user carrying out the installation to specify some essential parameters for the operating of the machine. The screens listed below make up the "initial wizard" procedure through the webserver, if you directly connect to xweb using the default address http://192.168.0.150 (for 300D/500D/500 models) or http://192.168.0.200 (for 3000/5000 models). For XWEB3000/5000 models the same pages are available from the local interface.

a) Initial wizard language.



To specify your preference, click on the flag. The Initial configuration wizard will continue in the chosen language.

b) System language / Local keyboard (for XWEB3000/5000 models only)



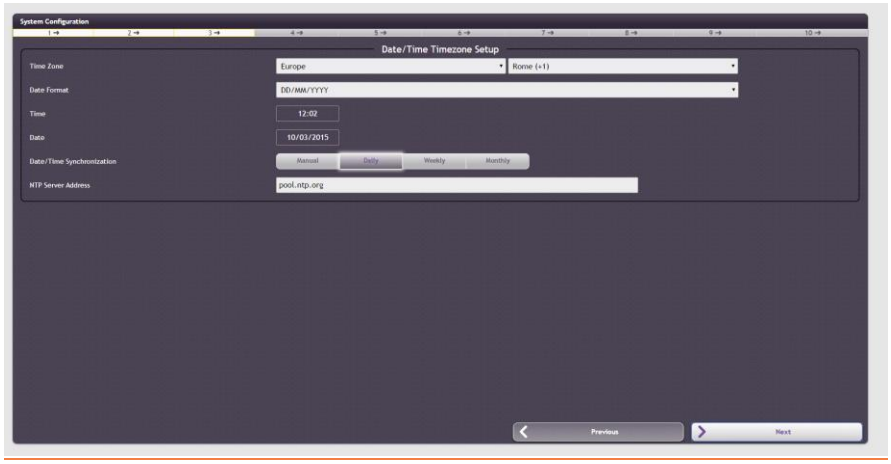
System language. It represents the language that the system uses for the parts that do not refer to a user, thus to its language. For example, for alarm or system notifications. To specify your preference, select the language from the list and press "Next". This language is also used for the Admin user.

Local keyboard. Indicate the configuration of the keyboard physically connected to the XWEB. Once you have selected your preferred parameters, press "Next" to continue with the procedure.

c) System Identification.

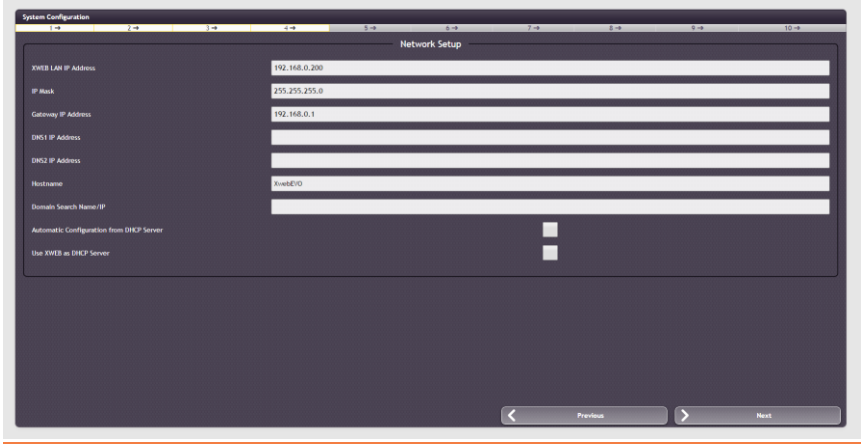
These boxes describe the system, displaying both the name and several parameters that can be used to indicate to the user the references of those in charge of maintenance or servicing of the machine. Once you have selected your preferred parameters, press "Next" to continue with the procedure.

d) Date/time time-zone setup



Configuration parameters of the XWEBEVO time. The time can always be changed by hand; or automatically synchronised with an NTP time-server with a daily/weekly/monthly interval. We recommend using an NTP server that is geographically in your vicinity, for example, in your own country. We recommend asking your network administrator for the name of the NTP server that will be used.

e) Network setup.

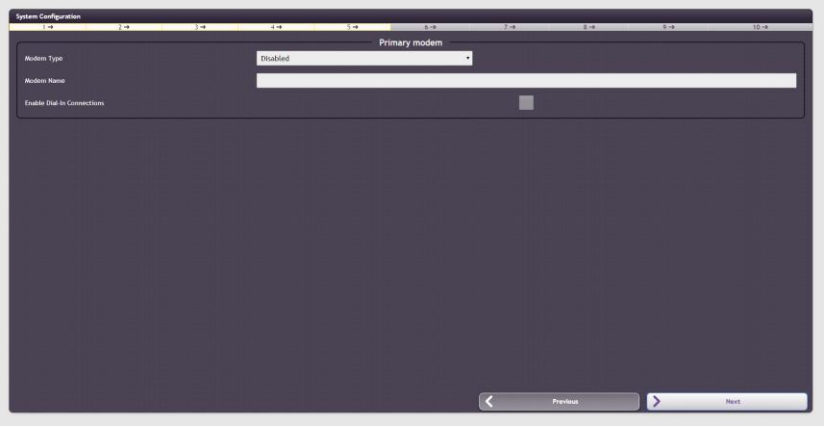


For the XWEB network interface configuration. Normally, these parameters are to be agreed with the network administrator, so it is advisable to contact him/her for guidance and support.

- '*Lan enable*': disable the check to use the XWEB with local interface only (monitor and keyboard). In this way, it will not be possible to access the server by means of the local network or internet. Disabling is not a common procedure: if in doubt, keep this box enabled.
- '*Automatic DHCP*': enable this box if your network provides a DHCP server and if you want it to inform the XWEBEVO regarding which IP to use. Disabling implies that the user configuring the XWEBEVO must explicitly indicate the following parameters:
  - Hostname
  - IP Address
  - IP Mask
  - Gateway IP Address
  - DNS1 IP Address
  - DNS2 IP Address
  - Domain search name/ip address
- '*Host name*'. Name identifying the machine within the network. Example XWEB0001
- *'IP Address*': is the unambiguous address used to access XWEB. There are two types of IP addresses: private and public. The first are used when the clients connected to the network must not be externally reachable; a closed environment is created where communication is only enabled between the network PCs. 192.168.x.y is an example of a private address. The public IPs are used when there is need for visibility on the Internet.
- *'IP Mask*': is a filter that allows for the routing of the packs directly to clients belonging to the subnet mask. For example, a subnet mask 255.255.255.0 enables XWEB to directly reach only the PCs with IP addresses compatible with the mask, with the exception of the last octet. All other requests are routed to the gateway (if present).
- *'Gateway IP'*: The Gateways are devices that handle the routing of the network traffic that is unable to directly reach the destination IP. Example 192.168.0.1
- *'DNS1/DNS2 IP Address*': In order to reach a web server on the internet, you must enter the name, e.g. www.dixell.com, in the Browser address bar. In fact, following the use of specific communication protocols required to guarantee the efficiency and the safety of the network, the name is converted into a number (the IP address). This operation is performed by a DNS server. The ISP or network administrator can normally provide a DNS server. Example 10.100.1.20
- '*Domain search name/ip address*'. Example MYCOMPANY.COM
- '*2nd web-server port*': is the network port on which the web server is listening. The default port is number 80. However, for some network needs, it may be necessary to change the default port value (port 81 and 8080 may be the values normally used).

- '*Enable local DHCP Server*': it makes sense to enable this function only if you do not wish to connect the XWEB to a network but only to a PC, where the network interface does not specify an IP. If in doubt, keep this box disabled to avoid network conflicts.
- '*Enable net speed negotiation*': enables the automatic speed adjustment of the board with the network, after a link-down event.

f) Modem setup

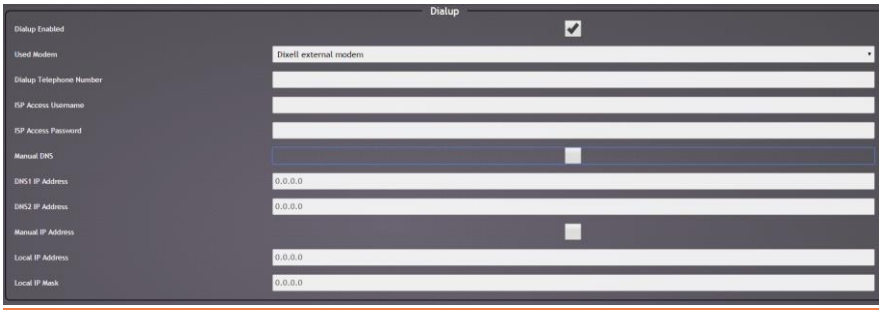


XWEB requires a modem to send faxes and, in some cases, to send emails. In the first case, the system works independently, whilst in the second, it is necessary to configure the dial-up connection (see next point). Attention: only Dixell-approved modems can be used.

Possible options:

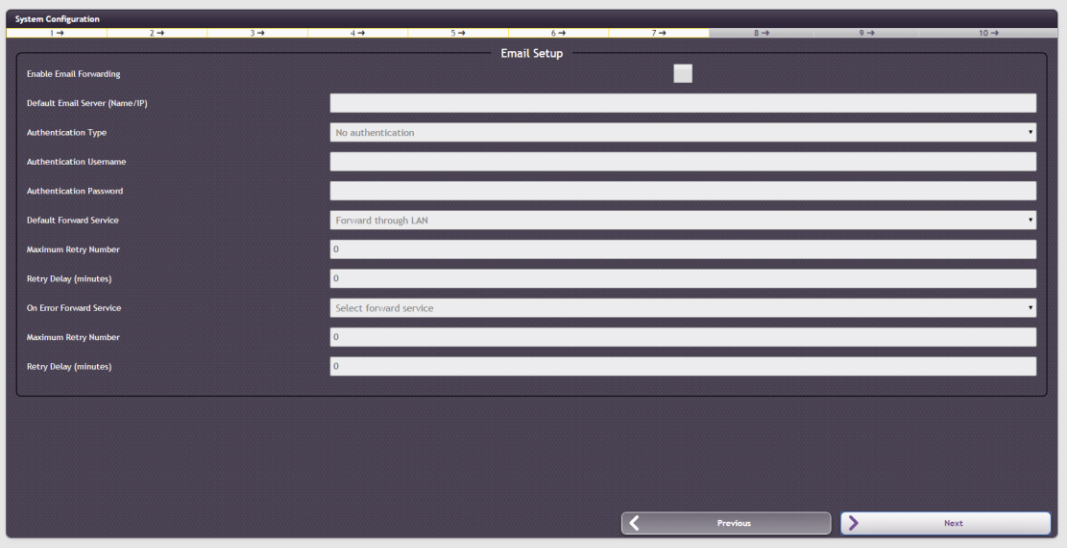
1. Disabled
2. Dixell internal modem. It is internal analogic modem
3. Dixell external modem. Its is XWEBMODEM external modem
4. External GPRS/UMTS modem. Corrisponde al modem di TC35-KIT, GT-HE910-EUD-KIT, GT-HE910-NAD-KIT
5. Internal GPRS modem. It is al modem interno GPRS (not supported)
6. External generic modem.

g) Dial-up setup.



The configuration of the dial-up parameters is necessary to establish a connection with the internet provider via the modem; for sending emails. This is also useful in cases where the XWEBEVO is connected to the local network via an Ethernet cable yet there is no access to the mail sending server. The configuration parameters are always supplied by the provider; refer to this documentation.

h) Email setup.

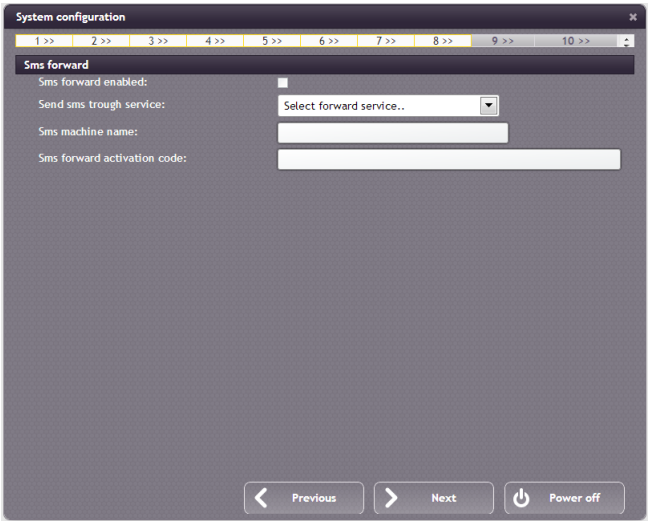


The XWEBEVO is able to send emails, generally to notify updates on the status of alarms. To enable this function, it is necessary to enable the service by completing the configuration. The configuration parameters can be supplied by your internet provider or by your network administrator.
The XWEBEVO supports different types of authentication protocols:

- No authentication
- User/Name normal
- User/Name TLS (without STARTTLS)
- User/Name TLS
- User/Name SSL

The TLS protocol is associated with ports 25 and 587; the SSL protocol is normally associated with port 465.

i) SMS setup.

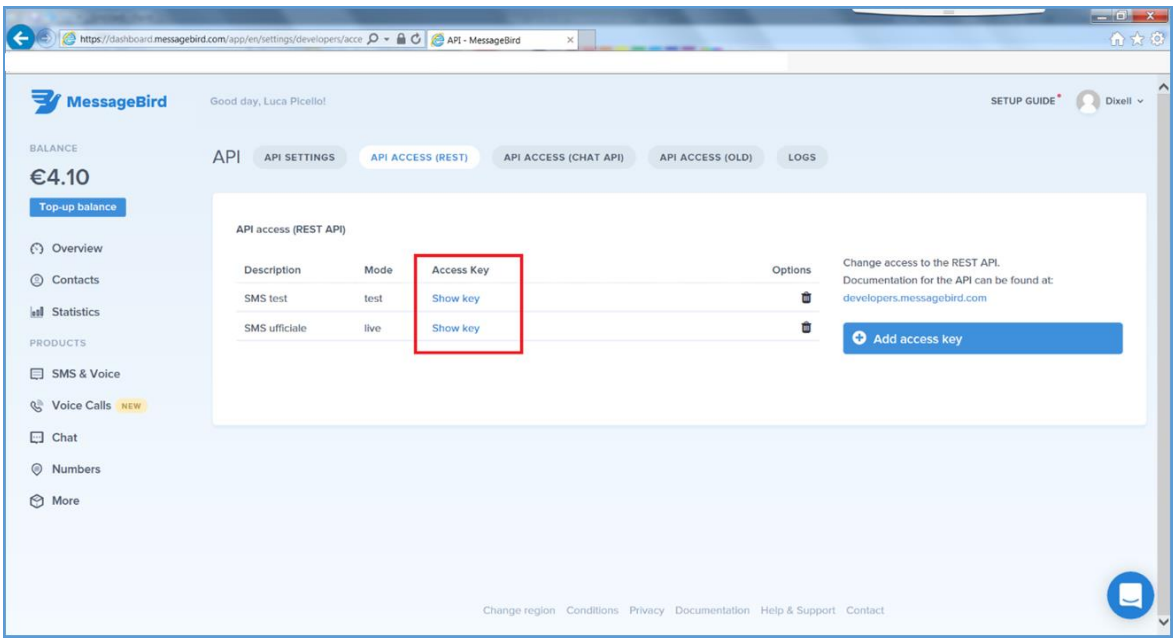


The XWEB is able to send short text messages via SMS. Some types of services can be used:

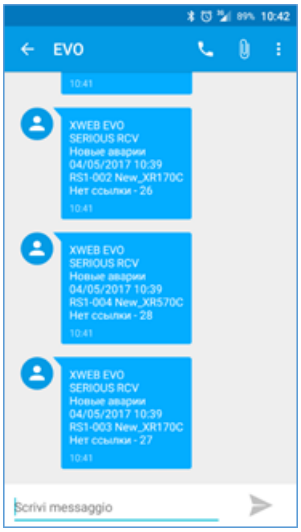
- via Netech Gateway on LAN. Visit the following link: http://www.netech.it/ir_smsalert to configure the SMS. After having completed the online registration form, you will receive an email with an activation code that you must include in the XWEB configuration.
- Via sopen KOREA Gateway. If your XWEB is connected to the Internet and want to send SMS in Korea using the service sopen (available only in Korea)

- Via RAVEN XE gateway. If you have connected to the modem XWEB raven XE, you can use it to send messages using your phone bills.

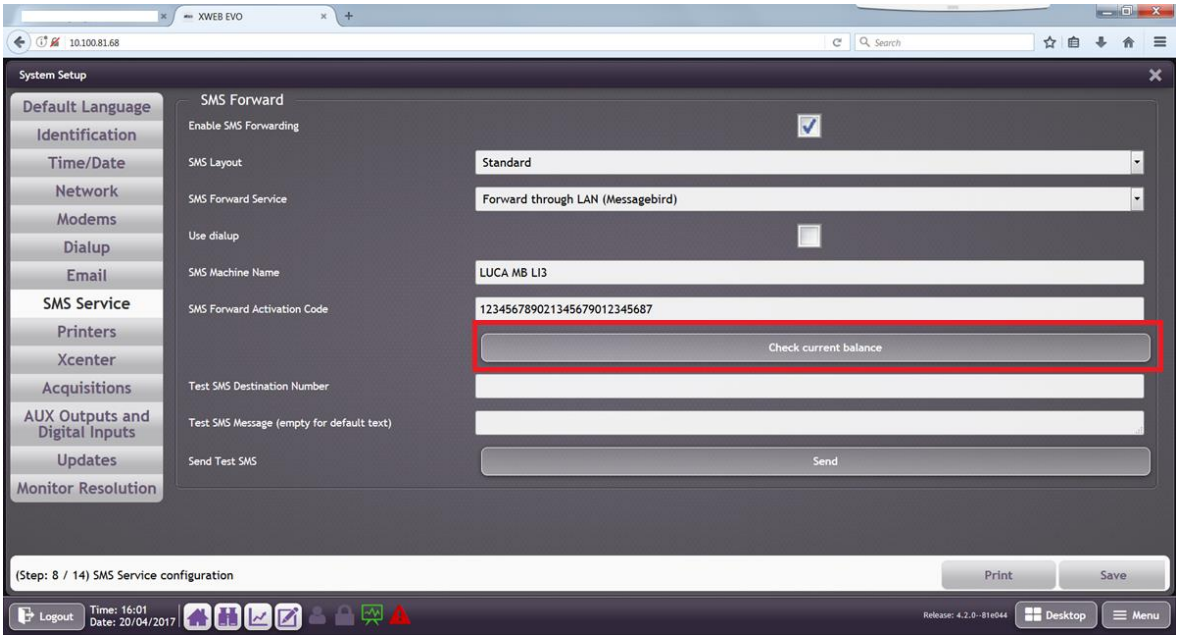
- MESSAGEBIRD: Once you have registered at www.messagebird.com , you will need to create the access key that will be used in the XWEB EVO configuration. The access key is for your credit line, from which you will download the cost of each SMS you want to send by XWEB EVO.

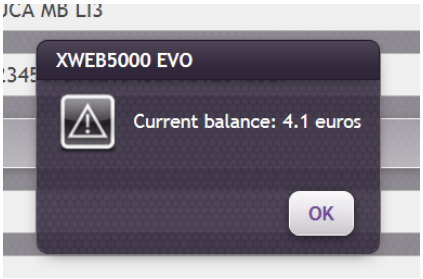


Messagebird supports sending non-Latin text

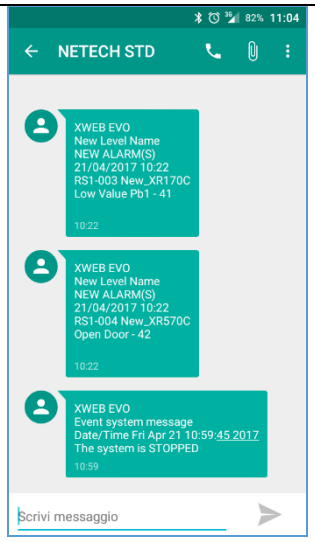
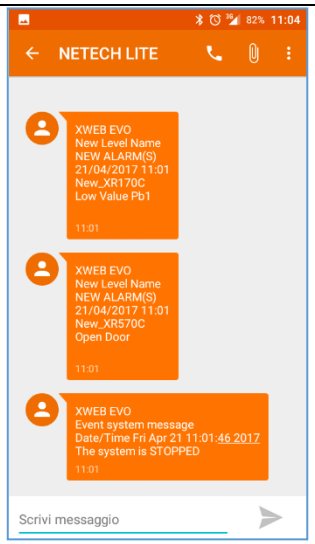
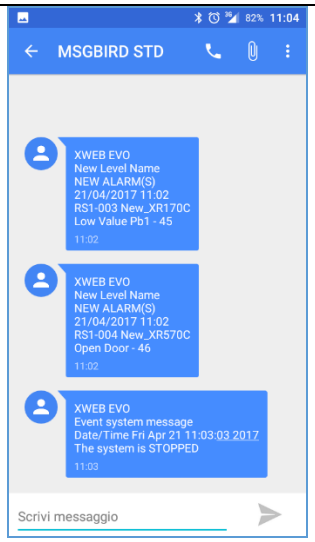
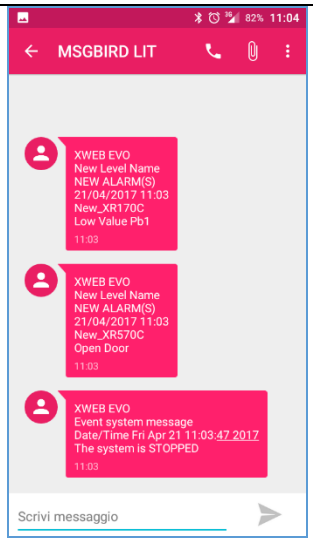


Warning: To use the service you always have to have sufficient credit for sending sms; From XWEB EVO is available on the system configuration page for credit check: press "Check current balance".





Send LIGHT SMS alert
In order to make SMS messages more readable, SMS format was extended to LIGHT. With this feature, ModBUS address and alarm code have been removed to increase the characters available for the device description

	STANDARD	LIGHT
NETECH		
MESSAGEBIRD		

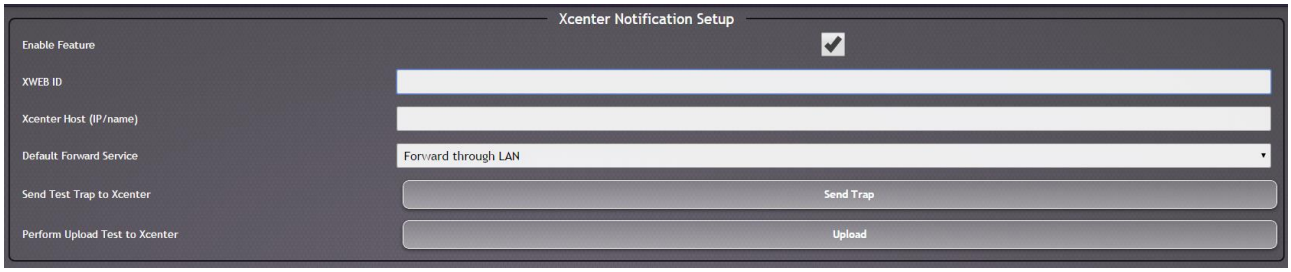
j) Printer setup (only for XWEB3000/5000)

The printer can be connected locally or use a network printer. To obtain a list of tested printers, go to www.dixell.com and visit the XWEB support section or click on the following link: http://www.emersonclimate.com/europe/ProductDocuments/DixellLiterature/PrintersXWEB.pdf

Local printer
Once you have selected the local printer, select the port that the printer is connected to through means of the Local printer list box and then select the correct print driver. If your printer model is not listed, select the model that is most similar in terms of name and presence from the list.

Windows network printer
Once you have selected Windows Network Printer, the system automatically searches for the available network printers. After a few minutes (based on the size/complexity of the network), the full list of printers will appear. If your printer does not appear in the list, it cannot be used; try to repeat the search procedure. After having selected the printer, select the appropriate print driver. If your printer model is not listed, select the model that is most similar in terms of name and presence from the list.

k) XCenter Notification Setup (not available in the initial Wizard but only by going to the System Setup)

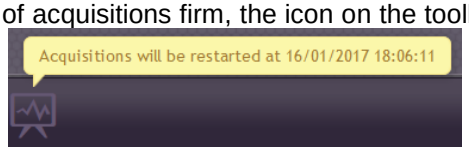


You can configure your XWEB to communicate with the system XCenter centralized management for Call Centers.

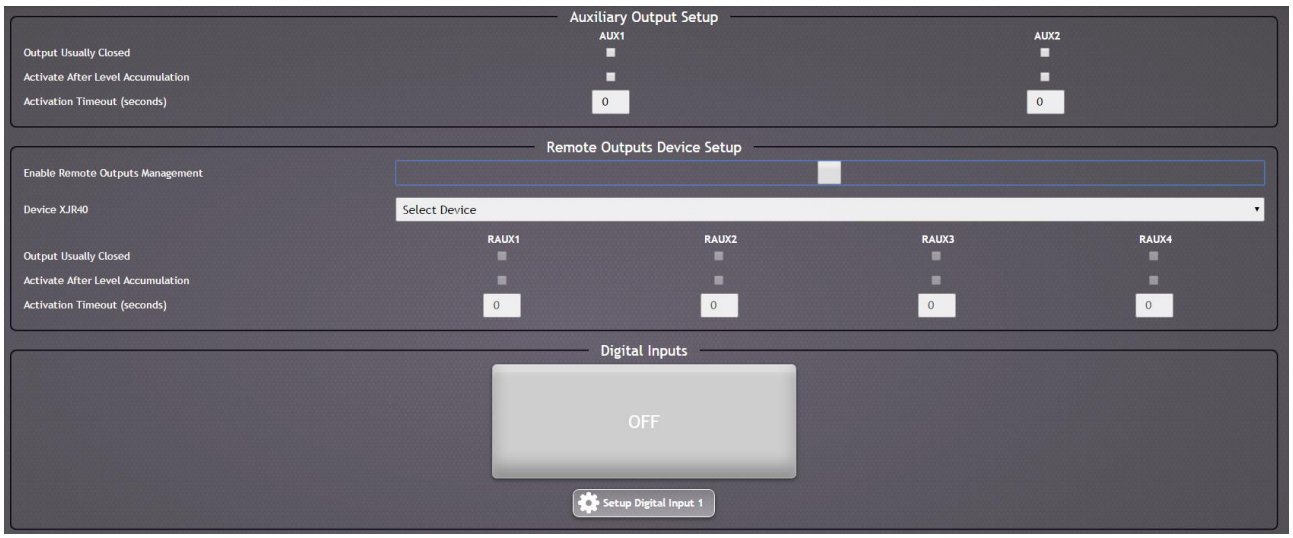
l) Acquisitions

It is possible to configure XWEB so low that face the acquisitions automatically after a certain time, since the acquisitions are stopped

In the case of active acquires the incona toolbar is: 

In the case of acquisitions firm, the icon on the toolbar and any tooltip indicating when it will be automatically reactivated: 

m) Auxiliary output setup (only for 500, 3000/5000)



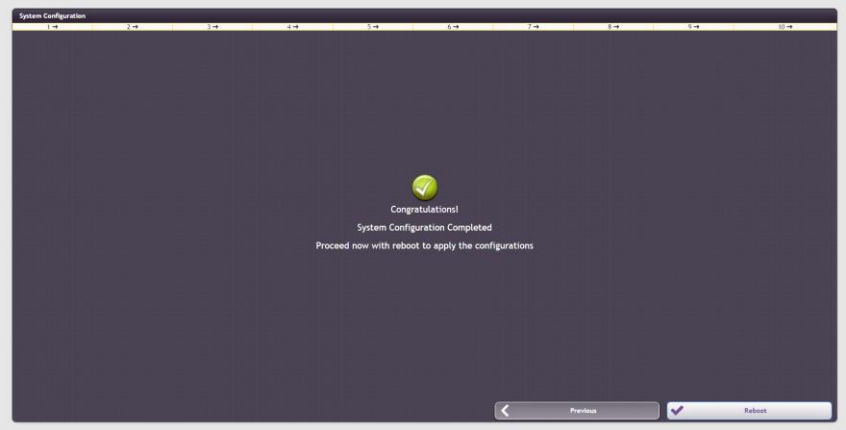
• Auxliary Output Setup
The boxes set the normal logic for relays AUX XWEB. Disabling the box 'follow alarm delay' makes energize relay in sync with the reading of the state of alarm.

• Outputs Remote Device Setup (not available during the initial wizard)
This section is used to configure any XJR40D to use it as an extension of the alarm relay of XWEB.

• Digital Inputs (not available during the initial wizard, only to xweb500evo)

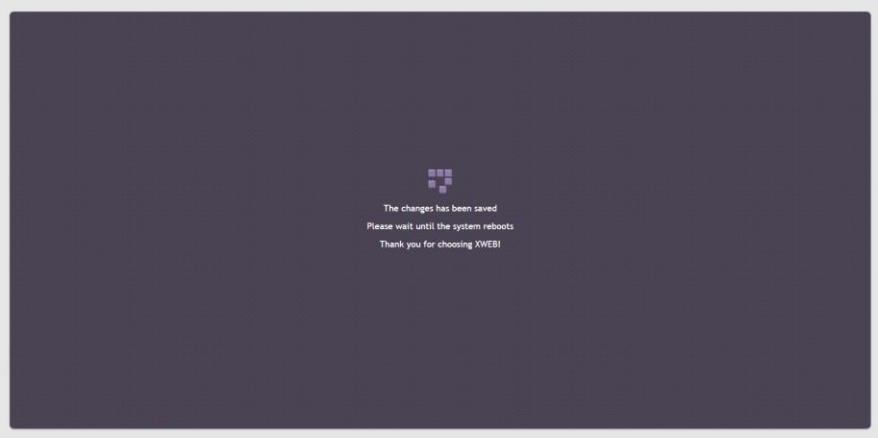
This section is used to configure commands to be sent to the tools configured on the network Modbus / 485 during state changes of the digital input.

n) Wizard conclusion



The first configuration procedure is now complete: press "apply" to apply the configuration and reboot the system.

The following screen may appear while the system is rebooting.



Wait a few minutes after rebooting to be able to access the login page.

3.2 LOCAL INTERFACE (ONLY FOR MODELS “COOLMATE”)

The local interface consists of 8 keys:

TASTO	FUNZIONE
VIEW	Direct access to the archive and live data
MENU	Access to the configuration menu
CLEAR	Exit the current menu; delete character
ENTER	Entry into menu; Open list current alarms
➢	Left shift
➢	Move up
➢	Move down
➢	Right shift

And generally the interface presents to the voices in the symbol →
To access some screens, you must enter a valid username and password of a user registered in the system.
The credentials entered remain valid for 5 minutes.

The main screen, when the system does not detect any alarm, the LCD shows:

```
        X W E B 5 0 0   E V O
        X W E B   E V O 1 2 3 4
        A c q u i s i t i o n
    0 9 : 1 8   1 8 / 0 9 / 2 0 1 5
```

When the system detectes alarms, the LCD shows:

```
        X W E B 5 0 0   E V O
        X W E B   E V O 1 2 3 4
        A c q u i s i t i o n
    A c t i v e   A l a r m s :   8
```

3.2.1 MENU VIEW

From the main screen, pressing the VIEW you access the menu

```
              V i e w
→ D a t a
  A l a r m
  T o o l s                          ↓
```

The complete menu is composed of the

```
View__
      |__ Data
      |      |__ Actual
      |      |__ From Archive
      |           |__ Main Data
      |           |__ Circular Data
      |__ Alarm
      |       Access denied insert username and password
      |            Exit Save Caps abcd...z
      |                 |__ Actual
      |                 |__ From Archive
      |                          |__ Last 3 days
      |                          |__ Last 3 days by device
      |__ Tools
      |       |__ Line test
      |__ Mute buzzer
```

- The menu data allows you to view current data or archive
- The menu alarm can display current data or archive
- The menu utility provides access to test the RS485
- The menu mute buzzer allows you to stop the sound of the buzzer, potentially active on alarm

CURRENT DISPLAY AND CHANGE OF CONTROL POINT AND ENTER

Current data from the menu you can select a tool and change the setpoint. The current view is the following:

```
  RS1-002  New _XR170C
. >------ANALOG--------<
  Evaporator  (Pb2  -7.
  Room  (Pb1)  -10.8  °C
  >------STATUS--------<
  On:  ON
  >-----SETPOINT-----<
  Set  Point  1.3°C
  >------ALARM--------<
  EEPROM  Failure:  Off
  Error  Pb3:  Off
  Error  Pb1:  Off
  Open  Door:  On
  >------INPUT--------<
  Generic  Alarm:  Off
  >------OUTPUT-------<
  Cooling:  Off
  Alarm:  Off
  Defrost:  Off
```

To change the current setpoint, the setpoint position and press ENTER, change the set using the "up arrow", "down arrow" and press ENTER.

DATA FROM ARCHIVE

Menu data archive you can select a tool and the variable of interest (for example probe "Room (Pb1)") and scroll through the value on the selected time intervals.

Please select 'information circular' to retrieve samples

```
            Room (Pb1)
  18/09/2015 11:51:23 -10.8 °C
  18/09/2015 11:46:23 -10.8 °C
  18/09/2015 12:01:23 -10.8 °↓
```

ALLARMS VISUALIZATION

The alarm menu, enter your username and password valid for the display of the same, you can see alerts

1. Actual and active

```
     Active Alarms
→ 59  (RS1-002)  New _XR170C
  58  (RS1-002)  New _XR570C
  57  (RS1-002)  New _XR170↓
```

Selecting the alarm hano details alarm. The information is as those of example:

```
      Active  Alarms
. Code:  59
  Address:  RS1-002
  Device:  New_XR170C
  Category  Default
  Name:  Open  Door
  Start:  2015/9/18  10:11:28
  End:  Active
  Duration:  Active
```

2. From archive

```
      Alarm  Archive
. Code:  69
  Address:  RS1-002
  Device:  New_XR170C
  Category  Default
  Name:  Open  Door
  Start:  2015/09/18  14:45:13
  End:  2015/09/18  21:43:14
  Duration:  06h  58m
  Terminated  By  SELF
  Notes  Present
  Notify  Not  Present
```

3.2.2 MENU MENU

From the main screen, pressing the MENU key the user accesses the menu

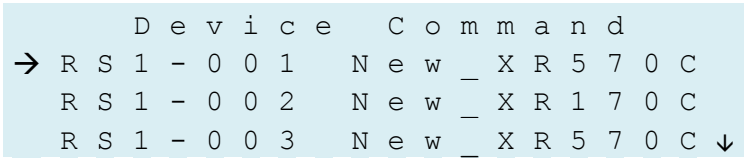
```
            Menu
→ Setup
  View
  Device  Command          ↓
```

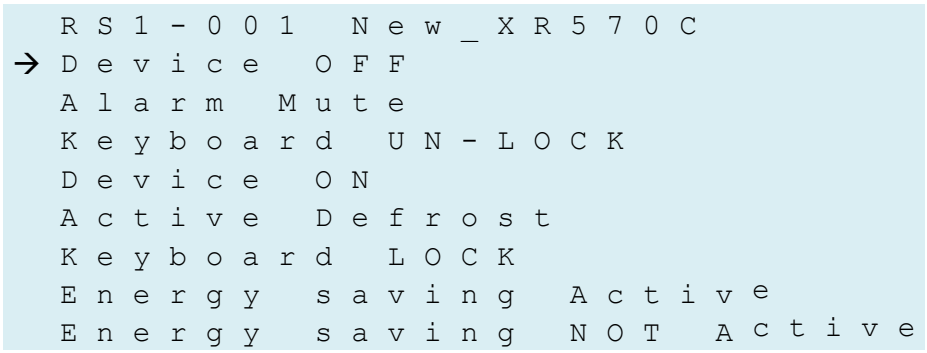
The complete menu is composed of the

```
Menu__
      |__ Setup
      |     |__ Access denied insert username and password
      |          Exit Save Caps abcd...z
      |           |__ XWEB500 EVO - Device
      |           |     |__ Language
      |           |     |__ Identification
      |           |     |__ Delete archive
      |           |     |__ Network
      |           |     |__ e-mail
      |           |
      |           |__ Start-Stop Acquisitions
      |           |     |__ Start Acquisitions
      |           |     |__ Stop Acquisitions
      |           |
      |           |__ Date / Time
      |           |     |__ date
      |           |     |__ hour
      |           |     |__ Format
      |           |     |__ NTP server
      |           |     |__ Sync mode
      |           |
```

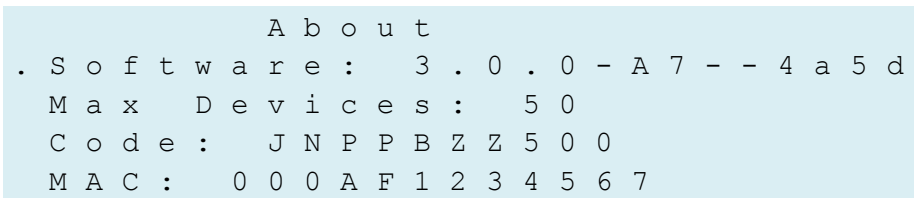
```
|           |__ Devices
|                 |__ Add
|                 |__ Delete Single Device
|                 |__ Delete multiple devices
|
|__ View
|     |__ ( come menu VIEW, vedi sopra )
|
|__ Device Command
|     |__ Access denied insert username and password
|          Exit Save Caps abcd...z
|
|__ Global command
|     |__ Access denied insert username and password
|          Exit Save Caps abcd...z
|           |__ command 1
|           |__ command 2
|
|__ Logout
|
|__ About
```

- The account setup allows the configuration of the machine parameters XWEB
- The menu view allows you to view current data or archive
- The menu command device allows sending commands to instruments



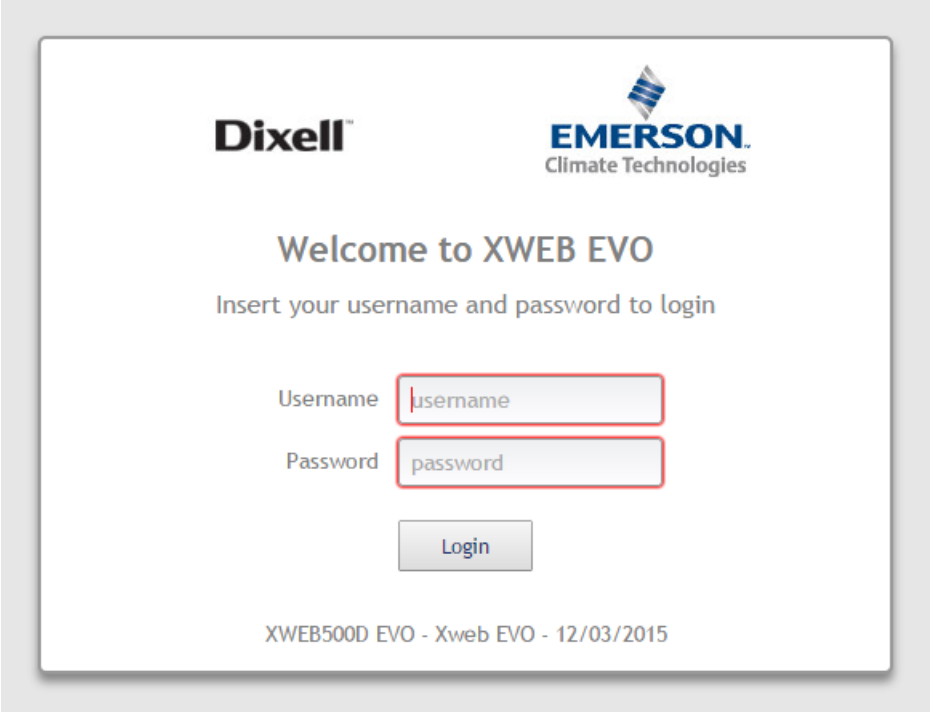


- The global voice-command is used to send commands to groups of instruments, as well as configured on the desktop 'overview'
- The menu logout force entry of the user name and password for future operations that require it
- The menu About allows the display of information related to the model



3.3 ACCESS TO THE SYSTEM

Access the system from your PC by entering the XWEBEVO IP in the browser address bar. With a direct local connection [screen, mouse and keyboard], this operation is not required, simply switch on the screen.



The user will be directed to the "login" page. From which all users will consistently have access to the system's user interface.
Enter Username and Password to access the system. If the entered details are correct the homepage is loaded, otherwise repeat the operation. Pay attention to the presence of alphanumeric characters or capital letters in the password.
You can only connect to a system being accessed for the first time, which has just completed the "initial wizard" procedure, with:
Username: Admin
Password Admin
Attention: change this password as soon as possible; anyone can read this manual and come into possession of the access details. Icon  may appear bottom-right. It represents the case in which the XWEBEVO is already operational and an alarm has been detected (e.g. high temperature). It will be necessary to login with a valid username and password to be able to recognise the type of alarm and to analyse the system situation. The alarm icon does not automatically assume that the XWEBEVO has activated the relay outputs (e.g. to pilot an alarm siren) nor that someone has been notified of the alarm. This depends on how the administrator has decided to configure the XWEBEVO.

Icon  may appear bottom-left. It represents cases in which access to the user interface by non-administrator users has been blocked. This block is normally executed to indicate a system maintenance operation by a specialised operator.

3.4 XWEB SYSTEM SETUP

3.4.1 INTRODUCTION

In its configuration, the XWEB-EVO system requires connection to its interface of Modbus devices. Make sure that:

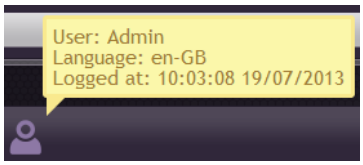
7. the controller network is suitably connected paying particular attention to the configuration of the device addresses, to avoid non-admitted duplications.
8. all instruments are properly powered. Create the list of all connected instruments. Then compare this list with the number of instruments effectively detected by means of the automatic procedure

The XWEBEVO allows for the management of different device lines (also called "nodes"), which can use different types of physical connections and configurations for communication. Obtain the network documentation.

3.4.2 HOMEPAGE AND NAVIGATION BAR

The page that the XWEB-EVO displays on login is the “Desktop Overview”. This is further detailed later in the manual, in the section relating to Desktops.
The user can also browse the other main pages that are grouped in the DESKTOPS menu of the navigation bar. Or in other pages, typically for configuration, present in the MENU section.
The navigation bar is always visible on all pages and it enables the user to run the LOGOUT, in other words, to display the interface on the page requesting the username and password.

The user is provided with additional information in the navigation bar, such as:

- Date and time of system
- Information on connected user 

- State of access block to "non-admin" users.  block active;  block not active.

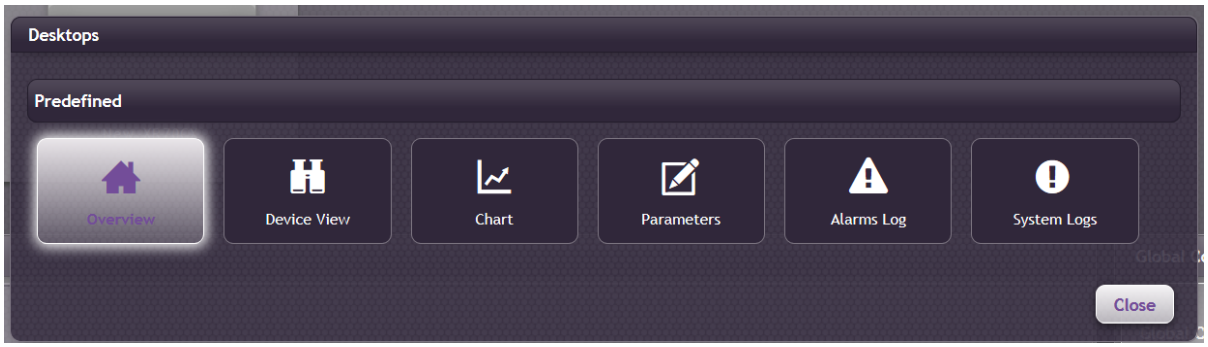
  Click on the padlock icon to activate and deactivate the block: a dialog will appear to confirm the operation. When the system is blocked an indication appears on the login page.
- State of the acquisitions.  active;  not active
- State of the alarms. At least one active with icon present 

The other pages can be accessed from the navigation bar by clicking on the icons

-  Desktop Overview
-  Desktop DeviceView
-  Desktop Chart
-  Desktop Parameters

-  Desktop Alarms
-  Desktop Consumptions

The DESKTOPS and MENU menus can be accessed by clicking on the buttons on the right-hand side of the same page.
For the DESKTOPS pages, navigation is carried out via the carousel from which the user can choose the desired page.



Alternatively, it is possible to scroll down the pages using keyboard short-cuts:

ALT-H (Desktop Overview)
ALT-W (Desktop DeviceView)
ALT-G (Desktop Chart)
ALT-P (Desktop Parameters)
ALT-A (Desktop Alarms)
ALT-L (Desktop System logs)

For the MENU pages, navigation is executed through means of the connections in the “XWEB SYSTEM SETUP” and “TOOLS” sections.

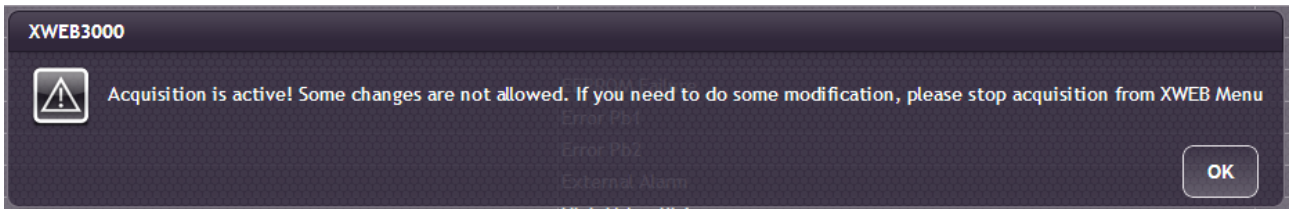
The user can access the desired section by clicking on the name.

3.4.3 SYSTEM CONFIGURATION

The XWEB system is configured upon machine commissioning, via the "initial wizard" procedure described in the chapter.
Subsequently, the system configuration can be modified by accessing the MENU→XWEB SYSTEM SETUP→System Setup. See chapter 3.1 - INITIAL WIZARD PROCEDURE.

3.4.4 CONTROLLER CONFIGURATION

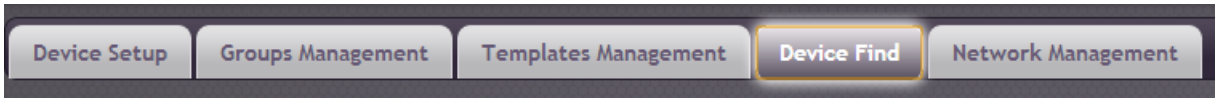
The controller-device configuration phase allows for the association of each connected device with the system. For each device, the system will be able to represent and configure its attributes and functions. The system will, in relation to the selected device, only show the attributes (categories, alarms, inputs, etc..) typical of the device itself. To be able to modify the faulty configuration parameters, the acquisitions must be switched off. Should they remain switched on; an error message will appear upon accessing the page:

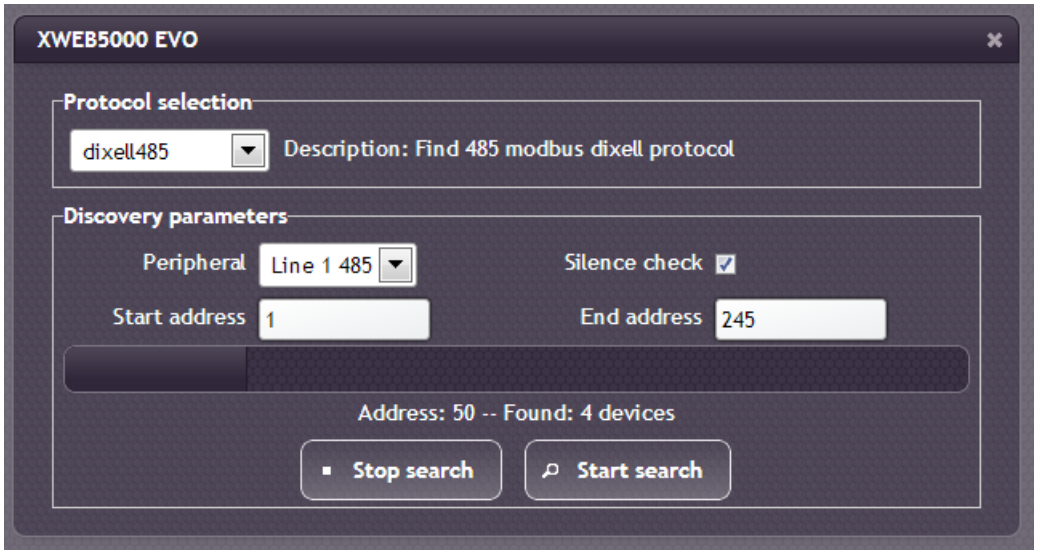


When entering configuration mode, from this page it will be possible to launch the following operations:

A. DEVICE FIND

Performs a search of the controller network for the Dixell devices. This procedure is automatically launched when no device has been configured. This procedure can also be manually run in the next phase when the tools are already configured, by accessing the tab "Find".





