







XWEB EVO


OPERATING MANUAL (V.5.2.1)


INDEX


| | | |
|---------------|---|-----------|
| 1. | INTRODUCTION | 7 |
| 2. | THE RECIPIENTS OF THIS MANUAL | 8 |
| 3. | USARE XWEB | 8 |
| 3.1 | DESKTOP | 8 |
| 3.2 | MOBILE | 8 |
| 3.3 | DISPLAY INTERFACE (ONLY FOR “COOLMATE” MODELS) | 9 |
| 3.3.1 | MENU VIEW | 9 |
| 3.3.2 | MENU MENU | 11 |
| 3.4 | WEB INTERFACE | 13 |
| 3.4.1 | FIRST INSTALLATION | 15 |
| 3.4.2 | INTERFACE WITH SYSTEM CONFIGURED | 16 |
| 3.4.2.1 | DASHBOARD | 16 |
| 3.4.2.2 | DEVICES | 18 |
| 3.4.2.2.1 | REALTIME | 18 |
| 3.4.2.2.2 | COMMANDS | 20 |
| 3.4.2.2.3 | PARAMETERS | 22 |
| 3.4.2.3 | ALARMS LOG | 27 |
| 3.4.2.4 | SETTINGS | 28 |
| 3.4.2.4.1 | DEVICES | 28 |
| 3.4.2.4.1.1 | ADD | 28 |
| 3.4.2.4.1.2 | DELETE | 30 |
| 3.4.2.4.1.3 | DEVICE SELECTION | 30 |
| 3.4.2.4.1.3.1 | CLONE | 31 |
| 3.4.2.4.1.3.2 | EXPORT | 31 |
| 3.4.2.4.1.3.3 | APPLY | 32 |
| 3.4.2.4.1.3.4 | GENERAL | 32 |
| 3.4.2.4.1.3.5 | VARIABLES | 32 |
| 3.4.2.4.1.3.6 | CONNECTION | 33 |
| 3.4.2.4.1.3.7 | COMMANDS | 34 |
| 3.4.2.4.2 | ALARMS | 35 |
| 3.4.2.4.2.1 | PRINCIPLES OF OPERATION | 35 |
| 3.4.2.4.2.2 | CATEGORIES | 35 |
| 3.4.2.4.2.3 | LEVELS | 36 |
| 3.4.2.4.3 | GROUPS | 40 |
| 3.4.2.4.4 | PRECONFIGURATIONS | 40 |
| 3.4.2.4.5 | UPDATES | 41 |
| 3.4.1 | LAYOUT | 42 |
| 3.4.2 | ANALYSIS | 44 |
| 3.4.2.1 | REPORTS | 44 |
| 3.4.2.1.1 | HACCP REPORTS | 44 |
| 3.4.2.1.2 | FOOD QUALITY REPORTS | 46 |
| 3.4.2.1.3 | HACCP REPORTS | 48 |
| 3.4.2.2 | CHARTS | 50 |
| 3.4.2.3 | CONSUMPTION ANALYZER | 53 |
| 3.4.2.4 | PERFORMANCE | 57 |
| 3.4.2.5 | COMMUNICATION STATUS | 59 |
| 3.4.3 | TOOLS | 61 |
| 3.4.3.1 | GLOBAL COMMANDS | 61 |
| 3.4.3.2 | SCHEDULER | 63 |
| 3.4.3.3 | CALENDAR | 68 |
| 3.4.3.4 | AUTOMATIC EXPORT | 69 |
| 3.4.3.5 | COMPRESSOR RACK OPTIMIZER | 71 |