To perform the search for the controller devices (also called "nodes")
1. Specify a protocol.
   - **dixell485**: controller search, optimised for wired networks (no wireless)
   - **dixell485xev**: controller search, optimised for wired XEV modules (no wireless)

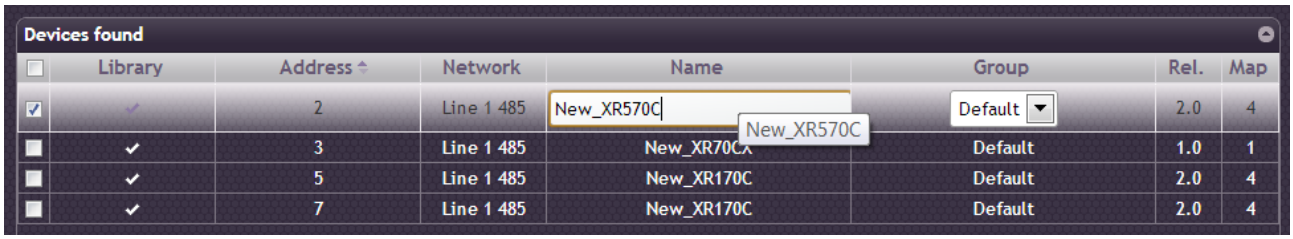
- **dixell485-icool**: controller search, optimised for wireless networks (using the iCOOLL modules)
- **mb485tcpip:** controller search, Modubus-485 connected on tcp/ip gateway
- **mbtcpip**: Modbus search on tcpip

2. Specify the 485 serial line

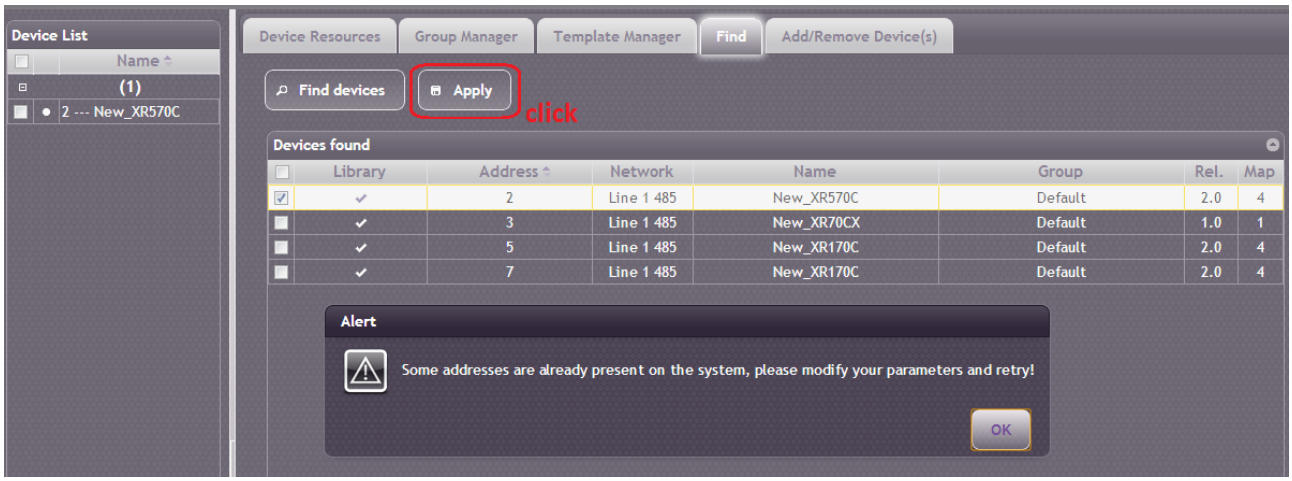
   The XWEB300/500EVO models can manage 1 serial line. The XWEB3000/5000EVO simultaneously allows for the management of 2 serial lines. Each line can address a maximum of 247 devices.
3. Specify whether or not the system must run the search by controlling the silence time. The enabling of this parameter allows for the stopping of the search procedure should noise be detected on the line.

   If in doubt as to whether or not to enable this function, disable it.
4. Specify the Modbus range of addresses to be detected
5. Press "Start search" to run the operation.

The search results may display the list of detected devices that can be added to the network configuration.
The presence of the system device library is indicated in the "Library" column with the symbol ✔. The missing library must be installed should another symbol be displayed.
The name of the device and the group of pertinence can be configured when the row is selected (as shown below).



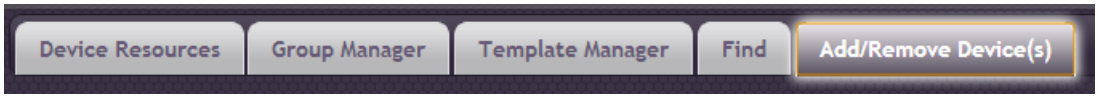
To confirm the configuration of the devices, select them and press "Apply".
Attention: from this window it is not possible to replace the set-up of controllers already present in the configuration. If at least one of the selected addresses is already present in the "Device List", you will receive an error message:



If you have changed a physical device and need to replace it in the system configuration, you must first remove it from the device configuration.

B. ADD/REMOVE DEVICES, MANUAL SETTING

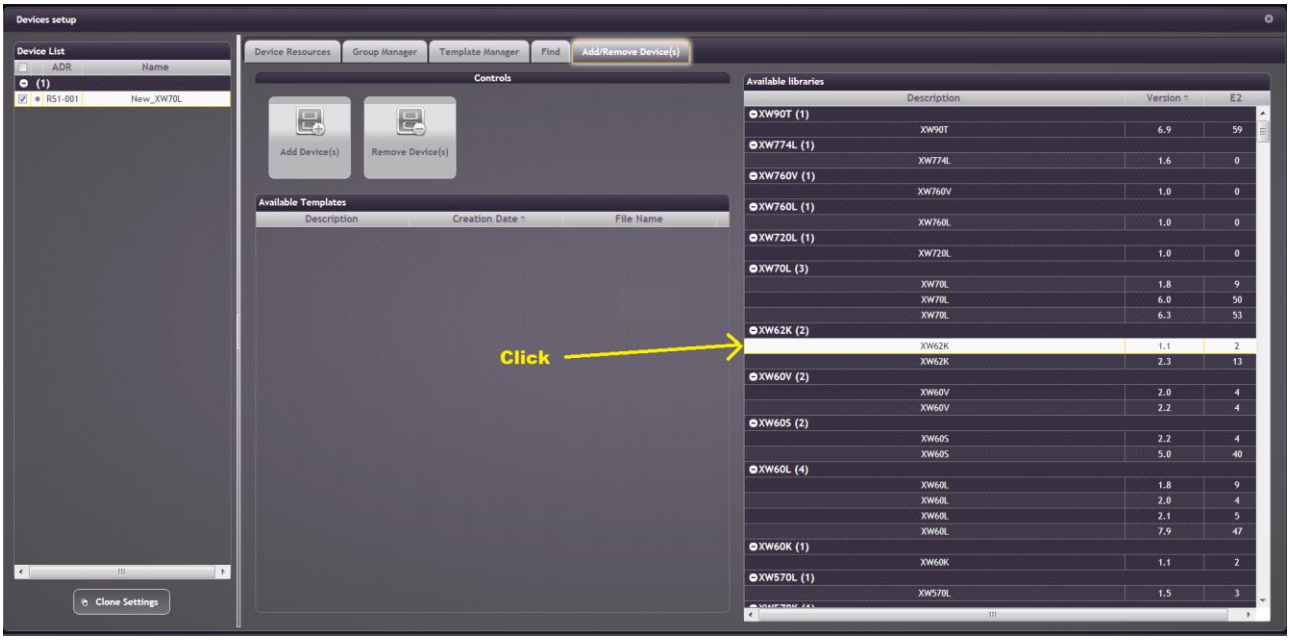
The association with the instrument network configuration can be manually added or removed to/from the controller devices by the user. You must access the "Add/Remove Device(s)" tab.



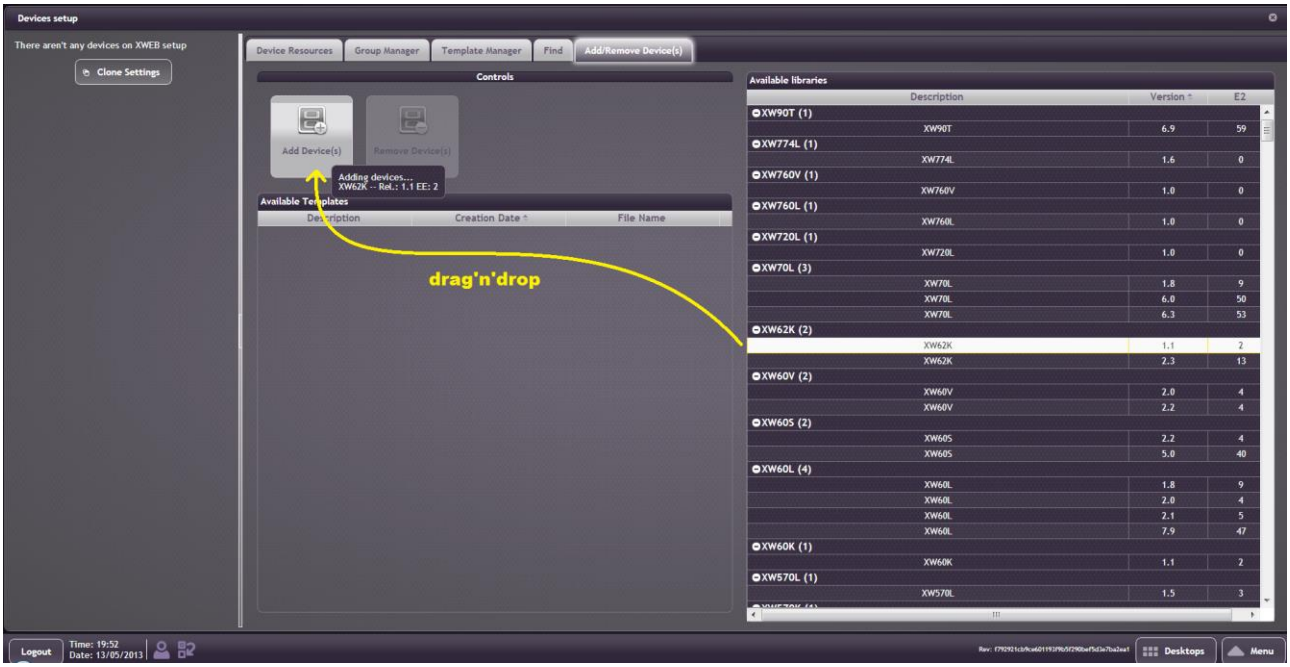
The list of all the libraries in the system is displayed in this window.

- Add a device

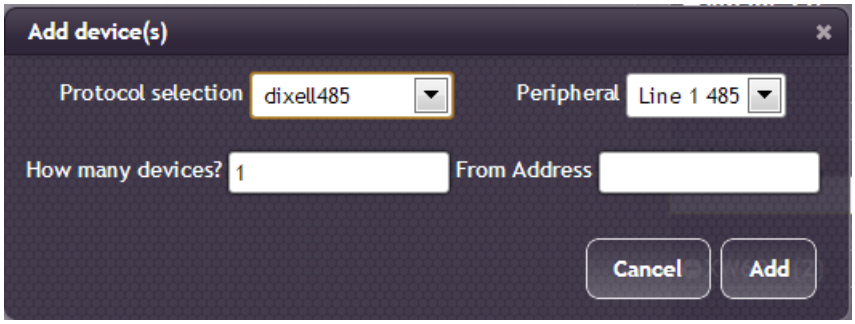
1. Select the library to be used from the list:



2. Run the Drag'n'Drop on the "Add Device(s)" area:



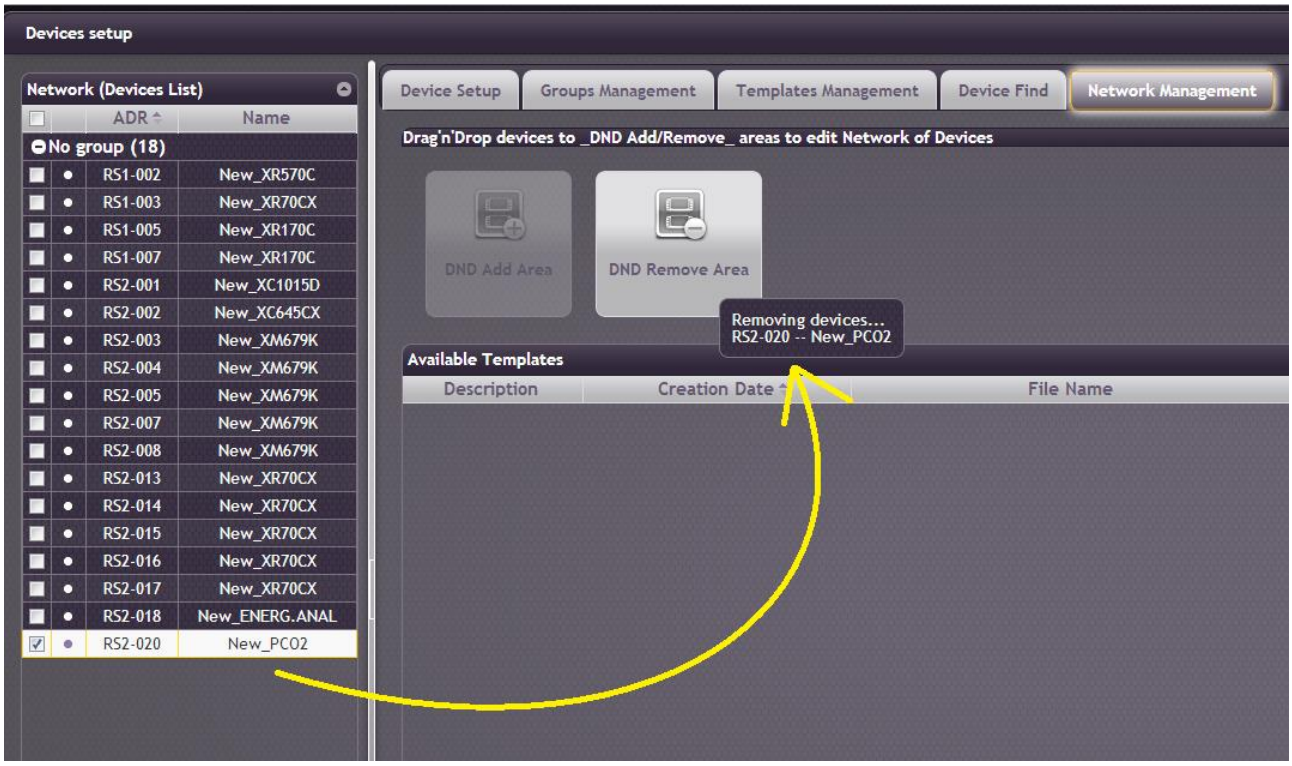
3. Specify the configuration parameters of the devices on the network.



The correct execution of the procedure will update the left-hand side of the screen with the list of configured controllers.

- To remove a device

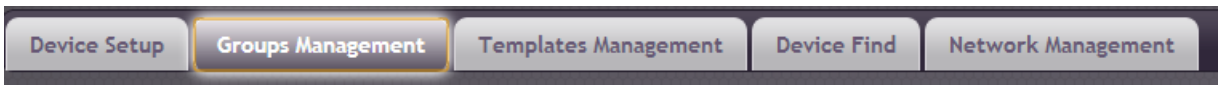
1. Select the device you wish to remove from the network configuration



2. Run a drag'n'drop on the "Remove Device(s)" area. Attention: to correctly execute the drag, click on the dotted area
3. Confirm the removal

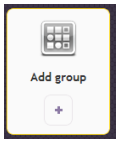
C. CONFIGURATION OF THE DEVICES-GROUPS

The user can assign controller devices to groups so as to order the configuration according to a functional diagram or physical positioning within the supermarket.
The separate representation of the groups can be seen in the main "Overview" page.
Access the "Group Manager" tab to configure the groups.



- To add a group

1. Press the "Add group" (+) key



2. enter the name of the group. E.g. "BT"

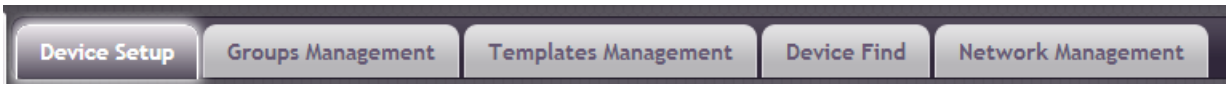
3. Select the devices to be added to the group. Keys SHIFT and CTRL can be used for multiple selection.

4. Run the drag'n'drop of the devices on the group box. Attention: to correctly execute the drag, click on the dotted area

It is also possible to assign the devices to the groups directly using the "Device Find" procedure.

D. RESOURCE CONFIGURATION OF DEVICES

It is possible, for the devices already added to the controller network configuration, to customise their resources. For example, the variable name as well as other features. Select the "Device Resources" tab to access this feature.



- Customisation of device name.

- Enable Device

No: by enabling this option, XWEB not query the device and therefore no value from the device is displayed. This option is useful when you want to create pre-device configurations but will not fit them to keep them in a real network context.

Yes, not logging in OFF mode: by enabling this option, XWEB interrogates the device. In the event that the device is in ON displays the data in real time keeping them stored in the historical archives. In periods when the device is OFF, the device data are not available.

Yes, not logging in OFF mode: by enabling this option, XWEB interrogates the device. Both in the case that the device is in the ON or OFF displays the data in real time keeping them stored in the historical archives. This option is useful in case the tool should be used as a 'probe'; the data read from the instruments in OFF are not always valid and should be checked with Dixell on what tools to use this function.

- Main Sampling (mm:ss)

Registration time of main history data. This time represents the maximum resolution of each sample, after the two days of sampling.

- No-Link timeout

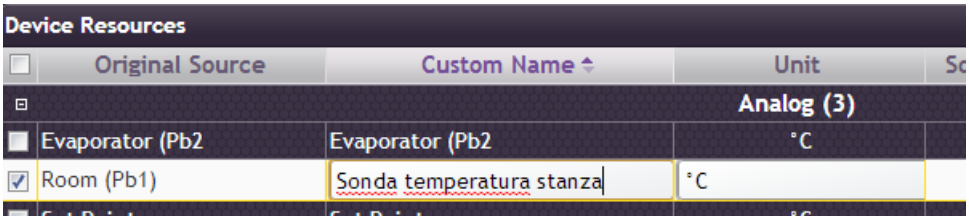
Time after which the system detects the condition of the disconnected device.

- XWEB Clock-Sync

Enable the XWEB in order to synchronise the instrument clock. This option is only available for devices with RTC. The update operation is automatically run by the system on a regular basis.

- Customisation description of variables and of the unit of measure

1. Select the variable of which you wish to change the description. The string can be edited by typing in the "Custom name" or "Unit" column.



- Registration in threshold main data (Red.Edge) and not sampling (only for digital type variables).

This function allows you to keep the thresholds unaltered, even below the sampling times for the main data for the variables selected, in order to allow for the detailed graphical representation of the same variables, even after two days. To enable the function, tick the box relating to the variable in the "Sodsc" column. Attention: the enabling of this function can also drastically reduce the overall memory of the XWEB history. Only enable this function for short periods of a few days.

- Enabling of the variable for "DeviceView" page.

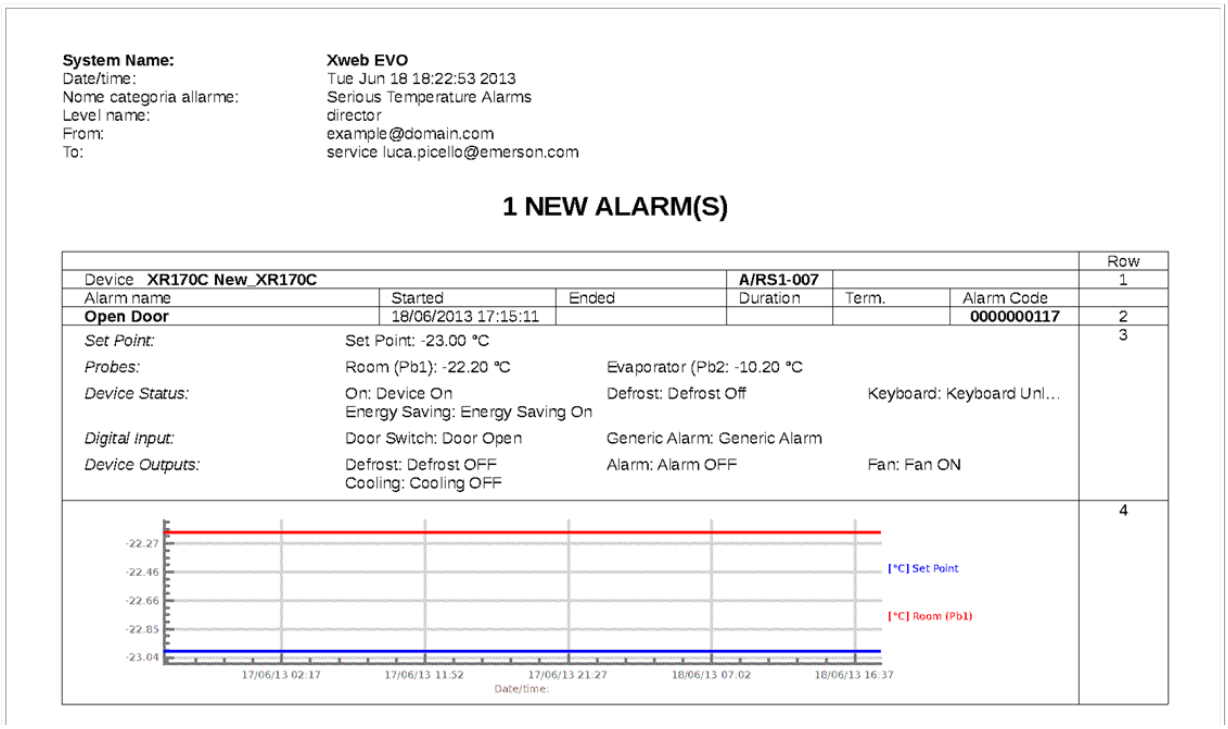
The variable is inserted in the DeviceView page if the box corresponding to the same variable is enabled. By default, each variable is enabled in this context.

- Enabling of the Notify variable

The variable is inserted in the snapshot table, in the instrument notifications. For example, as seen in the image below, the variable is inserted in "Row 3" of the table. All values in this table are relative to those displayed when the notification is sent.

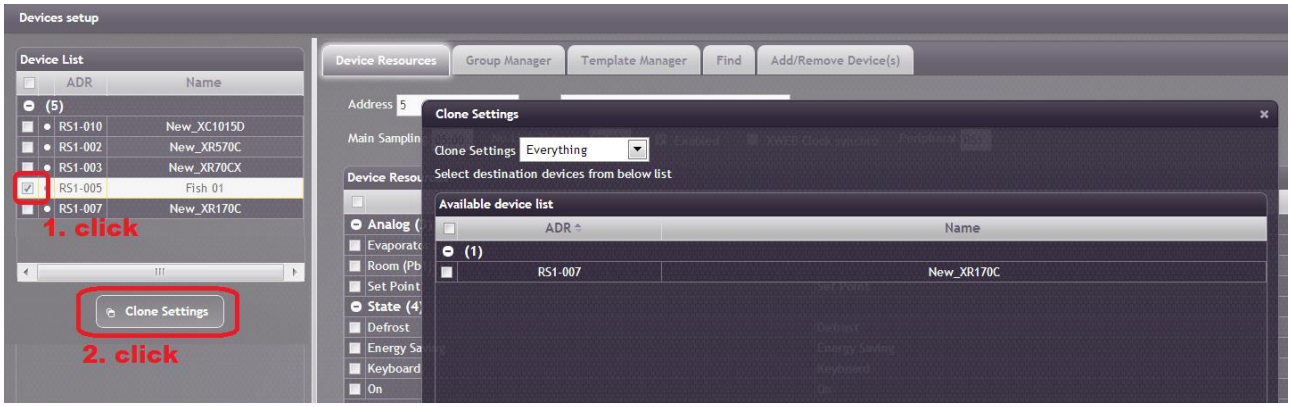
- Enabling of the Graph variable

The variable is inserted in the snapshot graph, in the instrument notifications. For example, as seen in the image below, the variable is inserted in "Row 4" of the graph.



- Clone configuration of an instrument

The XWEB-EVO allows for the cloning of the configuration of a device to reduce the number of configuration operations on the network instruments. To do this, select the source control and click on "Clone Settings".



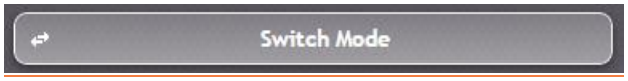
From the drop-down menu select:

- "Everything": applicable only to compatible instruments. For a copy of all device parameters.
- "Common Settings": applicable to all instruments. For a copy of only the compatible parameters that can be detected on the destination device.

Select the devices to which you wish to apply the copy of configuration parameters on the network and click OK. The 'name', 'sampling', 'no-link time out' and 'clock syncro' parameters, at this point, are all duplicated alongside all descriptions of the variables and their display parameters.

Advanced configuration of the device

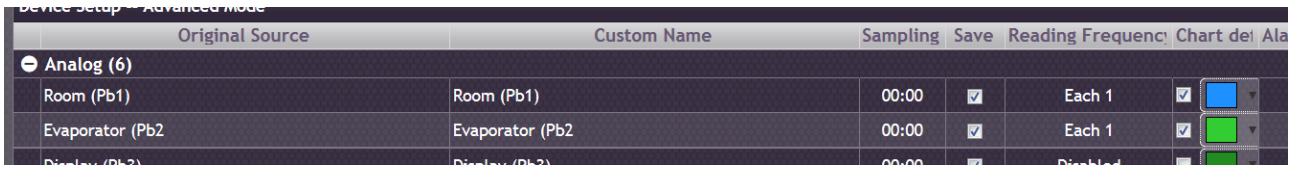
Press "Switch Mode" at the top-right to access the advanced configuration parameters



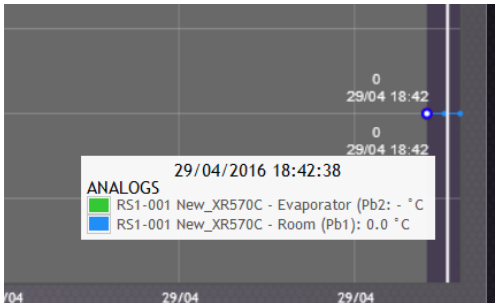
The user can configure the variable description (resources) of the device and for each of these, configure:

- Sampling: specific acquisition time of the resource. If set at 00:00, the acquisition time will that which is global for the device ("Main Sampling"). By default this parameter is set at "00:00". This parameter is relative to all resources available being read by the device and not for the controls.
- Save: data-logging enabling for the variable. If this checkbox is disabled, the variable is displayed in real time on the runtime/device-view page but the history of its trend will not be maintained. This parameter is enabled by default. This parameter is relative to all resources available being read by the device and not to the controls.
- Reading Frequency: this parameter sets the activities on the polling cycle for the resource. Disabled debilitates all resource reading and writing operations; each X to enable them where X is the delay in the polling rounds. By default this parameter is set to Disabled or Each 1 (variable management for each polling round, for analogue and digital resources) or Enabled for control resources.
- - Alarm Category: This parameter links the state variables and alarms, their alarm-categories with which notifications will be managed either locally or remotely on the user interface with email / fax / sms / etc. This parameter corresponds exactly to what the user can go to configure Menu→Alarms Setup→Strumento (🔍) →Category
- Chart default: this parameter that includes the enabling or not of the variable and its color, is used for the graphical representation of default in the graph pages such as that of 'deviceview'.

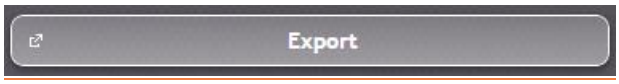
  For instance



When the user accesses the 'deviceview' of the instrument this will present a chart with the default selected and their color variable page.



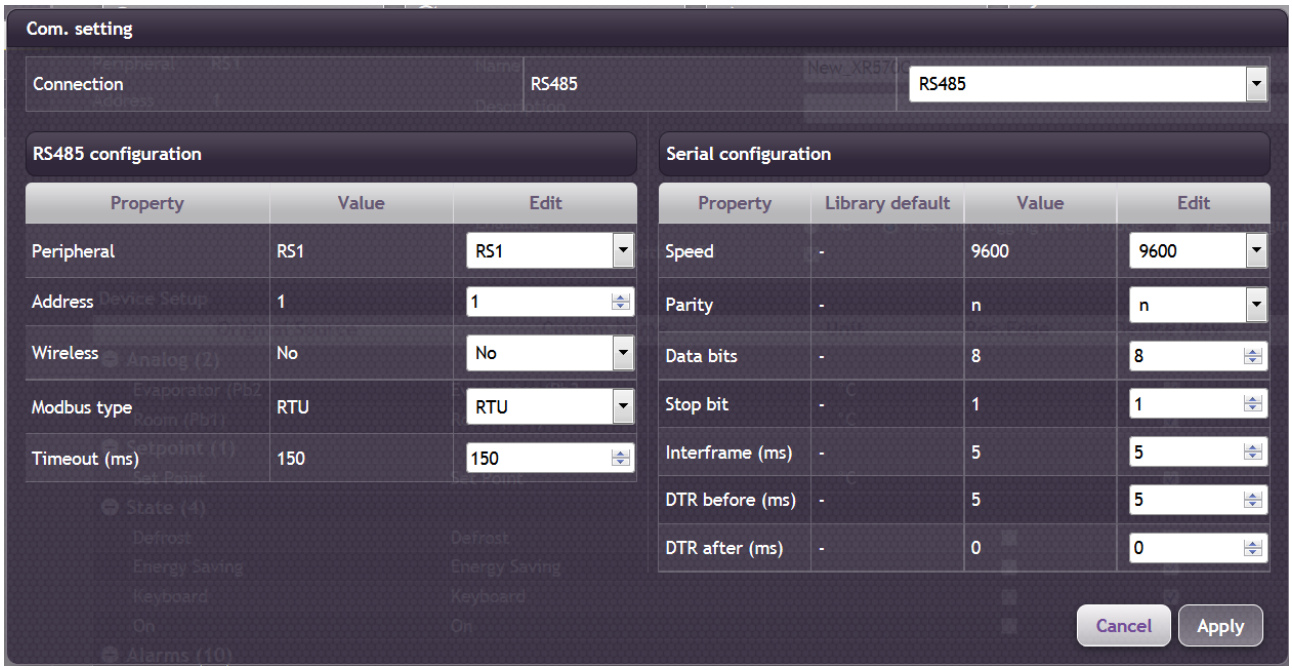
Export template



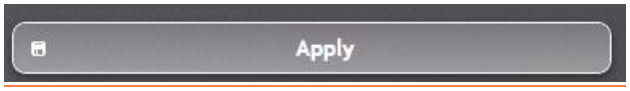
Com. Settings

Allows the user (by default only for admin) can change on the fly the Modbus address configuration of the Modbus network tools. The Modbus address change by this function keeps the historical data for the instrument. The function does not impact the cfg Modbus address in the instrument.

The same window allows you to customize the serial configruazione for Modbus address so that XWEB can be adapted to the serial configuration of third-party tools whose configuration is usually modified by instrument and / or has not been specified in development of the library.

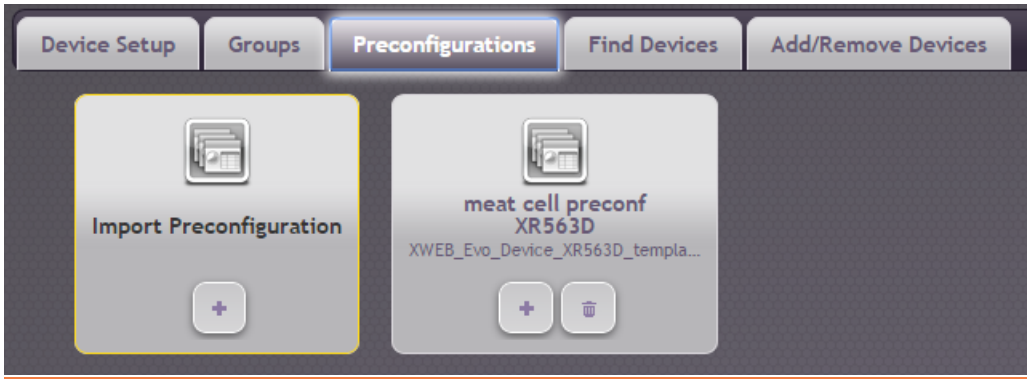


Apply configuration

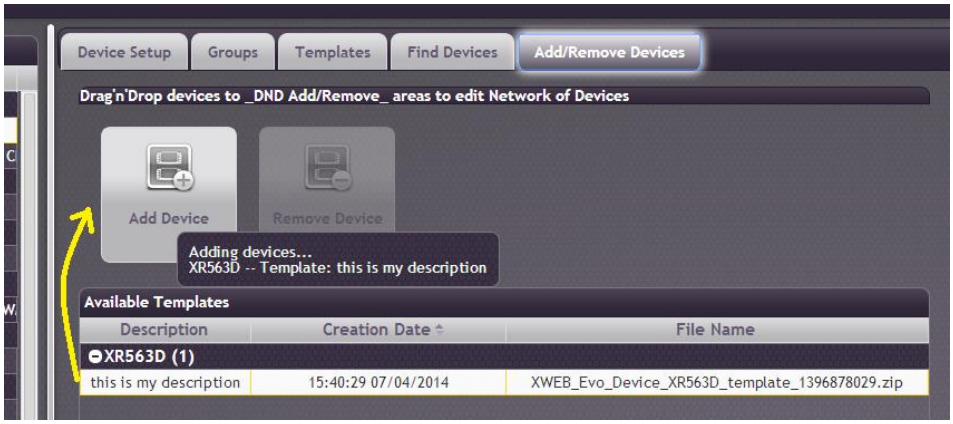


The Apply key is used to apply any changes to the configuration made on the Web-Browser to the XWEB-EVO system. We recommend applying the configuration to even the smallest of modifications.

E. DEVICE TEMPLATE CONFIGURATION



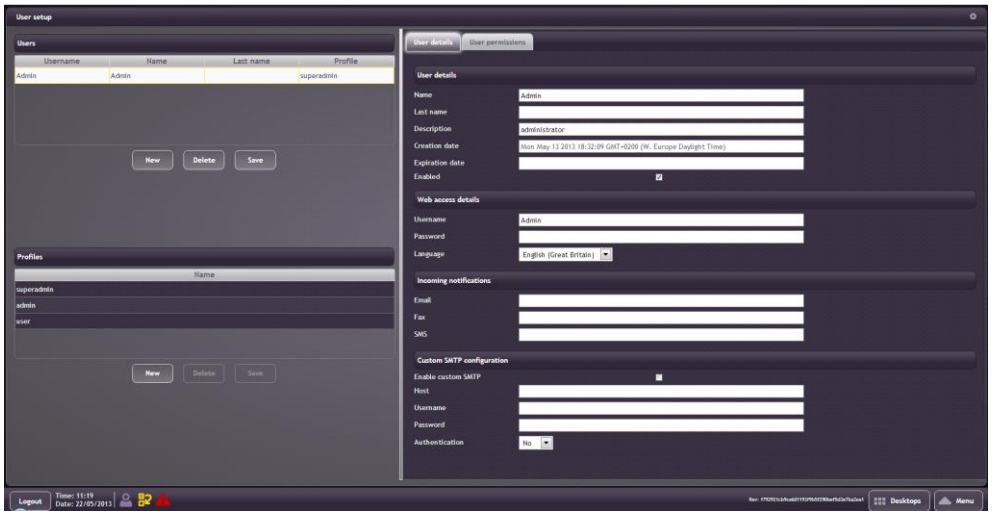
The configuration of a device can be imported into the Template gallery. These devices can then be setup using the “Add/Remove Devices” section as demonstrated in the image below



3.4.5 USER/BOOK CONFIGURATION

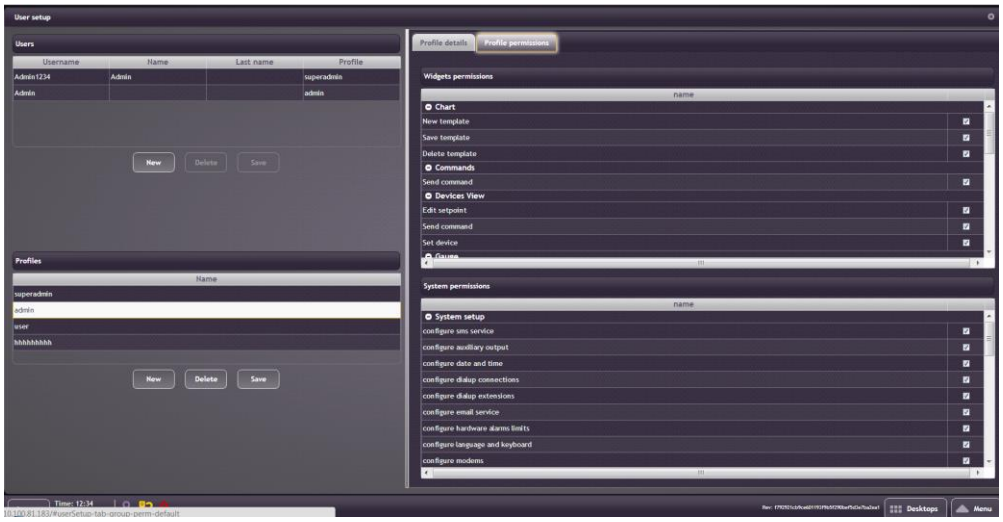
The user configuration page allows for the configuring of the XWEB-EVO book. This book is unified in the system for all operations involving external users. Users are intended, for example, as those who have access to the web interface; users can also be those receiving alarm notifications.
Upon the system commissioning, there will be a single user configured and enabled: Admin. For which full access to the Web interface in English is guaranteed. The user belongs to the "superadmin" profile.
The user with right to access this page can:

- Display/modify the access rights of users



Clicking on the user list updates the section on the right-hand side of the screen with the "User Details" and "User Permissions". To apply the changes to these system sections, press "Save" on the "Users" section. To delete users, select the desired user and press "Delete". Attention: it is not possible to delete the ‘superadmin’ profile user; Attention; the user permissions may differ from those set on the profile indicated for the same user: the profile name is that of default which was used to create the user.

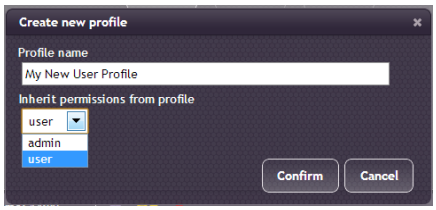
- Display/modify the profile rights



Clicking on the profile list updates the section on the right-hand side of the screen. By accessing the "Profile Permissions" section, it is possible to browse and/or modify the profile attributes. for any modifications to be applied to the system, they must be confirmed by pressing "Save" in the profile list.

- Create/Delete profiles

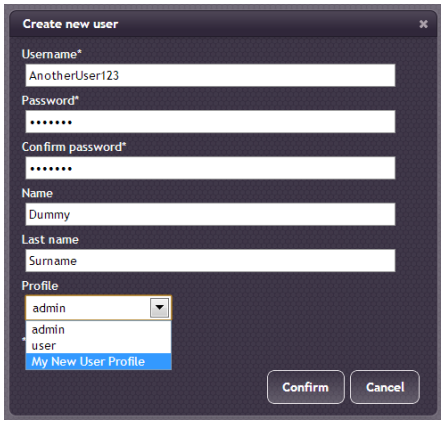
Click on "New" in the profile section to add a profile.



Name the profile and select the starting profile: the new profile will have the same access rights as those of the starting profile.
To delete a profile from the system, select it and press "Delete" in the profile area. Attention: the superadmin/admin/user profiles cannot be deleted.

- Create/Delete users

Click on "New" in the user section to add a new user.



Complete the compulsory data and press "Confirm". Each user is created with the selected profile permissions. The username/password parameters are for web access. Name and Last name are the terms with which the user will be indicated in the book.

- Desktop and user/profile permission parameters

The user permissions enable him/her to perform a number of operations.

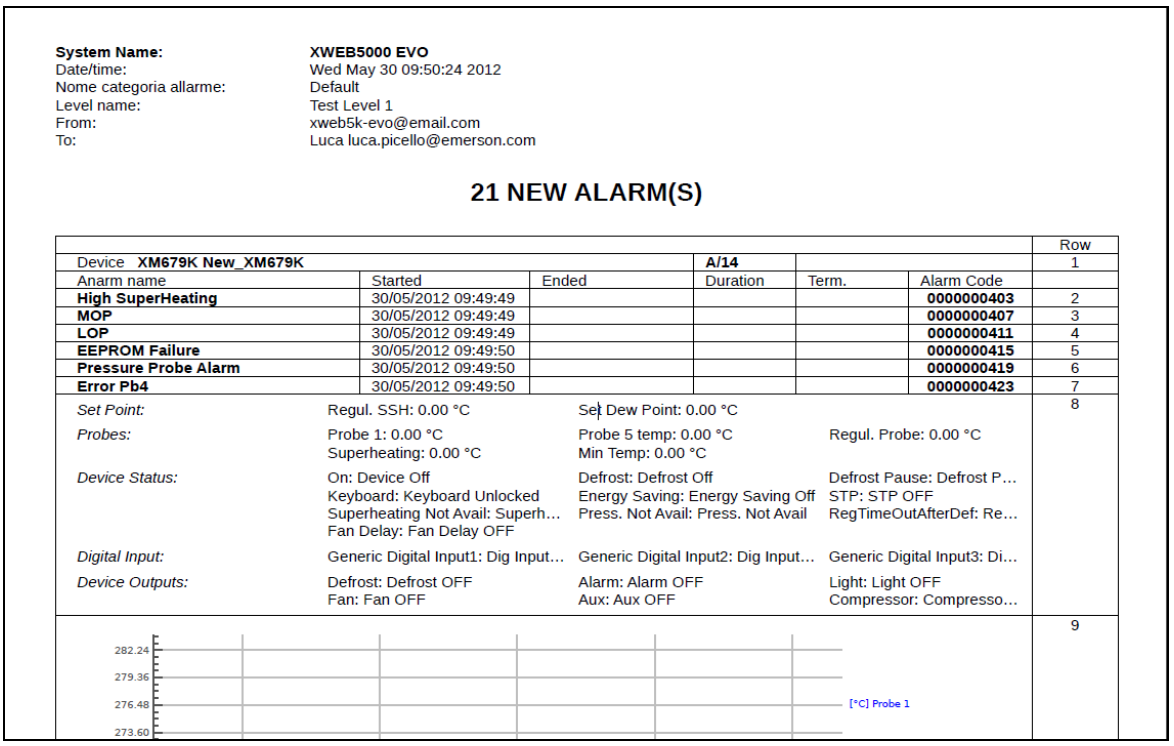
Access to the desktops is configured in the Desktop section and the main desktop that is accessed immediately after login is set.

3.4.6 ALARM CONFIGURATION

The alarm configuration is accessed from the MENU→XWEB SYSTEM SETUP→Alarms Management. Access to the page allows for the customisation of the alarm categories and notification parameters: The XWEB-EVO uses this information to detect the alarms from the controllers and notify their status to the users in the book.

- Principles of operation

The XWEB-EVO detects the present controller alarms in an alarm-category. Once the device alarm has been detected, the system confirms this after a certain period of time (see Delay parameter, "alarm category parameters"). Upon alarm confirmation, the first level users are also notified. If the alarm persists, other notifications may be sent to the same recipients (see re-send time, "alarm level parameters"). If the alarm persists beyond the maximum time permitted to the level (see re-send life time, level parameters), the level shifts, sending the subsequent notifications to the recipients of the subsequent level. The alarm recovery is also normally notified: there are many parameters that can be used to customise notifications according to your requirements; these will be individually described in the following pages.



System Name: **XWEB5000 EVO**
Date/time: Wed May 30 09:50:24 2012
Nome categoria allarme: Default
Level name: Test Level 1
From: xweb5k-evo@email.com
To: Luca luca.picello@emerson.com

21 NEW ALARM(S)

						Row
Device **XM679K New_XM679K**			**A/14**			1
Anarm name	Started	Ended	Duration	Term.	Alarm Code	
High SuperHeating	30/05/2012 09:49:49				**0000000403**	2
MOP	30/05/2012 09:49:49				**0000000407**	3
LOP	30/05/2012 09:49:49				**0000000411**	4
EEPROM Failure	30/05/2012 09:49:50				**0000000415**	5
Pressure Probe Alarm	30/05/2012 09:49:50				**0000000419**	6
Error Pb4	30/05/2012 09:49:50				**0000000423**	7

				8
Set Point:	Regul. SSH: 0.00 °C	Set Dew Point: 0.00 °C		
Probes:	Probe 1: 0.00 °C Superheating: 0.00 °C	Probe 5 temp: 0.00 °C Min Temp: 0.00 °C	Regul. Probe: 0.00 °C	
Device Status:	On: Device Off Keyboard: Keyboard Unlocked Superheating Not Avail: Superh… Fan Delay: Fan Delay OFF	Defrost: Defrost Off Energy Saving: Energy Saving Off Press. Not Avail: Press. Not Avail	Defrost Pause: Defrost P… STP: STP OFF RegTimeOutAfterDef: Re…	
Digital Input:	Generic Digital Input1: Dig Input…	Generic Digital Input2: Dig Input…	Generic Digital Input3: Di…	
Device Outputs:	Defrost: Defrost OFF Fan: Fan OFF	Alarm: Alarm OFF Aux: Aux OFF	Light: Light OFF Compressor: Compresso…	

9

Above, an example of alarm notification with a PDF file, included as an attachment in the new alarm notification mail.

- List of controllers

The list of configured controllers is always present on the left-hand side of the screen. Clicking on the lens - as demonstrated below - selects the "Category Settings" tab which displays the list of all variables configured as alarms.

Showing Associated Variables for Device: **RS1-100 New_XW760L** Show All Variables

Variable Name	Addr	Device	Model	Category
Cooling	RS1-100	RS1-100 New_XW760L	XW760L	Default
EEPROM Failure	RS1-100	RS1-100 New_XW760L	XW760L	None
Error Pb1	RS1-100	RS1-100 New_XW760L	XW760L	Default
Error Pb2	RS1-100	RS1-100 New_XW760L	XW760L	None
Error Pb3	RS1-100	RS1-100 New_XW760L	XW760L	None
High Value Pb1	RS1-100	RS1-100 New_XW760L	XW760L	Default
Low Value Pb1	RS1-100	RS1-100 New_XW760L	XW760L	None
NoLink	RS1-100	RS1-100 New_XW760L	XW760L	Default
Open Door	RS1-100	RS1-100 New_XW760L	XW760L	Default
RTC Failure	RS1-100	RS1-100 New_XW760L	XW760L	Default

The buttons are also present on the left-hand side of the window.

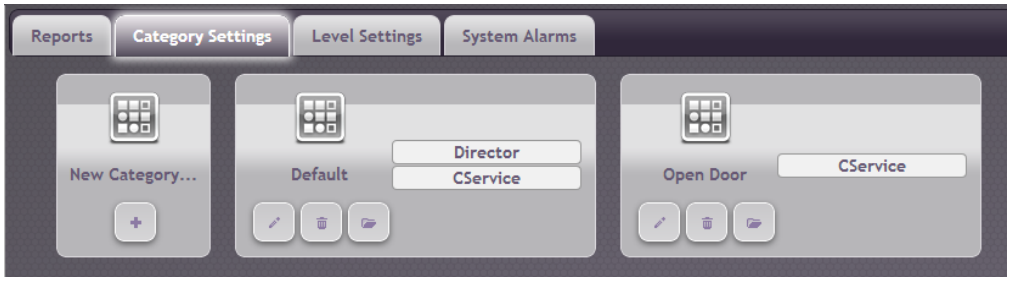
1. “Clone Alarm Settings” for copying between instruments of the same alarm-category settings.
2. “Save Configuration” to apply any modifications. **Attention**: the save operation must be performed each time the tab is changed otherwise any modifications will be lost.

On the right-hand side of the window are three different tabs identifying the below described configuration parameters.

- Alarm-Category Parameters Tab

The Alarm-Categories is a list of types of alarm, with the purpose of grouping the alarms that must be dealt with in the same manner, from a point of view concerning alarm detection and their notification.

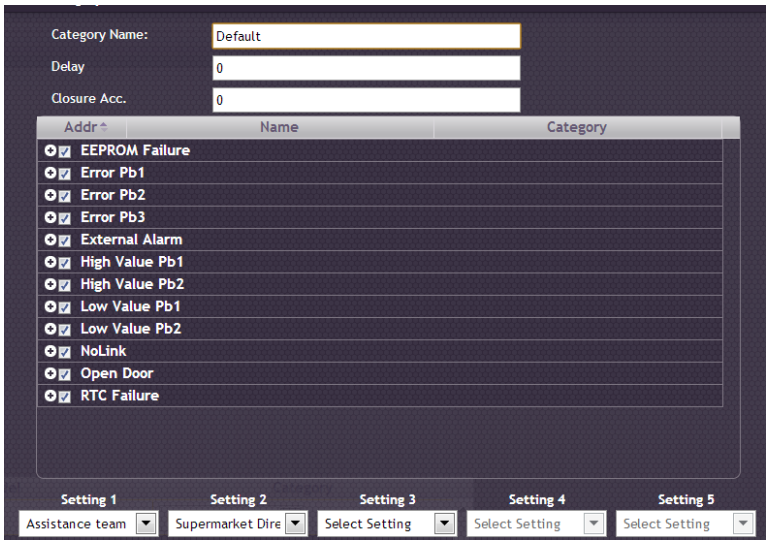
For example, it is possible to create a category named "Temperature Alarms" or "Pressure Alarms"; and associate all alarms of this type with the above-mentioned alarm-categories.



Access the tab in order to scroll down the list of configured alarm-categories. Each alarm-category displays a list of notification levels (as demonstrated above).

- press "+" to add a new category.
- modify the category by pressing 
- eliminate the category by pressing 
- to display the configured alarms for the category, press 

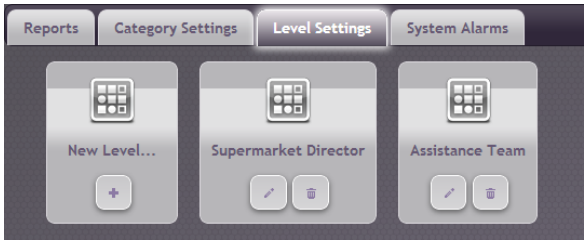
Category parameters:



- **Name**: identifies the category itself;
- **Delay**: stand-by time for the processing of the alarm, from when it is read by the controller network to when it is effectively considered an alarm: if the alarm is resolved before this time runs out, the source of the alarm is ignored. This parameter is useful for the delayed management of the "open door" status which comes from an I/O board: the variable is not an alarm but with the XWEB-EVO it can be used as if it were.
- **Accumulation time to alarm reset**: the system sends notification when the alarm is reset. However, the system waits for the resetting of other alarms for the period indicated in this parameter, before sending a cumulative notification. This therefore reduces the notification line's task; relieving it of any critical conditions such as is the case when the line is slow (e.g. fax line). This parameter works similarly to the "Accumulation" time present amongst the "alarm notification parameters": However, in the case of the alarm-categories, the time is divided between all of the "Alarm Level Settings";
- **Alarm-Level Settings**: notification level. The order is important: the first level to be notified (entry level) is that with the lowest number (“Setting 1”). The up-scaling of the notification level occurs based on the parameters set in "Settings".
- **Alarm types, quick configuration (optional)**: list of all types of alarms recognisable in the configured devices. The sole selection of the types does not change the alarm-category configuration. But on the contrary, prepares the category for the receipt of these alarms the next time the User assigns a device to the same category. Example: having configured the category with a "High Temperature" alarm, drag a list of controllers and drop into the same category: this assigns the "High Temperature" alarm for all devices in the list for the category.

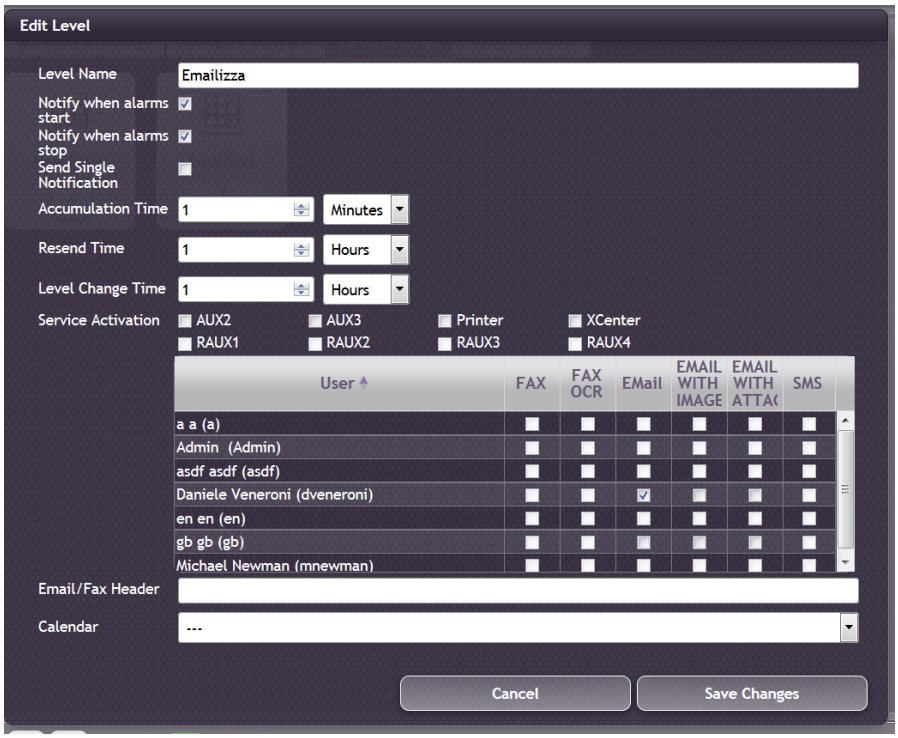
- Level Parameter Tab

The alarm notification parameters identify the notification levels. Each level includes the users who receive the alarm notifications.

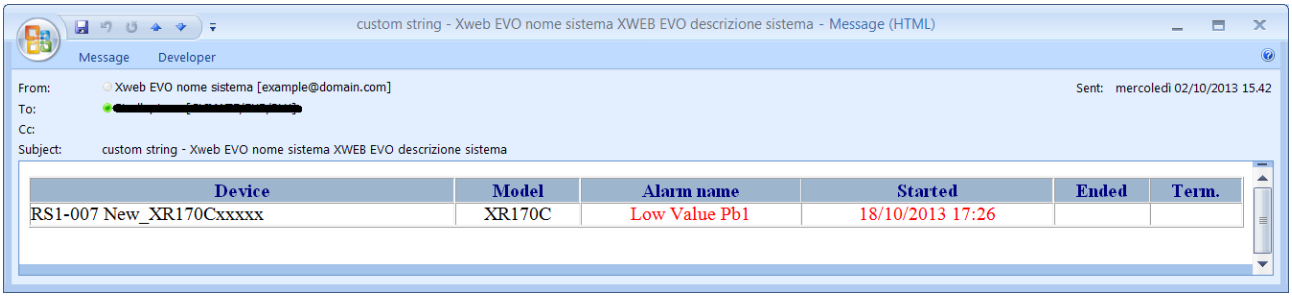


- press "+" to add a new level
- to modify the level parameters press 
- to eliminate the level press 

Some parameters must be set for each "Setting":



- **Setting Name**: identifies the notification level
- {166Notify on Start167}: enabled for the sending of new alarm notifications
- **Notify on End**: enabled for the sending of alarm-over notifications
- **Send Single Notification**: the enabling of this parameter invalidates the accumulation time. If the system detects two alarms simultaneously, the users will receive two separate notifications.
- **Accumulation Time**: the time during which the system awaits the detection of new alarms for the sending of a cumulative notification
- **Re-send Time**: interval between notifications of persisting alarms. For example, if a new alarm message is sent but ignored or lost, the system notifies the same message again after the indicated time. This parameter is critical to "level" climb logic: if this parameter value is 0 after the first notification, the level is scaled upwards
- **Resend TTL**: maximum time within which the continuously active alarm is notified of the current level rules. After this time, the level is up-scaled to the next level indicated in the alarm-category.
- **Service Activation**:
    1. AUX2/AUX3: the alarm notification occurs by means of the local relay, physically present on rear of the XWEB-EVO machine. The configuration parameters of this relay are available on page “Menu→XWEB SYSTEM SETUP→System Setup→AUX Outputs”. Warning: the 500D / 500 models the AUX2 / AUX3 entries are identified by the AUX1 and AUX2 names. For XWEB300D the relay system is named SYSAUX
    2. RAUX1/ RAUX2/ RAUX3/RAUX4: the alarm notification occurs by means of the remote relay physically present on an XJR40D controller connected to the Modbus network. The relay parameters of this controller are available on page “Menu→XWEB SYSTEM SETUP→System Setup→AUX Outputs”
    3. PRINTER: the alarm notification occurs by means of the local printer physically connected/configured to the XWEB-EVO. The configuration parameters of this printer are available on page “Menu→XWEB SYSTEM SETUP→System Setup→Printers”
    4. XCENTER: the alarm notification is sent to the Dixell XCenter system. Configure the system by accessing the page “Menu→XWEB SYSTEM SETUP→System Setup→XCenter”
    5. FAX (ONLY FOR XWEB3000/5000): the alarm notification is performed through means of a fax message being sent over the telephone line

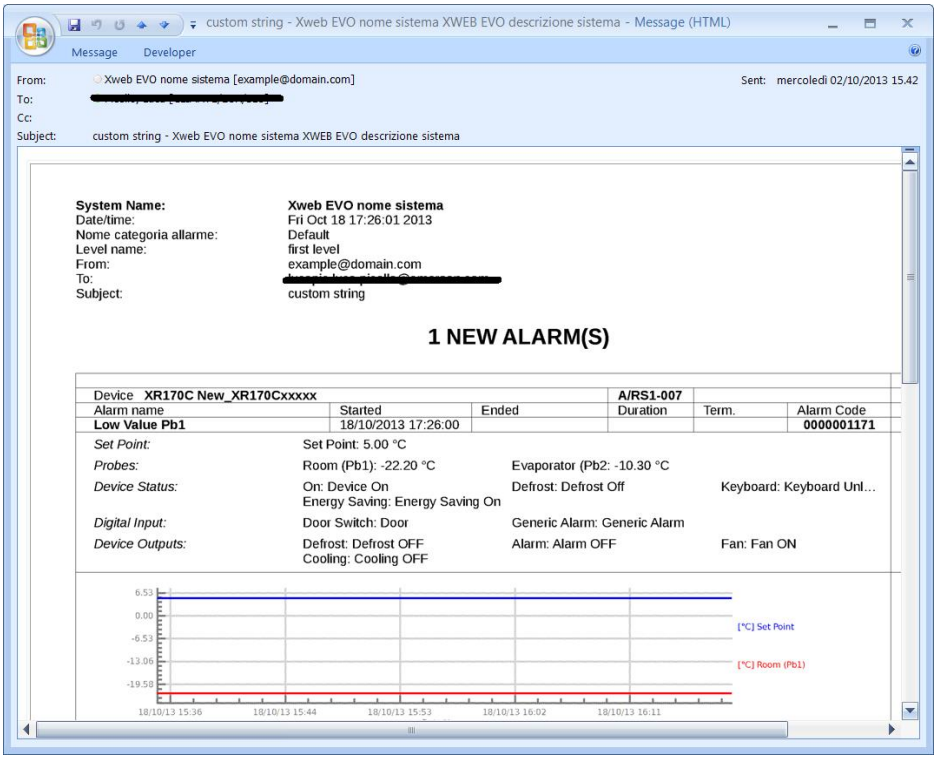


6. FAX OCR (ONLY FOR XWEB3000/5000): the alarm notification is performed by means of a fax message being sent over the telephone line in a fixed-width font format and therefore automatically segmented
7. EMAIL: the alarm notification is performed by means of an email message being sent as demonstrated below

   The HTML part is the format rendered by the browser. The text is better suited to automatic parser and is as follows.

```
Content-Type: text/plain; charset="UTF-8"
Content-Transfer-Encoding: 8bit

Alarm Report: XWEBEVO Xweb EVO system name|XWEB EVO system description
START|18/10/2013 17:26|RS1-007 New_XR170Cxxxxx|Low Value Pb1
```

   The text is common to all other email formats.
8. EMAIL IMG: the alarm notification is performed by means of the sending of a message, in which the body constitutes an image. The format is as follows:



9. EMAIL ATT: the alarm notification is performed by means of the sending of an email message with a PDF file attached and containing the same information as the EMAIL IMG.
10. SMS: the alarm notification is performed by means of the sending of an SMS message.

- **Email/Fax header**: customised text entered in the subject field of emails and faxes.

- **Calendar**: filter calendar on alarm notifications; the calendar identifies the period during which the notification messages will not be issued 

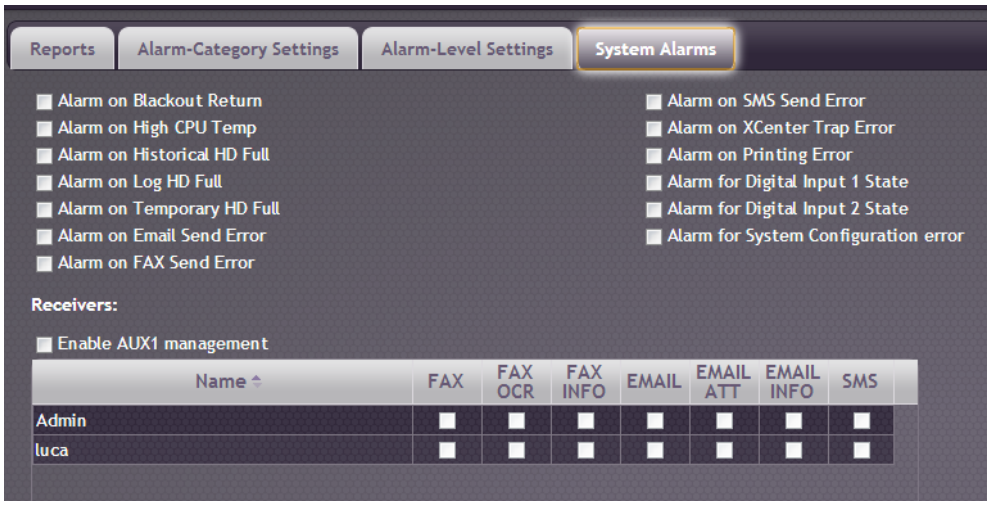
. The calendars are set on the system with 

present in TOOLS.

All email formats can be analysed by automatic robots examining the section "text/plain".
Below is an example of an alarm email:

```
Thread-Topic: Alarm(s) Notification - Xweb EVO XWEB EVO
Content-Type: multipart/alternative; boundary="----_=_NextPart_001_00dbe1c4.5236b

This is a multi-part message in MIME format.

------_=_NextPart_001_00dbe1c4.5236b6ac
Content-Type: text/plain

Report Allarmi: XWEBEVO Xweb EVO|XWEB EVO START|13/09/2013 17:34|RS1-040
New_XC1008D|No-Link
Device     Model Alarm name Started    Ended Term.
RS1-040 New_XC1008D   XC1008D    No-Link    13/09/2013 17:34


------_=_NextPart_001_00dbe1c4.5236b6ac
Content-Type: text/html

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN" "http://www.w3.org/TR/xhtml11/D
```

- Tab System Alarms



Enable system alarms that must be managed by the system, with notification i.e. via email.
The messages sent by the system are of the same type as those managed by "system messages"
By selecting “Email” + “EMAIL INFO” for the sending, you select the extended email format demonstrated in the image below. The email in the mail client appears as (Outlook 2007):

The same email in text format can be segmented and the most significant information highlighted in yellow:

```
Date: Tue, 1 Oct 2013 15:38:58 +0000
To: <xyz>
From: Xweb EVO system name <example@domain.com>
Subject: Caution: Cpu HT / Stp
MIME-Version: 1.0
Content-Type: multipart/alternative; boundary="---------EVO40DFF36D5A44ECBC"
Return-Path: example@domain.com
X-OriginalArrivalTime: 01 Oct 2013 15:38:57.0073 (UTC) FILETIME=[5774E210:01CEBEBC]

----------EVO40DFF36D5A44ECBC
Content-Type: text/plain; charset="utf8"
Content-Transfer-Encoding: 8bit

IP:10.100.81.208
GATEWAY:10.100.81.1
EXTERNAL-IP:10.100.81.208
DNS1:10.100.80.20
DNS2:

----------EVO40DFF36D5A44ECBC
```

Diminutives errors, of subject

Acq OFF	The acquisitions are stopped.
Cpu HT	High temperature of CPU
Ist LS	History disc space almost exhausted
Log LS	Log disc space almost exhausted
Tmp LS	Temporary disc space almost exhausted.
Eml	Email sending errors
Fax	Fax sending errors
Sms	SMS sending errors
Prn	Print errors
Trap	Trap to xcenter sending errors
Di1	Error from digital input 1
Di2	Error from digital input 2
BlackOut	Return from blackout error
Stp	Evo configuration error.

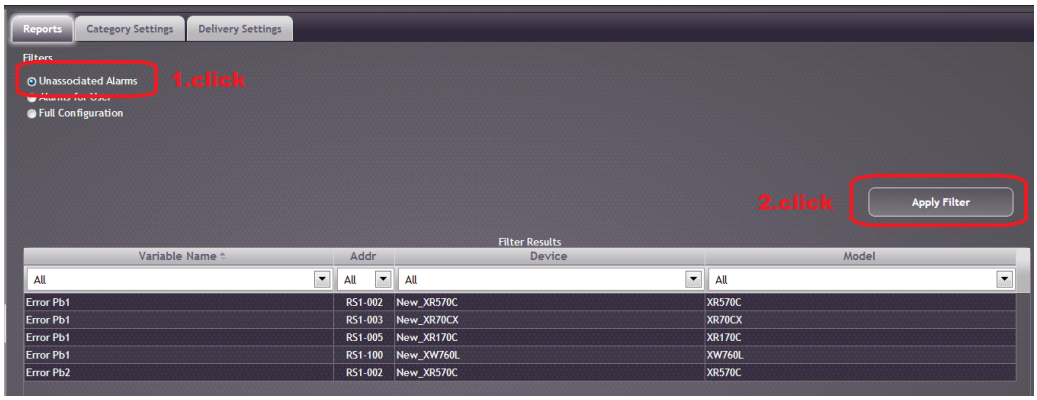
Other information

```
IP:              => IP address.
GATEWAY:         => Network gateway address.
EXTERNAL-IP:     => (coincides with EVO IP)
DNS1:            => First dns
DNS2:            => Second dns
```

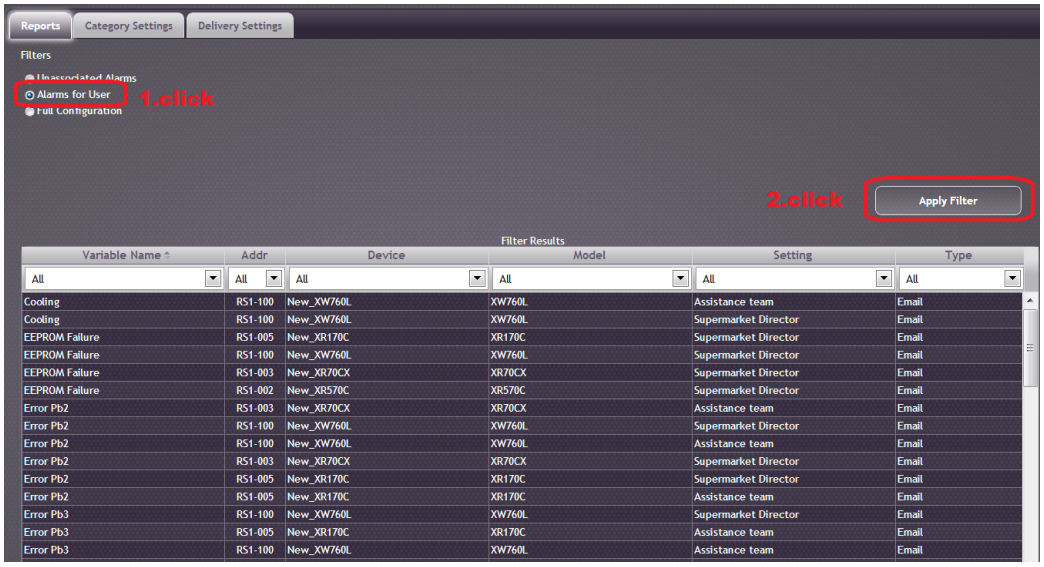
- Tab Reports

This window enables the User to verify the alarm configuration from certain reports. Select the filter identifying the report and press "Apply Filter".

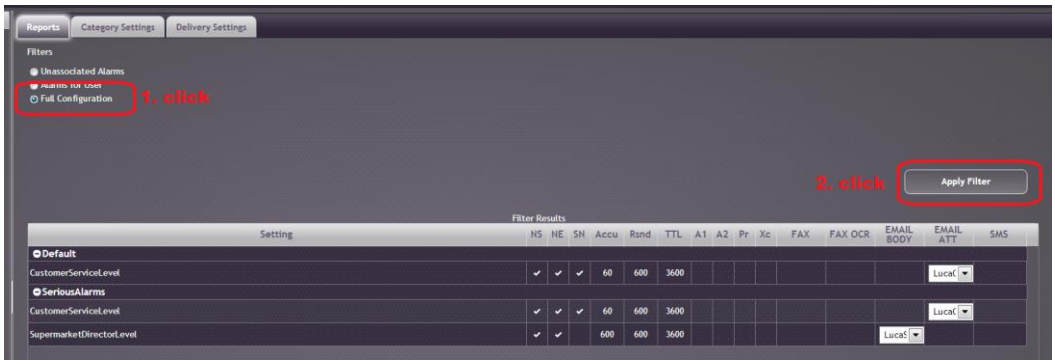
- Device alarm list, not associated with any alarm-categories



- List of alarms for User



- Full configuration



3.4.7 STOP/START ACQUISITION

The XWEB-EVO principally identifies two mutually exclusive statuses:

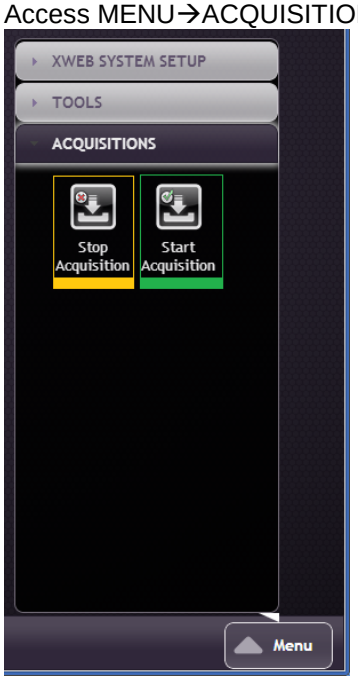
1. Acquisitions stopped. This status allows for the configuration of the basic machine parameters. For example, it provides the user with the necessary access to configure parameters relative to the system or to the controller network configuration. This status does not allow for monitoring or supervision. Therefore, the controller alarms cannot be detected and notified.
2. Acquisitions active. This status enables the configured machine to establish constant communication with the instrument network and, consequently, allows for monitoring and supervision. Attention: this status must be enabled at the end of the machine's configuration by the installer.

The status of the acquisitions is displayed on the navigation bar, so it can be identified by the user on each XWEB-EVO page.

Acquisitions active: 

Acquisitions inactive: 

Access MENU→ACQUISITIONS→**Start Acquisition** to start the acquisitions



Access MENU→ACQUISITIONS →**Stop Acquisition** to stop the acquisitions.

Acquisitions may automatically start after maintenance, based on the configuration in MENU→SYSTEM SETUP→ACQUISITIONS.

3.4.8 SYSTEM VERSION/UPDATE

 Access the menu “XWEB System Setup→System Update” to access the update control panel. This window displays all updates already applied, and it is possible to check if there are further updates present. Depending on the system configuration, there will be three keys for installing new updates:

- Repository. For remote installation via internet connection. As configured in section “XWEB System Setup→System Setup→Updates”.
- Usb. For local patch installation via USB key.
- Upload. For remote installation with uploading of update file from web-browser

3.4.9 REBOOT

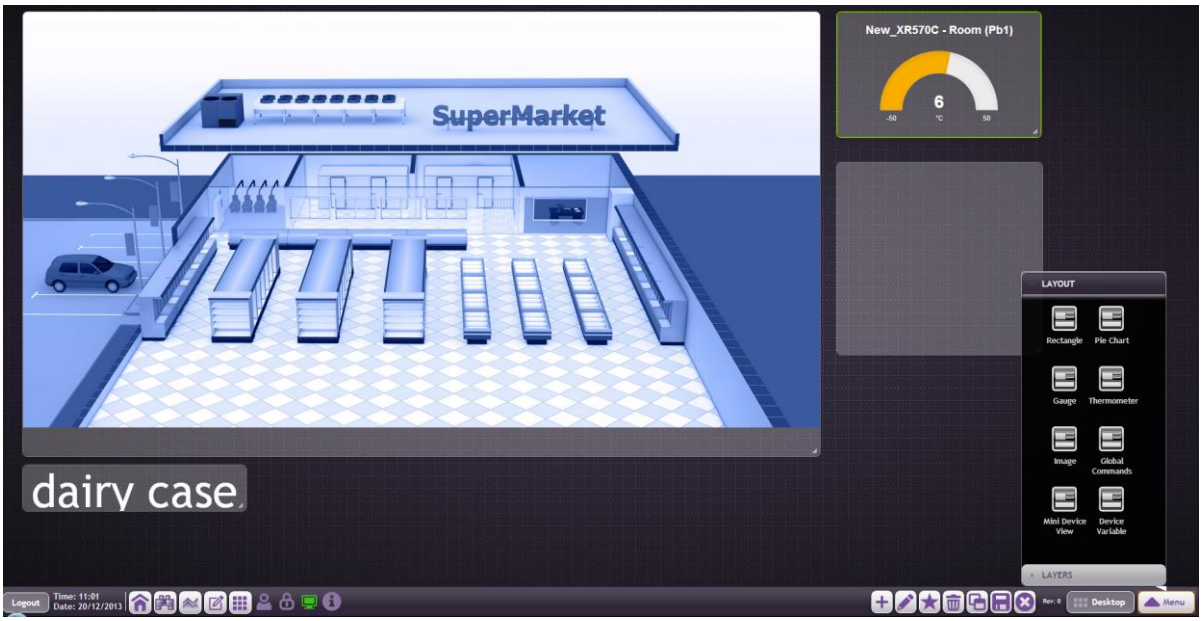
 Access the menu “XWEB System Setup→Reboot” to reboot the machine software. Rebooting is useful to qualified personnel only, such as the customer support team.

3.4.10 SHUTDOWN

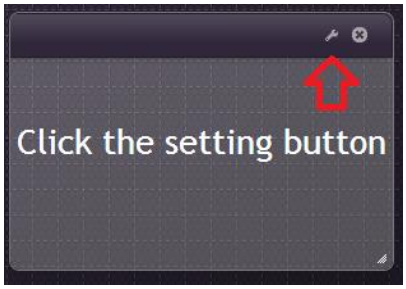
 Access the menu “XWEB System Setup→Shutdown” for machine shutdown. Shut down is useful to qualified personnel only. **!!Attention!!** This operation is not reversible, so when the machine has been switched off, it will not switch on again until the machine is powered or the switch-on button is pressed. We recommend disabling this operation for users accessing the system remotely. Rebooting is useful to qualified personnel only, such as the customer support team.

3.4.11 LAYOUT SETUP MODE (ONLY FOR MODELS 500D/500 AND 3000/5000)

Access the menu “XWEB System Setup→Layout Setup Mode” to create customised desktops with graphic widgets made available by the system.



The user populates the desktop with widgets via drag’n’drop from the palette accessed by pressing "Menu". The procedure requires the user to hold down the left key of the mouse over the desired widget, i.e. "image", and to then drag it onto the work area for positioning.
Once the widget is in place, proceed with dimensioning and configuration. The latter must always be performed by pressing the "wrench" key.

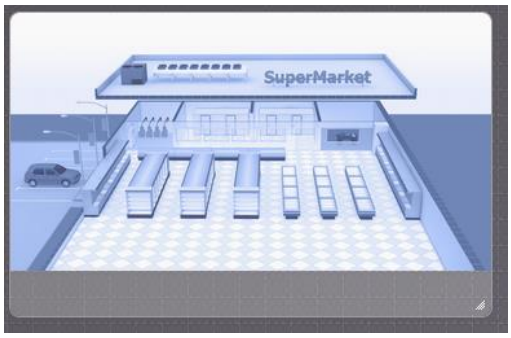


The page - different for each type of widget - which defines the subject parameters, opens when the wrench key is pressed.

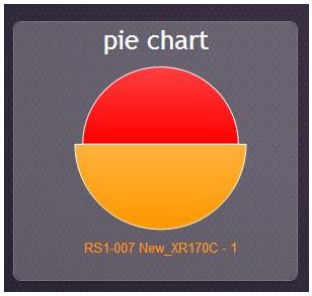
The supported widgets are:

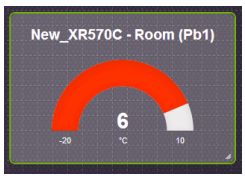
- Rectangle

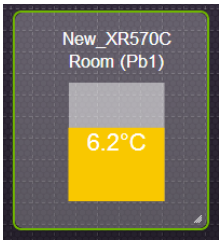
- Image



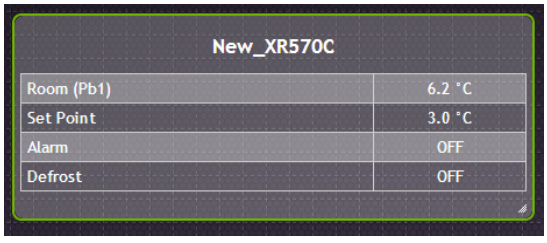
- Pie chart

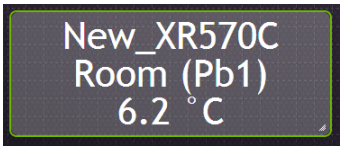


- Gauge 

- Thermometer 

- Global Commands 

- Mini Device View 

- Device Variable 

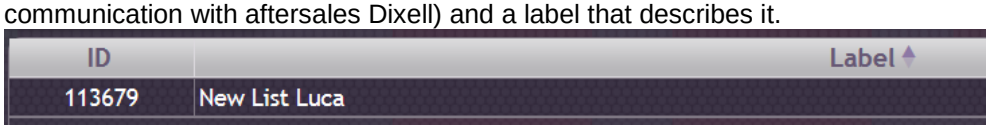
- Digital Input

3.4.12 LISTS MANAGER


With this tool you can manage global lists for a rapid and efficient system configuration. To list literally means a list of variables and / or commands to be used in the various sections of the XWEB software. For example, a command list can be used in the scheduler directly setting the time of sending the command themselves.

Clicking on the icon of "lists manager" the following window opens

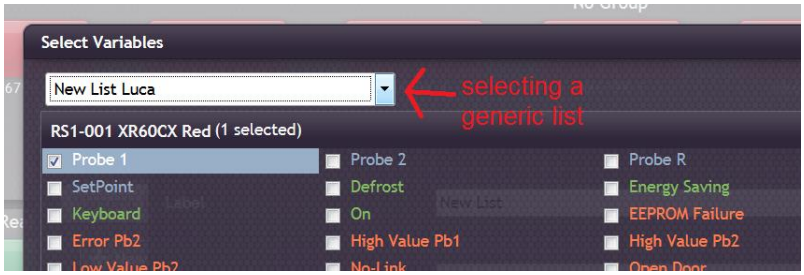
Each list shown is identified by an ID (unique number of the list used to identify it in case of telephone communication with aftersales Dixell) and a label that describes it.



Clicking the name of the list opens the window below that allows you to edit the details. Each of the detail window is specified in the rows below according to the type list.

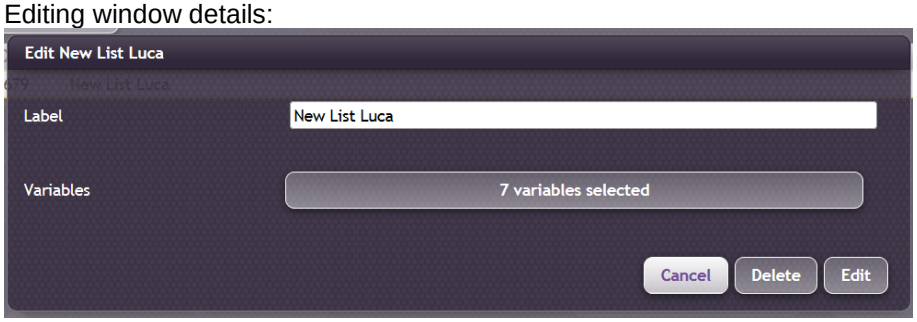
3.4.12.1 GENERIC LISTS

The generic lists are lists of the base usable for the creation of other HACCP and CHARTS lists.



The screenshot above shows the use of a generic list in the creation of HACCP list window.

Editing window details:



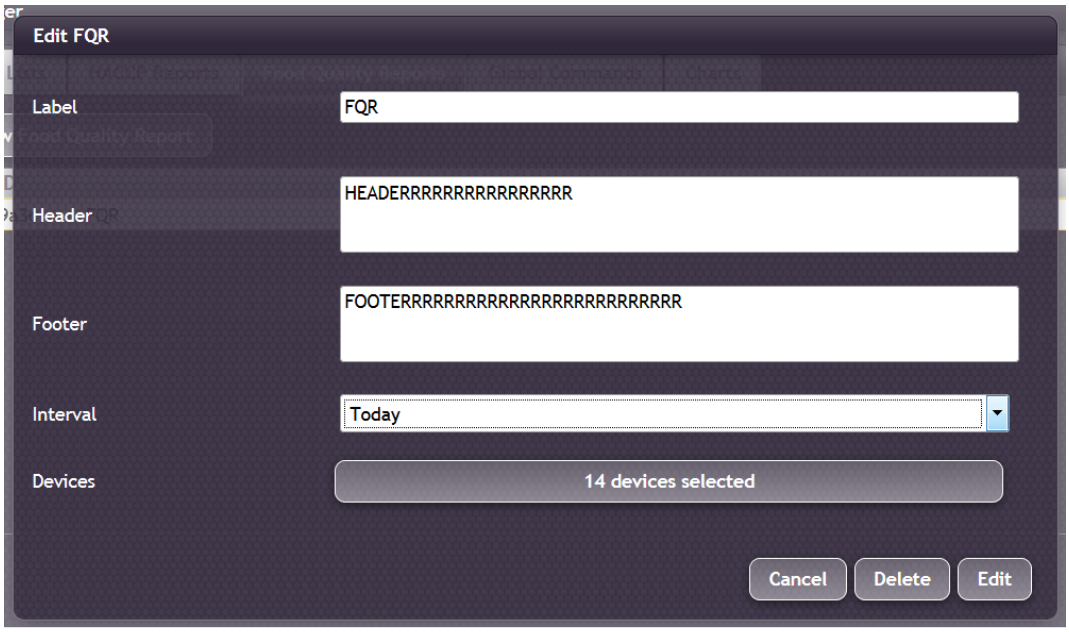
Here you can select only variables (no commands).

The tag selection dialog is also common in HACCP lists. Note that the user for selection of variables can make use of the 'full text' filter (1.) and shortcuts to uncheck all / select all / clone (2). The variables are presented to the user with different colors that identify the different types; in particular: Blue = Analog / setpoint; Green = status; Orange = alarm; White = digital inputs and outputs

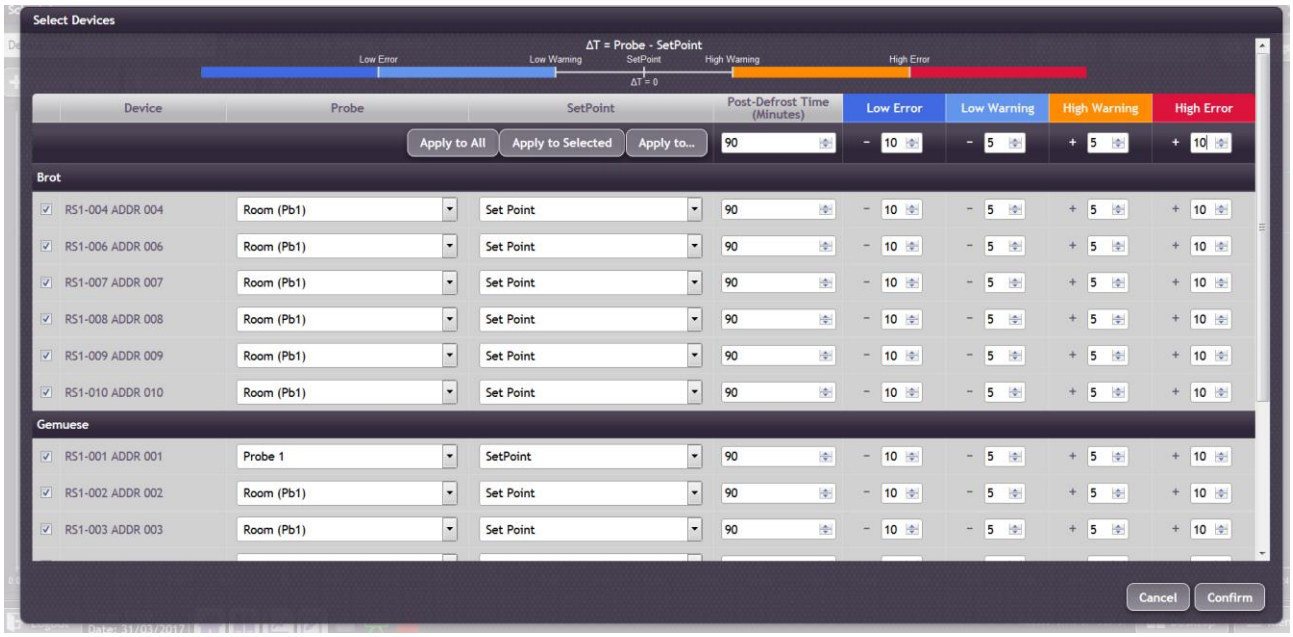
3.4.12.2 FOOD QUALITY REPORTS

The FQR list can be used with the HACCP PRINT button on the "Overview" desktop and / or by SCHEDULER as a "Printing Event".
The definition of a list for the Food Quality Report includes:

a. Header: text that appears at the top of the report
b. Footer. Text that appears at the bottom of the report
c. Interval. You can select "Today / Yesterday"
d. Temperature variable list.



Each temperature variable is accompanied by parameters of
- Setpoint
- Post-Defrost Time
- Low Error (as offset applied to setpoint value)
- Low Warning (as offset applied to setpoint value)
- High Warning (as offset applied to setpoint value)
- High Error (as offset applied to setpoint value)



The resulting FQR report will have the following format:

Food Quality Report - [redacted]
Date: 27-04-2017

Cold Error
Cold Warning
Hot Warning
Hot Error

--- Completely missing data
12.3 Partially missing data (AcqOff, DeviceOff, NoLink)
Defrost + Post Defrost

Food quality report - [redacted] - Yesterday

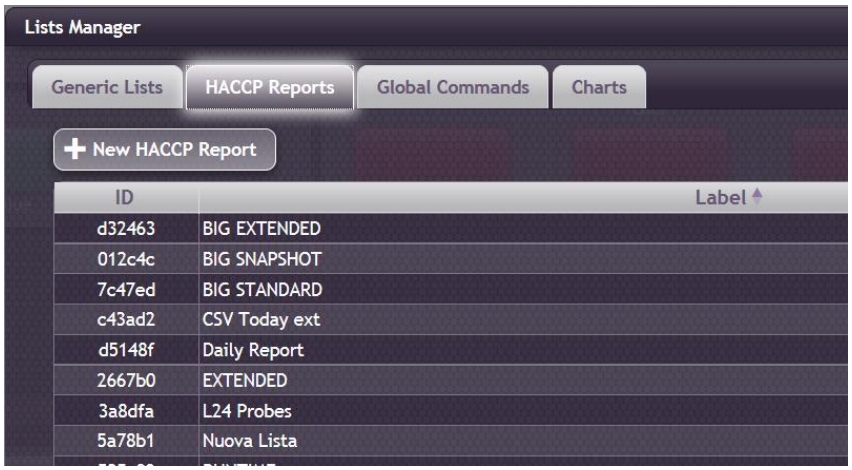
Adr.	Name	Uom	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Max	Min
ZONE LT																												
RS1-041	Frozen Food 1	°C	-24	-24	-25	-24	-24	-24	-24	-24	-24	-23	-23	-23	-23	-23	-24	-24	-24	-24	-23	-23	-23	❄	❄	-23	00:00 -20.8	06:10 -27.7
RS1-042	Frozen Food 2	°C	-24	-24	-26	-25	-25	-25	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	❄	-16	-24	22:30 -15.2	03:45 -28.0
RS1-043	Frozen Food 3	°C	-24	-24	-26	-24	-24	-24	-23	-24	-24	-24	-23	-23	-23	-23	-24	-24	-24	-24	-23	-23	-23	❄	-24	-24	22:30 -18.2	03:45 -28.0
ZONE NT																												
RS1-010	Milk 1	°C	-0.0	-0.9	1.4	0.4	0.9	0.6	❄	❄	0.5	0.1	0.1	-0.1	0.3	0.1	❄	❄	-0.1	-0.1	0.2	0.1	0.2	0.6	❄	❄	08:00 4.0	01:10 -4.2
RS1-011	Milk 2	°C	1.2	1.2	1.1	1.9	1.9	1.1	❄	❄	0.6	0.1	0.6	0.2	1.0	0.6	❄	❄	0.8	0.8	0.6	0.5	0.5	1.0	❄	❄	08:25 4.0	22:05 -3.5
RS1-012	Milk 3	°C	-1.5	0.6	-0.3	-0.1	-0.6	❄	❄	-0.5	-0.4	-0.5	-0.3	-0.4	-0.2	❄	❄	-1.2	-0.5	-0.8	-0.6	-0.6	-0.4	❄	❄	-0.5	09:30 2.5	03:35 -4.5
RS1-013	Milk 4	°C	0.6	0.8	-0.5	0.7	0.8	❄	❄	0.5	0.7	0.4	0.4	0.3	0.7	❄	❄	0.6	0.6	0.6	0.3	0.4	0.6	❄	❄	0.4	14:20 13.1	04:10 -3.7
RS1-014	FVP	°C	❄	1.1	1.4	0.8	0.8	0.9	0.9	1.1	❄	1.5	1.1	1.1	1.0	1.0	1.0	1.1	❄	1.4	1.1	0.8	1.0	1.4	0.7	1.0	09:30 3.6	04:05 -2.0
RS1-015	Salat	°C	3.0	2.7	1.1	2.5	2.8	2.4	3.0	❄	2.8	3.0	2.5	2.8	2.7	3.1	2.8	❄	2.9	3.0	2.7	3.0	3.1	2.5	3.0	❄	08:55 6.2	05:30 -0.3
RS1-016	Pastry	°C	3.5	3.2	3.1	3.2	3.5	3.1	3.9	❄	3.4	3.1	3.7	3.2	2.8	3.5	3.4	❄	3.0	3.6	2.5	3.0	3.7	3.6	3.3	❄	00:40 5.4	00:00 0.6
RS1-017	Gastronomy 1	°C	5.0	5.0	3.5	5.0	5.0	5.0	❄	4.6	4.8	4.9	4.9	4.7	4.7	4.7	❄	4.7	4.7	4.7	4.8	5.0	4.9	4.9	❄	4.8	00:00 6.9	07:35 2.5
RS1-018	Gastronomy 2	°C	2.8	3.0	1.1	3.4	3.3	3.2	❄	1.3	1.7	1.8	1.5	1.2	1.1	1.1	❄	1.1	1.4	1.4	1.9	1.9	1.9	1.8	❄	2.2	03:45 5.7	12:35 -2.4
RS1-020	Take Away 1	°C	❄	0.7	-0.3	0.7	-0.5	-0.5	❄	❄	❄	0.0	-0.1	0.0	-0.3	-0.1	❄	❄	❄	0.1	-0.4	0.0	-0.3	0.1	❄	❄	11:50 2.2	00:00 -4.4
RS1-021	Take Away 2	°C	❄	-0.3	0.5	-0.0	-0.8	-0.2	❄	❄	❄	-0.4	-0.1	0.1	0.1	-0.3	❄	❄	❄	0.1	-0.1	-0.2	-0.1	-0.4	❄	❄	12:35 2.2	00:40 -4.4
RS1-024	Meat	°C	❄	1.0	0.6	0.8	1.2	1.2	1.1	❄	❄	1.5	1.5	1.4	1.6	1.4	1.2	❄	❄	1.7	1.4	1.6	1.6	1.2	1.1	❄	09:35 3.2	05:40 -1.0
RS1-025	Meat T. Away 1	°C	-1.2	-0.8	❄	❄	-1.1	-0.5	-1.5	-1.0	❄	❄	-1.5	-0.7	-1.3	-1.8	❄	❄	-1.1	-1.6	-1.8	-1.1	-1.2	❄	❄	-1.4	09:40 0.7	23:50 -6.2
RS1-026	Meat T. Away 2	°C	-3.0	-2.0	❄	❄	-2.5	-2.5	-1.4	-3.9	❄	0.5	-3.4	-1.3	-2.5	-1.1	❄	-0.9	-2.1	-1.9	-0.4	-3.3	-3.8	❄	❄	-2.3	09:40 0.2	00:00 -7.4
RS1-060	Meat 2	°C	❄	1.9	0.8	1.4	1.5	1.1	1.6	1.1	❄	1.5	1.4	1.4	1.4	1.7	1.5	1.1	❄	1.6	1.3	1.6	1.7	1.0	1.3	1.5	01:05 3.2	00:00 -0.7
CELLS																												
RS1-027	Fish Cell	°C	❄	1.0	❄	1.2	1.0	1.1	1.2	1.6	❄	❄	1.3	1.2	1.3	1.3	0.8	❄	❄	1.1	1.2	1.6	1.0	1.1	1.2	❄	07:45 5.6	17:20 -0.3
RS1-028	Vegetables Cell	°C	❄	❄	7.9	6.9	7.3	6.8	7.3	6.8	7.0	❄	❄	14	8.1	6.9	7.0	7.0	❄	❄	7.1	6.4	7.0	7.5	7.0	6.9	11:55 15.7	08:25 5.5
RS1-029	Poultry Cell	°C	0.6	0.1	-0.3	0.6	0.6	0.7	❄	1.5	1.1	1.2	1.6	1.5	0.9	❄	❄	0.3	0.8	1.0	1.3	1.0	1.0	❄	❄	0.6	06:20 11.1	00:45 -1.0
RS1-030	Meat Cell	°C	0.8	1.2	0.6	0.7	1.0	❄	2.6	1.3	0.5	1.1	0.9	❄	2.4	1.1	0.7	1.0	0.8	❄	2.6	5.9	0.5	1.3	0.9	❄	12:10 12.7	14:10 -1.0
RS1-031	Frozen Food Cell	°C	-20	-20	-21	-20	-20	-19	-16	-19	❄	-20	-20	-17	-20	-20	-1.8	❄	-18	-19	-19	-19	-20	-20	-21	❄	14:35 8.8	03:25 -22.2
RACKS																												
RS1-050	RACK NT	°C	-16	-14	-15	-14	-15	-16	-14	-15	-15	-14	-15	-14	-15	-16	-14	-16	-14	-14	-15	-15	-16	-15	-15	-15	18:25 -8.0	15:20 -19.4
RS1-051	RACK LT	°C	-31	-30	-34	-32	-33	-32	-30	-31	-32	-30	-30	-30	-30	-30	-30	-31	-32	-31	-30	-30	-29	-34	-32	-30	22:30 -19.4	06:35 -40.4

Printed by XWEB EVO
Generated on: 03-05-2017 15:39

1 / 2

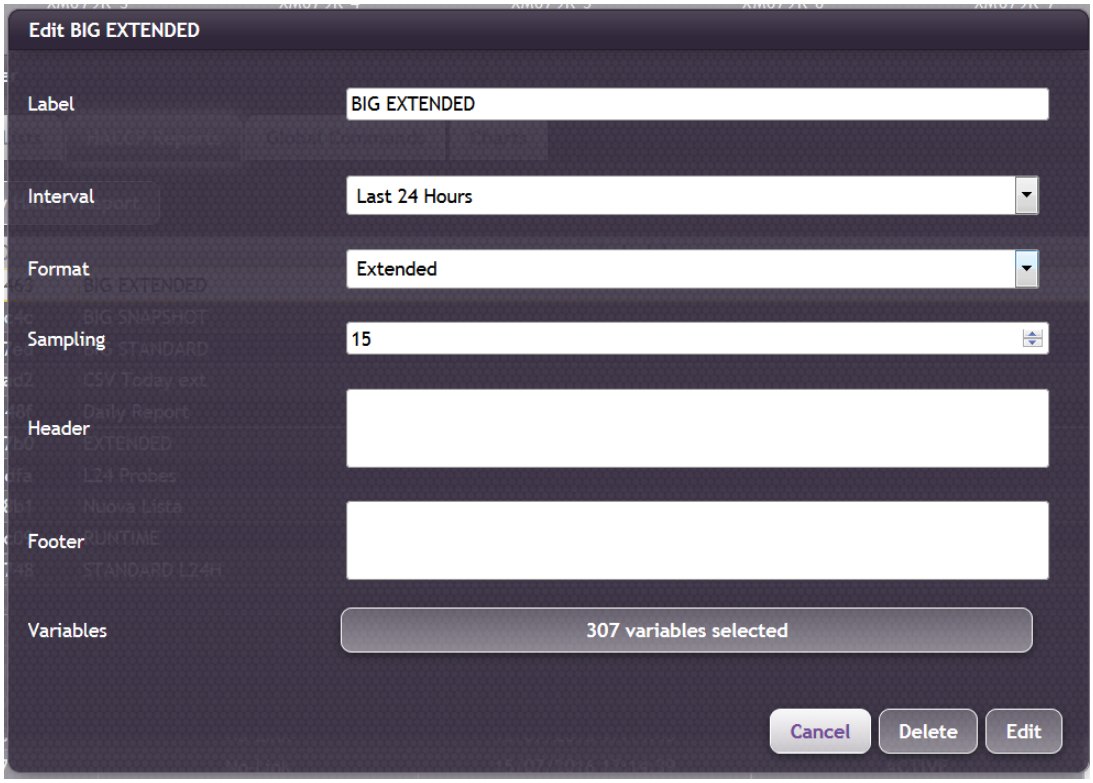
The report consists of a table in which, for each device, temperatures of the day are listed.
Cells containing temperature values can assume different colors when the temperature value is higher / lower than the setpoint value by considering the error or alarm thresholds. The temperature values are omitted in case of defrost and / or missing data.
For each device, the minimum and maximum temperature values are indicated, and the moment when this is detected.