| | | |
|-----------|--|------------|
| 3.4.3.5.1 | CONFIGURATION PARAMETERS | 71 |
| 3.4.3.5.2 | HOW IT WORKS | 72 |
| 3.4.3.5.3 | RESULTS FROM CRO | 73 |
| 3.4.3.6 | DEW POINT | 74 |
| 3.4.3.6.1 | CONFIGURATION PARAMETERS | 74 |
| 3.4.3.6.2 | ERRORS | 74 |
| 3.4.3.7 | SUPERVISION | 76 |
| 3.4.3.8 | LANGUAGES | 82 |
| 3.4.1 | SYSTEM | 84 |
| 3.4.1.1 | INFO | 84 |
| 3.4.1.2 | UPDATES | 85 |
| 3.4.1.3 | USERS | 87 |
| 3.4.1.4 | SETTINGS | 90 |
| 3.4.1.5 | BACKUP | 101 |
| 3.4.1.6 | SYSTEM LOGS | 102 |
| 3.4.1.7 | WIZARD SETUP | 102 |
| 3.4.1.8 | RESTORE SETUP | 102 |
| 3.4.1.9 | WIZARD SETUP | 103 |
| 3.4.1.10 | REBOOT | 103 |
| 3.4.1.11 | SHUTDOWN | 103 |
| 4. | TRADEMARKS | 104 |
| 5. | FAQS | 105 |
| 5.1 | MAINTENANCE PROCEDURE FOR XWEB300/500 MODELS | 105 |
| 5.2 | MAINTENANCE PROCEDURE FOR XWEB3000/5000 MODELS | 105 |
| 5.3 | HOW TO CHANGE XWEB TIME/DATE | 105 |
| 5.4 | I CANNOT ACCESS THE SYSTEM WITH MY PASSWORD | 105 |
| 5.5 | CAN I USE XWEB CLASSIC LIBRARIES TO INTEGRATE DEVICES | 105 |
| 5.6 | WHAT IS XWEB DEFAULT IP | 105 |
| 5.7 | MY BROWSER CANNOT REACH THE XWEB | 106 |
| 5.8 | DISPLAYING OF INCOMPLETE OR INCORRECT PAGES FROM PC | 106 |
| 5.9 | SOMEONE HAS RECEIVED A CONFLICTING MESSAGE ON THE IP ADDRESS | 107 |
| 5.10 | HOW MANY CONTROLLERS CAN THE XWEB MANAGE | 107 |
| 5.11 | HOW THE ALARMS ARE MANAGED | 107 |
| 5.12 | HOW ARE THE ALARM EMAILS RE-SENT | 107 |
| 5.13 | TABLETS / PDA COMPATIBILITY | 108 |
| 5.14 | HOW SMS ALARM NOTIFICATIONS APPEAR | 108 |
| 5.15 | MODEM ERROR MESSAGES | 108 |


| | | |
|---|---|---|
| CAUTION: TO PREVENT FLAMES FROM DEVELOPING OR ELECTRIC SHOCK, AVOID ANY CONTACT BETWEEN THIS DEVICE AND RAIN OR WATER | | |
|  | CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN |  |
| 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 in this manual are common to all "XWEB 300D" / "XWEB 500D" / "XWEB 500" / "XWEB 3000" / "XWEB 5000" models. Any particular features are specified expressly. |
|--|---|

| | |
|--|---|
| 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 |
|--|---|

| | |
|--|--|
| <p>CAUTION</p>  | <p>The customer shall bear full responsibility and risk for product configuration in order to achieve the results pertaining to installation and/or final equipment/system. Upon the customer's request and following a specific agreement, Dixell s.r.l. may be present during the start-up of the final machine/application, as a consultant, however, under no circumstances can the company be held responsible for the correct operation of the final equipment/system.</p> |
| <p>CAUTION</p>  | <p>Since Dixell products form part of a very high level of technology, a qualification/configuration/programming/commissioning stage is required to use them as best as possible. Otherwise, these products may malfunction and Dixell cannot be held responsible. The product must not be used in any way that differs from that stipulated in the documentation</p> |

1. INTRODUCTION

Congratulations for having purchased this product.

XWEB represents one of the most advanced monitoring, control and supervision systems available on the market today. The user will benefit from a power device, 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 the XWEB3000/5000 models a monitor, mouse and keyboard. A local interface on display and keyboard, is also available on the XWEB500 model.

In remote and for all models you can use the web interface, connecting from a regular home computer with an Internet browser, such as Internet Explorer® or Mozilla Firefox®.

XWEB, for the 300D/500D models can easily be on DIN guide. The wall 500 model. The 19" rack or desk 3000/5000 models.



XWEB 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 provides:


- 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 versions)
- the programming of controller parameters
- Compressor Plant Management (Compressor Rack Optimiser, CRO). To better manage the availability of cooling power (only for the 500 and 5000 models)
- and much more

The following tools are added to the XWEB 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.