3.4.12.3 HACCP REPORTS



The HACCP list can be used in all contexts of XWEB where you must specify a variable list, a time range and size. For example (the list may not be comprehensive)

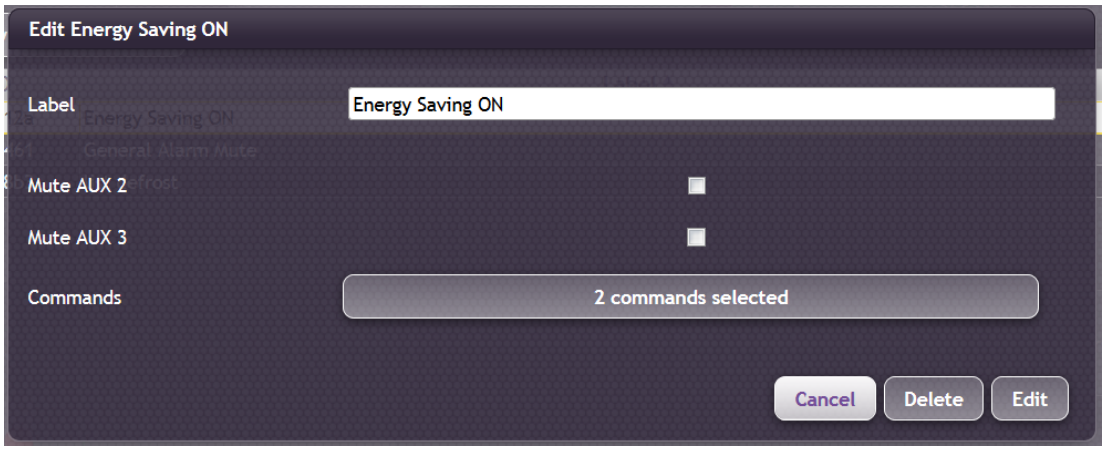
a. homepage HACCP button (desktop overview); b. scheduler (printing and export events)

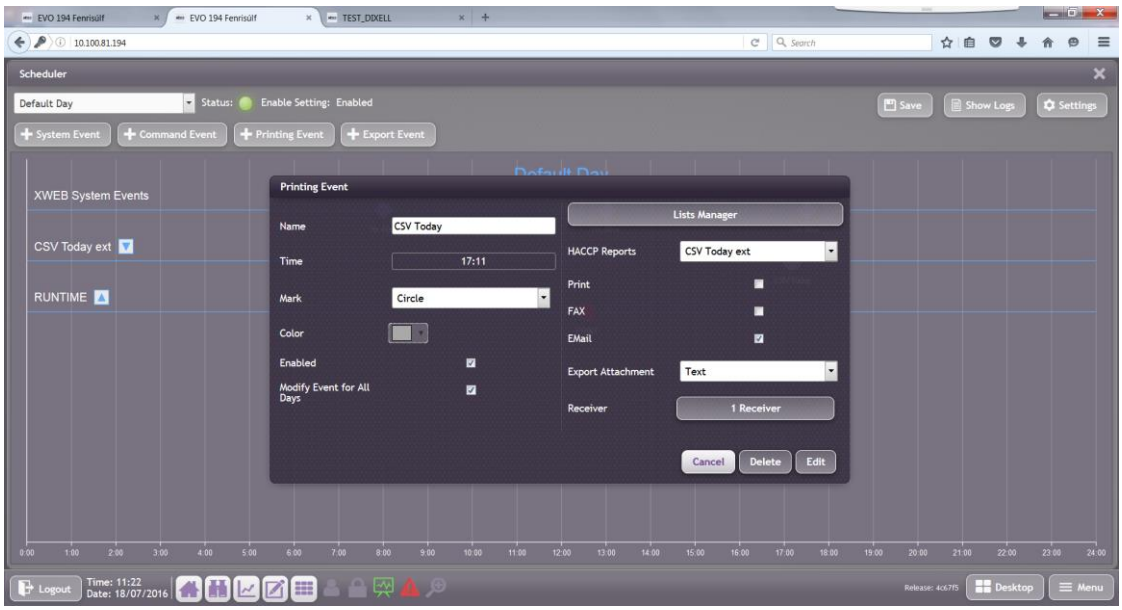


Here you can select only variables (no commands).

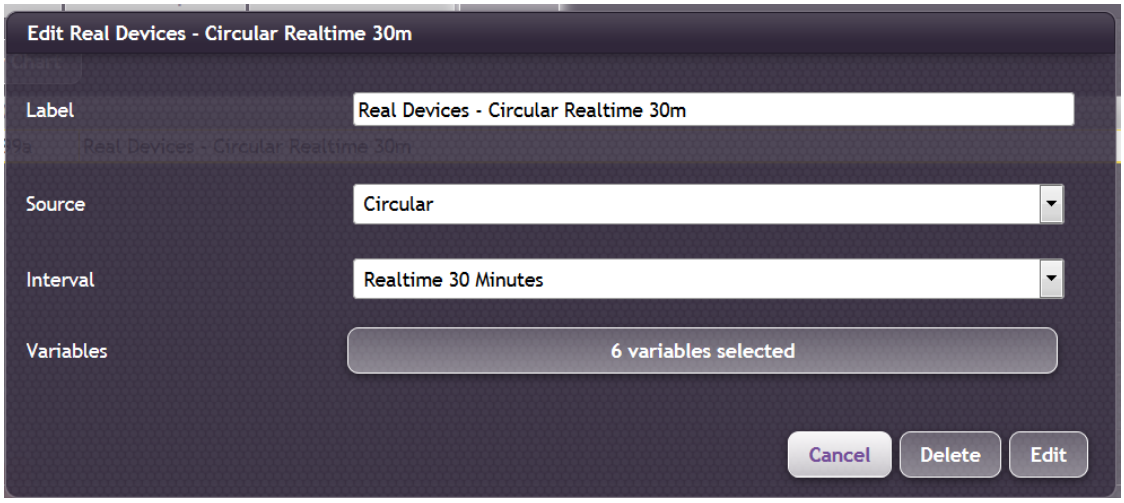
3.4.12.4 GLOBAL COMMANDS

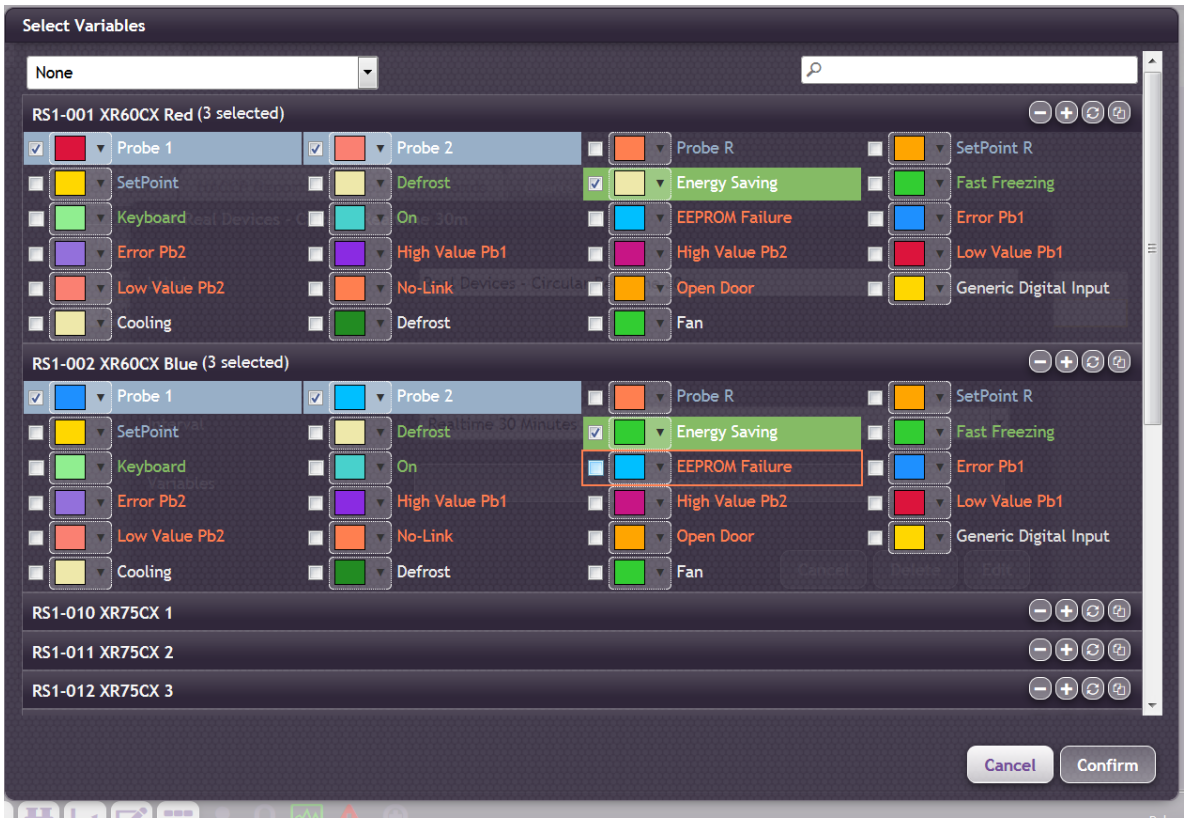
GLOBAL COMMANDS The list can be used in all contexts of XWEB where you must specify a command list. For example (the list may not be comprehensive)
to. homepage button GLOBAL COMMANDS (desktop overview); b. scheduler (command event)





3.4.12.5 CHARTS





The CHARTS lists are used only in the context of the graph

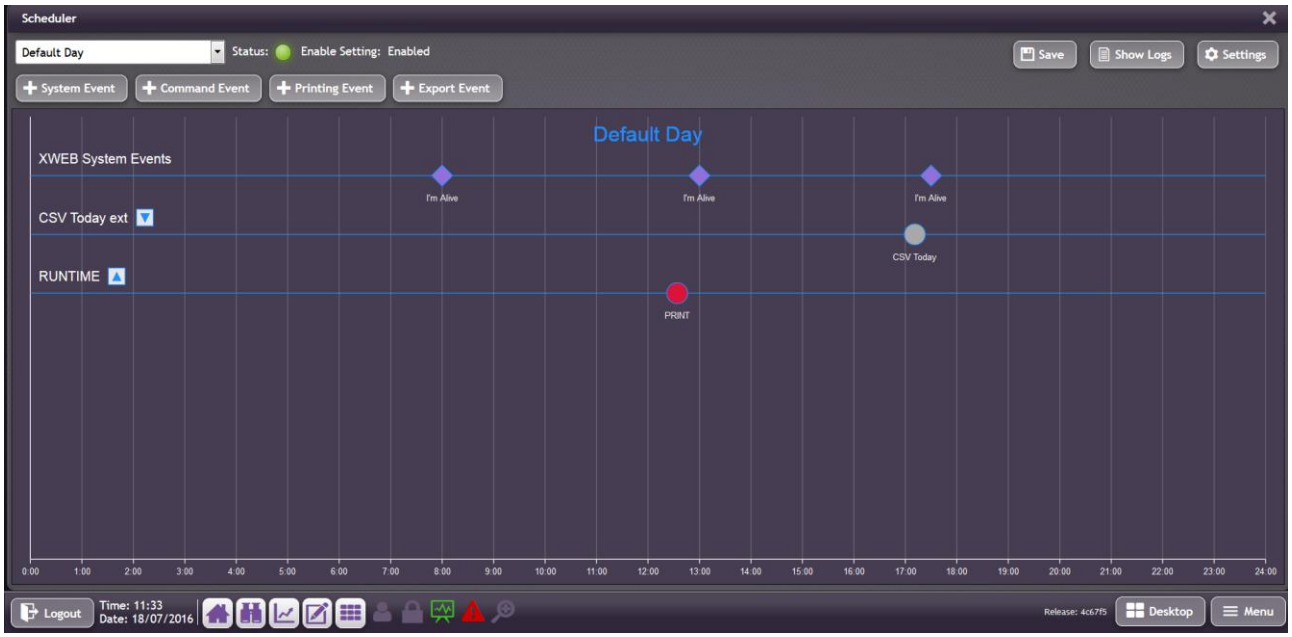
3.5 MENU TOOLS

The XWEB-EVO allows for the use of different tools for device programmatic management. To access these tool pages, open MENU and select TOOLS as demonstrated below.

Many of the functions in this menu require the use of a virtual machine JAVA. Refer to the last pages of this manual for certificate management ("**Error! Reference source not found. Error! Reference source not found.**").

3.5.1 SCHEDULER (ONLY FOR XWEB500D/500/3000/5000 MODELS)

With this powerful tool, it is possible to quickly and efficiently manage the sending of repetitive commands to the tools. Commands are, for example, the sending of commands to switch on or to switch off lights or to schedule periodical defrosting. The graphic display aids the management of the single commands. To run the "Scheduler" access the menu "TOOLS" and then press "Scheduler". The following window will appear:



The complete daily range (from 00:00 to 24:00) is shown at the base of the window. Each hour is marked with a vertical placeholder.

3.5.1.1 SETTING SAVING

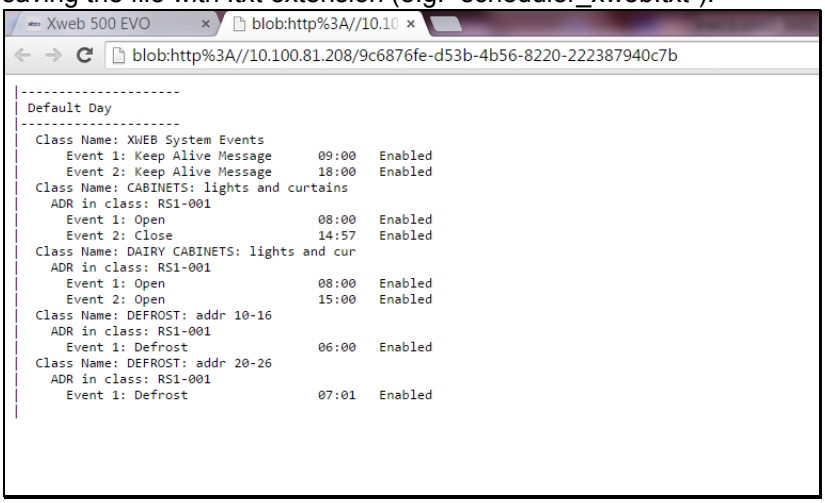
Access the menu item Save to save the configuration. Attention, once you save it is no longer possible to recover a previous version.

3.5.1.2 PRINT SCHEDULER CONFIGURATION

Access the menu item Settings→Print to launch printing in local on your web-browser. For example:

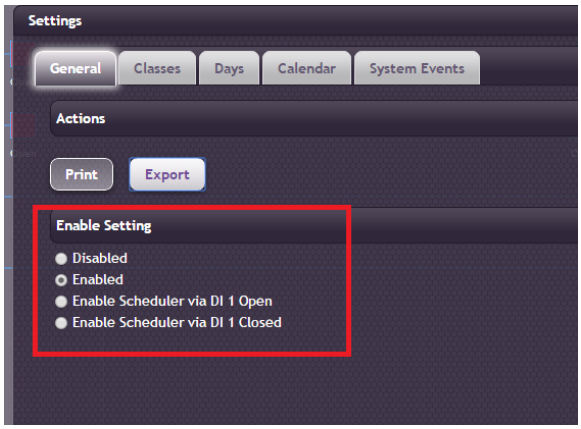
3.5.1.3 SCHEDULER CONFIGURATION EXPORT

Access the menu item Settings→Export to file to export the Scheduler configuration in a TXT file. When selecting this menu, you will be asked to indicate the path and name of the file to be saved. We recommend saving the file with .txt extension (e.g. “scheduler_xweb.txt”).

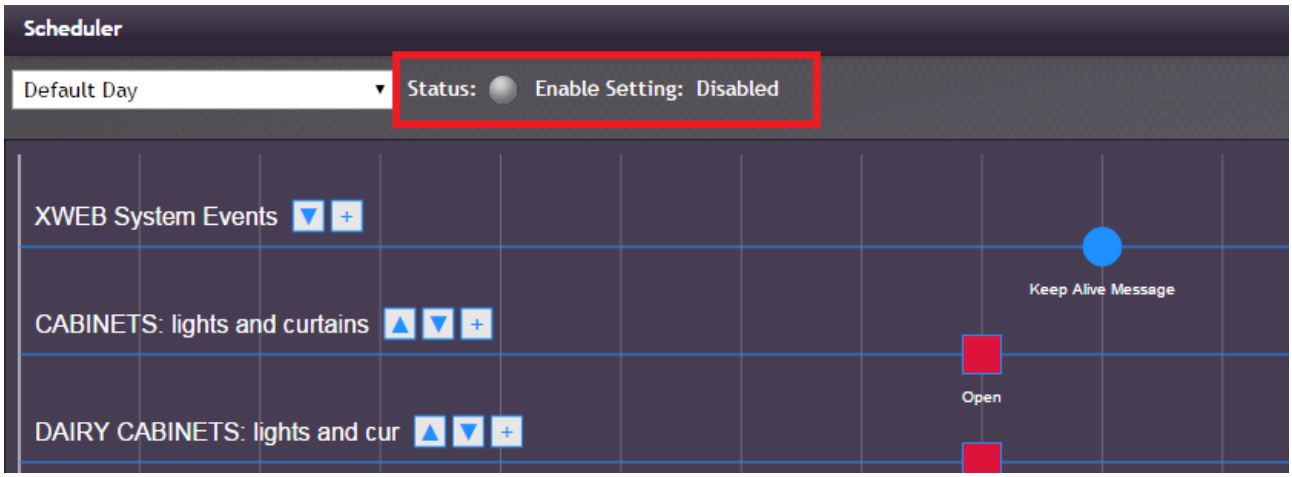


3.5.1.4 SCHEDULER ENABLING

For the unconditional enabling of the scheduler, access the menu Settings→Enable Settings.



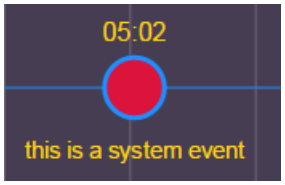
To completely disable the scheduler, access the menu File and untick any item enabling the same scheduler.

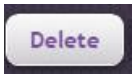


The scheduler may also be enabled and disabled from a digital input. The enabling/disabling logic is set by ticking one of the items of “Enable Scheduler via DI X Y” where X can be 1 or 2 and Y can be Open/Close.

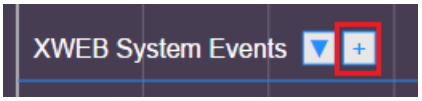
3.5.1.5 MODIFY EVENTS

Click on the event

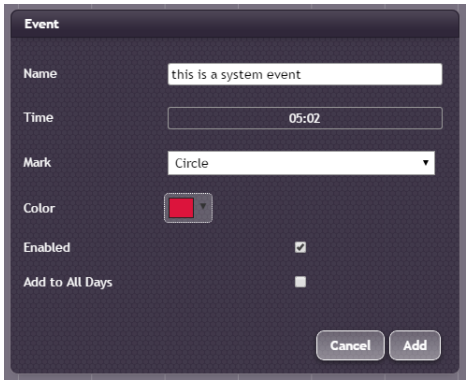


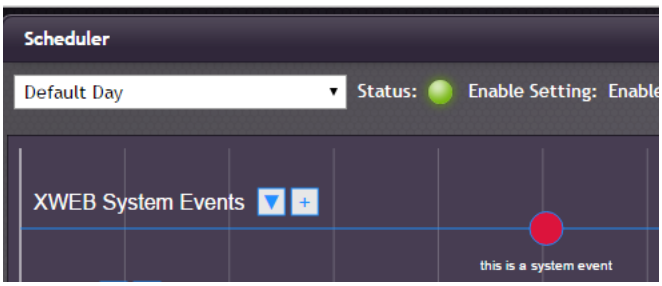
Once the event is selected, click and open the configuration. You can select entry 

3.5.1.6 CREATION/SETTING OF SYSTEM MESSAGE EVENTS

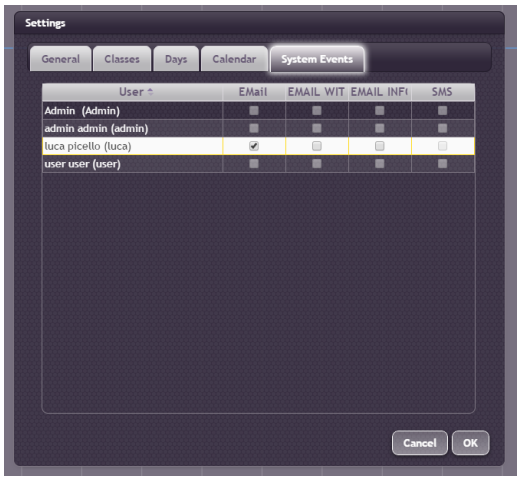
To send system messages,click on (+) button. 

The system events live connected solely to class “XWEB System Events”, which cannot be removed.

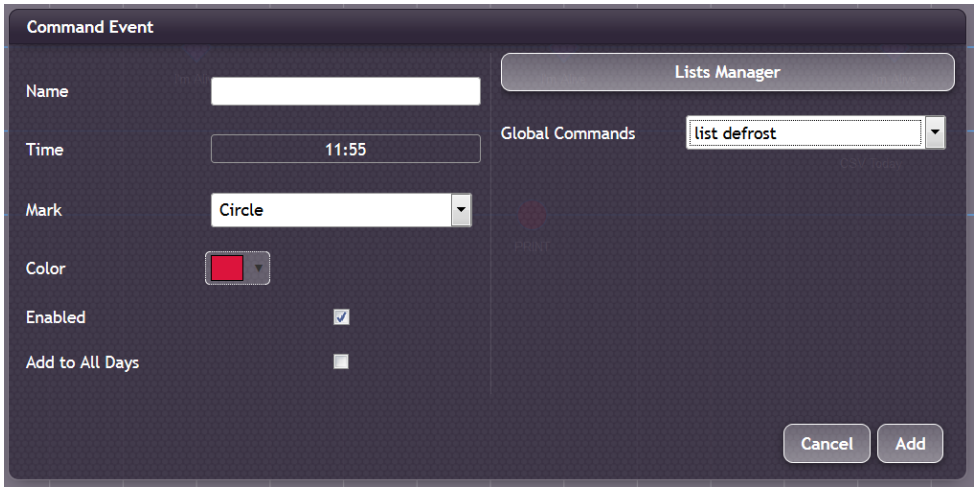




The system events are issued to the recipients and media configured in Settings→System Events

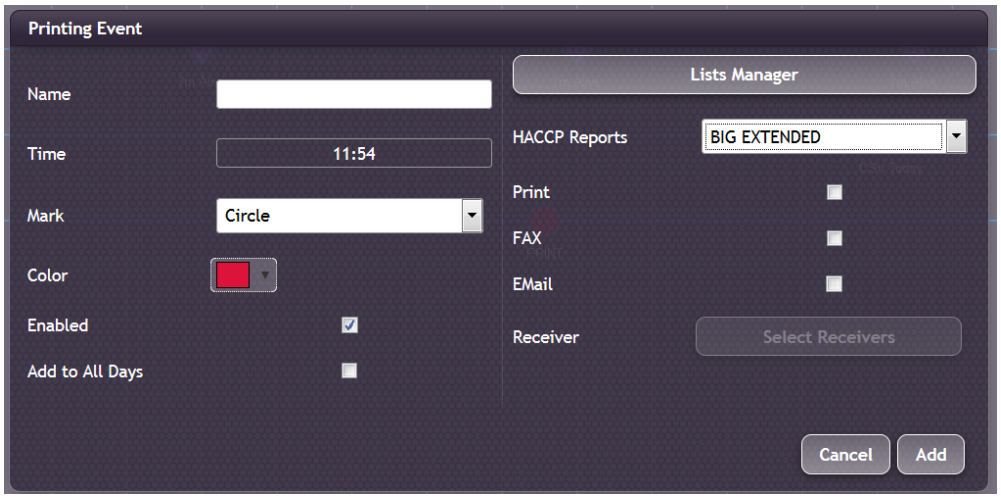


3.5.1.7 CREATION/SETTING OF COMMAND EVENTS TO DEVICES

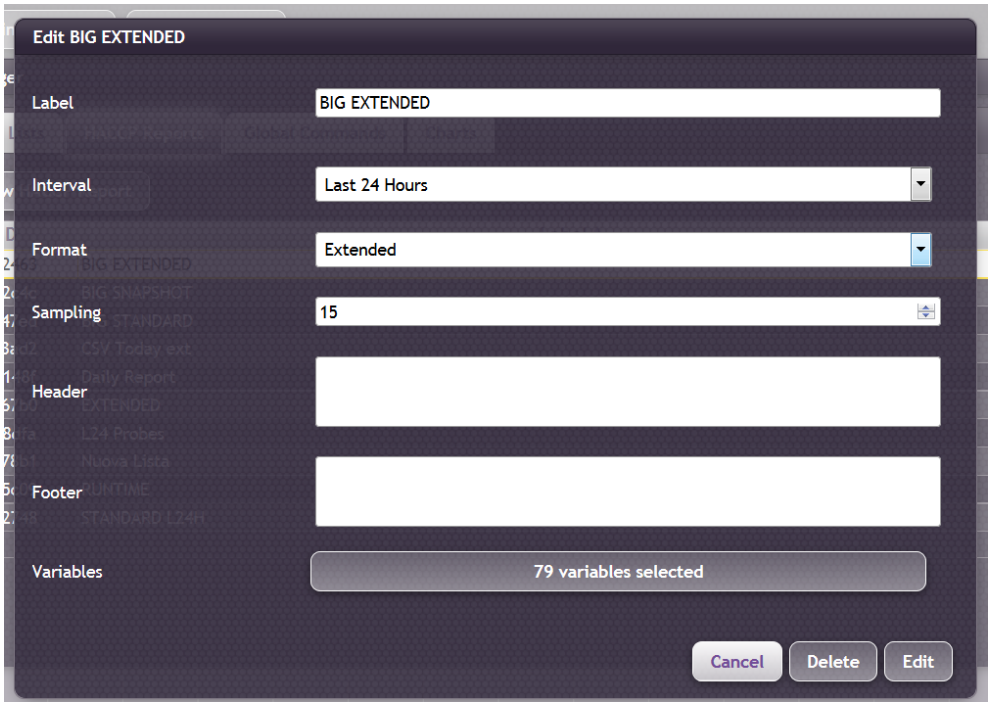


The events are described on the command scheduler with the name, and the mark. The commands to be sent will be selected by a "global commands" list. The list may include commands to any instrument and may be of different commands between instruments.

3.5.1.8 CREATION/SETTING OF REPORT EVENTS

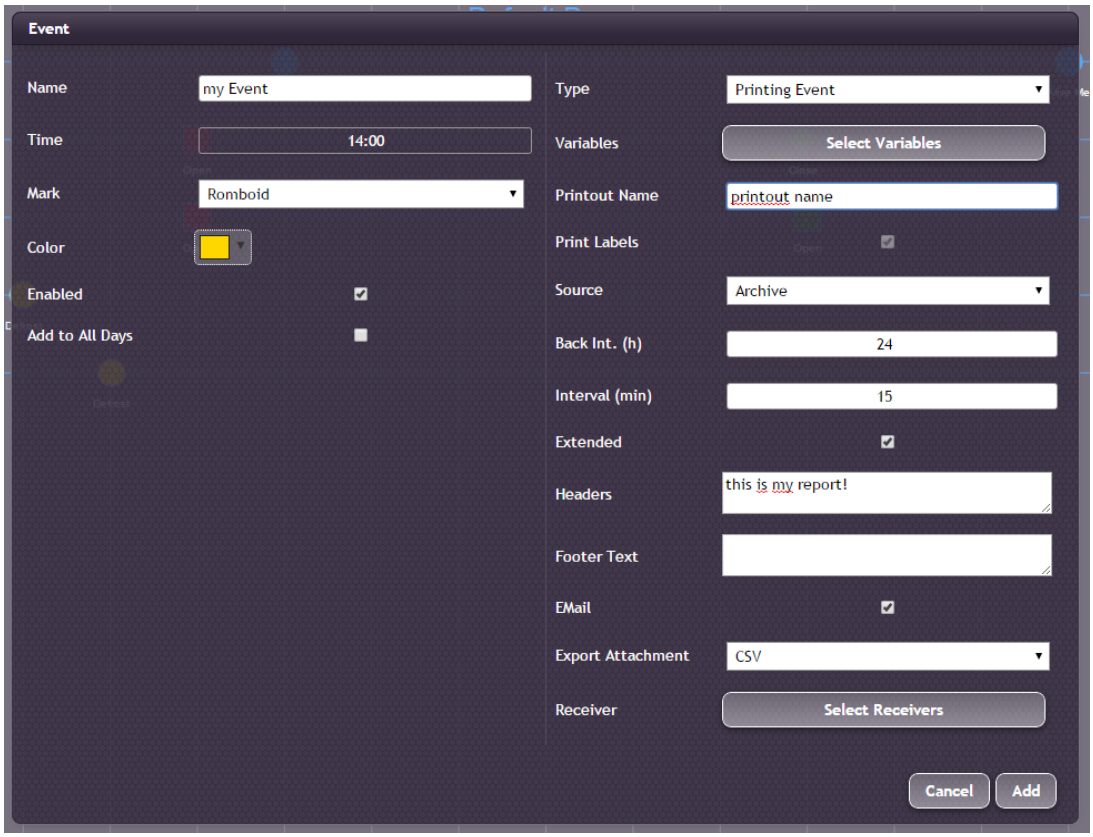


HACCP events are described on the scheduler with the name, and the mark. The variables referred HACCP report will be selected from a list "HACCP list"



The event reports are normally used as HACCP automatic reports. Each event corresponds to the creation of a report and to its sending through means of one of the system configured media (printer, fax, email).

The report is created starting with the selected variables; select them one at a time or use the quick selection filter (Fast Selection).



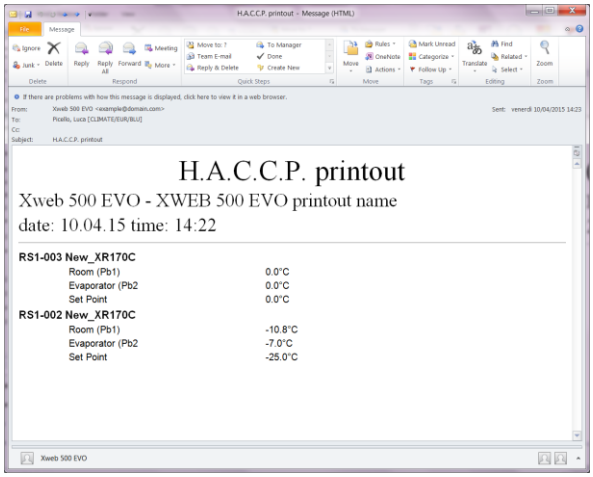
Activation Time: time the report is created.

Marker colour: marker colour of the event on the scheduler (only for printer /).

Add Event to All Days: assignment of the event to all days created in the calendar.

Printout Name: name of report used in the header (only for real time report/print).

There are two types of created report: real time or archive. The first takes a "photo" of the situation regarding the tools at a certain time. As illustrated in the image below.



H.A.C.C.P. printout

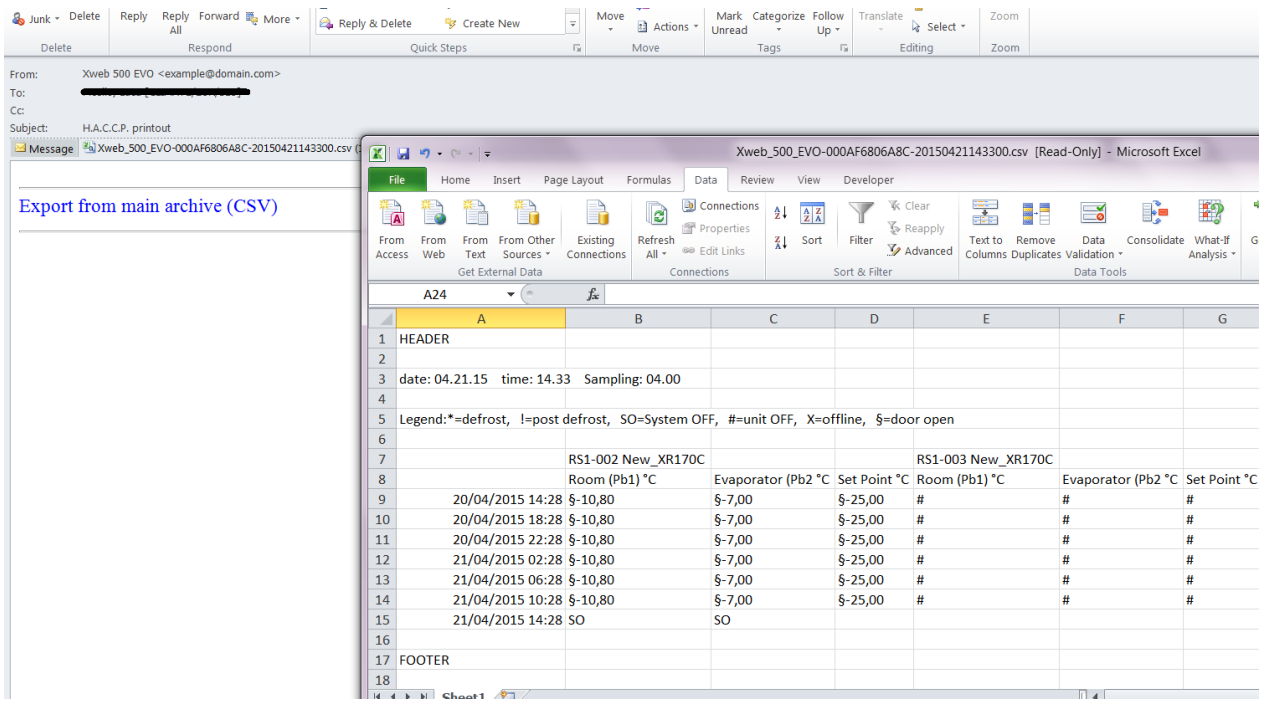
Xweb 500 EVO - XWEB 500 EVO printout name

date: 10.04.15 time: 14:22

RS1-003 New_XR170C		
	Room (Pb1)	0.0°C
	Evaporator (Pb2	0.0°C
	Set Point	0.0°C
RS1-002 New_XR170C		
	Room (Pb1)	-10.8°C
	Evaporator (Pb2	-7.0°C
	Set Point	-25.0°C

The second takes a "photo" of the situation regarding the tools from the time of the event and up to 48 hours prior its occurrence. We can have two types of representation:

- Not-extended:



From: Xweb 500 EVO <example@domain.com>

To: [redacted]

Cc:

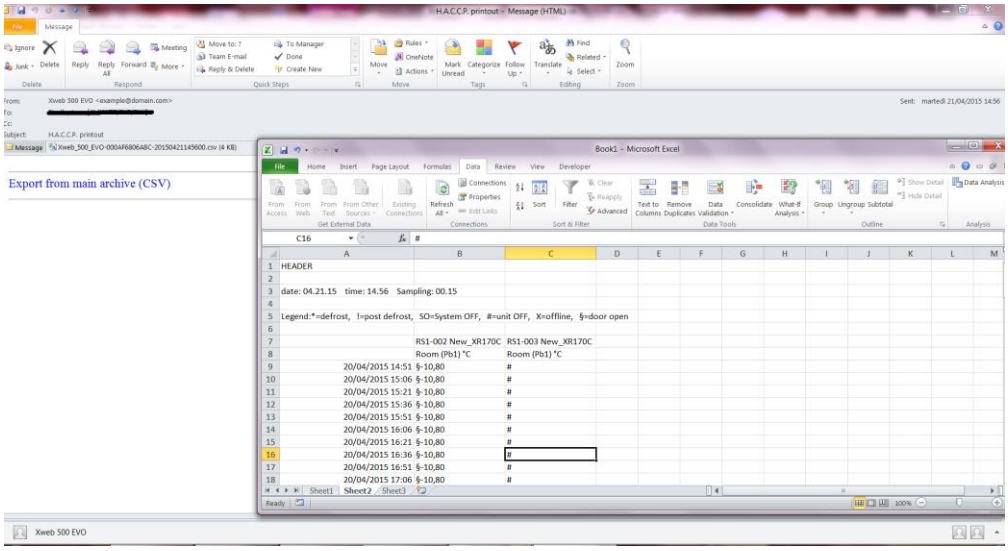
Subject: H.A.C.C.P. printout

Export from main archive (CSV)

Xweb_500_EVO-000AF6806A8C-20150421143300.csv [Read-Only] - Microsoft Excel

	A	B	C	D	E	F	G
1	HEADER						
2							
3	date: 04.21.15 time: 14.33 Sampling: 04.00						
4							
5	Legend:*=defrost, !=post defrost, SO=System OFF, #=unit OFF, X=offline, §=door open						
6							
7		RS1-002 New_XR170C			RS1-003 New_XR170C		
8		Room (Pb1) °C	Evaporator (Pb2 °C	Set Point °C	Room (Pb1) °C	Evaporator (Pb2 °C	Set Point °C
9	20/04/2015 14:28	§-10,80	§-7,00	§-25,00	#	#	#
10	20/04/2015 18:28	§-10,80	§-7,00	§-25,00	#	#	#
11	20/04/2015 22:28	§-10,80	§-7,00	§-25,00	#	#	#
12	21/04/2015 02:28	§-10,80	§-7,00	§-25,00	#	#	#
13	21/04/2015 06:28	§-10,80	§-7,00	§-25,00	#	#	#
14	21/04/2015 10:28	§-10,80	§-7,00	§-25,00	#	#	#
15	21/04/2015 14:28	SO	SO				
16							
17	FOOTER						
18							

- Extended: refers to the representation of data with one column per variable. When reading the data in the column, refer to the number in the header list which identifies the variable.



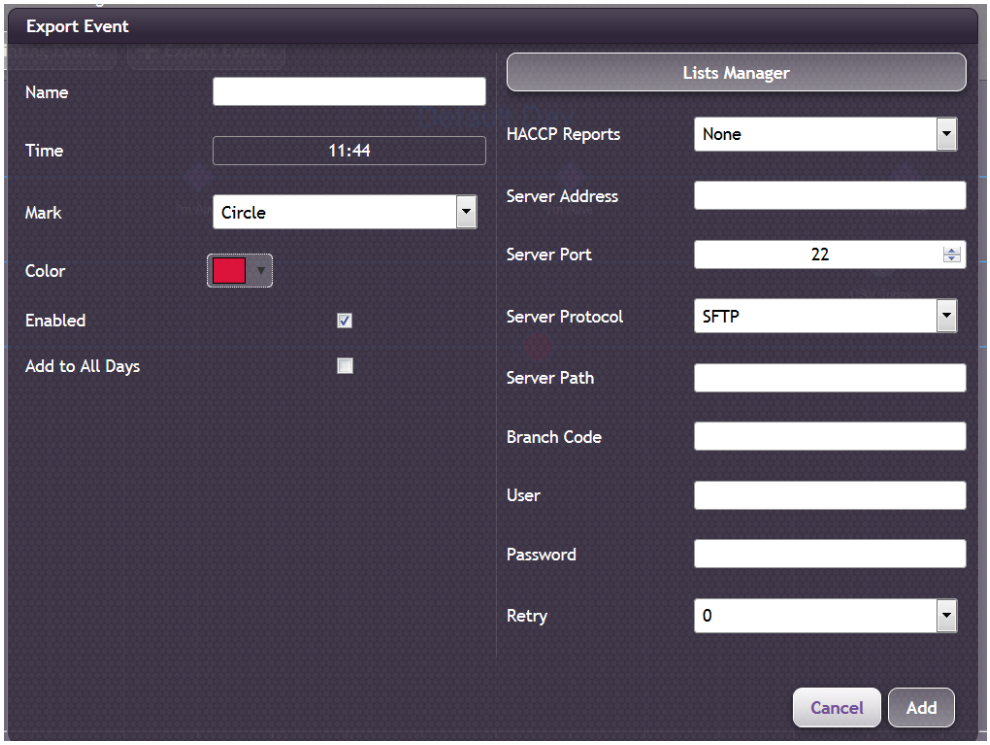
“Print copies” to print on local printer, configured on xweb.

FAX for sending the report via fax configured on xweb.

Email for forwarding via email, with report in email or as attachment.

3.5.1.9 CREATING/SETTING OF EVENTS GENERATING HISTORICAL DATA EXCEL FILES

The XWEB-EVO is able to create historical data excel files. There is a 48 hour limit from when the event first occurred.



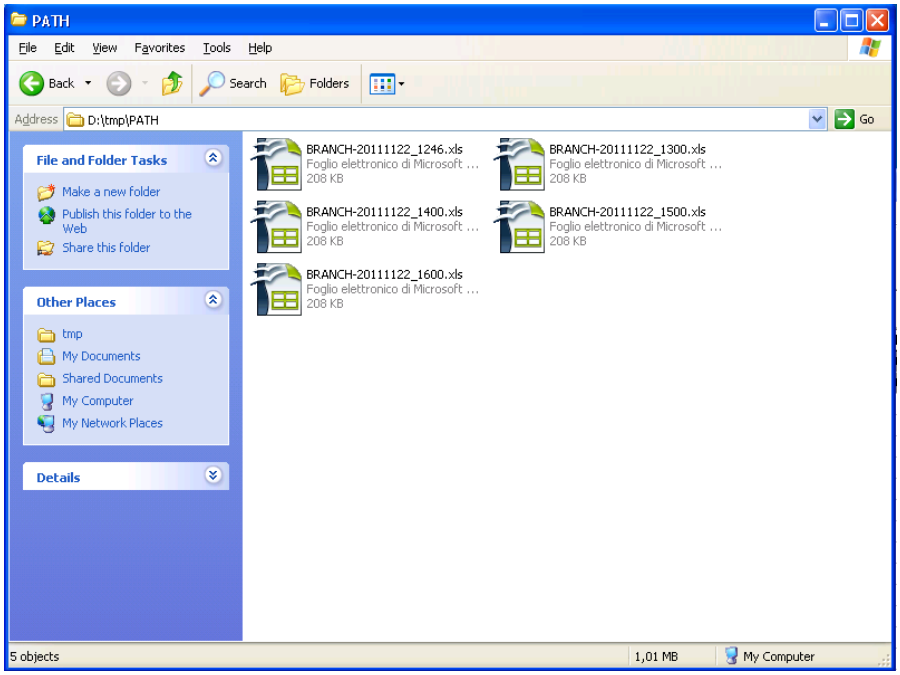
Select the class on which to connect to the event.

Select the variables for the report.

Set the server parameters on which to create the Excel file containing the report data:
The protocols available are: FTP/SFTP/SCP. A password is required to connect to the server receiving the Excel files. For the correct "server", "port" settings, etc., we recommend seeking support from your network

administrator. The Server-Address must be a valid IP. The Server-Path must be a valid path, alphanumeric, delimited with "/" (e.g.: “myPath/mySubPath”). The path on which to create the file must exist. If the path does not exist, XWEB will attempt to create it, but the directory creation command must be enabled on the receiving Server-Address for the selected protocol. The Branch-Code must be an alphanumeric string.

Once configured, the Excel files will be created as: <PATH>/<BRANCH>-<datetime>.XLS as per screenshot below.



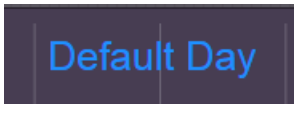
The format of the files is as demonstrated below, where each Excel worksheet is dedicated to a single device.

	A	B	C	D	E	F	G	H	I	K	R	S	V	W	X
1	Date-Time	Room (Pb1)	Evaporator (Pb2	Set Point	On	Defrost	Keyboard	Energy Saving	Low Value Pb1	Error Pb1	No Link	Defrost	Cooling	Door Switch	Generic Alarm
2	28/11/2011 10:44	-6,70	-25,50	2,00	ACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	ACTIVE	DEACTIVE
3	28/11/2011 10:59	-6,70	-25,50	2,00	ACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	ACTIVE	DEACTIVE
4	28/11/2011 11:15	-6,70	-25,50	2,00	ACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	ACTIVE	DEACTIVE
5	28/11/2011 11:30	-6,70	-25,50	2,00	ACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	ACTIVE	DEACTIVE
6	28/11/2011 11:45	-6,70	-25,50	2,00	ACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	ACTIVE	DEACTIVE
7	28/11/2011 12:00	-6,70	-25,50	2,00	ACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	ACTIVE	DEACTIVE
8	28/11/2011 12:15	-6,70	-25,50	2,00	ACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	ACTIVE	DEACTIVE
9	28/11/2011 12:30	-6,70	-25,50	2,00	ACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	ACTIVE	DEACTIVE
10	28/11/2011 12:45	-6,70	-25,50	2,00	ACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	ACTIVE	DEACTIVE
11	28/11/2011 13:00	-6,70	-25,50	2,00	ACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	ACTIVE	DEACTIVE
12	28/11/2011 13:15	-6,70	-25,50	2,00	ACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	ACTIVE	DEACTIVE
13	28/11/2011 13:30	-6,70	-25,50	2,00	ACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	ACTIVE	DEACTIVE
14	28/11/2011 13:45	-6,70	-25,50	2,00	ACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	DEACTIVE	ACTIVE	DEACTIVE
15															

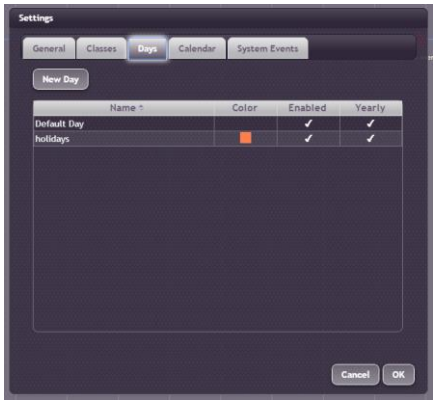
001 fakeDeviceName | 002 New_XR570C | 004 New_XR70CX | 005 New_XR170C | 007 New_XR170C

3.5.1.10 USING THE CALENDAR IN SCHEDULER

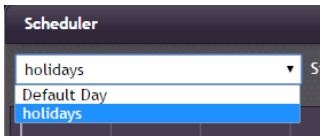
By default, for all calendar days, the system uses the "type of day" (Default Day). When configuring the scheduler for the first time, this day is that proposed by the system for configuration.



To create a new type of day click on Settings→Days



Other types of days can be created and then associated on the calendar. The scheduler will then perform the associated events, for the associated days.



For example, you may have configured special events for the weekend and your calendar may appear as illustrated below, with the (type of) weekend day associated for public holidays.

To create a new (type of) day, access the menu “Edit Days→New day definition”. The system requests the configuration of the following image window parameters

It is necessary to indicate the name of the (type of) day, e.g. "weekend", and give it a colour for recognition. The colour will be important for visual recognition on the calendar.

The "Enabled" parameter indicates whether the events configured on the day are active. The "Yearly" parameter indicates whether the day is to be associated - to all years - for operations of association to calendar. Attention: once the day has been created, the "Yearly" parameter can no longer be modified.

To modify the existing day types, select the day to be modified from the menu Days→and then access the menu “Edit Days→Modify Current Day...”. To delete the current day, access the menu “Edit Days→Delete Day”.

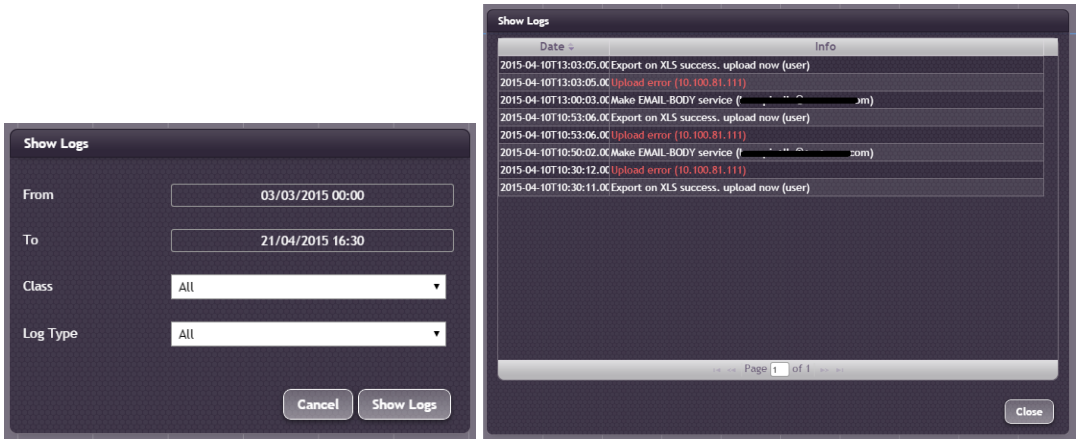
To associate the days on the calendar, access the menu “Edit Days→Calendar Association”. To associate the days, click on the day and select the (type of) day desired. It is also possible to associate the (type of) day on week days by clicking the name in the red band, e.g. apply the day "weekend" to all Sundays.

To configure the previously created (type of) day, access the menu Days and select the day.

Note that the classes are common to all types of day. But that each day defines its specific events.

3.5.1.11 SHOW LOGS

Access the menu “Show Logs” to show logs of the scheduler



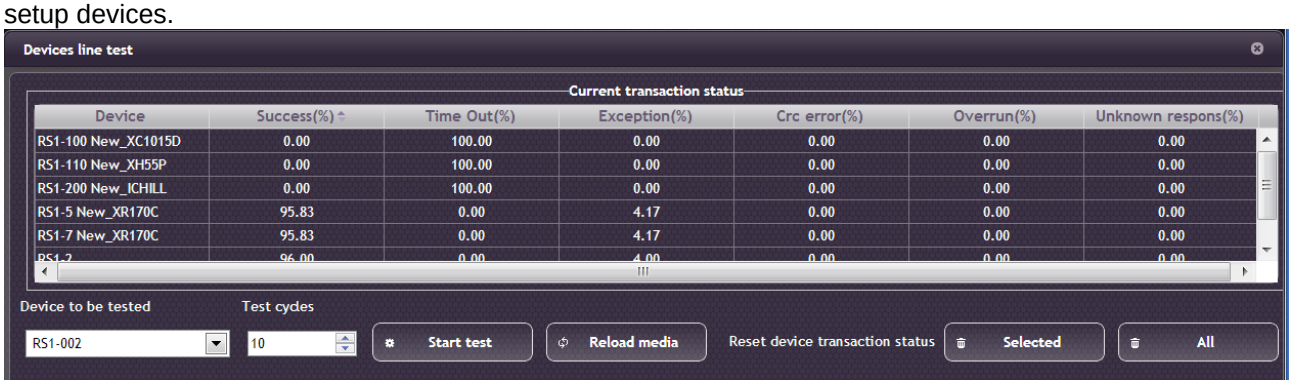
Access the menu “Windows→Show Calendar” to show the calendar.

Access the menu “Windows→Show Logs” to show the scheduler logs, for the list of sent commands and other actions performed.

Access the menu “Windows→Show Commands/Printing/System Events/Export Events” to show/hide events for the current day.

3.5.2 DEVICE LINE TEST

Click on menu “TOOLS→Devices Line Test” to access the test page of the communication with the setup devices.



Access to the window shows the statistics table on the communication with the configured tools. Each device has been represented in columns:

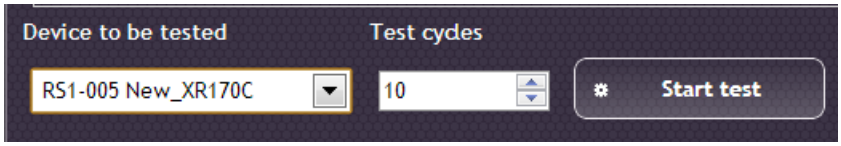
- Device: device name
- Success(%): successful communication total percentage
- Time Out(%): errors for Time Out percentage. This type of error occurs in cases in which the device is switched off or not reachable
- Exception(%): errors for exception percentage. This type of error occurs when the device is reachable, but there are inconsistencies between the configuration of its parameters and that shown on the XWEB-EVO
- Crc-Error(%): CRC error percentage. This type of error occurs when the device can be reached, but there are problems on the line such as interferences.
- Overrun(%): percentage errors for packages in transit but not expected. This type of error occurs when the device can be reached, but there are problems on the line such as interferences.
- Unknown(%): percentage of others detected, different from those reported in previous rows. Example: equality or other errors.

The table enables sorting by column. It is advisable to press "Success(%)" to easily identify the addresses of the most problematic devices.
The table does not automatically refresh but it can be manually updated by pressing "Reload media".
The statistics can be reset with the keys "Selected" and "All".

Identification of device configuration errors:
Should a tool show exception errors, it is possible to ask the system to run a new specific test for the tool, so that it detects the most problematic sizes. The following example demonstrates the identification of a tool with a certain percentage of exceptions, but no other type of communication error:

Device	Success(%)	Time Out(%)	Exception(%)	Crc error(%)	Overrun(%)	Unknown respons(%)
RS1-5 New_XR170C	95.83	0.00	4.17	0.00	0.00	0.00

It is selected to execute the test. The "test cycle" value identifies the number of readings that will be carried out for each device resource.



After having pressed "Start test", the configured variable that does not respond is displayed, i.e. Pb3 which is not enabled by the tool parameters.

Test result

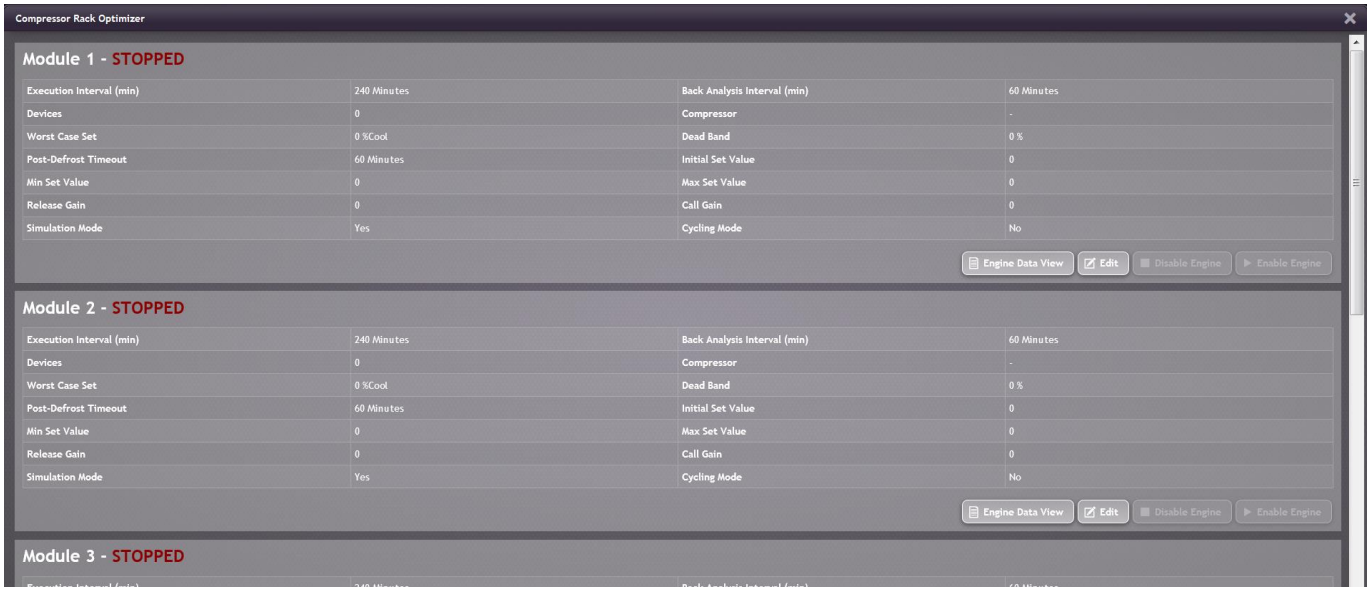
Total transactions	Success	Time Out	Exception	Crc error	Overrun	Unknown respons
110	100	0	10	0	0	0

Results in detail

Variable	Success	Time Out	Exception	Crc error	Overrun	Unknown respons
Error Pb3	0	0	10	0	0	0
Defrost	10	0	0	0	0	0
Set Point	10	0	0	0	0	0
Door Switch	10	0	0	0	0	0
Generic Alarm	10	0	0	0	0	0

3.5.3 COMPRESSOR RACK OPTIMISER (C.R.O., ONLY 500/5000 MODELS)

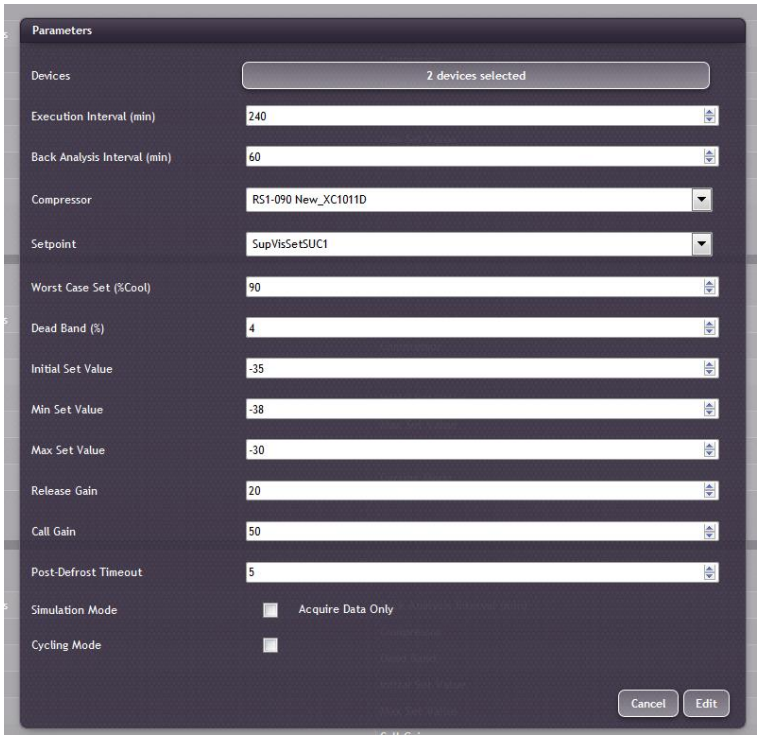
C.R.O. works with a proprietary algorithm developed by Dixell that combines the complexity of the cooling system with the simplicity of the parameters that the user must set at a program level. It works on two basic parameters to guarantee the best possible adjustment of the refrigerator: the suction pressure of the compressor plant (detected by a series XC1000D ver.1.1 or higher controller) and the more critical utility from a "consumption of cold" point of view.
Depending on the model of your XWEB-EVO, the function may have a different number of CRO engines. The following types of parameters are common for all. A window such as that illustrated below appears when the CRO menu is opened for the first time.



- Configuration Utilities

In order to use the C.R.O. you have to create a new class of users. Since these controllers will extract the data necessary for the operation of the project.

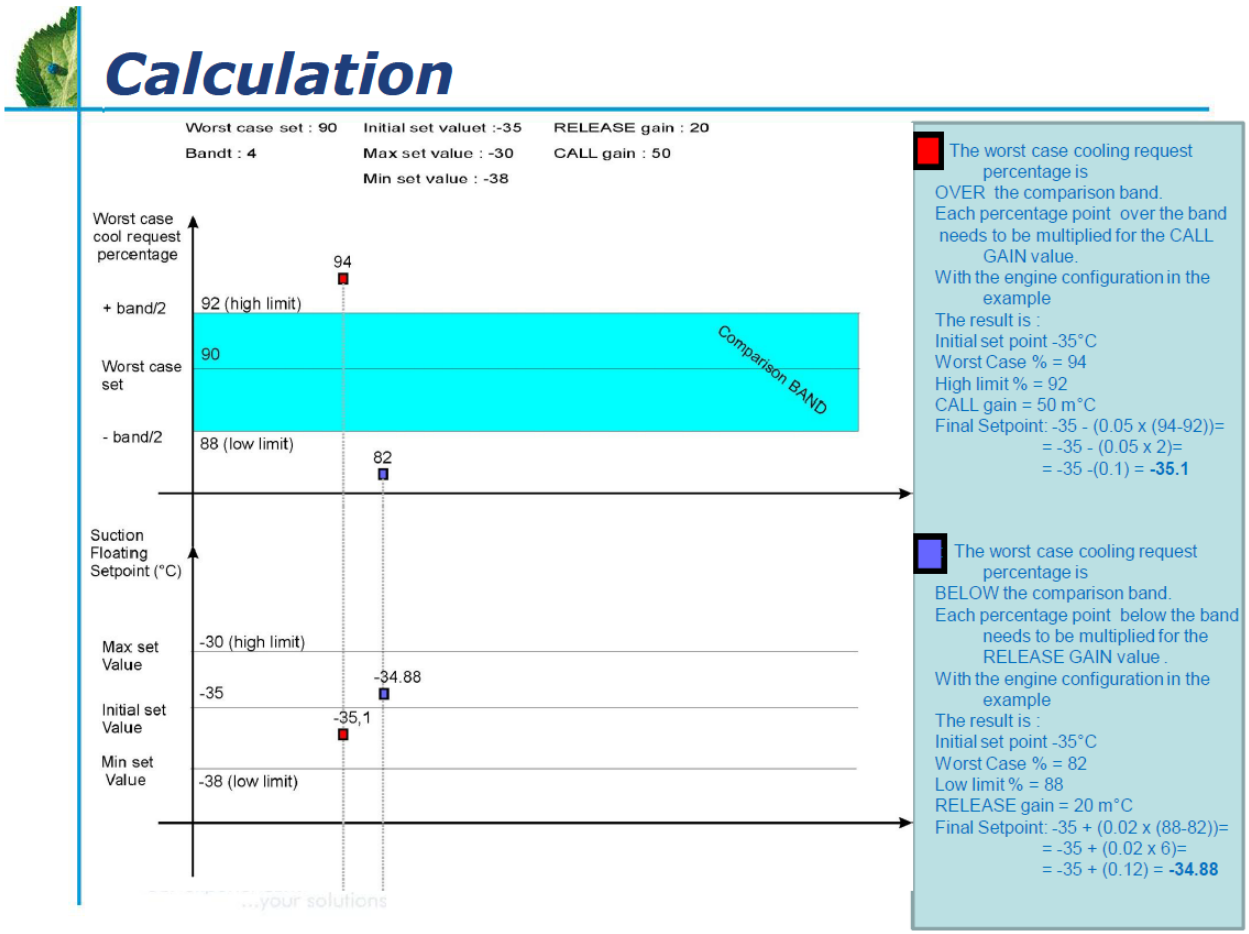
The module C.R.O. to better manage the cooling power availability changes over time, the central set-point compressors (typically, for the utilities at normal temperature).



- ***Execution interval***: indicates how often a new set-point is sent to the plant (in minutes).
- ***Analysis interval***: indicates for how many minutes, in reverse, the data is to be analysed (operation of class utilities; in minutes).
- ***Reference class***: is the set of controllers affected by the calculation of the worst possible case.
- ***Device***: is the plant controller affected by the modification of the set-point.
- ***Set-Point***: allows you to select which set-point to use: typically, that of the plant suction section.
- ***Worst case threshold***: allows for the defining of the intervention threshold for the C.R.P. algorithm (in %)

- ***Neutral zone***: specifies an oscillation band (centred on the percentage of the worst possible case) inside which the algorithm does not intervene.
- ***Initial value***: initial set-point value. The value can be an estimate: in time, the set-point value sent to the plant will change -according to the algorithm (typically in °C).
- ***Min. and Max. Set-points***: safety limit values associated with the minimum and maximum suction pressure: to prevent C.R.O. from excessively increasing or lowering the pressure to avoid the safety devices from triggering. (typically in °C). It is good for the minimum value to be as high as possible in order to optimise energy consumption.
- ***Release and Call Gain***: the call and release gain are two parameters that decide by how much the current set-point must be increased/decreased. The call-gain parameter is used should the set-point need to be decreased. It is useful to set a higher call-gain value than the release-gain in order to quickly decrease the temperature (typically in m°C/%).
- ***Post Defrost Time out:*** the duration after a defrosting event that is ignored in calculating the percentage (in minutes).
- ***Simulation Mode:*** The enabling of simulation mode does not send the set-point values calculated by the algorithm
- ***Cycling Mode:*** The enabling of cycling mode, combined with cycle time (in hours) continuously enables and disables the algorithm. This mode is useful for checking the quality, when applied to the system. Usually, cycle times of no more than three days are set. When the algorithm is disabled, a reset command is sent to the plant for its repositioning to its initial state.

Typically, the units of measure of the plant are expressed in °C, however, C.R.O. adapts to the plant's unit of measure. However, should the unit of measure be modified in the next phase, it will be necessary to re-configure the CRO starting with the disabling of the set-point variable from the algorithm parameters, subsequently re-configuring the unit of measure in "Devices Setup" and re-configuring the CRO parameters.



Should the real percentage of the worst possible case be below that set (except the neutral zone), the formula used for the new set-point is:

$$Set_{new} = Set_{old} + \Delta\% \cdot \left(\frac{RLS_{gain}}{1000} \right)$$

$\Delta\% =$(calculated percentage value) - (percentage set for the worst possible case)

$RLS_{gain} =$release-gain parameter value

And vice-versa, should it be above the set percentage (except the neutral zone), the formula used for the new set-point is:

$$Set_{new} = Set_{old} - \Delta\% \cdot \left(\frac{CALL_{gain}}{1000} \right)$$

$\Delta\% =$(calculated percentage value) - (percentage set for the worst possible case)

$CALL_{gain} =$ call-gain parameter value

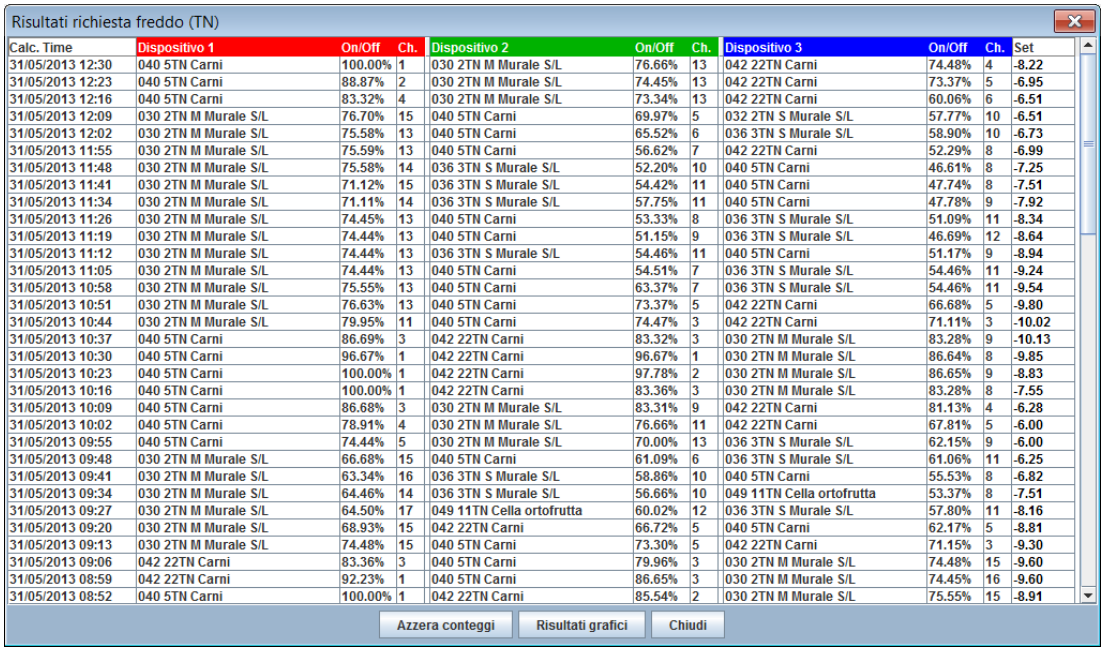
The calculated percentage refers to the analysis range and it changes from time to time based on the real system conditions.

Each engine must be activated by pressing enable system. To deactivate it, press disable system.
The engine status is displayed at the top of the window.

- Results CRO with graphics

To view the status of the three worst utilities from the point of view of the cold call, open the menu.
ENGINE VIEW DATA

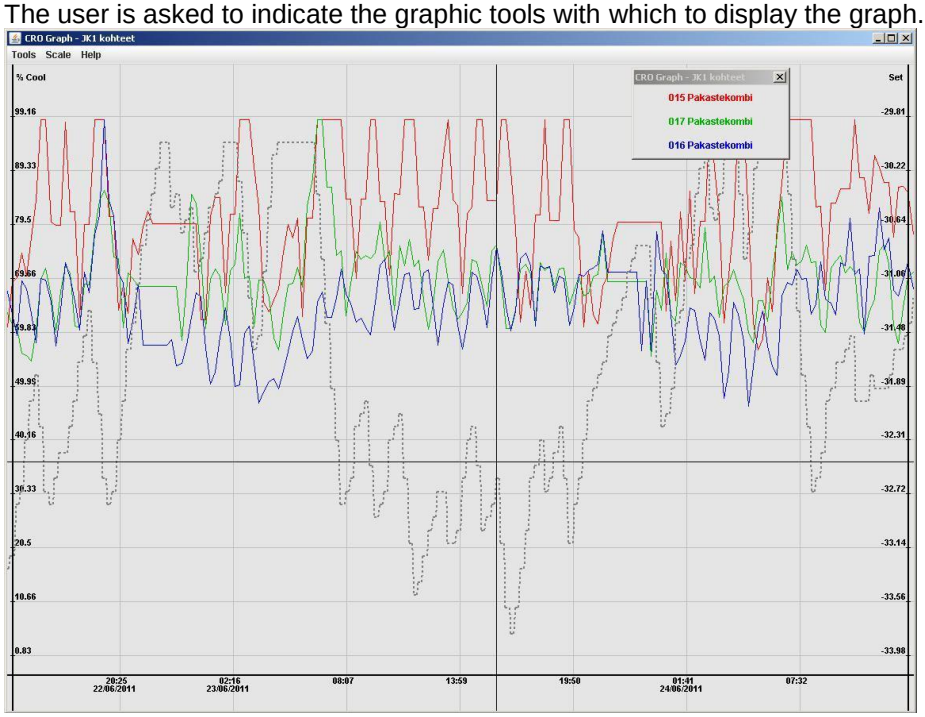
Select the class and then the devices you want to report. It will be shown on the screen the three devices considered the worst of the last period (see picture below). The worst possible device is what is referred to in the red column.



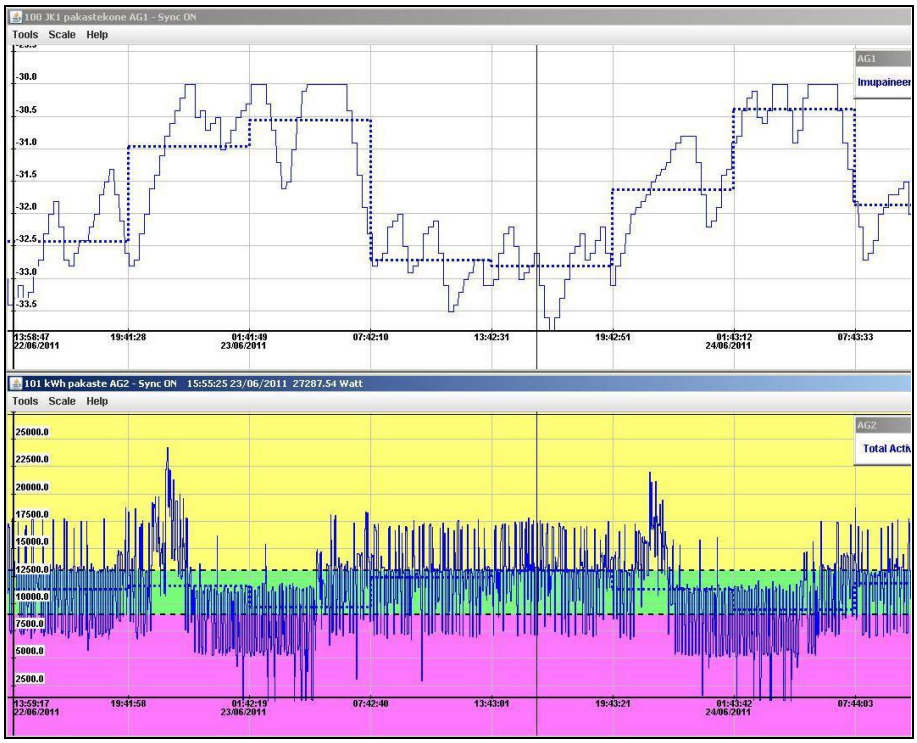
Calc. Time	Dispositivo 1	On/Off	Ch.	Dispositivo 2	On/Off	Ch.	Dispositivo 3	On/Off	Ch.	Set
31/05/2013 12:30	040 5TN Carni	100.00%	1	030 2TN M Murale S/L	76.66%	13	042 22TN Carni	74.48%	4	-8.22
31/05/2013 12:23	040 5TN Carni	88.87%	2	030 2TN M Murale S/L	74.45%	13	042 22TN Carni	73.37%	5	-6.95
31/05/2013 12:16	040 5TN Carni	83.32%	4	030 2TN M Murale S/L	73.34%	13	042 22TN Carni	60.06%	6	-6.51
31/05/2013 12:09	030 2TN M Murale S/L	76.70%	15	040 5TN Carni	69.97%	5	032 2TN S Murale S/L	57.77%	10	-6.51
31/05/2013 12:02	030 2TN M Murale S/L	75.58%	13	040 5TN Carni	65.52%	6	036 3TN S Murale S/L	58.90%	10	-6.73
31/05/2013 11:55	030 2TN M Murale S/L	75.59%	13	040 5TN Carni	56.62%	7	042 22TN Carni	52.29%	8	-6.99
31/05/2013 11:48	030 2TN M Murale S/L	75.58%	14	036 3TN S Murale S/L	52.20%	10	040 5TN Carni	46.61%	8	-7.25
31/05/2013 11:41	030 2TN M Murale S/L	71.12%	15	036 3TN S Murale S/L	54.42%	11	040 5TN Carni	47.74%	8	-7.51
31/05/2013 11:34	030 2TN M Murale S/L	71.11%	14	036 3TN S Murale S/L	57.75%	11	040 5TN Carni	47.78%	9	-7.92
31/05/2013 11:26	030 2TN M Murale S/L	74.45%	13	040 5TN Carni	53.33%	8	036 3TN S Murale S/L	51.09%	11	-8.34
31/05/2013 11:19	030 2TN M Murale S/L	74.44%	13	040 5TN Carni	51.15%	9	036 3TN S Murale S/L	46.69%	12	-8.64
31/05/2013 11:12	030 2TN M Murale S/L	74.44%	13	036 3TN S Murale S/L	54.46%	11	040 5TN Carni	51.17%	9	-8.94
31/05/2013 11:05	030 2TN M Murale S/L	74.44%	13	040 5TN Carni	54.51%	7	036 3TN S Murale S/L	54.46%	11	-9.24
31/05/2013 10:58	030 2TN M Murale S/L	75.55%	13	040 5TN Carni	63.37%	7	036 3TN S Murale S/L	54.46%	11	-9.54
31/05/2013 10:51	030 2TN M Murale S/L	76.63%	13	040 5TN Carni	73.37%	5	042 22TN Carni	66.68%	5	-9.80
31/05/2013 10:44	030 2TN M Murale S/L	79.95%	11	040 5TN Carni	74.47%	3	042 22TN Carni	71.11%	3	-10.02
31/05/2013 10:37	040 5TN Carni	86.69%	3	042 22TN Carni	83.32%	3	030 2TN M Murale S/L	83.28%	9	-10.13
31/05/2013 10:30	040 5TN Carni	96.67%	1	042 22TN Carni	96.67%	1	030 2TN M Murale S/L	86.64%	8	-9.85
31/05/2013 10:23	040 5TN Carni	100.00%	1	042 22TN Carni	97.78%	2	030 2TN M Murale S/L	86.65%	9	-8.83
31/05/2013 10:16	040 5TN Carni	100.00%	1	042 22TN Carni	83.36%	3	030 2TN M Murale S/L	83.28%	8	-7.55
31/05/2013 10:09	040 5TN Carni	86.68%	3	030 2TN M Murale S/L	83.31%	9	042 22TN Carni	81.13%	4	-6.28
31/05/2013 10:02	040 5TN Carni	78.91%	4	030 2TN M Murale S/L	76.66%	11	042 22TN Carni	67.81%	5	-6.00
31/05/2013 09:55	040 5TN Carni	74.44%	5	030 2TN M Murale S/L	70.00%	13	036 3TN S Murale S/L	62.15%	9	-6.00
31/05/2013 09:48	030 2TN M Murale S/L	66.68%	15	040 5TN Carni	61.09%	6	036 3TN S Murale S/L	61.06%	11	-6.25
31/05/2013 09:41	030 2TN M Murale S/L	63.34%	16	036 3TN S Murale S/L	58.86%	10	040 5TN Carni	55.53%	8	-6.82
31/05/2013 09:34	030 2TN M Murale S/L	64.46%	14	036 3TN S Murale S/L	56.66%	10	049 11TN Cella ortofrutta	53.37%	8	-7.51
31/05/2013 09:27	030 2TN M Murale S/L	64.50%	17	049 11TN Cella ortofrutta	60.02%	12	036 3TN S Murale S/L	57.80%	11	-8.16
31/05/2013 09:20	030 2TN M Murale S/L	68.93%	15	042 22TN Carni	66.72%	5	040 5TN Carni	62.17%	5	-8.81
31/05/2013 09:13	030 2TN M Murale S/L	74.48%	15	040 5TN Carni	73.30%	5	042 22TN Carni	71.15%	3	-9.30
31/05/2013 09:06	042 22TN Carni	83.36%	3	040 5TN Carni	79.96%	3	030 2TN M Murale S/L	74.48%	15	-9.60
31/05/2013 08:59	042 22TN Carni	92.23%	1	040 5TN Carni	86.65%	3	030 2TN M Murale S/L	74.45%	16	-9.60
31/05/2013 08:52	040 5TN Carni	100.00%	1	042 22TN Carni	85.54%	2	030 2TN M Murale S/L	75.55%	15	-8.91

For each device, in addition to its name, the amount of cold call is also indicated. "Ch." corresponds to the compressor start-ups, while "On/Off" corresponds to the call of the eventual electronic expansion valve. These values are used to calculate the cold call percentage of the algorithm.
Each line corresponds to a different moment in which the C.R.O. algorithm has sent a new set-point to the plant: this set-point is shown on the right, below the "Set" column.

From the previously described window, press "Graph Results" for a graph displaying the same information. The user is asked to indicate the graphic tools with which to display the graph.



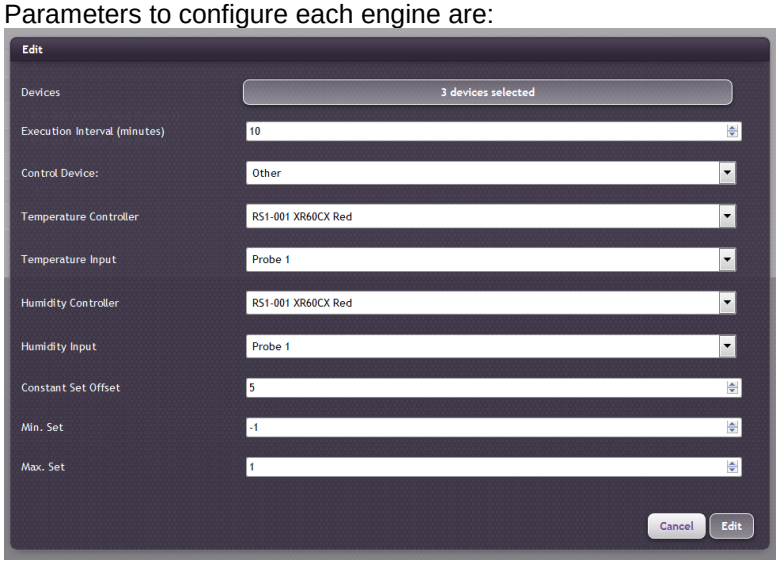
The graph shows the collected data for the selected period; together with the plant set-point as a dotted line. With C.R.O. deactivated, the central set-point would be a horizontal line: the areas above this fixed set-point and floating set-point are energy saving.
The plant set-point is illustrated in the first graph of the following image, whilst in the graph below, the energy consumptions relating to the same period are shown.



3.5.4 DEW POINT MANAGEMENT (ONLY XWEB5000)

The Dew-Point managing concept enables the XWEB-EVO to act on the adjustment of the anti-sweat heaters in order to reduce their electricity consumption.
The XWEB-EVO acts on the XM600 controllers, to which the Dew-point temperature set-point is sent. Condensation builds up on the controlled bench window surrounding the system. These controllers are defined in the configuration of a class. Each engine can manage a class. Each engine may relate to different zones of the system where work is to be carried out with different settings and parameters.
All of the following configurations are part of the dew-point project that will be run by the system if at least one of the dew-point engines is activated.

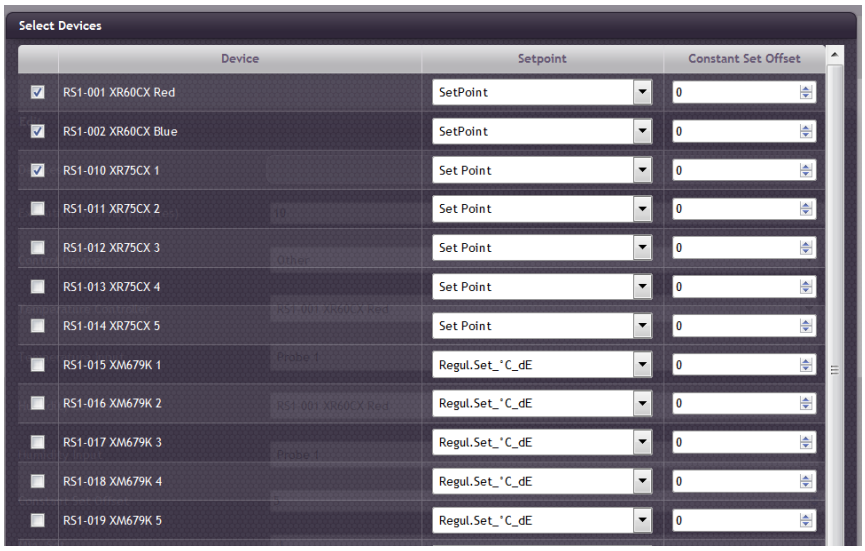
Parameters to configure each engine are:



← with 'Other'

← with 'XH50/XH55P

- Devices: devices receiving the value of the dewpoint set. Clicking on the button will open the window



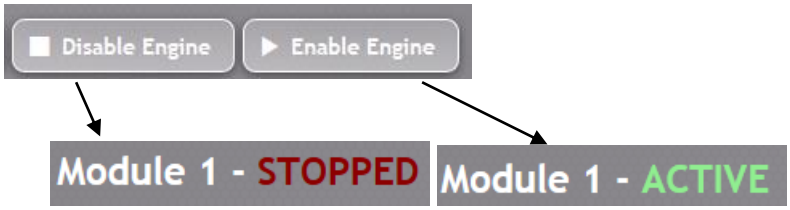
For each device represented in the list, it is defined:

1. Check enabled: defines whether or not the device is part of the class
2. Set Dew Variable: defines the variable towards which the dew-point value will be sent. Attention: if the Set Dew Point variable is not visible in the list, it has probably been disabled by the tool advances. Access Device-Setup→Advances and enabling.
3. Offset: value added to the Set Dew value. Reflects the difference between the temperature read by the XM600 probe that is not normally fitted on the glass and the real glass temperature.

- Execution Interval: the cycle time for sending the set of dew-point (in minutes)
- Control Device: device for calculating the value of the set dewpoint. In the event that is selected XH50 / 55P calculation box is performed by the same device that must be specified with the field "XH50 / 55P Device". This controller is connected to a temperature sensor and humidity in the environment. If however you do not have such a device, it is possible to calculate the value of the set at the same Dewpoint XWEB-EVO specificandogli variables from which to read the values of temperature and humidity. They are indicated by the parameters Temperature / Humidity Controller and Temperature / Humidity Inputs.
- Constant Set Offset: offset to the Set value of dew point that is added
- Min./Max Set: limit values of dew point Set. In the case where the value is above or below these values we are sent to controllers configured as recipients for this engine

With keys:

- Enable/Disable Engine: enables / disables the engine dew point. On the upper part of the window there is a visual feedback on the state of the motor as per the images below



- 

to control logs of the Dewpoint project

ERRORS:

Lists the possible errors that the system can send to the "Result" column

"Valid" => in the value column, the value calculated and sent to the central device is shown.
"Syntax error" => There is an error in the formula defined by the user. The mathematics is not developed.
"No device data" => There is no data from the device and the mathematics cannot be developed.
"No link device" => As above, since the device is a NoLink
"Device OFF" => As above, since the device is in Off mode.
"Math div by 0" => The mathematics development is stopped due to a division by "0"
"Value not allowed" => The values for the formula variables are not permitted (out of range)
"Mathematic" appears in the "Device" column

The possible errors that may occur when sending the set to the central device include:
"Timeout" => No response from device.
"Exception" => Value not accepted by device.
"Unknown" => Unknown error.
"Success" => Value sent with success.
The device name/address is shown in the "device" column.

3.5.5 XWEB5000 SUPERVISOR SYSTEM (ONLY XWEB5000)

The supervision concept significantly expands the possibility of intervention by the XWEB5000 on system management. Supervision is intended as the ability of independent intervention by the monitoring unit on the monitored devices. To simplify the concept, it may help to think of a functional block with all the variables detected on the controller field (temperatures, pressures, operating status, alarms, etc...) as an input, and as an output, the possibility of sending specific commands to the same controllers. The basic link between input and output lies in the supervision, that is to say, in a special algorithm that the user has programmed and that the system implements each time the input variables meet the set criteria. Pay due attention to the fact that the sending of certain commands verified, following the establishing of certain input conditions, is not accompanied by the sending of additional commands when the input conditions fail. In other words, when the user considers and realises the direct action, the reverse action must then be realised. Otherwise, the system is unable to restore the initial conditions when required.
Given the evident importance of this new work tool, Dixell has tried to make its usage as simple as possible for the end-user. This is why the event is programmed through the graphic user interface, therefore, no programming knowledge is required (in contrast with what occurs with normal programming languages for PLC).

THE PROJECT

From a practical point of view, the user must be familiar with the supervision project to be realised in advance, this is why, for educational purposes, the project considered throughout this chapter will be the following:
the installation in question, demonstrates the need to monitor the operating state of an emergency generator that is only activated should there be no electric energy supply. Upon the occurrence of this condition, the supervisor must send a series of commands to the utilities in order to manage, at the highest possible level, the energy saving function during a power-cut. In the example in question, the generator is monitored through means of a Dixell XJA50D controller (alarm/status acquisition module): when the generator is activated, the module signals this through the variation of the corresponding digital input. During operation with an emergency generator, the XWEB-EVO must send the "energy saving" command (variation of work set-point) and, only for the compatible utilities as well as the "save cold" curtain lowering command.

SDC, ELS and ODC

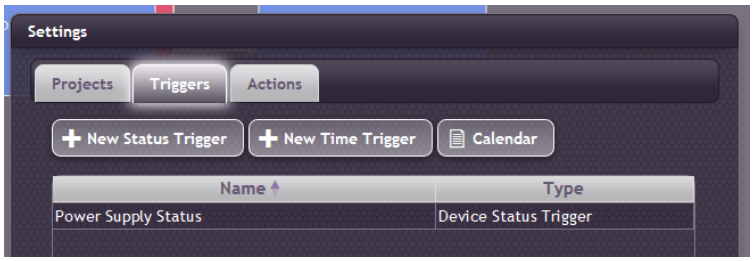
Each project consists of at least 3 distinct blocks:

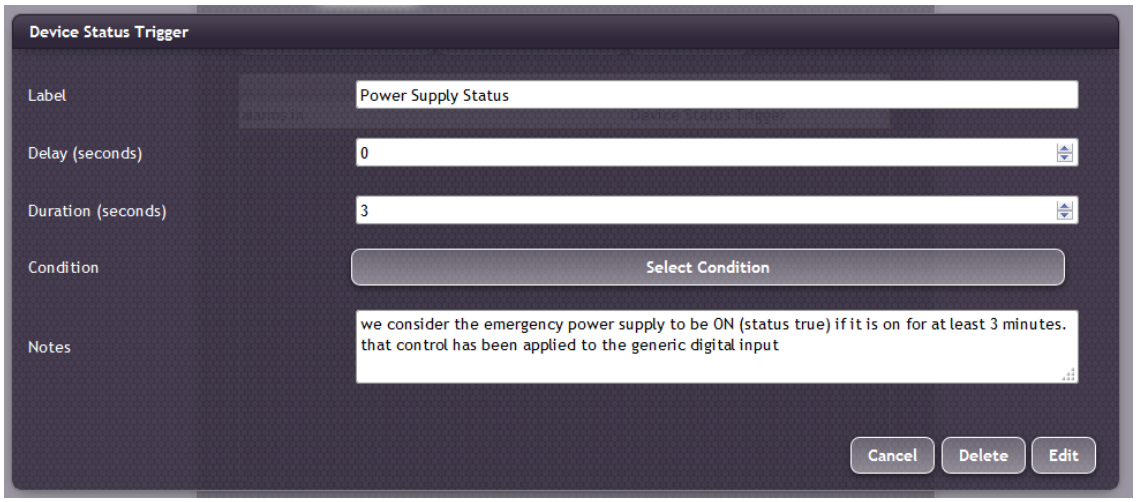
- SDC (source device class) is the set of controllers whose variables (probe values, operating state, etc...) constitute the inputs for the supervision project.
- ELS (event logic supervisor) is the functional block that combines the input performed by the SDC with the output, that is to say, the sending of the commands to the supervision project controllers.
- ODC (object device class) is the class of tools involved by the sending of commands

Other blocks can be associated with these functional blocks, e.g. STE (system time event) as well as others that will be added by Dixell during the development of the XWEB5000 project.

SDC BLOCK (SDC -> Trigger - Device Status Trigger)

We will create a SDC that verifies the state of the XJP30D module digital input. When this input is active for at least 3 minutes, the generator is to be considered active.





Enter an appropriate name under "SDC name". From the device type filter, select the tool to be monitored. Go to "activation" and in our example select “Generic digital input”.

If multiple variables and devices are configured for this block, the logic rule constructed by the above parameters corresponds to:

OUTPUT = ((RL ‘Var**A**’-Addr***1***) ACT (RL ‘Var**B**’-Addr***1***)) DL
((RL ‘Var**A**’-Addr***2***) ACT (RL ‘Var**B**’-Addr***2***)) DL
((RL ‘Var**A**’-Addr***3***) ACT (RL ‘Var**B**’-Addr***3***)))

Where
RL = Rever logic (box selected = not)
ACT = Activation logic. AND or OR
DL = Device Logic. AND or OR.
‘Var**A**’-Addr***1*** = Variable**A** of device address ***1.***

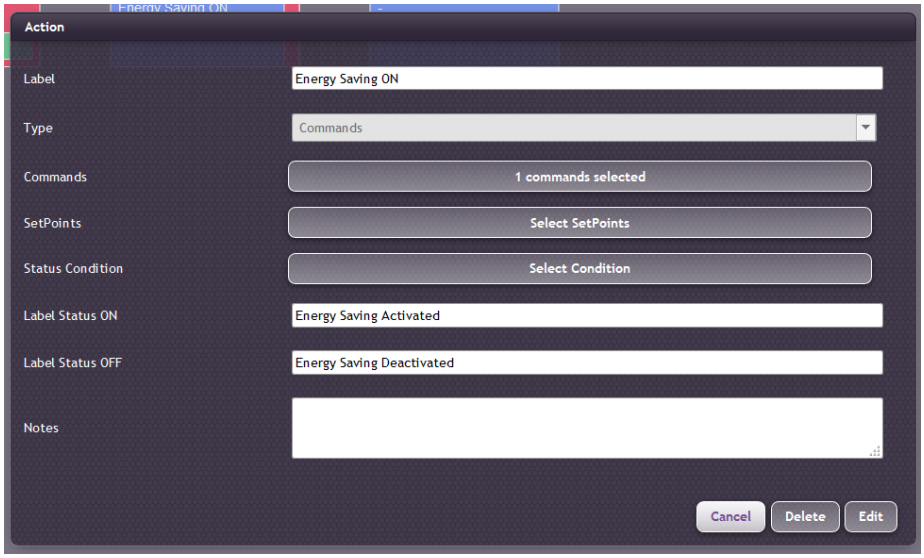
If the control must be executed on numeric values, set the condition (greater, less, equal) and the corresponding threshold value.
The block output results from the above calculation. Value 0 corresponds to status DIS (disable). Value 1 corresponds to status ENA (enabled). These front changes are sent to the next block (ELS), which will then carry out further processing and act by sending commands to the successive blocks.

The ENA status can be activated with a delay, set with parameter DELAY. The above assumed logic continues to always be met and returns the TRUE value. The block status, from the moment in which the logic is met at the end of the delay time, assumes the DLY value.

The ENA status can be maintained with a maximum time set with parameter DURATION. After this time, the block status switches from ENA to DUR.

ODC BLOCK (Action – Commands Action)

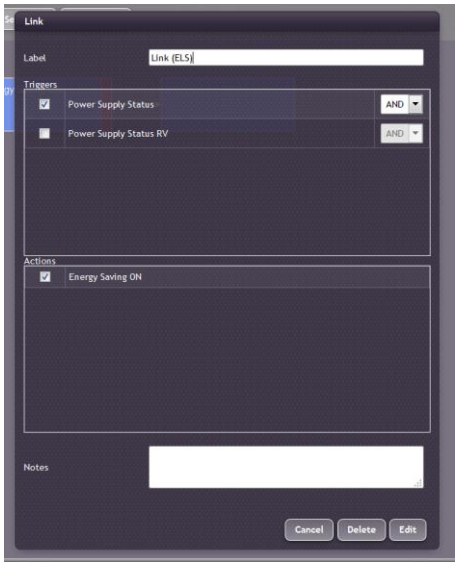
We will create an ODC that sends the reduced set-point command. The normal work set is increased by a few degrees by this command and is sent to 2 walls.
Enter an appropriate name under "ODC name". From the device type filter, select the category to be monitored. Select the tools and go to "available commands". In our example we have activated the “energy saving ON” command.
Fill in the "ODS Active Label" and the "ODS Not Active Label". These labels are used should you decide to assign a "Monitoring type" rule that enables the XWEB-EVO system to recognise the effective sending of the command.



The possibility of entering notes that can be subsequently used to understand the meaning of the logic block being created can be very useful.

ELS BLOCK (Link)

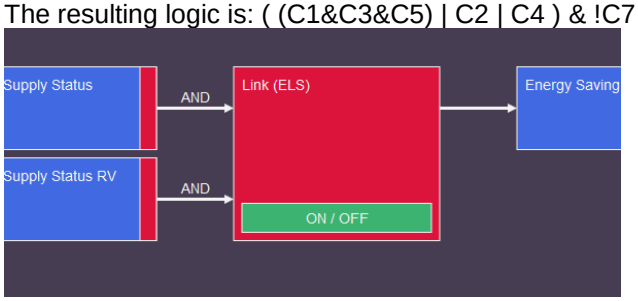
We will create an ELS that ties the two blocks so far realised. The ELS acts as a filter combining the input (generator status) and the output (command sending to utilities).
Enter an appropriate name under "ELS name". This block allows for the linking of the SDCs to the ODSs.
The user can create multiple functional blocks, linking only those used for the project in question. The other blocks can be used in other projects.



This block can be configured with multiple inputs, such as SDC and/or STE blocks. A logic group can be associated with each of these: AND/OR/DIS. The rule that is executed is (∑And | ∑Or) & ∑!Dis where
And=AND logic of all parameters in AND;
Or=OR logic of all parameters in OR;
Dis=NOT logic of all parameters in DIS.
Example with C=Condition of Input (SDC/STE):

C1 AND
C2 OR
C3 AND
C4 OR
C5 AND
C6 DIS
C7 DIS

The resulting logic is: ((C1&C3&C5) | C2 | C4) & !C7 & !C6



The logic configured for each input is shown on the project screen as a label on the same inputs. As illustrated in the above image.

Complete project

The complete project is displayed by means of the macroblocks:

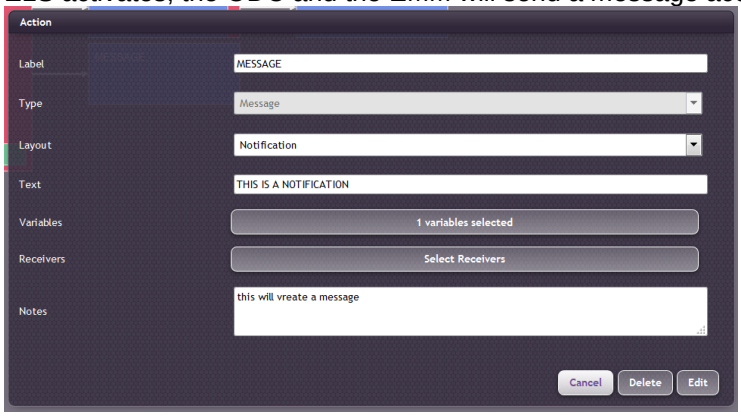
Press "Note" on all blocks to view what is written during the block realisation phase.
Press "On/Off" on ELM block to enable/disable the block execution.
Right click with the mouse on all blocks to modify the selected block. Or duplicate it.

STE BLOCK (Trigger – Time Trigger)

This logic block allows for the management of the timed events. It is a programmable filter, the status of which can be added to the project and linked to the ELS block. It is useful to set night/day filters or hourly filters.
When the input conditions (from the SDC block) occur, the system also checks the STE status. In view of this verification, ELS is activated. Should this occur in vice-versa the event in ODC will not run.
The STE blocks correspond to the "classes" configured in "Supervision Time Event". Access from menu “Tools→Manage Supervision Time Event (STE)”.

EMM BLOCK (Action – Message Action)

The EMM block can receive alarms or notifications
With the EMM block you can receive alarms or notifications regarding the status of the active supervising programs.
The list of receivers depends on the receiver book filled in the ALARM configuration. The message text is the content of the fax/mail that you intend to send. The EMM also report information regarding the status of the controller that will usually correspond to the controller modified by the ODC action or the SDC enabling condition. The EMM block will be added after the ELS. This means that once the SDC is enabled and the ELS activates, the ODC and the EMM will send a message according to the setting selected.

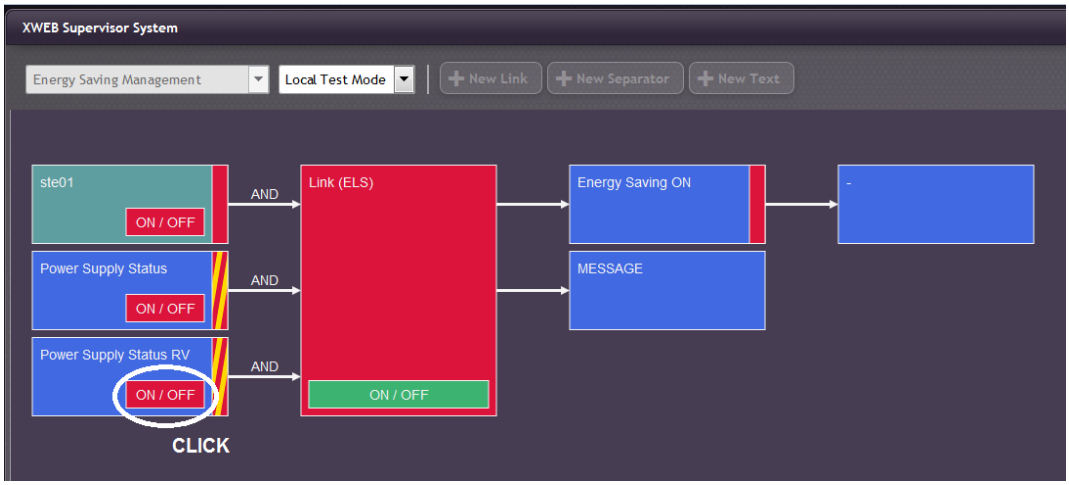


PROJECT SIMULATION

Once the project is realised, it can be partially or totally simulated before being considered definitive. There are 3 types of simulation: Local test, on-field Simulation and Runtime mode.