DIXELL SOLUTIONS

 CRO (Compressor Rack Optimization)



2. THE RECIPIENTS OF THIS MANUAL

The contents of this manual are intended for professional users, such as the XWEB installer and/or its end user. The configuration and usage procedures of the XWEB 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. USARE XWEB

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

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

The XWEB 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.

XWEB allows the management of different lines of devices (also called "nodes") that can use different types of physical connections and configurations for communication. Obtain the documentation related to the network.

The PC that you wish to use for the connection must fulfil and support the minimum characteristics for installation and use:

3.1 DESKTOP

| Browser | Support | Minimum Version |
|----------------------------------|----------------------|-----------------|
| Microsoft Internet Explorer (IE) | NOT SUPPORTED | |
| Microsoft Edge | SUPPORTED | 12+ |
| Mozilla Firefox | SUPPORTED | 28+ |
| Google Chrome | SUPPORTED | 29+ |
| Apple Safari | SUPPORTED | 9+ |
| Opera | SUPPORTED | 17+ |

3.2 MOBILE

| Browser | Support | Minimum Version |
|-------------------------|------------------|-----------------|
| Apple iOS Safari | SUPPORTED | 9+ |
| Android Stock | SUPPORTED | 4.4+ |
| Android Google Chrome | SUPPORTED | 29+ |
| Android Mozilla Firefox | SUPPORTED | 28+ |

In the following sections, general information is provided on the possible network configurations, suitable for connection between XWEB-EVO and your computer. From the start we recommend following the advice of an IT expert and/or your network administrator to assess which configurations are most suited to your needs. Antivirus, firewall and toolbar software (for example YAHOO and/or GOOGLE) can impede you from viewing XWEB-EVO pages correctly. We recommend checking the configuration of this software and adding their XWEB-EVO IP addresses to the list of safe sites. With firewalls, make sure that ports 80 and 22 are mapped towards XWEB-EVO so that it can be reached from outside..

3.3 DISPLAY INTERFACE (ONLY FOR “COOLMATE” MODELS)

The local interface consists of 8 keys:

| KEY | FUNCTION |
|-------|---|
| VIEW | Direct access to the archive or data in real time |
| MENU | Access to configuration menus |
| CLEAR | Exit from current menu; character deletion |
| ENTER | Entry into menu; opening of current alarm list |
| ← | Movement to the left |
| ▲ | Up movement |
| ▼ | Down movement |
| → | Movement to the right |

And generally the interface shows the → symbol for the selectable items

To access certain screens, you must enter a valid username and password of a user registered in the system. The entered credentials remain valid for 5 minutes.

The main screen, when the system has not detected alarms, the LCD display 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 has detected alarms, the LCD display 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

```

3.3.1 MENU VIEW

By pressing the VIEW key from the main screen, the user accesses 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

```

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 data item displays the actual or archive data
- The alarms item displays the actual or archive data
- The utility item allows access to the RS485 line test
- The mute buzzer item allows interrupting the buzzer noise, potentially active in case of alarm

CURRENT DISPLAY AND SETPOINT CHANGE and command sending

You can select a tool from the current data menu and change its setpoint. The current view is as follows:

```

R S 1 - 0 0 2   N e w _ X R 1 7 0 C
. > - - - - - A N A L O G - - - - - <
E v a p o r a t o r   ( P b 2   - 7 .
R o o m   ( P b 1 )   - 1 0 . 8   ° C
> - - - - - S T A T U S - - - - - <
O n :   O N
> - - - - - S E T P O I N T - - - - <
S e t   P o i n t   1 . 3 ° C
> - - - - - A L A R M - - - - - <
E E P R O M   F a i l u r e :   O f f
E r r o r   P b 3 :   O f f
E r r o r   P b 1 :   O f f
O p e n   D o o r :   O n
> - - - - - I N P U T - - - - - <
G e n e r i c   A l a r m :   O f f
> - - - - - O U T P U T - - - - - <
C o o l i n g :   O f f
A l a r m :   O f f
D e f r o s t :   O f f

```

To modify the current setpoint, move over the setpoint and press ENTER, modify the set using the “up arrow”, “down arrow” keys and press ENTER.

ARCHIVE DATA

From the archive data menu you can select a tool and the variable of interest (e.g. “Room (Pb1)” probe) and scroll the value over the selected time periods.