LOCAL TEST

This mode is useful when a rough idea of what happens when varying the status of the inputs is necessary. Access the menu "Tools" and then "Local test".
When this mode is selected, the system removes the ODS block as the simulation does NOT provide for the sending of any command - neither written nor read - to the tools.
The status of the SDCs can be forced by clicking their status. A block which in turn activates the ELS. The chain interrupts on block ODC, which simulates the command sending but does not in fact realise it.



In the above image, we clicked on the SDC block when in status DIS: block enabling activates block ELS which then turns red. And the ODC block sends a false command.
Select "Modification mode" from the "Tools" menu to return to modification mode.

ON-FIELD SIMULATION

The input statuses can be forced through means of this test in order to produce and verify the sending of the commands to the utilities. Pay attention to the fact that this test sends commands to the utilities, it is not a simulation, however the results are real and reflect the system response. To force the inputs statuses, place the mouse pointer on block SDC or STE and right-click to activate the "Disconnected inputs" mode. The user can now force the status of an input by left-clicking the mouse on the corresponding item "ENA" (enabled) or "DIS" (disabled). Based on the programming performed, the ELS block will pass the command sending the request to the next ODC. Be careful when exiting the on-field test mode, the system returns to the previous project conditions and sends commands to utilities, if necessary. Therefore, consider the potential sending of additional commands before abandoning the project.

RUNTIME MODE

This mode allows the user to verify, in real time, the status of the system operation following the execution of a supervision project. The user cannot, in any way, interact with the project. ATTENTION: each time runtime mode is engaged, the system is put into its working position which is, at that moment, decided by the SDC status. When runtime mode is deactivated, the system is reset. This may entail the sending of an additional command.

ACTIVATION of projects

The system allows for the simultaneous execution of multiple projects, the user must then decide which to activate. From the menu "Projects", "Project activation", select the project to be activated via the appropriate check box.

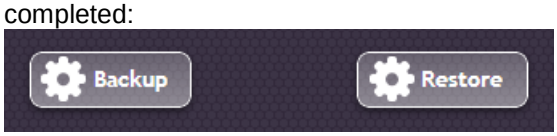
VISUAL FEEDBACK

Once the supervision program is running, it provides the user with important information in graphic form. The following table summarises the possible work situations.

valore/colore	descrizione
Red	Not Active
Green	Active
Yellow	Trigger on duration
Orange	Trigger on delay
Yellow+Red	Unknown Status or Error

3.5.6 BACKUP/RESTORE

This procedure allows the user to save the system data and/or restore it if required. It is possible to create a backup on the XWEB memory or on the hard disc of the client's PC as well as on storage devices connected via USB. Attention: the USB devices used for restore-backup, must only be inserted before starting such procedures and disconnected when these have been completed. The restore procedure overwrites data memorised on the XWEB. This means that restoring a backup returns the XWEB status to that present on the date when the backup was performed. When clicking on the icon, the user must select which type of operation is to be completed:

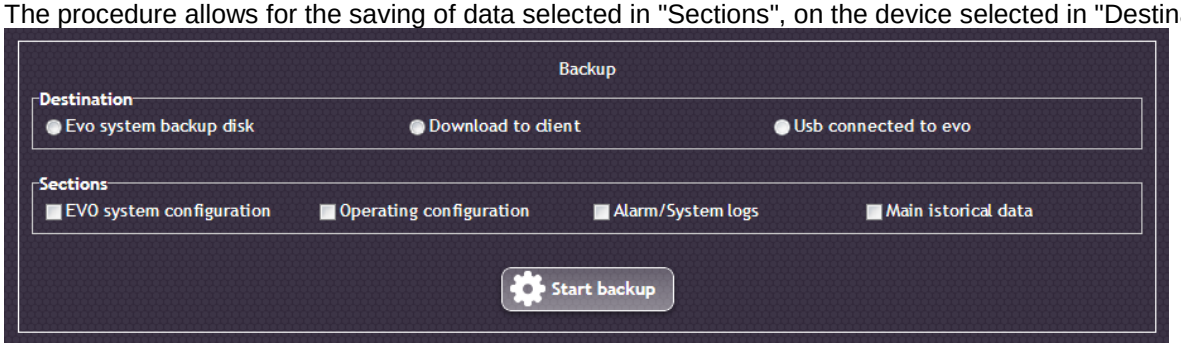


The backup and restore procedures can be run on partial xweb data, such as:

- EVO system configuration. Basic configuration of XWEB machine
- Operating configuration. Configuration of controllers, Alarms, Scheduler, other
- Alarm/System logs.
- Main historical data.

Backup

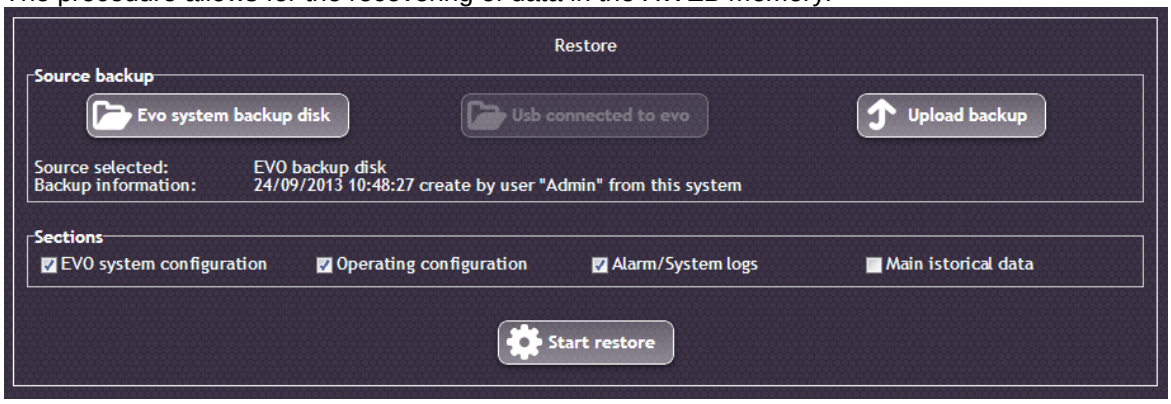
The procedure allows for the saving of data selected in "Sections", on the device selected in "Destination".



The most thorough backup is run by selecting all items in "Sections". Press "Start backup" to complete the operation.

Restore

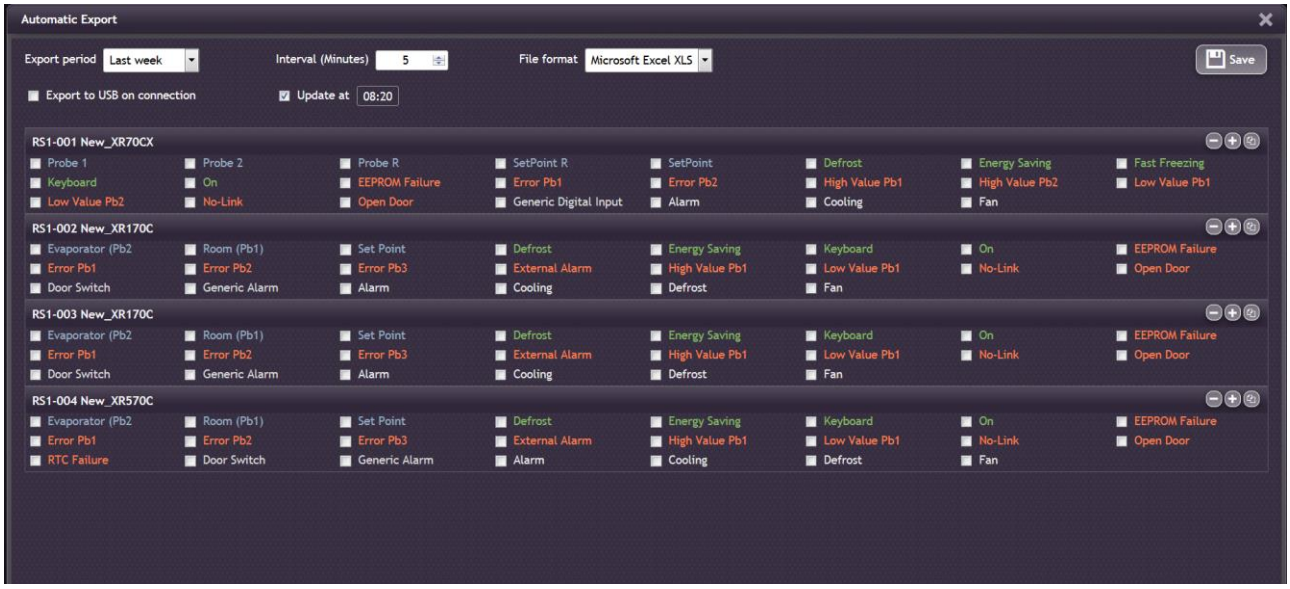
The procedure allows for the recovering of data in the XWEB memory.



The user must select the backup data source to be restored: The “Evo system backup disk” allows for the uploading of a backup previously run in the XWEB memory; The “Usb connected to evo” enables the recovery of data from the USB device and “Upload backup” allows for the remote uploading of a backup with the browser.
Once the data source has been selected, select the data to be recovered from "Section". Press "Start restore" to complete the operation.

3.5.7 DAILY EXPORT

This procedure allows for the configuring of the XWEB so that it creates a new datalog file on a daily basis that can always be recovered from an external server with an HTTP call and/or saved to USB KEY.



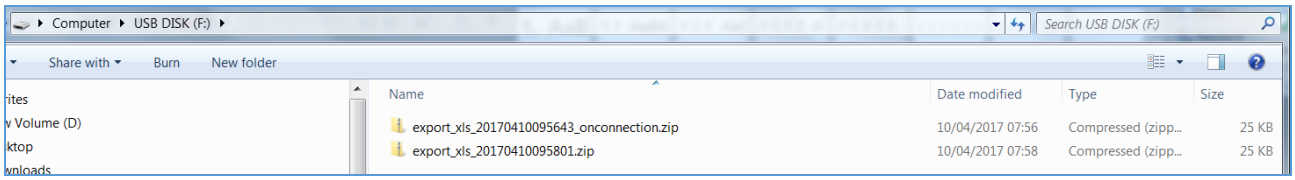
The user must indicate:
- the variables you want the historian. Select them by clicking the mouse or using the 'clone' button to copy the configuration of the selected variables on instruments of the same type
- enable the service
- or on demand. for copying data to the insertion of the USB stick
    1. Export to USB connection: for data copying when USB key is inserted
    2. Update At: il parametro indica il momento in cui nuovi dati sono disponibili sia che vengano preso da chiamata http; lo stesso periodo viene usato per aggiornare eventualmente la memoria della chiavetta USB
- Export period: the start of the data to be exported
- Record interval: filter that identifies the minimum period between the samples that will be exported from - the system
- Format CVS / EXCEL

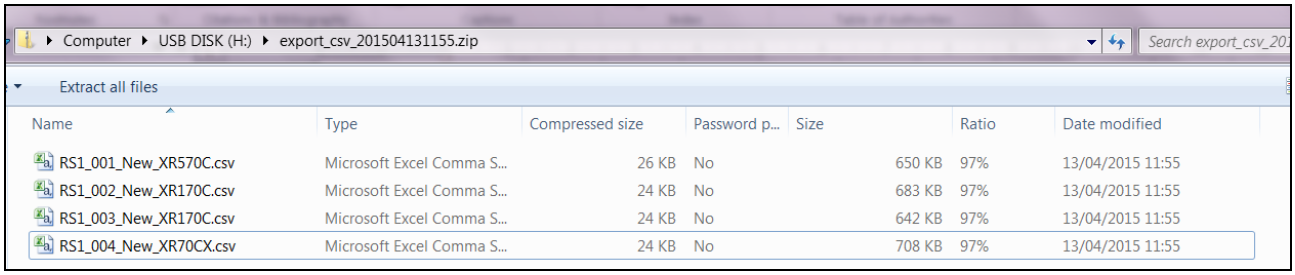
Once configured, the user must confirm by pressing APPLY.

To recover the data: connect with the syntax:
http://IP_EVO/getdailydata?g=1&u=<username>&p=<md5 password>

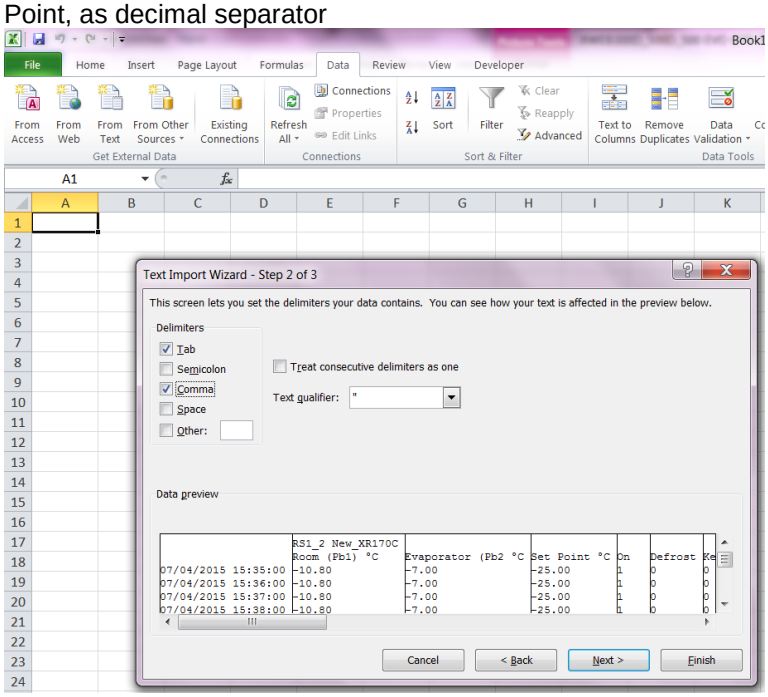
Evo transmits a zip file with the name "export_xls_YYYYMMGGhhmm.zip" or "export_csv_YYYYMMGGhhmm.zip".
For example:
export_xls_201311271234.zip (for xls export)
export_csv_201311271234.zip (for csv export)

In case that you have done the export of USB, the files will be copied to the same as in the image below

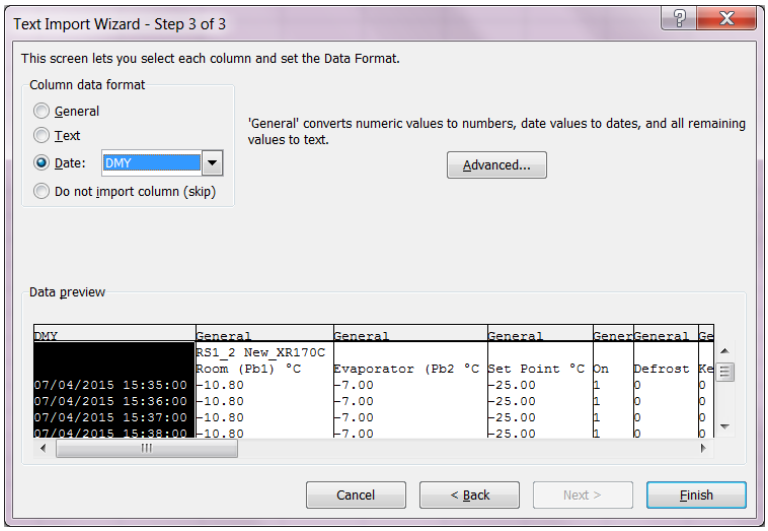




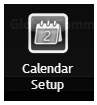
In case the data were exported as a CSV note that the conventions applied are:
- Comma, separator columns
- Point, as decimal separator



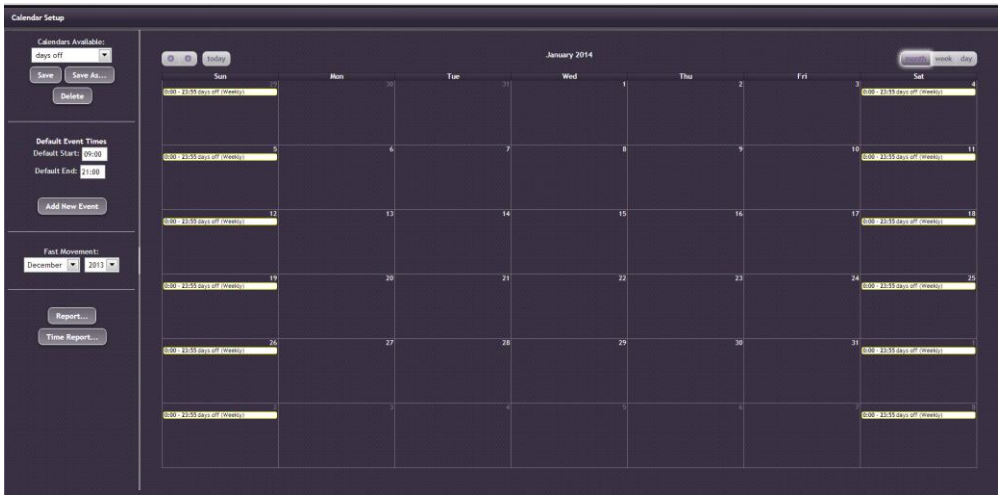
- Day/Month/Year



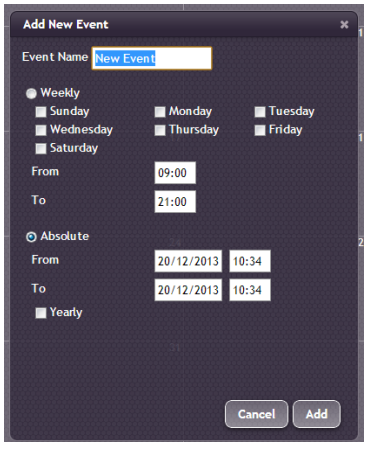
3.5.8 CALENDAR SETUP



Accessing this option allows for the management of the calendars that can be used by the system.



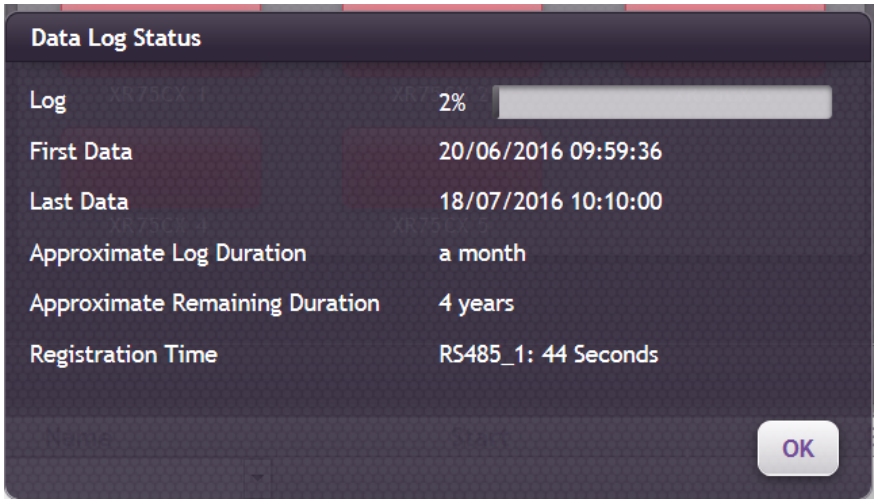
For the selected calendar, the user adds event periods by clicking on the same calendar or on the "Add New Event" key.



The user must set the period name and interval as well as the period.

3.5.9 DATA LOG STATUS

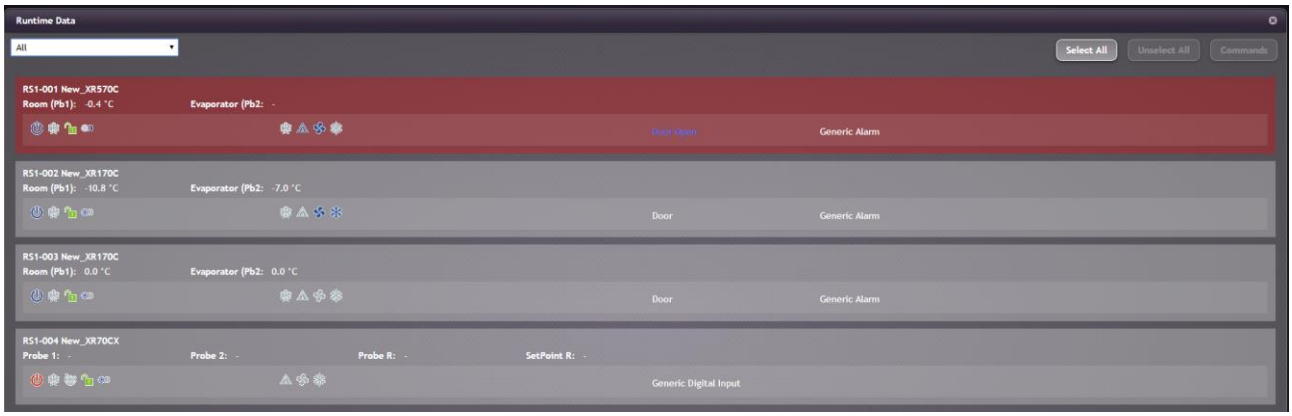
Access to this option allows you to monitor the amount of data stored in XWEB



a. Log: memory used
b. First Date: date oldest sample recorded in permanent memory
c. Last Date: date most recent sample recorded in permanent memory
d. Approximate Log Duration: approximate date when the oldest data will be deleted
e. Approximate Remaining Duration: approximate date when the oldest data will be deleted. The display can vary over time depending on the use of XWEB and is calculated based on the total memory of XWEB and consummate
f. Registration Time: sampling time (polling) on the serial.

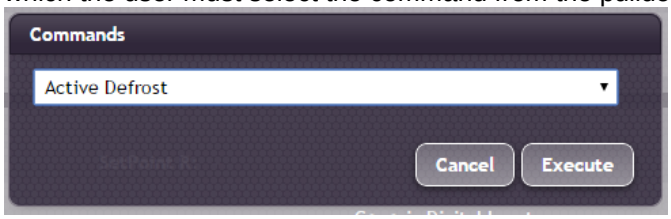
3.5.10 RUNTIME DATA

Access to this option allows you to monitor the overall status of the system. The selection the user has to select the group of tools which want to monitor the status, from the drop-down menu in the top left corner.



The devices in alarm have a red background, as the first image above.
From this window you can also send commands to the selected instruments. To select just click on their area and selected when an arrow to the left of the device is presented as in the image below.

On selected instruments you can send the command from the button 'Commands' at the top right. From which the user must select the command from the pulldown menu.



If more tools have been selected, the curtain will populate the only controls that are common to all instruments.

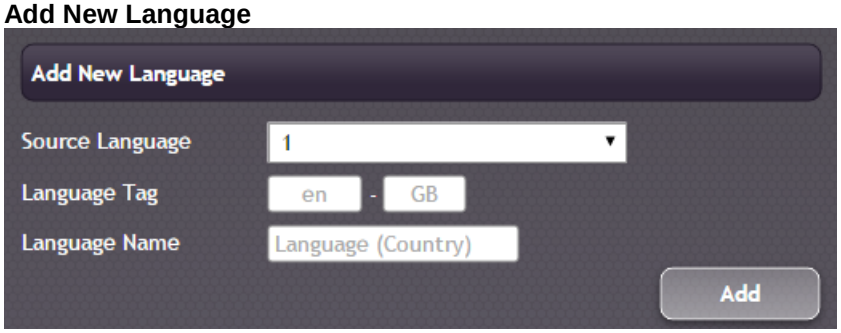
3.5.11 LANGUAGES MANAGER

Access to the panel of language management allows the user to manage the languages that are managed in the system. Factory system presents the user with the following languages:

1. English
2. Italian
3. Spanish
4. German
5. Portuguese (Brasil)
6. Russian
7. Turkish
8. French
9. Polish

Other languages can be added / removed and the translations are handled with Excel files.
The system with hardware that mounts software production version 2.0 from the factory, operates a total of up to 10 languages. Additional installed languages can reduce the duration of data storage temperature less than one year.

Add New Language



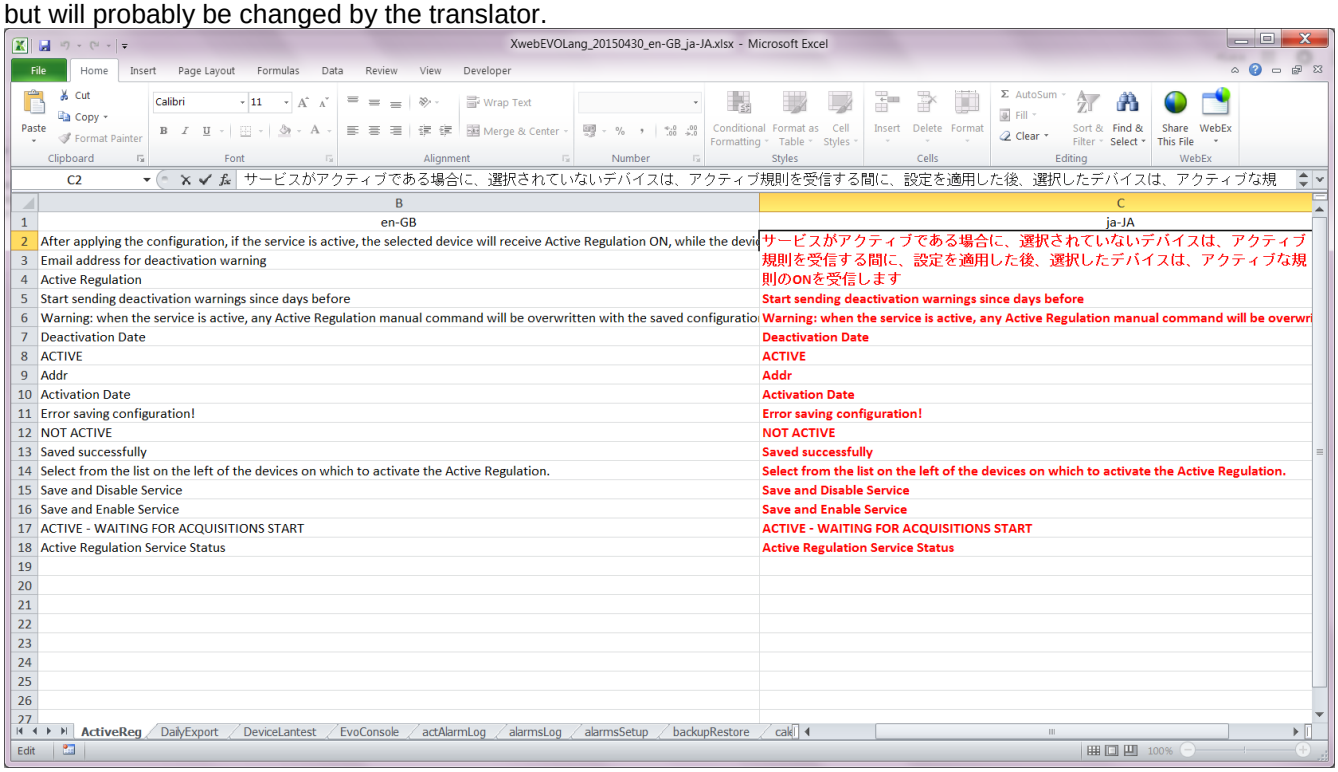
For the addition of a new language specify

1. A language already present in the system to inherit translations
2. Name of the language in format acronym. The box to the left indicates the language and the right side shows the country for the management of the dialect
3. Name of the language in extended format

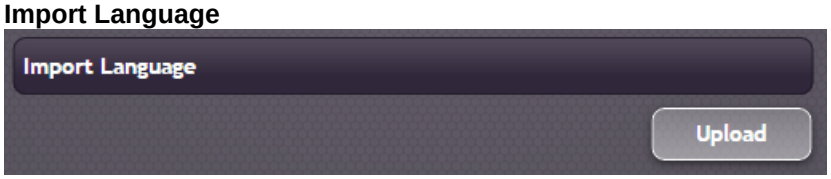
Export Language

Exporting is the preliminary step to the translation. Select
1. The translation of the source language (eg English)
2. The language that you want to do the translation (eg Japanese)

Xweb export an Excel file containing all strings in English and Chinese. Strings in China will not be translated but will probably be changed by the translator.

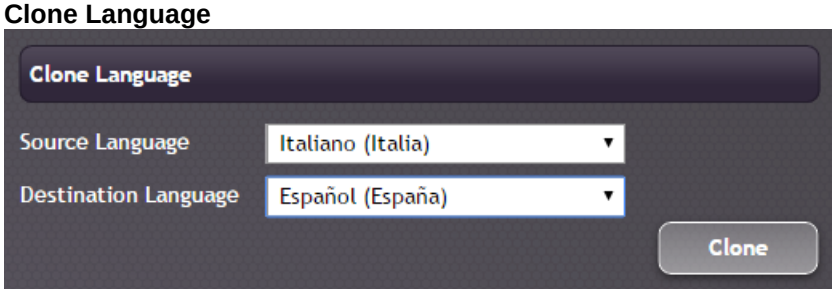


Import Language



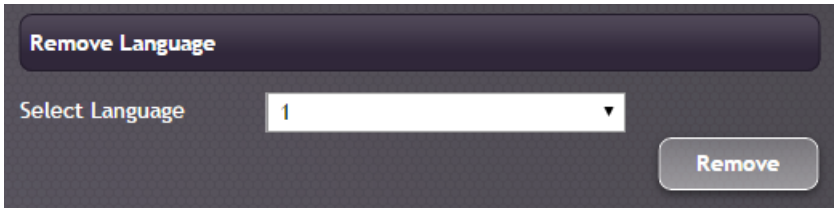
To import the system of translation. The format should be that of the Excel spreadsheet.

Clone Language



To copy the translation from one language to another.

Remove language



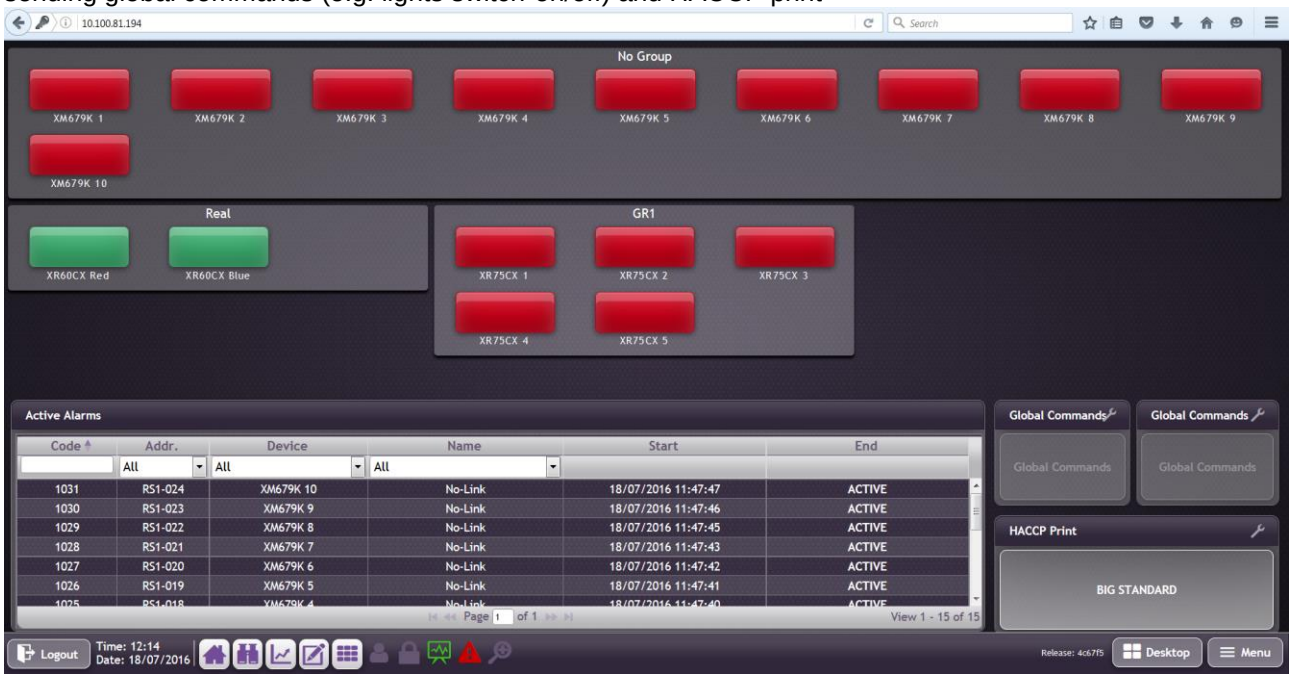
To remove a language.

3.6 DESKTOPS

The desktops represent the main tasks that the XWE-EVO provides its users.

3.6.1 DESKTOP OVERVIEW

The "Overview" desktop is the desktop that appears to the user just after login. This desktop provides the user with an overview of the status of the network tools and allows for the execution of procedures such as sending global commands (e.g. lights switch-on/off) and HACCP print

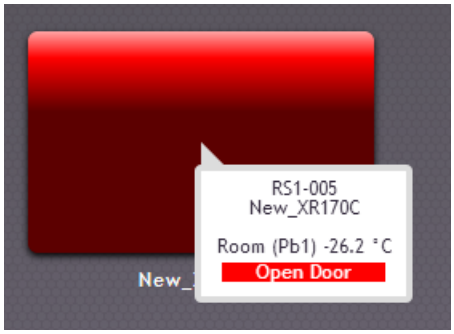


- Setup controllers

Each configured device is represented by a box coloured according to the status of the device itself. The devices are automatically grouped in sections according to the group configuration.

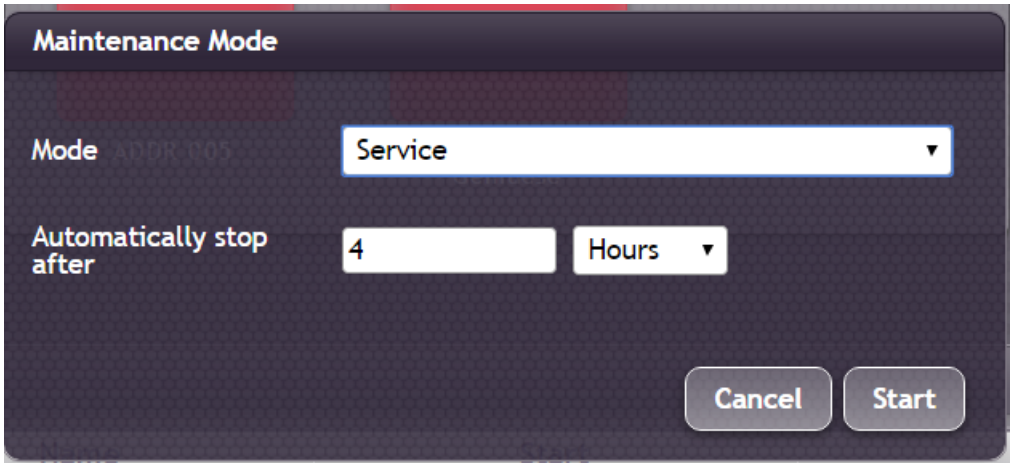
Colour	**Meaning**
Green	No detected alarm
Red	Alarm
White	Acquisitions Off
Orange	No-link status
Gray with orange border	Cleaning or Service, status

Move the mouse cursor over the device of interest. A pop-up opens providing the device name and other information.

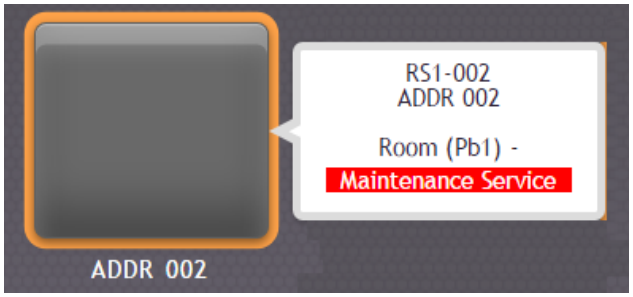


Click on the device box to open the "Device View" desktop which provides the complete details of the device of interest.

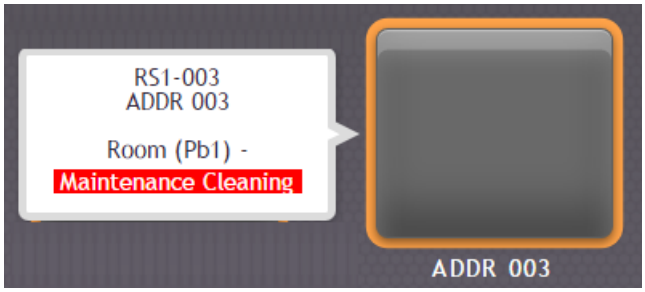
Double click on the affected device box leads to the "Maintenance Mode".



With which the user can set the device in "Service" or "Cleaning" mode for a given period; At the end of which the device will return to be monitored normally. Returning to the normal state can be forced even with a double click on the device; The user will be prompted to confirm that the maintenance state is interrupted. The maintenance status is also interrupted even if the acquisitions are interrupted.



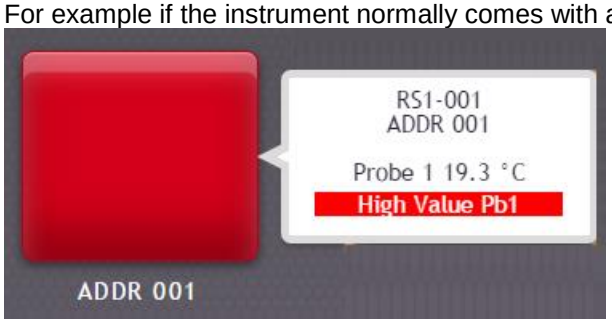
“Service” status



“Cleaning” status

In the maintenance mode each alarm that could generate a connected instrument is ignored. In general, every reading and writing operation on the instrument is inhibited.

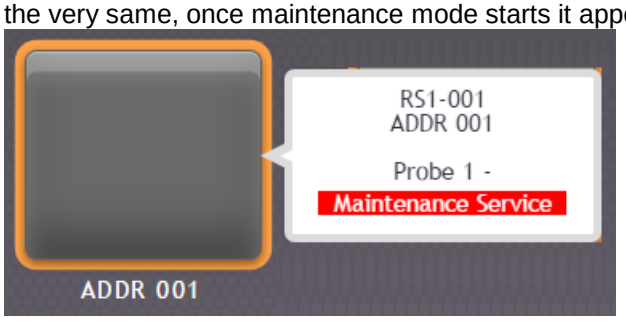
For example if the instrument normally comes with an alarm



Active Alarms

Code	Addr.	Device	Name	Start	End
	All	All	All		
76	RS1-001	ADDR 001	High Value Pb1	28/03/2017 17:13:48	ACTIVE
74	RS1-006	ADDR 006	No-Link	28/03/2017 14:51:19	ACTIVE

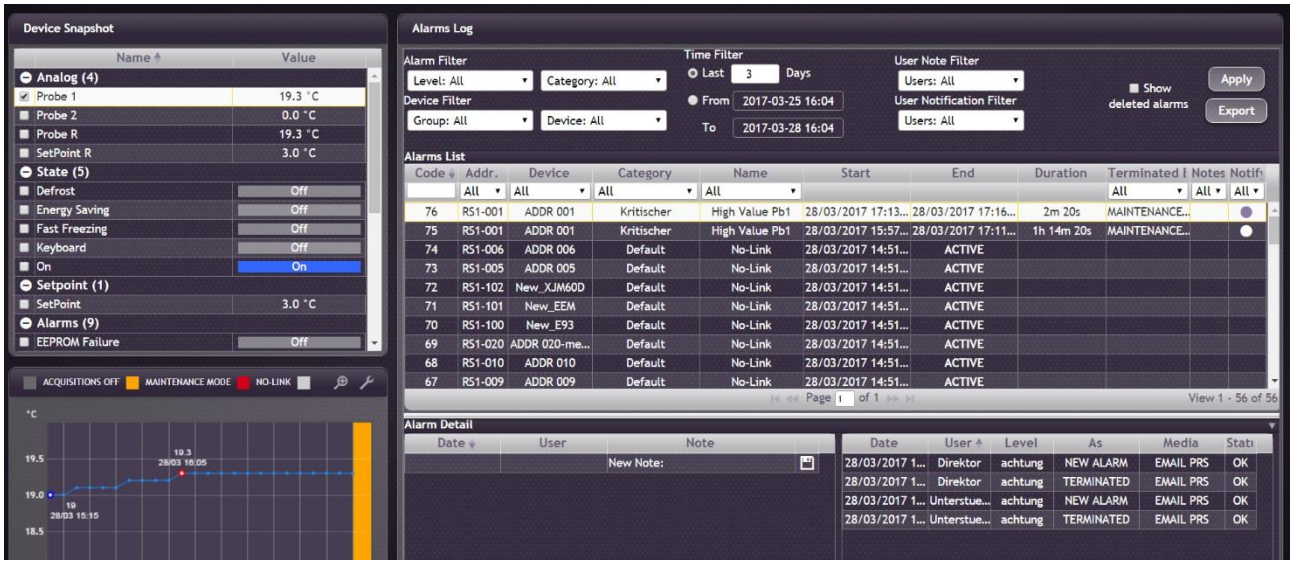
the very same, once maintenance mode starts it appears like



Active Alarms

Code	Addr.	Device	Name	Start	End
	All	All	All		
74	RS1-006	ADDR 006	No-Link	28/03/2017 14:51:19	ACTIVE
73	RS1-005	ADDR 005	No-Link	28/03/2017 14:51:18	ACTIVE
72	RS1-102	New_XJM60D	No-Link	28/03/2017 14:51:17	ACTIVE

← alarm terminated

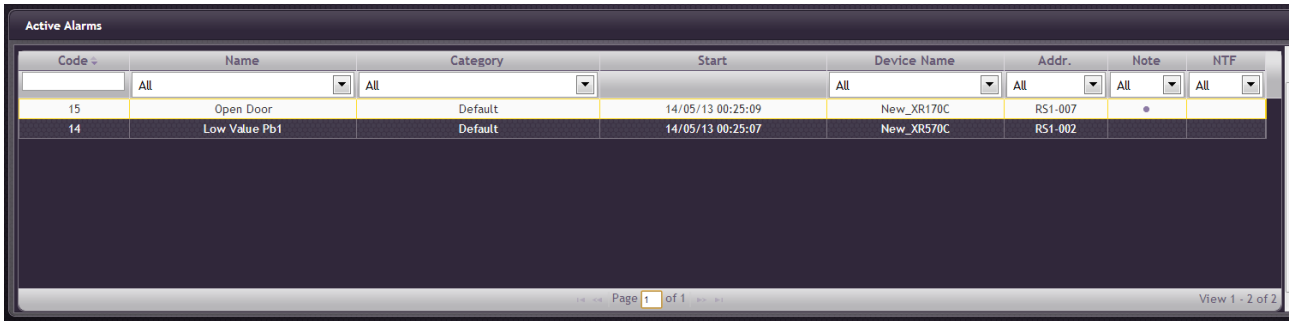


← The alarm has stopped due to the input in maintenance mode

- Active alarms table

The "Active Alarms" section represents the list of active alarms, in real time, relating to the configured controls.

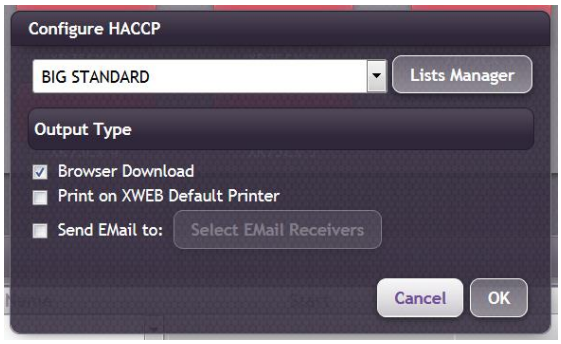
The list of alarms can use filters, visible and configurable, on the first line of the table.



- HACCP Print Configuration (ONLY FOR 500/3000/5000 MODELS)

The “HACCP Print” key must be configured before being able to execute printing operations. Therefore, the user performing the configuration must access the configuration menu by clicking on the wrench icon as demonstrated below.

After clicking on the configuration button, you will open the configuration window

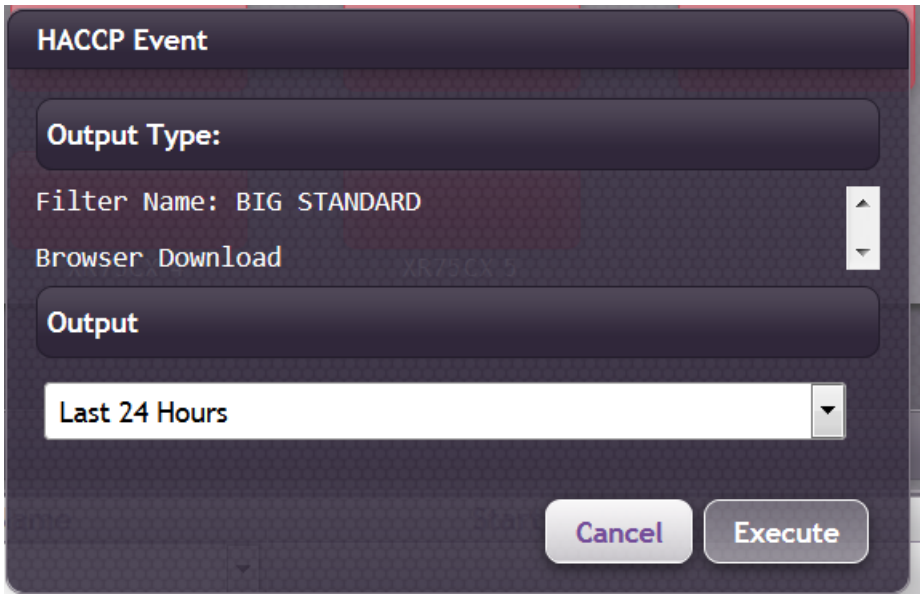


where they will have to indicate the temperature variables, selecting the corresponding HACCP list and type of output

1. download browser: for opening the file in the browser. The browser must have a plug-in for PDF files
2. print on XWEB Default Printer: for printing using the configured printer in the menu→xweb system setup→System Setup→Printers
3. send Email to: for sending emails. A mail server must be configured from the menu→xweb system setup→Email

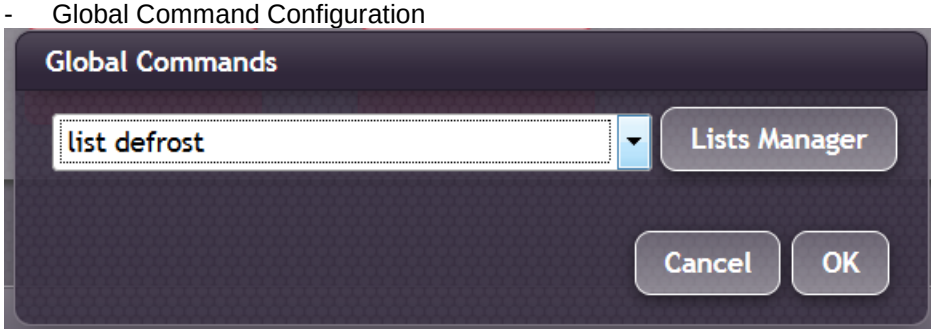
- HACCP Print Execution

The “HACCP Print” key allows for the printing or the sending of the HACCP report. The following window appears when the key is pressed: the user is asked to modify, if necessary, and confirm the period for which the report is required.

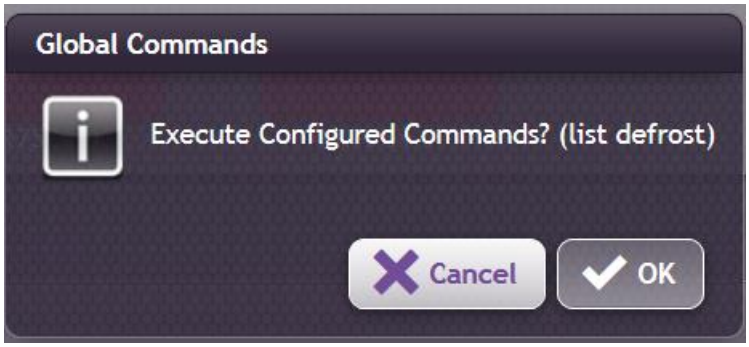


The output type represents a configuration summary of the report.

- Global Command Configuration



- Global Command Execution



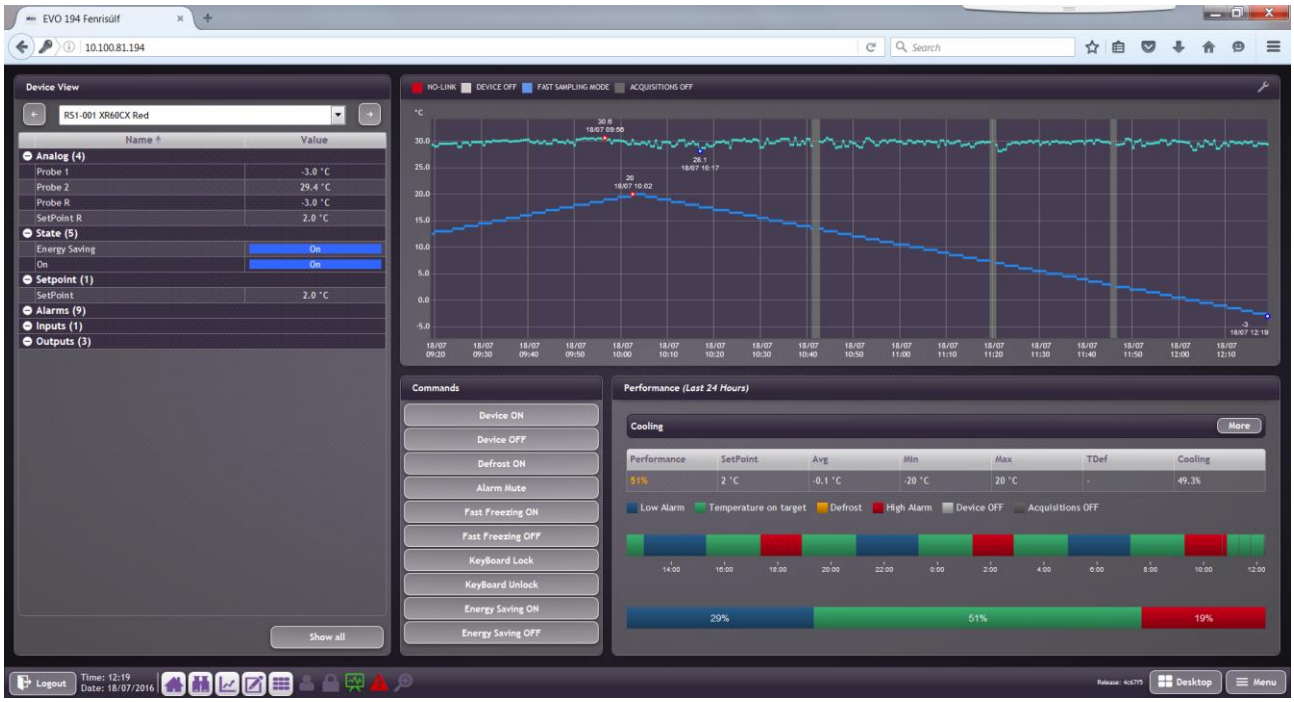
3.6.2 DESKTOP DEVICE VIEW

The "Device View" desktop provides the user with all the resources monitored by the selected device. All variables monitored by the field will be listed, including the

- analogue variables. Set-points and analogue I/O: probe values or from analogue outputs (e.g. output 0-20mA)
- digital variables. Machine statuses, digital I/O, alarms. For example, "stand-by" status, digital input and high temperature alarm.

3.6.2.1 SELECTION OF DEVICE

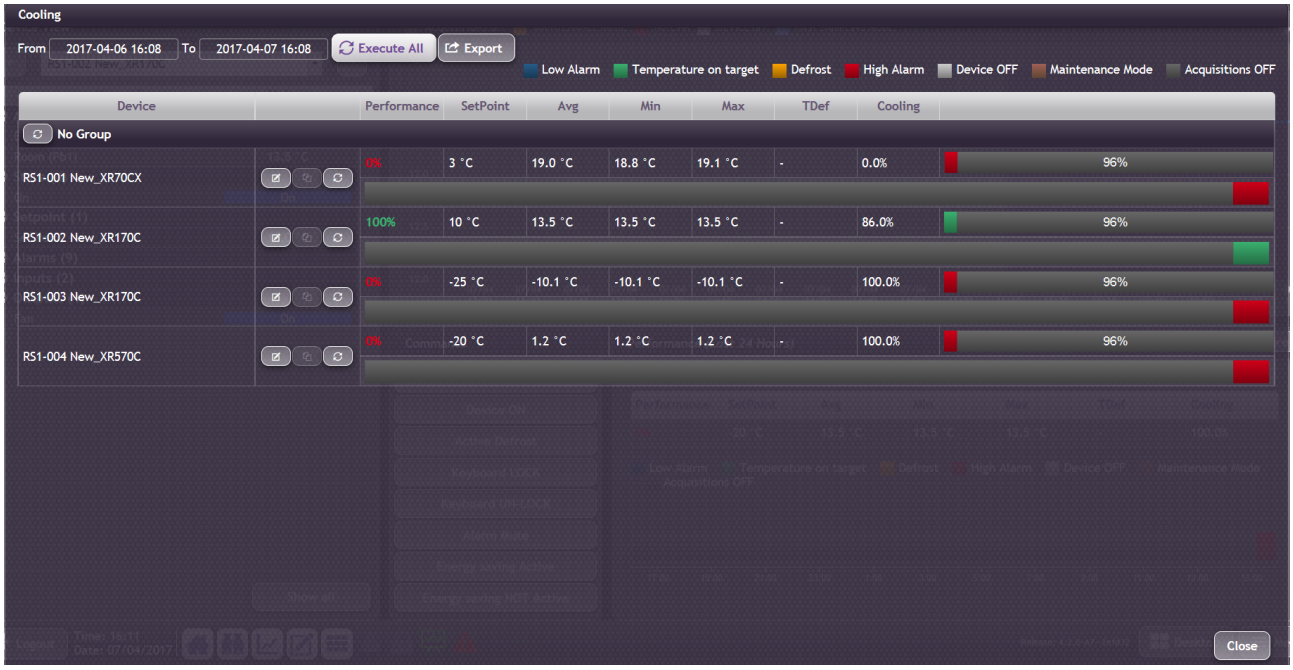
Use the "device category" filter to help choose the device of interest: selecting the category limits the available devices. Then, by selecting the desired device, the page is updated, providing the user with information on that same device. It is also possible to browse the device using the keys “< >”: they are used to navigate to the nearest Modbus address device.



Selecting a device displays:

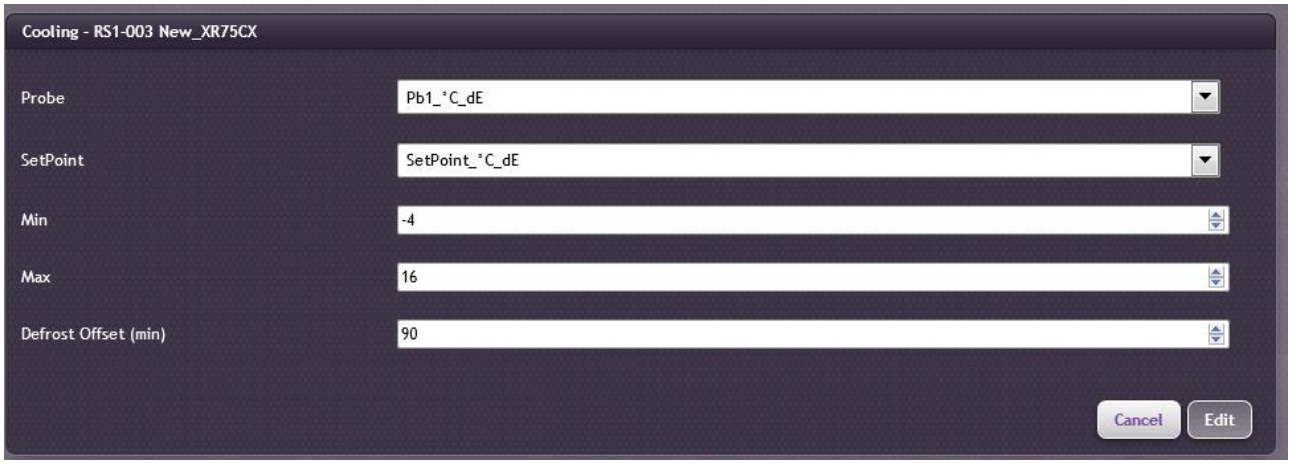
- the variables grouped by group of pertinence (Analogue/Status/Alarm etc..). section "deviceView";
- the graph for the device. section "dataChart";
- the list of available commands per device. section "commandButtons";
- performance meter

Clicking on “MORE” button pops up the window to compare performances for all devices



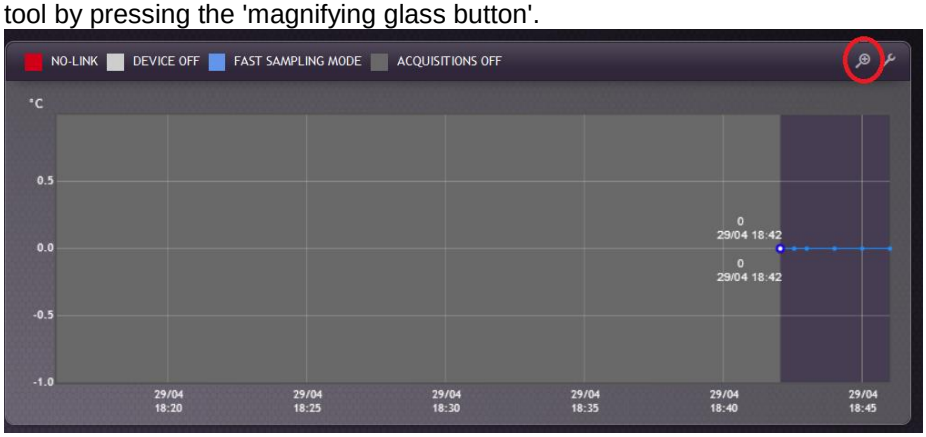
The configuration of the Performance Meter can be automatic when no operation cfg is applied to the instrument. In this case the setpoint variable and probe are automatically detected and the Min and Max values are calculated according to the setpoint value of the instrument. Setpoint min = -10; Max = setpoint +10

.



All page values and relative graphs are updated in real time (on polling time).

The graph in the deviceview page can be rendered with a click on the page dedicated to full-screen graphical tool by pressing the 'magnifying glass button'.



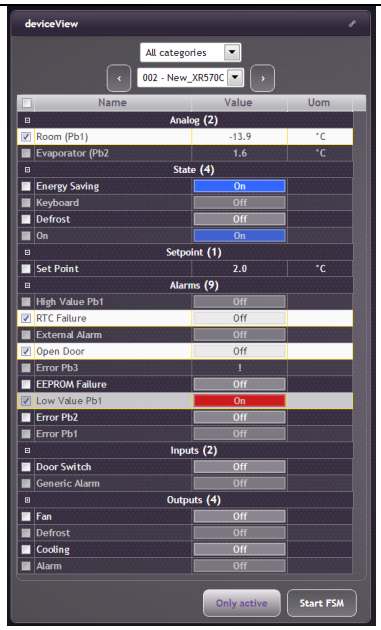
3.6.2.2 VARIABLE DISPLAYING

This section shows, for the chosen device, the list of variables to be monitored and their values in real time. The variables are divided between the sections Analogue, State, Set-point, Alarms, Inputs and Outputs. There are two types of display:

- complete: corresponds to the presence of the key "Only active" 

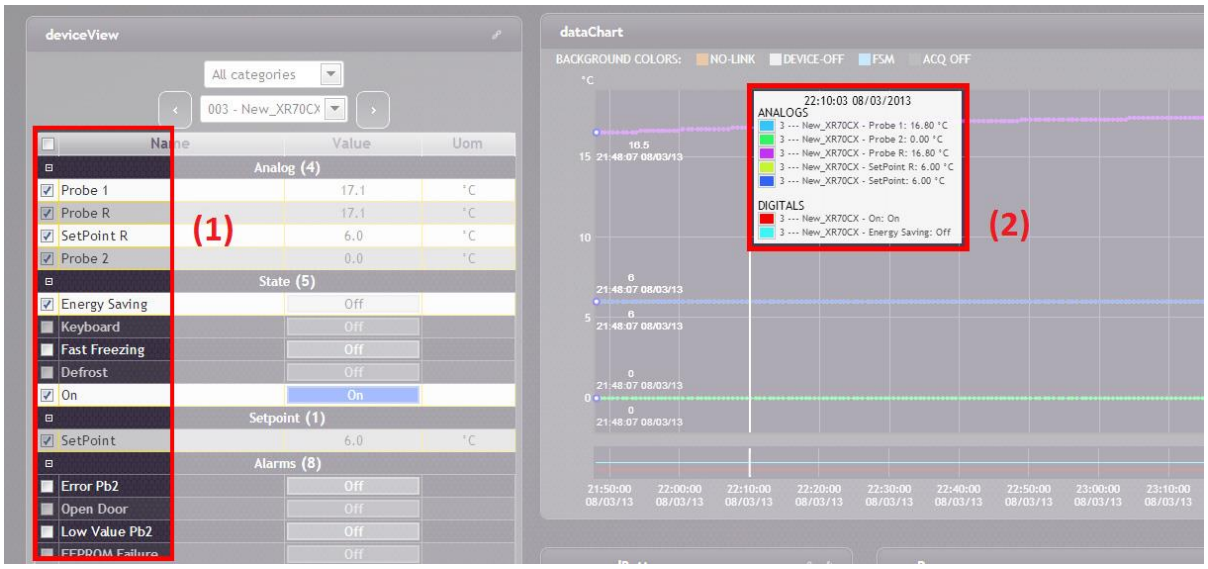
. All device variables are represented.
- reduced: corresponds to the presence of the "Show all" key 

; displaying of the digital variables is limited to those in the "On" status. "On" corresponds to the presence of an alarm for the variables in the "Alarm" section. This mode enables the list to be reduced to show only the variables of interest and facilitate the operator in his/her reading.

Complete	Reduced
	

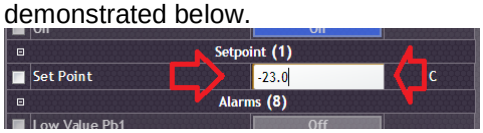
The status is shown in blue On for the digital variables, and in red On for the alarm variables only.

In full view mode, it is possible to select or deselect the variables. The selection of each value allows it to be included in the various page elements, such as in the graph shown below.

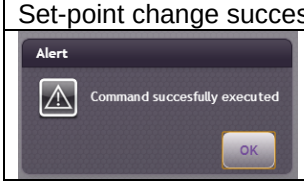
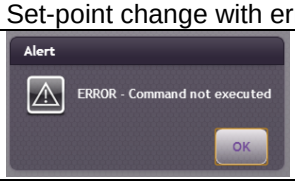


3.6.2.3 MODIFICATION OF SET-POINT

A set-point can be quickly changed by clicking on its value. The box then goes into edit mode, as demonstrated below.



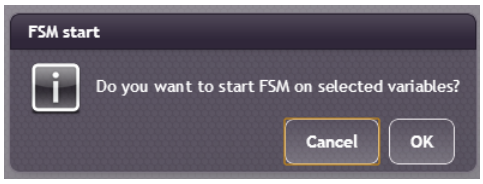
Enter the new set-point value and press "enter" to confirm. Confirmation of the entered value will be requested before commanding that written by the set-point to the controller.
For each written phrase, the user will be notified as to whether or not the operation was carried out successfully.

Set-point change successful	Set-point change with error
	

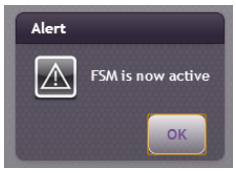
To perform this operation, the page must be in full view mode.

3.6.2.4 START FAST ACQUISITION MODEM (FSM)

The FSM mode aims to perform a high speed selective monitoring of the resources for a set time limited to 10 minutes. This type of monitoring allows the user to run the controller debug and/or of its application, as if the other devices were "disconnected" from the tool network. The delay in the acquisition time of the controller values is at a minimum, the device is read more or less in real time.
Attention: to allow for a higher speed of a controller, the others will be affected. During FSM mode, the sampling time of the other controllers may appear to have increased.
To run the FSM procedure on a controller, firstly, select the variables of interest from the "device view" section and then press "Start FSM"  . When this is pressed, the following message appears requesting confirmation before starting the procedure:



Once confirmed, the user will be warned that the acquisitions have entered in FSM mode for the device.



The FSM mode saves all read samples in the main data archives. All data sampled during FSM mode is marked as such and represented in the graphs by a light-blue background.

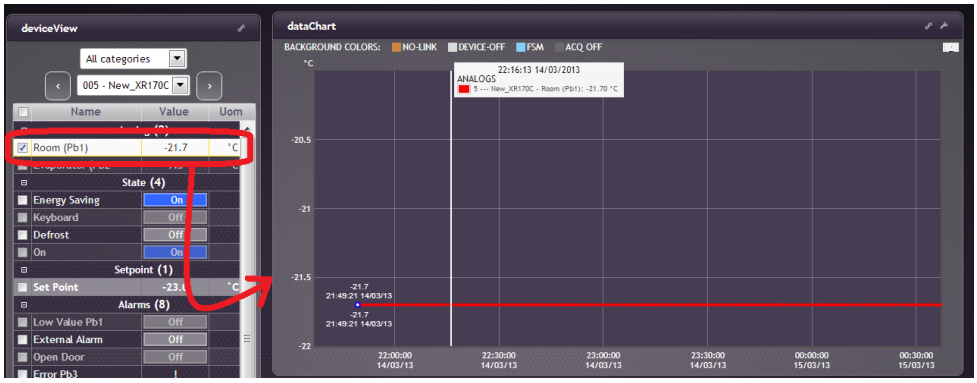
3.6.2.5 SENDING COMMANDS TO THE DEVICE

Commands can be manually sent to the selected device, such as "Device OFF", "Device ON", "Active Defrost", etc., via the "Single view" window. To send the command, press the button as demonstrated below:

Confirmation will be requested after which the user is informed whether or not the command was successfully sent.

3.6.2.6 VARIABLE SECTION FOR REAL TIME GRAPH

The graph in the "single view" desktop is a "real time" graph which, by default, shows the "Pb1" variable of the device. The display interval is that of the last three hours.



In this section the user may also wish to view other variables: to add/remove them from the graph, select the variables from the "device view" section during the full view phase.

The graph can be scrolled with the "flag" cursor using your mouse: the "flag" provides the exact value of the variables on the graph itself.

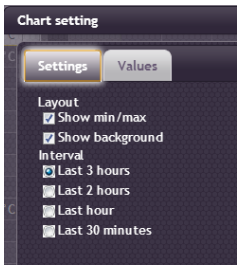
IDENTIFICATION OF THE MINIMUM AND MAXIMUM VALUES IN THE CHARTING PERIOD

They are graphically marked with the coloured dots. The value and date of each of these is also shown.

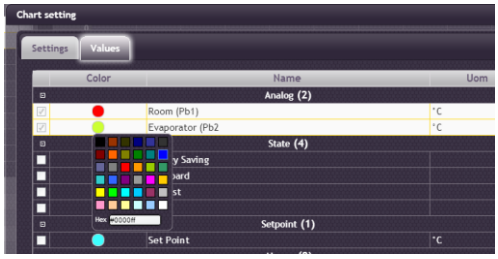
GRAPH OPTIONS

Click on the wrench icon to access the menu:

- Settings: from here, it is possible to change the view interval of the graph itself, and show/hide the minimum/maximum values as well as the background colours



- Values: to modify the colour of the graph variables

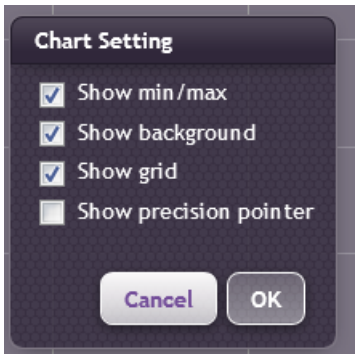


3.6.3 CHART DESKTOP

The "Chart" desktop allows the user to create a graph with the variables monitored by the XWEB. On accessing the desktop for the first time, the window will appear empty. Afterwards, the graph window appears as it did when the user last logged out.

3.6.3.1 GRAPH CONFIGURATION

Click on the wrench (top-right icon on desktop) to access the configuration window.



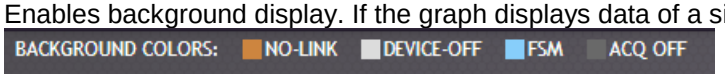
Here, the user must specify the variables and the time to in order to create a graph.
The graph is updated when the display parameters are confirmed.

- *Show min./max.*:

  the enabling of this parameter allows the user to view the minimum and maximum values that are graphically marked with red dots (for maximum) and blue dots (for minimum). Their values with the date are shown nearby. The minimum and maximum values relate to the time period selected for charting and are real values.

- *Show background*:

  Enables background display. If the graph displays data of a single controller, the background colours are

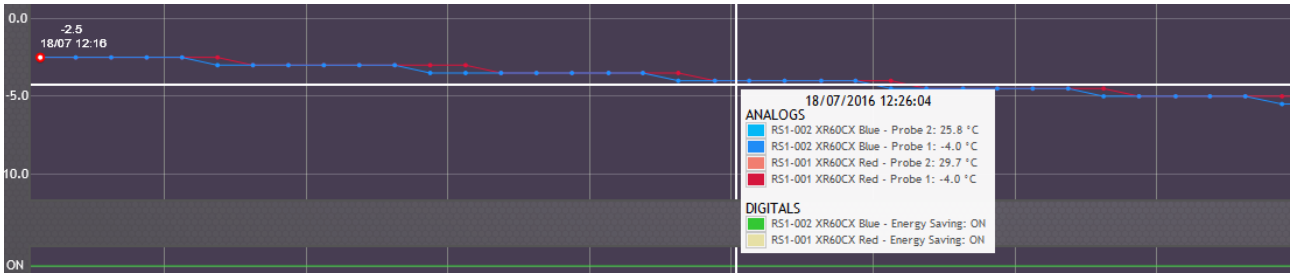


  If the graph shows data from two or more devices, the information provided by the background colours is:

- *Show grid*:

  Show/Hide the grid on the chart

- *Show Precision Pointer*: shows / hides the pointer flag which can move on the Y axis



3.6.3.2 LIST

to load a previously saved graph XWEB configuration. The list is managed by the key "Lists Manager" and "Save" key brings the user the option to save a new list from the current configuration.

3.6.3.3 CHART SOURCE

- *Main*: this option must be enabled if you wish to create a graph using historical data dating back more than two days
- *Circular*: these archives provide records at the maximum speed on the polling round. But are limited to the last two days only. Choose this option if you wish to debug the system from an alarm notification recently received

3.6.3.4 SELECT VARIABLES

On this window you choose the variables that will form the list of those to be graphed. Variables can be related to any tool. The same can also choose the color of each variable representation.

3.6.3.5 READING OF GRAPH

The area of the graph is divided into the following sections:

A) Axis area (blue): the variables are grouped by axis, for example all temperatures in °C will have the adequate axis and consumptions in Watt will also have an axis.

B) Analogue variable graph area (green). All analogue variables, even if relating to different controllers, can be viewed on the same area.

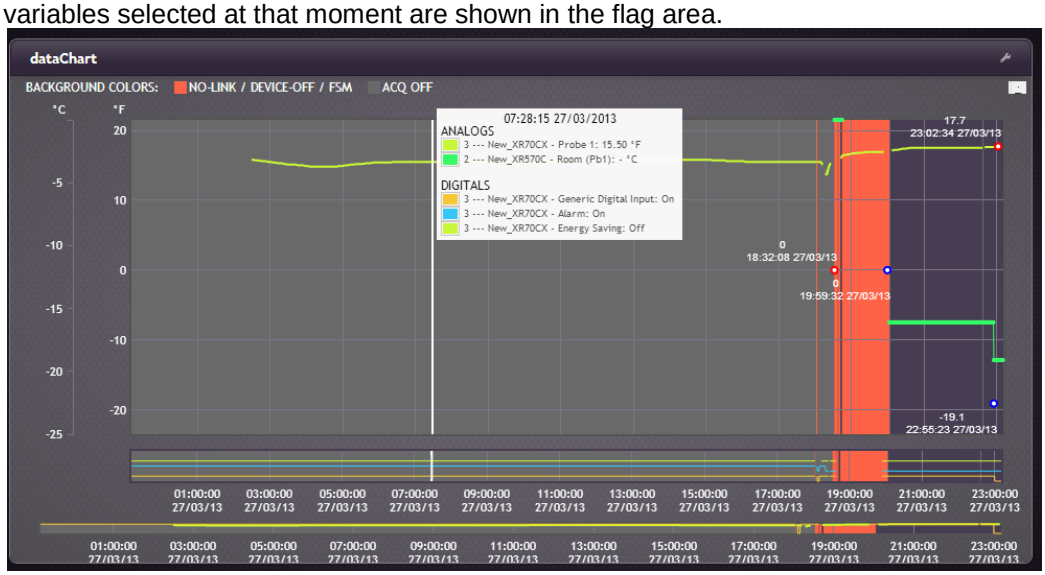
C) Digital variable graph area (purple). All digital variables, even if relating to different controllers, can be viewed on the same area.

D) Graph overview area (orange). This graph represents the graph total requested from the server and does not consider the zoom factor. This graph can be used as reference for its navigation.

Analogue and digital variables are all included in the same graph, even if coming from different devices.

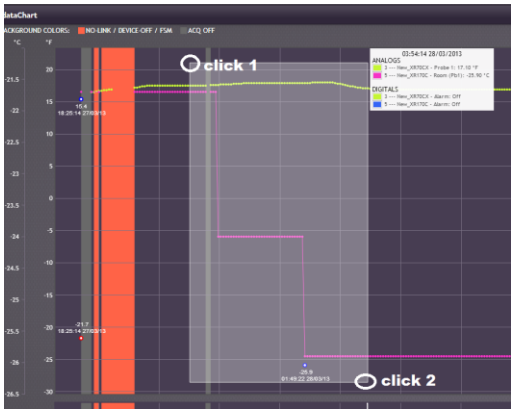
3.6.3.6 READING THE VALUES OF A PARTICULAR MOMENT

Going over the graph with the mouse shows the moving flag cursor, as demonstrated below. The values of the variables selected at that moment are shown in the flag area.



3.6.3.7 ZOOMING-IN ON AREA

To zoom-in on an area of the graph, click and hold the mouse on a point and drag until the desired area to be zoomed-in on is created.



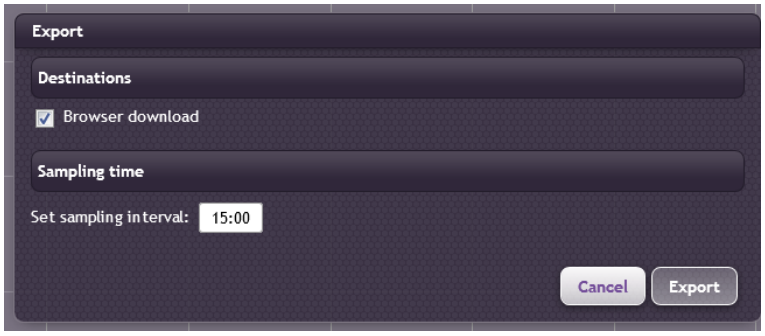
3.6.3.8 ZOOMING-IN ON AREA OF OVERVIEW GRAPH

To zoom-in on an area of the overview graph, click and hold the mouse on the graph and drag to select the desired area.

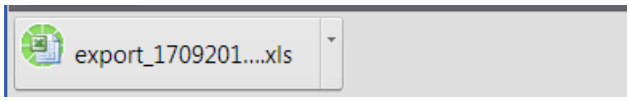
3.6.3.9 DATA EXPORT

The graph data can be exported in Excel(R) format. To access this procedure, press 

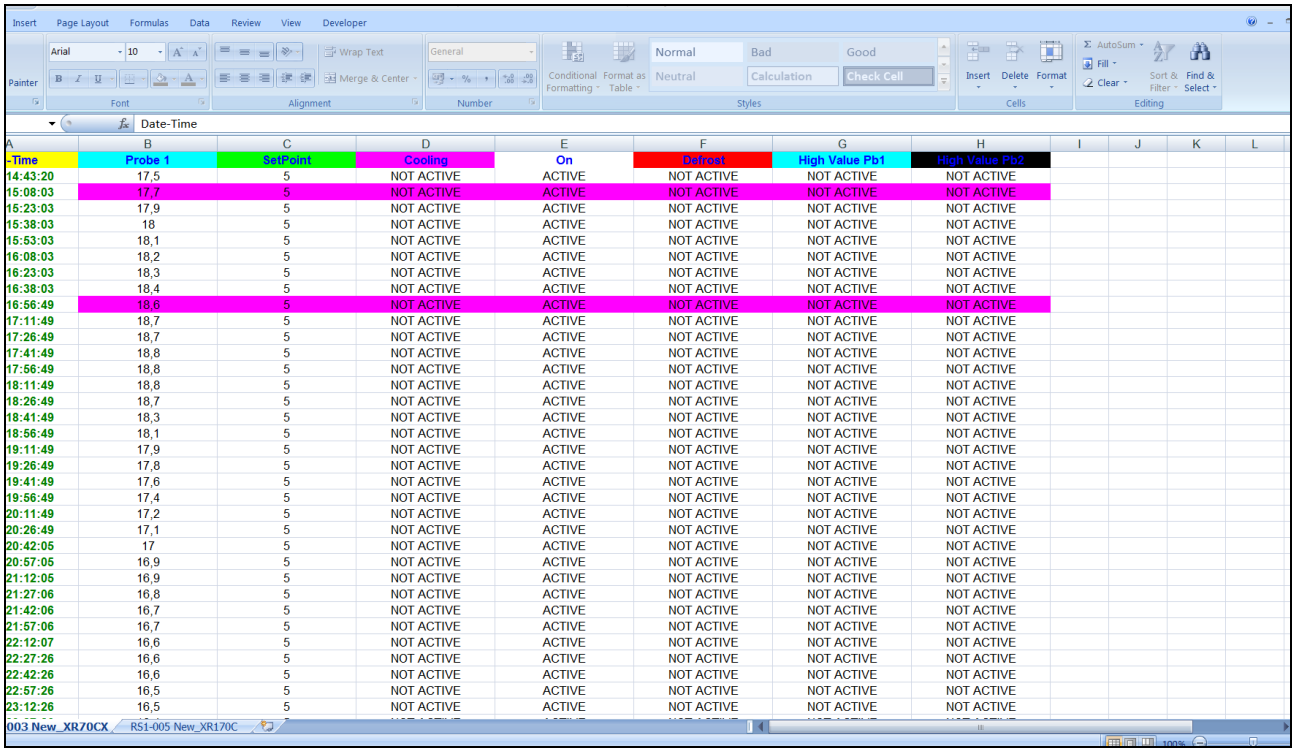
on the graph toolbar.



Upon confirmation by clicking "Ok", the system saves an Excel file on the user's PC.



The content of the file will be similar to that of the following image:



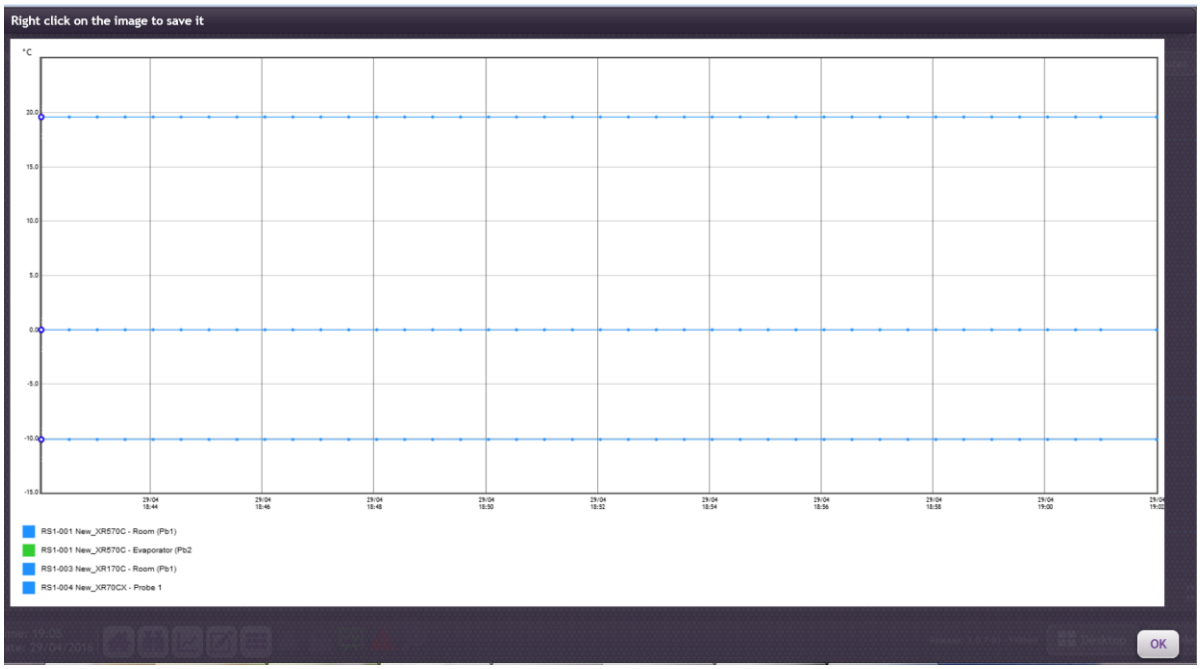
-Time	Probe 1	SetPoint	Cooling	On	Defrost	High Value Pb1	High Value Pb2
14:43:20	17,5	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
15:08:03	17,7	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
15:23:03	17,9	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
15:38:03	18	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
15:53:03	18,1	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
16:08:03	18,2	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
16:23:03	18,3	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
16:38:03	18,4	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
16:56:49	18,6	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
17:11:49	18,7	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
17:26:49	18,7	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
17:41:49	18,8	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
17:56:49	18,8	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
18:11:49	18,8	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
18:26:49	18,7	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
18:41:49	18,3	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
18:56:49	18,1	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
19:11:49	17,9	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
19:26:49	17,8	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
19:41:49	17,6	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
19:56:49	17,4	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
20:11:49	17,2	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
20:26:49	17,1	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
20:42:05	17	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
20:57:05	16,9	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
21:12:05	16,9	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
21:27:06	16,8	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
21:42:06	16,7	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
21:57:06	16,7	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
22:12:07	16,6	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
22:27:26	16,6	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
22:42:26	16,6	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
22:57:26	16,5	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE
23:12:26	16,5	5	NOT ACTIVE	ACTIVE	NOT ACTIVE	NOT ACTIVE	NOT ACTIVE

Cells normally have no background colore, with the exception of:
MAGENTA => Acquisition STOP.
SILVER => Device NoLink.
GREEN => Device OFF
YELLOW => FSM ACTIVE
CYANO => Variable interested to FSM

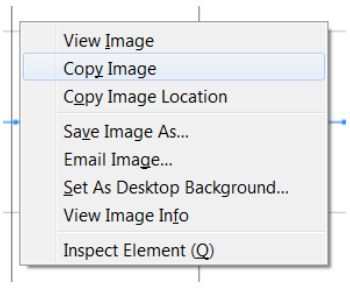
3.6.3.10 CREATE IMAGE PRINTABLE ON PAPER

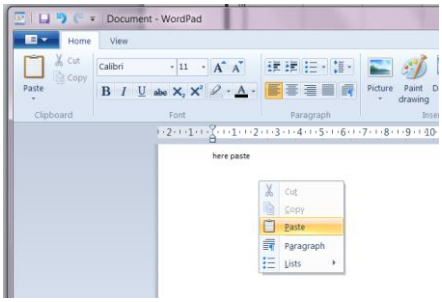
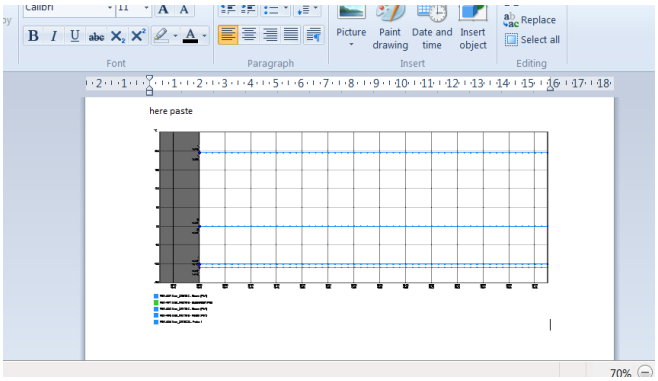
The button 

opens a dialog that contains the image currently displayed in the graphic in a format that can be copied and pasted into a word processing document, suitable to be printed on white paper.



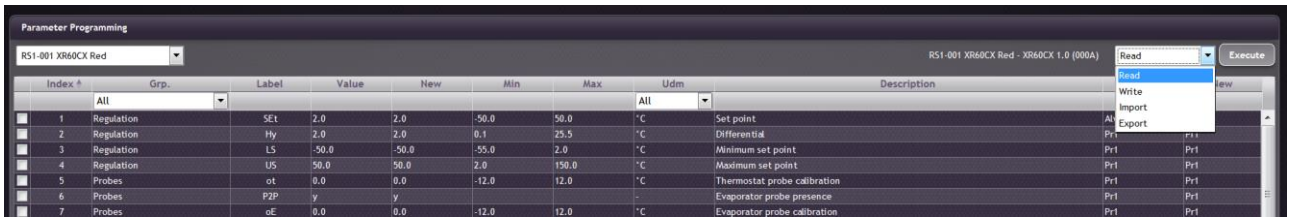
The copy in the computer's memory can usually be performed by clicking the right mouse button over the image..

1. Copy 

2. Paste 
Document - WordPad
Home
View
Paste
Cut
Copy
Calibri
11
Picture
Paint drawing
Clipboard
Font
Paragraph
here paste
Cut
Copy
Paste
Paragraph
Lists

Calibri
11
Picture
Paint drawing
Date and time
Insert object
Replace
Select all
Font
Paragraph
Insert
Editing
here paste
70%

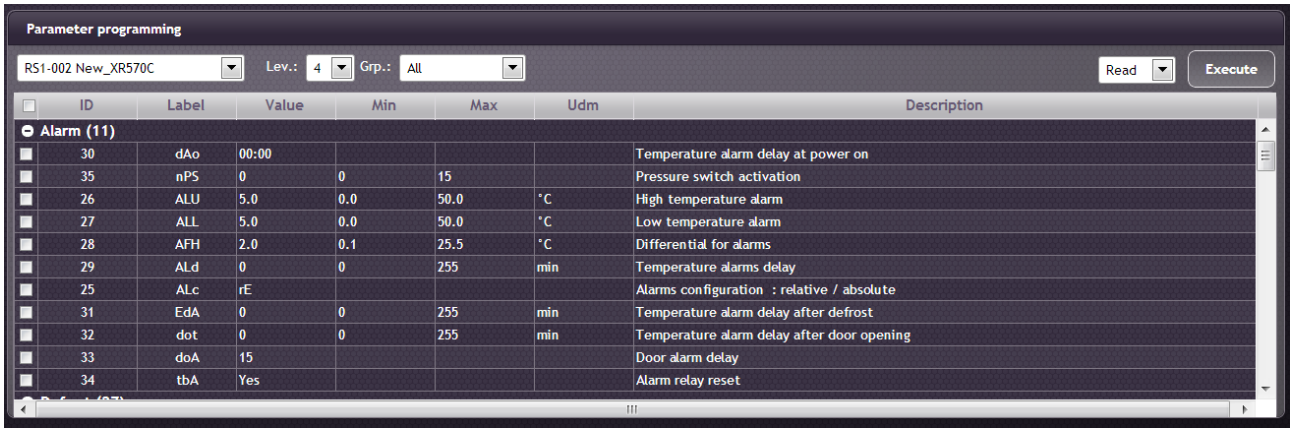
3.6.4 DESKTOP PARAMETERS

The "Parameters" desktop allows the user to read and modify the parameters of the controllers connected to the device network.



3.6.4.1 PARAMETER READING

Select the device of interest and possibly the specific group of interest of the parameters to be read. Select "Read" from the menu on the right-hand side and run "Execute". The page will be updated with the parameter list. Loading depends on the number of parameters and the connection speed.

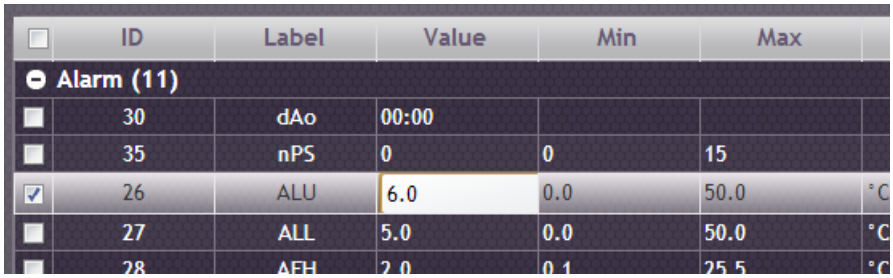


The following columns are defined:

Sel: box for selecting the parameters to be exported.
ID: parameter index
Label: parameter description
Value: current value of parameter
Min./Max.: interval of value admitted for the parameter
Udm: unit of measure
Description: description of parameter function

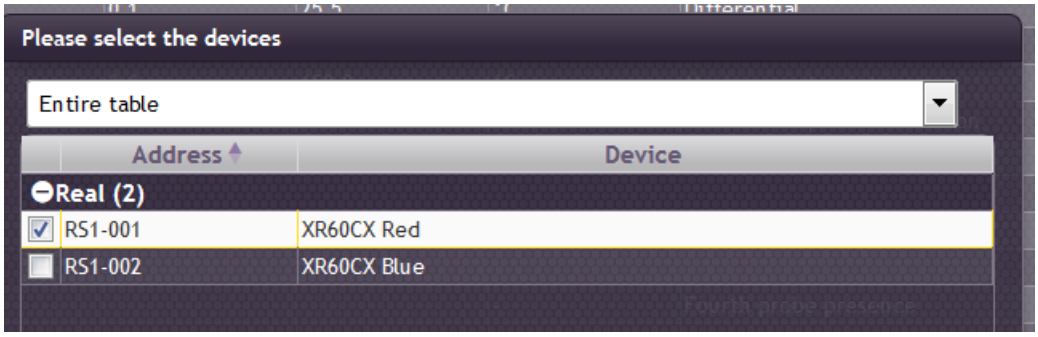
3.6.4.2 PARAMETER WRITING

Select the device of interest and run the parameter reading. Once run, modify the parameter value by accessing the "Value" column.

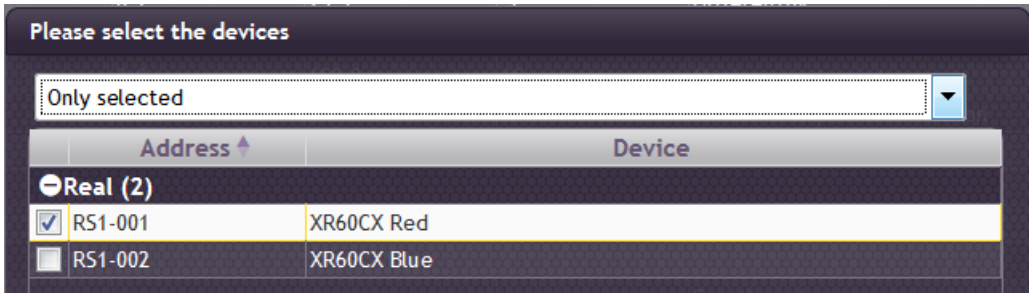


Once all parameters of interest are modified, select "Write" and press "Execute". The XWEB-EVO will open the list of all compatible devices on which you can perform "writing". Select those of interest and press "Ok".

The default option is 'Entire table' but the user can also select the writing of a total subset of parameters if you previously selected with the leftmost checkbox



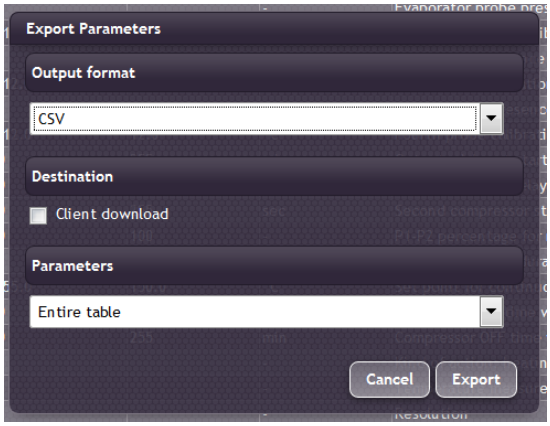
← (entire table)



← (only selected)

3.6.4.3 PARAMETER MAP EXPORT

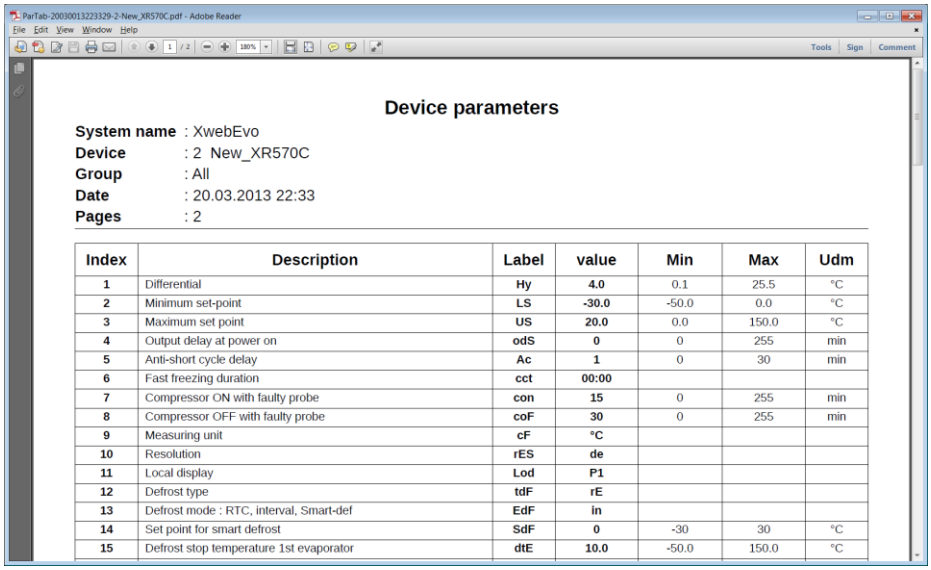
Save the parameter map by making a backup. The parameter map can be saved in the same XWEB-EVO or downloaded to your PC as a ZIP file, through the browser.



Available options are:

a. CSV-file format

b. PDF-file format



Device parameters

System name : XwebEvo
Device : 2 New_XR570C
Group : All
Date : 20.03.2013 22:33
Pages : 2

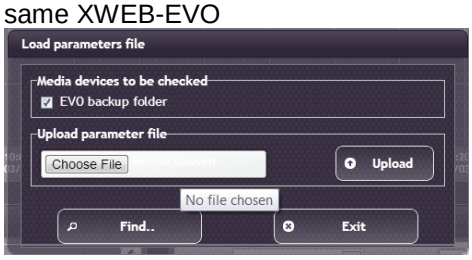
Index	Description	Label	value	Min	Max	Udm
1	Differential	Hy	4.0	0.1	25.5	°C
2	Minimum set-point	LS	-30.0	-50.0	0.0	°C
3	Maximum set point	US	20.0	0.0	150.0	°C
4	Output delay at power on	odS	0	0	255	min
5	Anti-short cycle delay	Ac	1	0	30	min
6	Fast freezing duration	cct	00:00			
7	Compressor ON with faulty probe	con	15	0	255	min
8	Compressor OFF with faulty probe	coF	30	0	255	min
9	Measuring unit	cF	°C			
10	Resolution	rES	de			
11	Local display	Lod	P1			
12	Defrost type	tdF	rE			
13	Defrost mode : RTC, interval, Smart-def	EdF	in			
14	Set point for smart defrost	SdF	0	-30	30	°C
15	Defrost stop temperature 1st evaporator	dtE	10.0	-50.0	150.0	°C

c. XLS-file format

d. WIZMATE (compresso in formato TAR) -file format

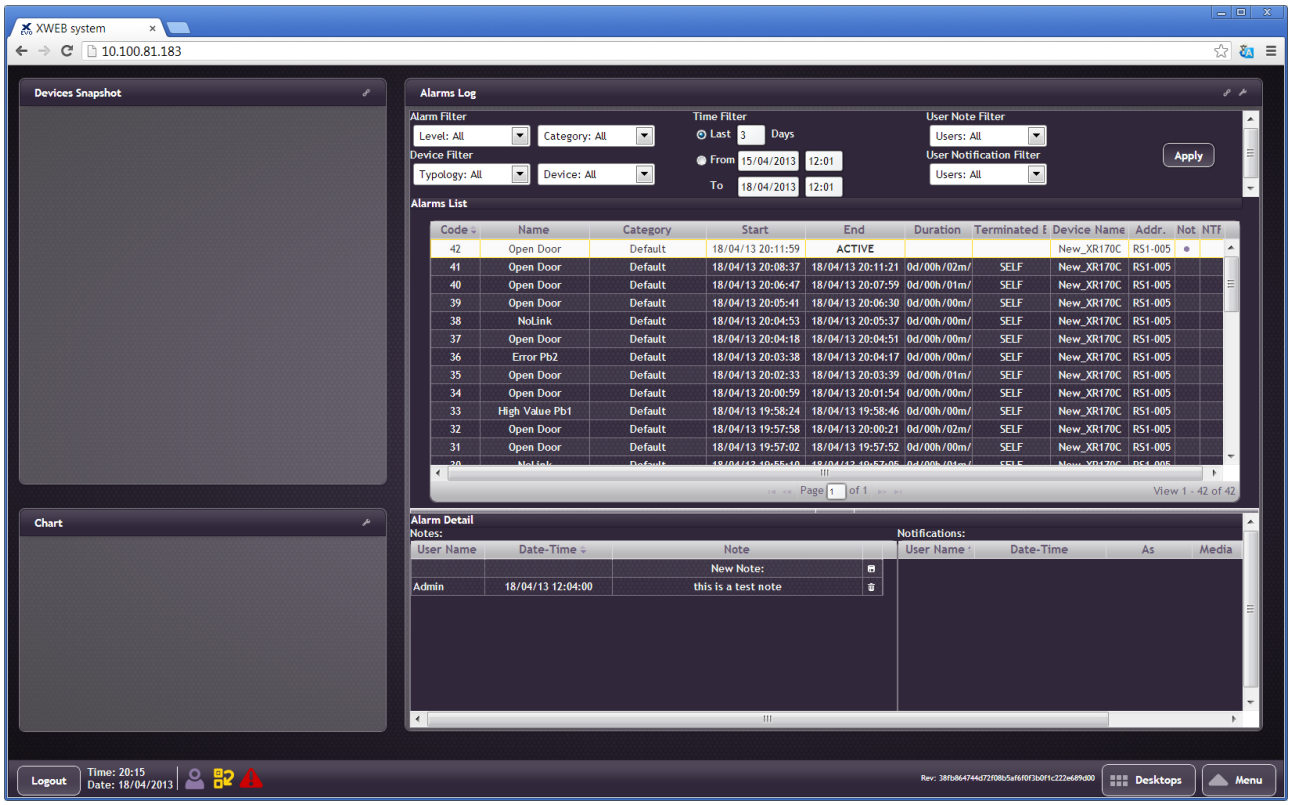
3.6.4.4 PARAMETER MAP IMPORT

Upload the parameter map from a previously saved backup. The operation can load the map file, or from the same XWEB-EVO



3.6.5 ALARMS DESKTOP

The "Alarms" desktop enables the user to visualise the list of all controller network alarms detected by the system.
On the initial access, the alarm list appears with the following default that can be subsequently changed by the user:

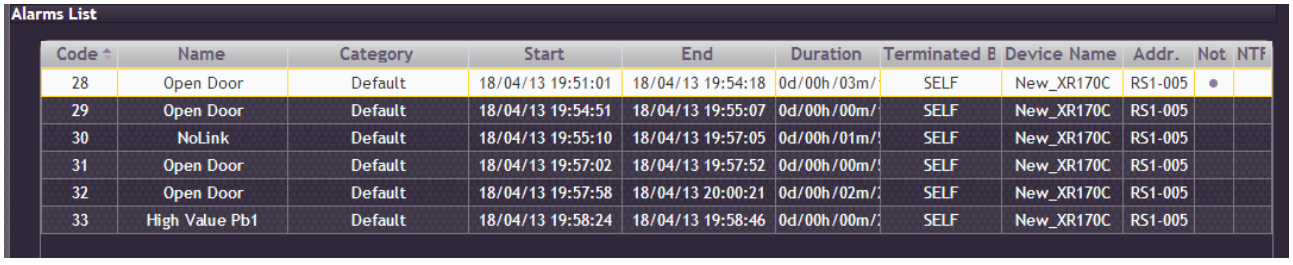


3.6.5.1 ALARM DISPLAY FILTER

The user may use filters to

- ***Level***. To visualise only the alarms notified to a specific level. For example ‘Service’;
- ***Alarm-category***. To visualise only the alarms configured with a given category. For example "Serious alarm";
- ***Device type*** (group). To visualise only the alarms generated by a group of devices. For example "BT".
- ***Device name***. To visualise only the alarms generated by a given device. For example ‘RS2-005 New_XW90T’;
- ***Alarm start period***. To visualise only the alarms detected starting from a given period. For example "last 10 days" or "day/y";
- ***Note.*** To visualise only the alarms with a note entered into the system by a given user.
- ***Notification.*** To visualise only the alarms notified to a specific user.

Each time the filter is modified, press "Apply" to update the page. The alarm list is generated providing the user with the following information:

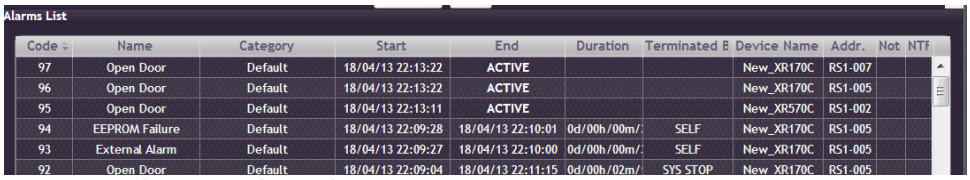


- ***Code***: univocal alarm ID code. This code corresponds to a precise alarm detected at a precise moment.
- ***Name***: alarm name
- ***Category***: alarm category
- ***Start***: date/time when the system detected the alarm. The time delay that may have been configured for managing the same alarm is not considered.
- ***End***: date/time when the system detected the alarm reset. Information available only for the resetting of alarms: or ACTIVE if still active.
- ***Duration***: duration of alarm. Information available only for the resetting of alarms.
- ***Terminated By***: alarm reset.

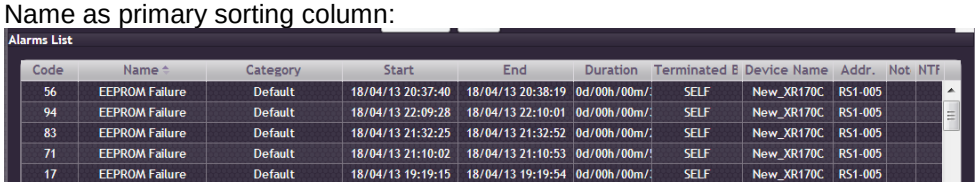
  - **"SELF": ALARM RESET INDICATED BY CONTROLLER.**
  - **"NO LINK": ALARM RESET DUE TO FAILED COMMUNICATION BETWEEN THE XWEBEVO AND THE CONTROLLER;**
  - **"SYS STOP": ALARM RESET DUE TO THE INTERRUPTION OF ACQUISITIONS BY THE CONTROLLERS;**
  - **"CONF CHANGE": ALARM RESET FOR ALARM CONFIGURATION CHANGE.**

- ***Device Name***: name of device to which the alarm refers.
- ***Addr***.: address of device to which the alarm refers.
- ***Not***: alarm to which notes have been assigned.
- ***NTI***: alarm from which notifications were sent.

Usually the data in the table is displayed according to the "Code" value. The primary sort column can be changed by selecting it clicking on the heading; in this case, "Code" will be used as a secondary sort index. Code as primary sorting column:



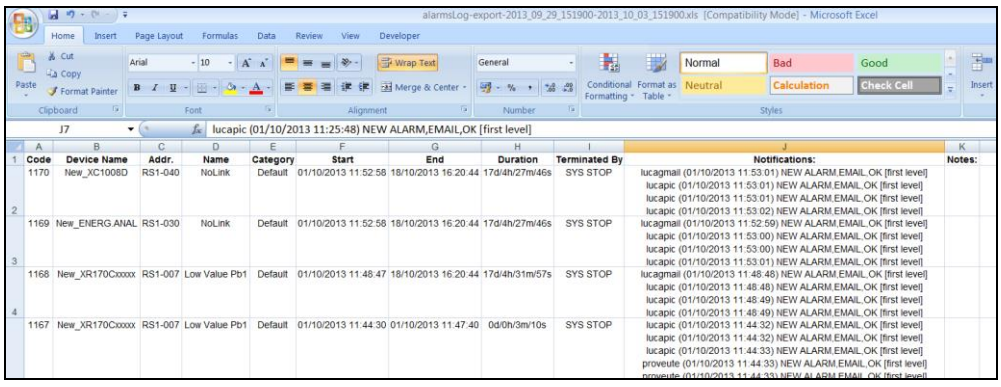
Name as primary sorting column:



3.6.5.2 ALARM LIST EXPORT

Press 

to save the Excel file containing the alarm table onto your PC. Example as per the following image:

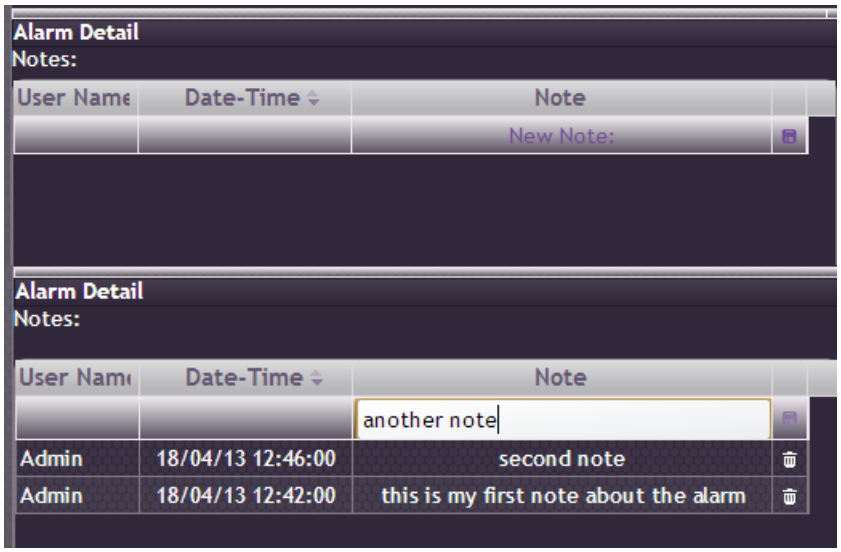


3.6.5.3 DISPLAY ALARM DETAILS

By clicking on an alarm, the page is updated with new detailed information on the alarm that has just been selected. The "Alarm Detail" section containing the list of notes and the list of users notified of the alarm is updated.

3.6.5.4 READ/WRITE ALARM NOTES

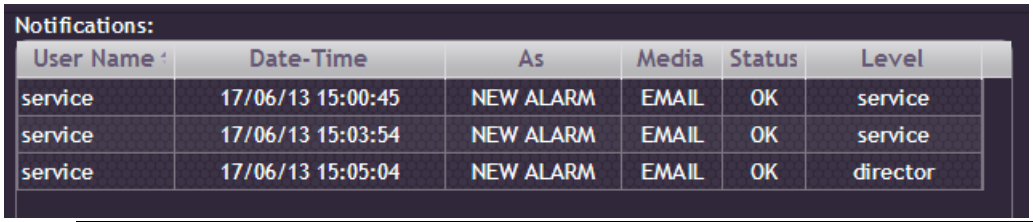
Notes can be added by clicking on "New note:" from the detail of the alarm notes and, in particular, from the "Notes" section.



To save the note, click on the grey area of the same line.
To delete the note, click on the bin icon next to the text of the note.

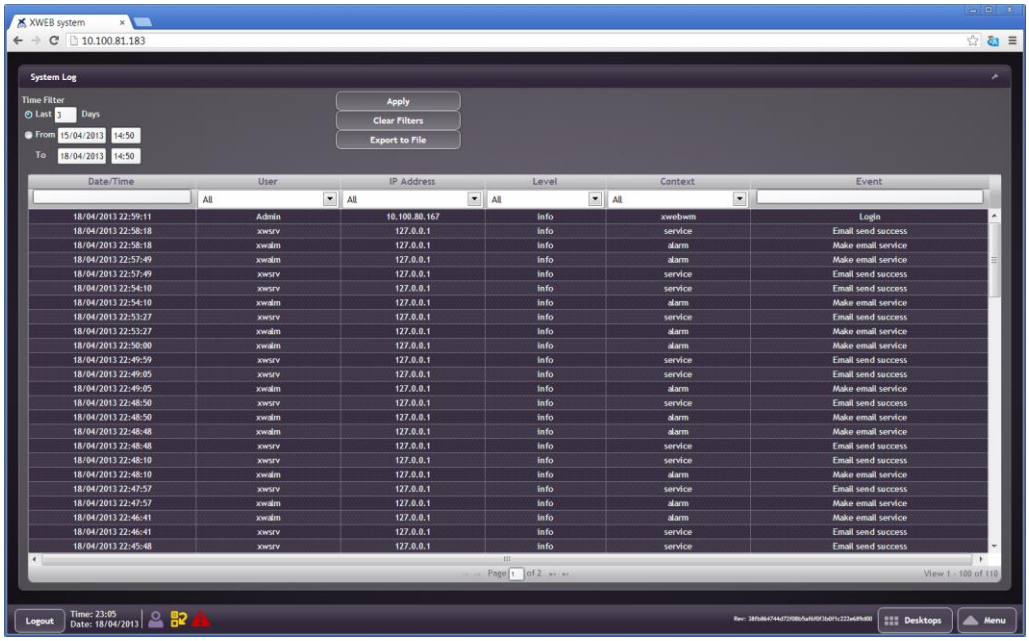
3.6.5.5 CHECK OF ALARM NOTIFICATIONS

The alarm conditions are normally notified to users of levels for which the alarm is configured. If the alarm persists, the XWEB-EVO system continues to run the notifications. They are recorded in the system and accessible through the "Notifications" section as demonstrated below.



3.6.6 DESKTOP SYSTEM LOGS

The "System Logs" desktop enables the user to visualise a list of events describing the most significant actions executed by the system and by the users accessing it.

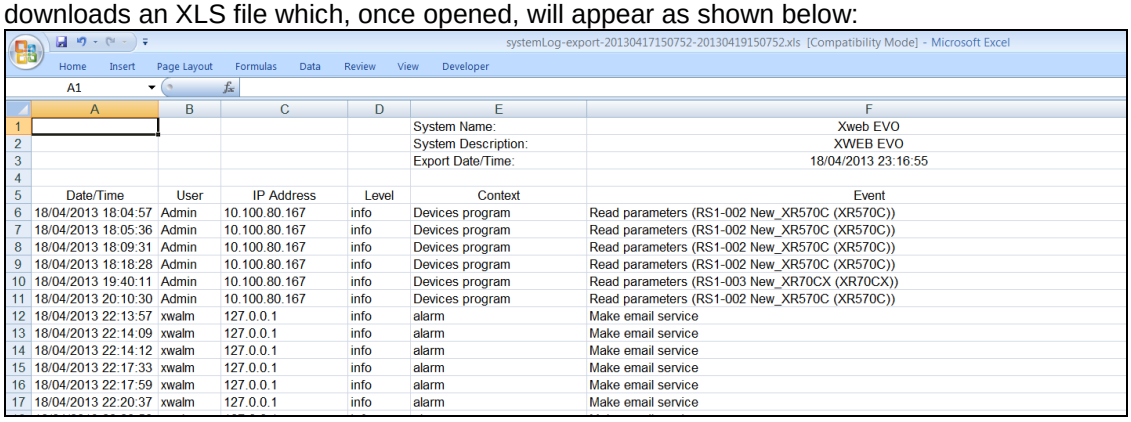


On initial access, the system shows the list of all the events that have taken place in the last three days. The user can choose to apply different filters on the display.

- ***Period***: setting the period to be considered and analysed
- ***User***: to view the events of all users or of just one in particular
- ***IP address***: to view the events whose source is a determined IP address. The address “127.0.0.1” corresponds to the address of an event generated by the same XWEBEVO system
- ***Level***: to view the events of all levels or of just one in particular
- ***Context***: to view the events of all contexts or of just one in particular

3.6.6.1 SYSTEM LOG EXPORT

The user accessing the page can export the table in an Excel file by clicking on "Export to File". The browser downloads an XLS file which, once opened, will appear as shown below:



	A	B	C	D	E	F
1					System Name:	Xweb EVO
2					System Description:	XWEB EVO
3					Export Date/Time:	18/04/2013 23:16:55
4						
5	Date/Time	User	IP Address	Level	Context	Event
6	18/04/2013 18:04:57	Admin	10.100.80.167	info	Devices program	Read parameters (RS1-002 New_XR570C (XR570C))
7	18/04/2013 18:05:36	Admin	10.100.80.167	info	Devices program	Read parameters (RS1-002 New_XR570C (XR570C))
8	18/04/2013 18:09:31	Admin	10.100.80.167	info	Devices program	Read parameters (RS1-002 New_XR570C (XR570C))
9	18/04/2013 18:18:28	Admin	10.100.80.167	info	Devices program	Read parameters (RS1-002 New_XR570C (XR570C))
10	18/04/2013 19:40:11	Admin	10.100.80.167	info	Devices program	Read parameters (RS1-003 New_XR70CX (XR70CX))
11	18/04/2013 20:10:30	Admin	10.100.80.167	info	Devices program	Read parameters (RS1-002 New_XR570C (XR570C))
12	18/04/2013 22:13:57	xwalm	127.0.0.1	info	alarm	Make email service
13	18/04/2013 22:14:09	xwalm	127.0.0.1	info	alarm	Make email service
14	18/04/2013 22:14:12	xwalm	127.0.0.1	info	alarm	Make email service
15	18/04/2013 22:17:33	xwalm	127.0.0.1	info	alarm	Make email service
16	18/04/2013 22:17:59	xwalm	127.0.0.1	info	alarm	Make email service
17	18/04/2013 22:20:37	xwalm	127.0.0.1	info	alarm	Make email service

3.6.7 DESKTOP CONSUMPTIONS

Desktop ‘Consumptions’ offers the user the display of consumption data for a set of analyzers.

Supported:

Analyzer	Library name in XWEB EVO
Carlo Gavazzi EM21	EM21
Carlo Gavazzi EM23	EM23
Carlo Gavazzi EM24	EM24
Carlo Gavazzi EM26	EM26
Carlo Gavazzi EM100	EM100
Carlo Gavazzi EM210	EM210
Carlo Gavazzi EM271	EM271
Carlo Gavazzi VM14	WM14
Carlo Gavazzi VM22	WM22
ERVATECH E-93	E93
Emerson Energy Meter	EEM

By configuring xweb with one of the supported devices, it is possible to log on to the "Consumptions Analyzer" by click

To configure the desktop, you must:

1. ***variables to display***; available options:
   a. manual variables selection: clicking on 

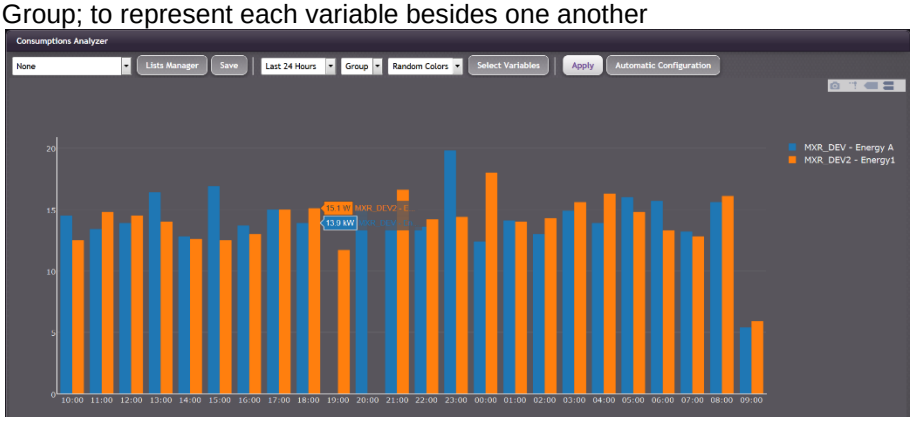
the User can choose from the pool of available variables granted by supported devices. This list depends by variables configured for “DeviceSetup→DeviceView”

   b. automatic variables selection: clicking on 

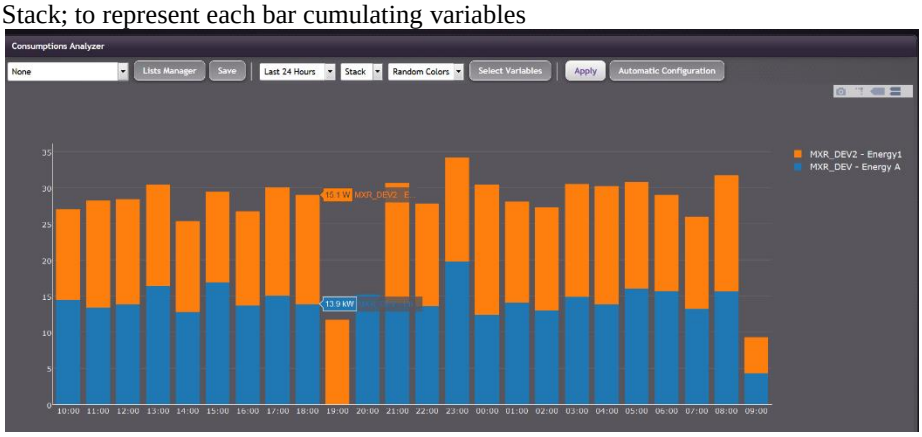
the system selects accumulation variables. This list depends by variables configured for “DeviceSetup→DeviceView”

2. ***time frame*** for visualization; available options:
   a. last 24 hours
   b. last 7 days
   c. last 4 weeks
   d. last 12 months
   e. last 3 years
   f. Custom; from/to

3. ***visualization grouping***; available options:
   a. Group; to represent each variable besides one another



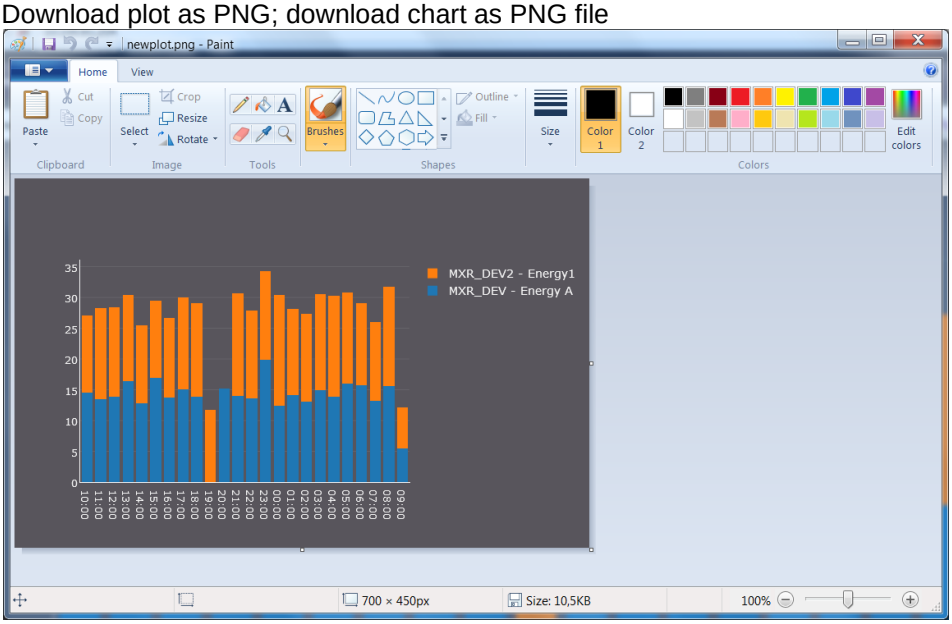
b. Stack; to represent each bar cumulating variables



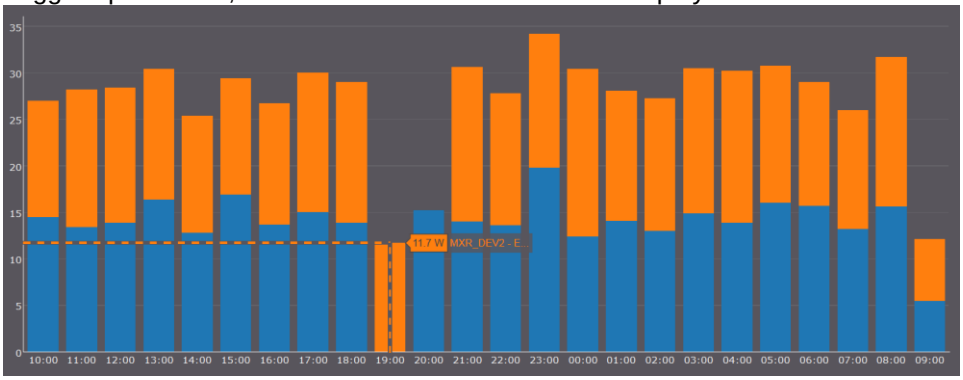
4. colors; available options:
   a. Random Colors; to print bars with random colors
   b. Chart defaults; to print bars with the same color used for DeviceSetup→Advanced→Chart default color

the chart is displayed with an action bar to:

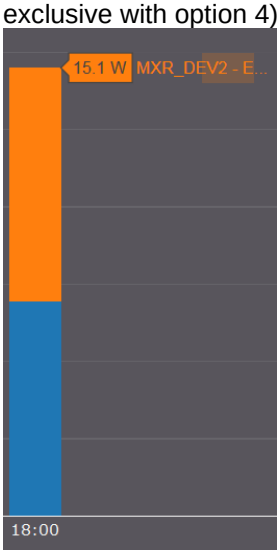
1. Download plot as PNG; download chart as PNG file



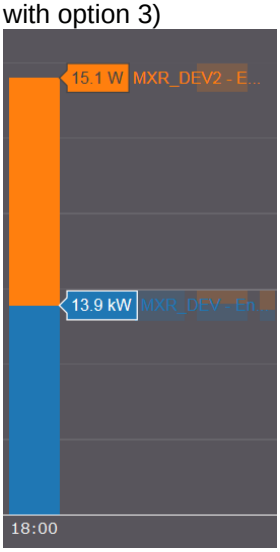
2. Toggle Spike Lines; Add / remove the reference line display with the axis Y



3. Show closest data on hover; Only displays the data of the bar selected by the mouse; (Mutually exclusive with option 4)



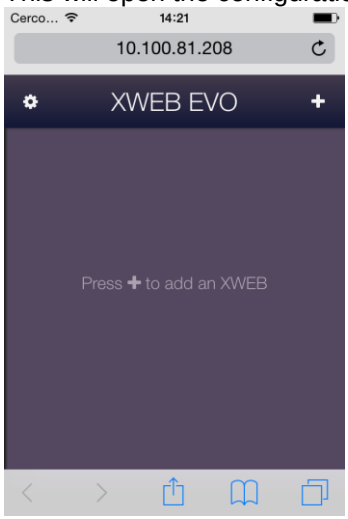
4. Compare data on hover; Displays all data in the selected period from the mouse (mutually exclusive with option 3)



3.7 SYSTEM ACCESS WITH PDA/SMARTPHONE

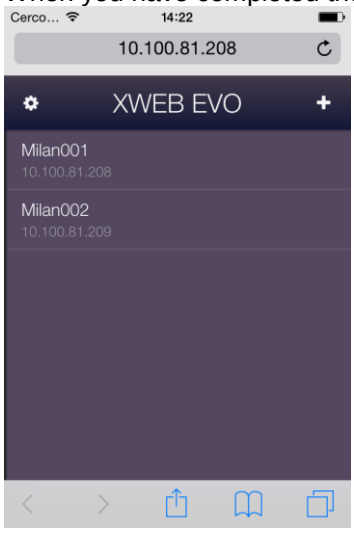
Open the browser of your PDA and enter the IP address of XWEB with the following syntax
http: // <IP> /xwebmobile/index.html

This will open the configuration page to sites with access PDA



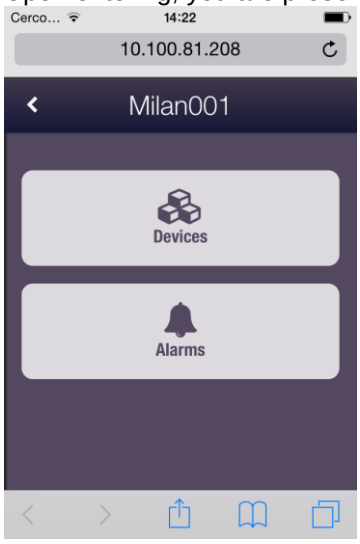
Add your site (or sites) by pressing the (+) and please indicate name and IP address.

When you have completed the configuration of the sites, access them by clicking on the desired site.

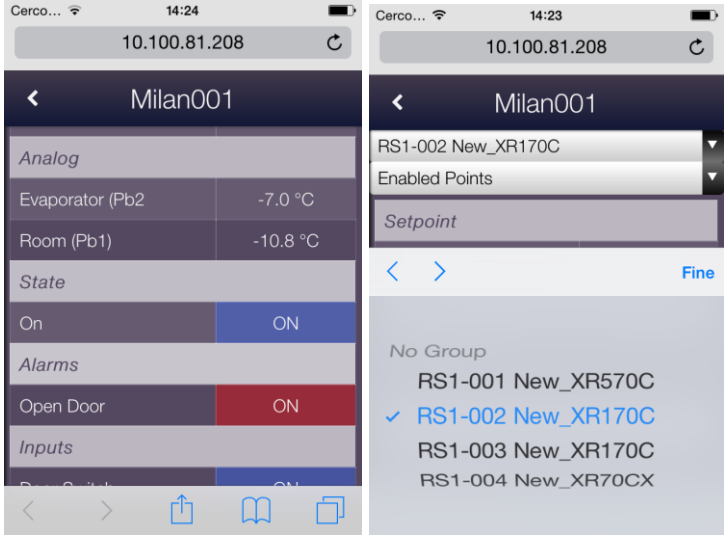


Going to access the site, you will be presented with the login page. Enter Username / Password the user with whom you want access to EVO. If the machine has active alarms, it appears in the lower right icon red alarm signaling.

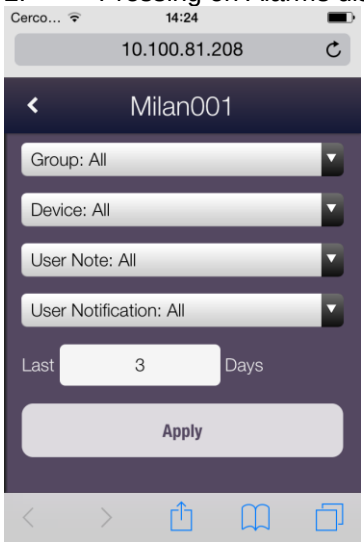
Upon entering, you are presented with the menu page navigation



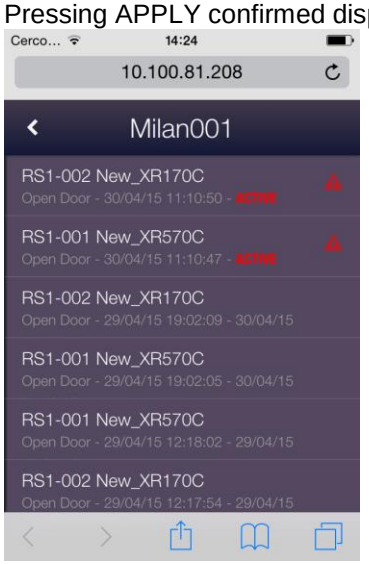
1. Pressing on Devices, displays a list of the first device configured variables. If you wish to change their device, select it from the drop-down menu



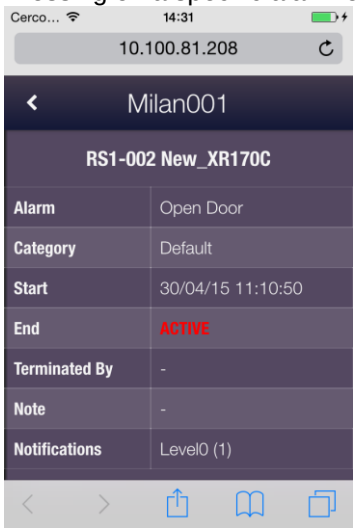
2. Pressing on Alarms displays the page for displaying alarms



Pressing APPLY confirmed display filters and you will be presented the alarm list



Pressing on a specific alarm opens the detail page on the same alarm



For all pages presented above you you can navigate to the previous page by clicking the back arrow in the upper left (<).

4. TRADEMARKS

Consider It Solved and Intelligent Store are trademarks and Emerson Climate Technologies and the Emerson Climate Technologies logo are service marks and trademarks of Emerson Electric Co.
Windows and Internet Explorer are registered trademarks of Microsoft Corporation in the United States and other countries.
Oracle and Java are registered trademarks of Oracle and/or its affiliates.
Firefox is a registered trademark of the Mozilla Foundation.
Yahoo! is a registered trademark of Yahoo! Inc.
Linux is a trademark registered to Linus Torvalds.
Other names may be trademarks of their respective owners.

5. ACCESSORIES

TYPE	DESCRIPTION	NAME	HOW TO ORDER	
MODEM	Serial analogue modem, compatible PDA, 56kbps.	XWEB MODEM	XWEBMODEM-**2**00	24Vac
			XWEBMODEM-**4**00	110Vac
			XWEBMODEM-**5**00	230Vac
MODEM	Serial GSM modem, only to send SMS – for 2G networks inly	TC35-KIT	TC35-KIT	
MODEM	GSM serial modem, only for SMS – Tri Band UMTS/HSPA+ (EMEA, APAC and Brasil)	GT-HE910-EUD-KIT	GT-HE910-EUD KIT	
MODEM	GSM serial modem, only for SMS – GPRS/UMTS (North America)	GT-HE910-NAD-KIT	GT-HE910-NAD KIT	
CABLE	Compatible network cable, 3m	###	CAB/WEB/NET	
CABLE	Compatible crossed network cable, 1m	###	CAB/WEB/PC	

6. FAQS

6.1 MAINTENANCE PROCEDURE FOR 300/500 MODELS

In case you need to disconnect XWEBEVO to move it or to make cleaning, remember that it should not be opened for any reason, under penalty of immediate termination of the warranty. Please follow the following procedure by observing the shape of the rear panel as per the installation manual. The same is provided in the package and in electronic form on the website Dixell to the 'manual'.
Unplug the external modem if present;
Disconnect the telephone line and / or LAN cable;
Disconnect terminals RS485, relays and digital inputs;
Now you can unplug the power cord and move XWEB;

6.2 MAINTENANCE PROCEDURE FOR 3000/5000 MODELS

Should it be necessary to disconnect the XWEBEVO to move it or for cleaning purposes, remember that it should not be opened for any reason, or the warranty will be deemed invalid. Follow the procedure below, observing the rear panel figure as per the installation manual. The same is provided in paper form in the package and in electronic form on the Dixell website, under section "Manuals".
Press and quickly release the on/off power button (2);
Wait for all LEDs on the front to go off, including the PWR;
Disconnect external modem, if present (7);
Disconnect parallel printer or USB (6);
Disconnect monitor, keyboard and mouse (5);
Disconnect the telephone line and/or LAN network cable(4);
Disconnect RS485 terminals, relay and digital input (3)
Now disconnect the power supply cable (1) and move the XWEB;

Press and hold button (2) to force the instant switch-off of the system. When switch-off occurs in this way, the XWEB records the event, but cannot guarantee the correct data maintenance. The same applies for "forced" switch-offs which occur when the power supply cable is disconnected before the system is switched off.

6.3 I CANNOT ACCESS THE SYSTEM WITH MY PASSWORD

Check upper and lower case. The XWEB-EVO system is sensitive to the letter case.

6.4 MY BROWSER CANNOT REACH THE XWEB-EVO

Check the cables in use starting from that connected to your PC's network. Once the cables have been checked, check that the XWEB-EVO IP address can be reached: run the PING command from the command line to verify the correct routing of the packs on the network.

Example:

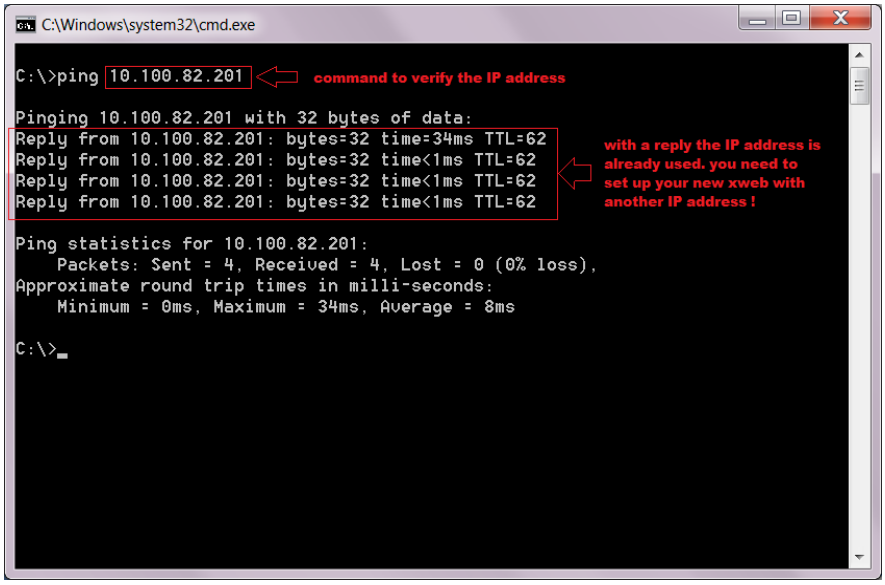


Figure 1

If no reply is received, your PC is unable to communicate with the XWEB-EVO. Check the cables once again or contact your network administrator. Attention, if a reply is received, it may not come from the XWEB-EVO: it may come from another device on the network. Also in this case, should you continue to have difficulties accessing via your browser, contact your network administrator for advice.

6.5 DISPLAYING OF INCOMPLETE OR INCORRECT PAGES FROM PC

The temporary browser or JAVA files, also known by the name cache-files, may sometimes prevent proper use of the XWEB-EVO. This happens when, for example, an XWEB-EVO is replaced and is accessed remotely using the same web address.
To solve this problem, delete these temporary files from your computer. Their deletion may vary depending on your operating system and its settings. Refer to your PC documentation and/or obtain the support of a computer expert or your network administrator.

- Below, the procedure for removing the cache from INTERNET EXPLORER 9:

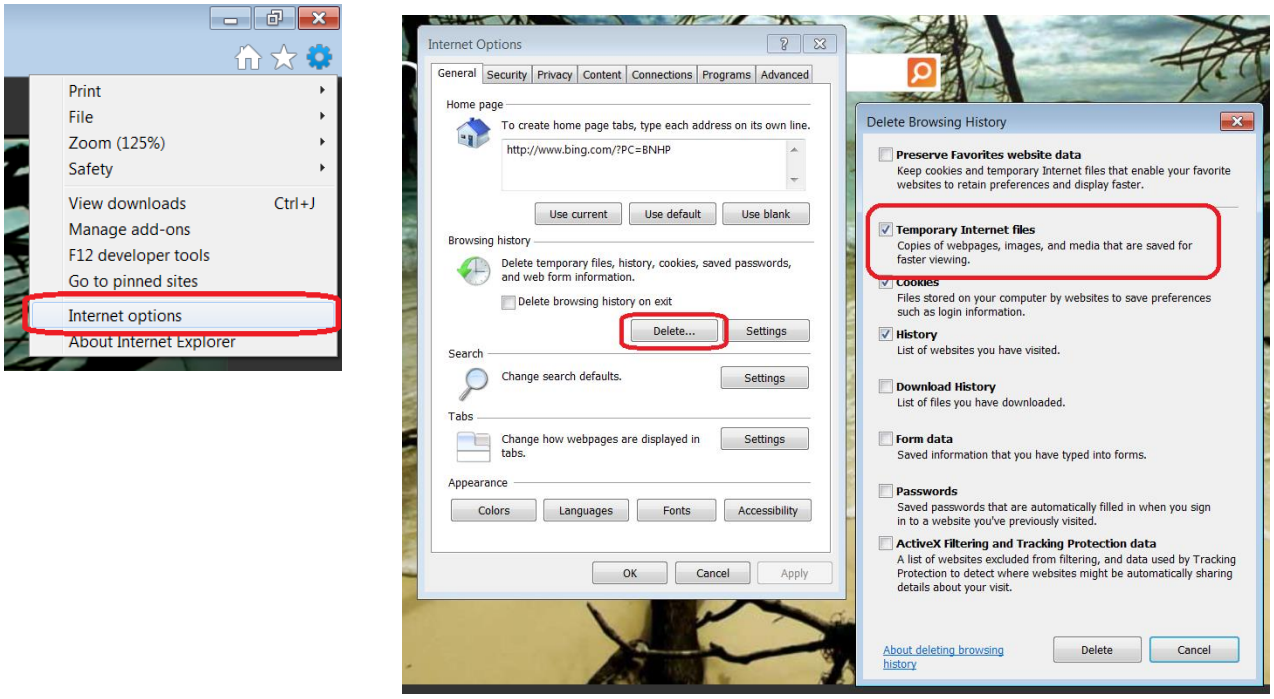


Figure 2

- Below, the procedure for emptying the JAVA 1.6 cache:

click on Start button, click on Control Panel and then click on the JAVA icon. Click on “Settings” and “Delete Files...” (see figure below):

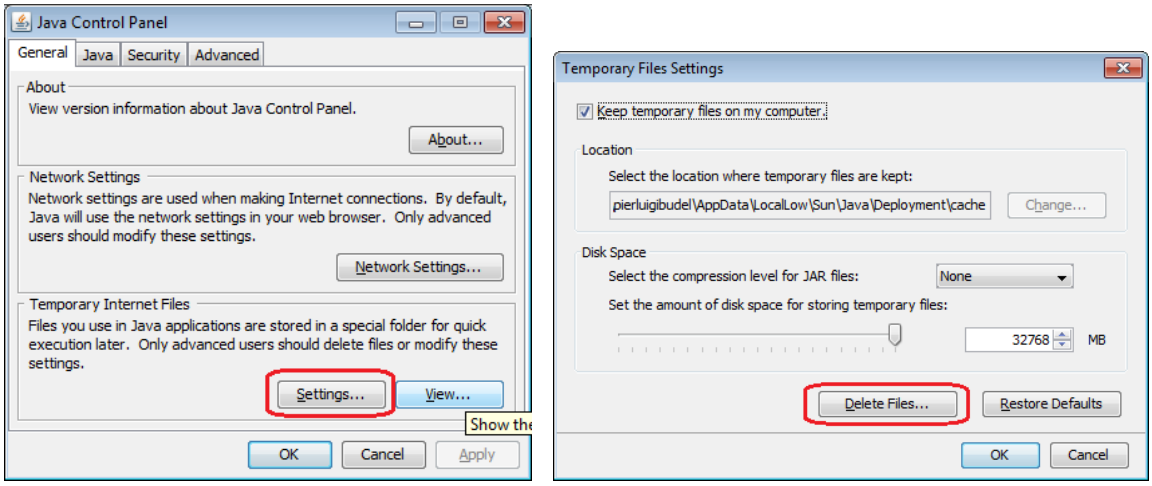


Figure 3

6.6 SOMEONE HAS RECEIVED A CONFLICTING MESSAGE ON THE IP ADDRESS

This may mean that the XWEB-EVO is using an IP address that is also being engaged by another network resource. We recommend changing the XWB-EVO IP with a new, free address. If in doubt on which address to use, contact your network administrator.

6.7 HOW MANY CONTROLLERS CAN THE XWEB-EVO MANAGE

The XWB3000/5000EVO can manage two separate RS485 serial lines simultaneously, for each of which it can address up to a maximum of 247 controllers. Therefore it can address up to 494 controllers on serial 485 in a Modbus-RTU network.
The XWEB300/500EVO can handle one serial line only. XWEB300EVO can manage maximum 18 controllers and XWEB500EVO can manage maximum 100 controllers.

6.8 HOW THE ALARMS ARE MANAGED

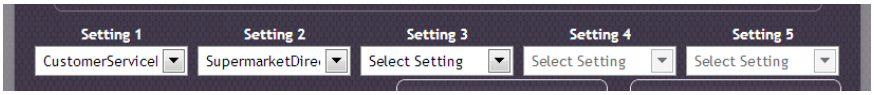
The XWEB-EVO monitors the alarm statuses and notifies any variations according to a configuration that must be set by the user. The person configuring the XWEB-EVO must perform the following steps in order to obtain a complete configuration:

3. System. The XWEB-EVO system anticipates that all notifications to an external media source (e.g. an email server) are configured in the system settings. See chapter 3.4.3 - SYSTEM CONFIGURATION in this manual.
4. Book. All recipients of the alarm notifications must be recorded in the system and must have their Email/fax contact details, or other, configured. See chapter 3.4.5 - USER/BOOK CONFIGURATION in this manual
5. Controllers It is necessary to define the controller network from which the XWEB-EVO will detect the alarm status of the same controllers. See chapter 3.4.4 - CONTROLLER CONFIGURATION in this manual
6. Alarms. It is necessary to define the rules according to which the detected alarms must be notified. See chapter 3.4.6 - ALARM CONFIGURATION in this manual. The alarms are grouped into alarm-categories that define how the alarm must be treated and to whom and how they must be notified. This information is defined on levels (aka. delivery settings).

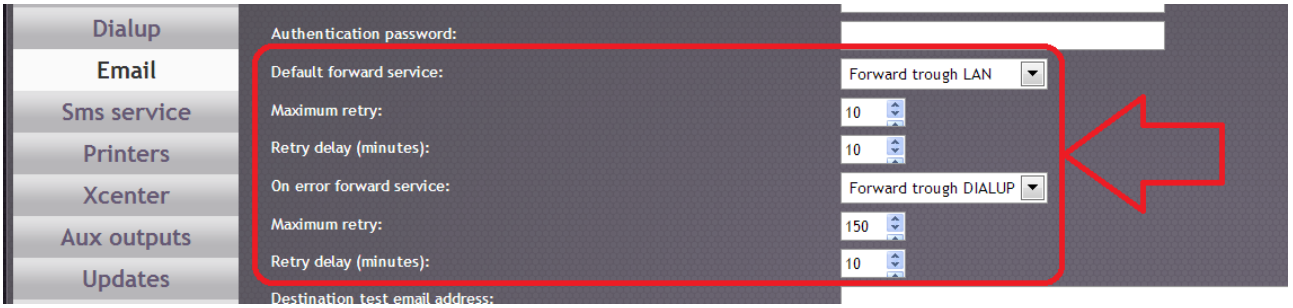
6.9 HOW ARE THE ALARM EMAILS RE-SENT

The XWEB-EVO is often installed to notify alarms via email. The configuration of this media anticipates all steps described in point 6.8 - HOW THE ALARMS ARE MANAGED.
This service can be configured in various ways to re-send emails, should the alarm conditions persist over time:

1. The first type of re-send is carried out during the lifespan of the level, where the emails are always re-sent to the same recipients. The parameters affecting this type of re-send are "Resend Time" and "Resend life time", in the level settings.
2. the second type of re-send is carried out through means of an increasing notification level and the consequent notification being sent to a new group of recipients. The parameters affecting this type of re-send are the entry order in the levels in the category parameters (see image below) and the "Resend life time" in level settings.



3. the third type of re-send is carried out through means of an increasing notification interface and the consequent routing of email notifications on its media. This means that should the emails via the LAN interface fail to send, it is possible to manage their re-sending via a DIAL-UP (modem). The parameters affecting this type of notification are illustrated in the following image taken from the System configuration parameter email section.


Dialup
Email
Sms service
Printers
Xcenter
Aux outputs
Updates
Authentication password:
Default forward service:
Forward trough LAN
Maximum retry:
10
Retry delay (minutes):
10
On error forward service:
Forward trough DIALUP
Maximum retry:
150
Retry delay (minutes):
10
Destination test email address:

6.10 TABLET COMPATIBILITY

The XWEB-EVO user interface is normally accessible via tablet web browsers; in particular, the pages in the DESKTOPS menu. The HTML pages are re-sized according to the size of the screen.

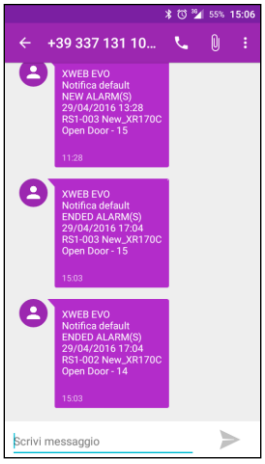
The machine configuration pages as well as some others are an exception and are not compatible:

- Menu→Tools→Compressor Rack Optimiser (for XWEB500/5000 models only)
- Menu→Tools→Performance Manager (for XWEB500D/500/5000 models only)
- Menu→Tools→Dew-Point Manager (for XWEB5000 models only)
- Menu→Tools→Supervisor System (for XWEB5000 models only)

A browser error may appear for the above pages
“Your browser understands the <APPLET> tag but is not running the applet for some reason." Your browser is completely ignoring the <APPLET> tag!
indicates that it is not possible for the tablet to open the page in question.

6.11 HOW ARE DISPLAYED ON THE NOTIFICATION SMS ALERT

XWEB EVO when it detects an alarm from the network tools, if configured to send SMS notifications with the following format (example):



reporting information of:

- Name XWEB
- Name notification level
- Type START / END alarm
- DATE / TIME Event
- Name Tool
- Name Alert
- Unique ID alarm as in the Log Alarms XWEB

6.12 MODEM ERROR MESSAGES

In the “system log” associated to the message “Error sending SMS” there is an error code visible with the mouse hover on the message itself.

+Send message using phisical device GSM connected to the phisical serial device
+---
+1 => (GSM) Unable to get evo model from xwebconfig.json
+2 => (GSM) No gsm supoprt configured
+3 => (GSM) Unknown modem specified (internal/external)
+4 => (GSM) Waiting registration to the network: Error write command to device modem.
+5 => (GSM) Timeout network registration.
+6 => (GSM) Error exec fork() to run xwgsmsms module.
+7 => (GSM) Timeout waiting end xwgsmsms module (20 Seconds).
+8 => (GSM) Child xwgsmsms module dead itself.
+9 => (GSM) nu.
+10=> (GSM) [xwgsmsms] => Invalid parameters passed
+11=> (GSM) [xwgsmsms] => No destination number or device specified.
+12=> (GSM) [xwgsmsms] => No SMS text provided.
+13=> (GSM) [xwgsmsms] => Unable to open device modem.
+14=> (GSM) [xwgsmsms] => Error on read modem received messages.
+15=> (GSM) [xwgsmsms] => [send parth message] => Error init modem.
+16=> (GSM) [xwgsmsms] => [send parth message] => Error reinit modem after try send message.
+17=> (GSM) [xwgsmsms] => [send parth message] => Error send sms rich last retry.

+Send message using phisical device RAVEN connected to the network
+---
+30=> (RAVEN) Generic error.
+31=> (RAVEN) Port selected out of range.
+32=> (RAVEN) Timeout waiting socket raven respons.
+33=> (RAVEN) Error send socket data to raven.
+34=> (RAVEN) Connect error to raved network device.
+35=> (RAVEN) Error on set socket options.
+36=> (RAVEN) Error create socket.
+37...=> (RAVEN) Error received from raven (trught socket). Raven result = THIS_VALUE - 37

+Send message using network gateway netech.it
+---
+50=> (NETECH) Error on provided 'dest number' or 'dest message' or 'service code subscription'
+51=> (NETECH) Can't resolve the gateway address.
+52=> (NETECH) Error on create socket.
+53=> (NETECH) Error on set socket options.
+54=> (NETECH) Error connect to netech server.
+55=> (NETECH) Error write socket data (to the netech server).
+56=> (NETECH) Error receive response data from the server.
+57=> (NETECH) The netech server report a error on request send sms (subscription expired/invalid ?).
+58=> (NETECH) The netech server have close the connection.

+Send message using network gateway soap
+---
+70=> (SOAP) Error encoding message (EncodeKr).
+71=> (SOAP) Send message to the gateway.
+75...=> (SOAP) Error reported by SOAP gateway. Soap result = THIS_VALUE - 75

NOTES

Dixell S.r.l. - Z.I. Via dell'Industria, 27 - 32016 Alpago (BL) ITALY
Tel. +39.0437.9833 r.a. - Fax +39.0437.989313 - EmersonClimate.com/Dixell - dixell@emerson.com