Please select “circular data” to retrieve the samples

```

                R o o m   ( P b 1 )
1 8 / 0 9 / 2 0 1 5   1 1 : 5 1 : 2 3   - 1 0 . 8 ° C
1 8 / 0 9 / 2 0 1 5   1 1 : 4 6 : 2 3   - 1 0 . 8 ° C
1 8 / 0 9 / 2 0 1 5   1 2 : 0 1 : 2 3   - 1 0 . 8 ° C ↓

```

ALARMS DISPLAY

The alarms are displayed by entering username and password valid for their display from the alarm menu

1. Current and active

```

                A c t i v e   A l a r m s
→ 5 9   ( R S 1 - 0 0 2 )   N e w _ X R 1 7 0 C
   5 8   ( R S 1 - 0 0 2 )   N e w _ X R 5 7 0 C
   5 7   ( R S 1 - 0 0 2 )   N e w _ X R 1 7 0 ↓

```

Selecting the alarm shows its details The information shown is like those in the example:

```

                A c t i v e   A l a r m s
. C o d e :   5 9
A d d r e s s :   R S 1 - 0 0 2
D e v i c e :   N e w _ X R 1 7 0 C

```

```

C a t e g o r y   D e f a u l t
N a m e :   O p e n   D o o r
S t a r t :   2 0 1 5 / 9 / 1 8   1 0 : 1 1 : 2 8
E n d :   A c t i v e
D u r a t i o n :   A c t i v e

```

2. From archive

```

      A l a r m   A r c h i v e
. C o d e :   6 9
A d d r e s s :   R S 1 - 0 0 2
D e v i c e :   N e w _ X R 1 7 0 C
C a t e g o r y   D e f a u l t
N a m e :   O p e n   D o o r
S t a r t :   2 0 1 5 / 0 9 / 1 8   1 4 : 4 5 : 1 3
E n d :   2 0 1 5 / 0 9 / 1 8   2 1 : 4 3 : 1 4
D u r a t i o n :   0 6 h   5 8 m
T e r m i n a t e d   B y   S E L F
N o t e s   P r e s e n t
N o t i f y   N o t   P r e s e n t

```

3.3.2 MENU MENU

By pressing the MENU key from the main screen, the user accesses the menu

```

      M e n U
→ S e t u p
   V i e w
   D e v i c e   C o m m a n d   ↓

```

The complete menu is composed of

```

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
|   |__ (as per VIEW menu, see above)
|
|__ 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 setup item allows configuring the xweb machine parameters
- The view item displays the actual or archive data
- The device command item allows sending commands to the tools

```

      D e v i c e   C o m m a n d
→ R S 1 - 0 0 1   N e w _ X R 5 7 0 C
  R S 1 - 0 0 2   N e w _ X R 1 7 0 C
  R S 1 - 0 0 3   N e w _ X R 5 7 0 C ↓

```

```

R S 1 - 0 0 1   N e w _ X R 5 7 0 C
→ D e v i c e   O F F
  A l a r m   M u t e
  K e y b o a r d   U N - L O C K
  D e v i c e   O N
  A c t i v e   D e f r o s t
  K e y b o a r d   L O C K
  E n e r g y   s a v i n g   A c t i v e
  E n e r g y   s a v i n g   N O T   A c t i v e

```

- The global-command item allows sending groups of commands to the tools, as configured on the “overview” desktop
- The logout item forces the username and password entry for the subsequent operations that require them
- The About item allows displaying the info relating to the model in question

```

      A b o u t
. S o f t w a r e :   3 . 0 . 0 - A 7 - - 4 a 5 d
M a x   D e v i c e s :   5 0
C o d e :   J N P P B Z Z 5 0 0
M A C :   0 0 0 A F 1 2 3 4 5 6 7

```

3.4 WEB INTERFACE

Access the system from your PC by entering the XWEB 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 Web interface can be accessed with browser; we recommend using a high resolution device (typically available on a display of at least 7 inches) in order to be able to all information on all pages.



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.

The combobox below the password indicates to the system with which language the interface is to be used; if "User Default" is selected, the language used will be that set in the system for the user.

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: At the first access, for security reasons, XWEB EVO asks to insert a new password.



The icon indicates that access to the user interface for non-administrator users is blocked. This block is normally executed to indicate a system maintenance operation by a specialised operator.

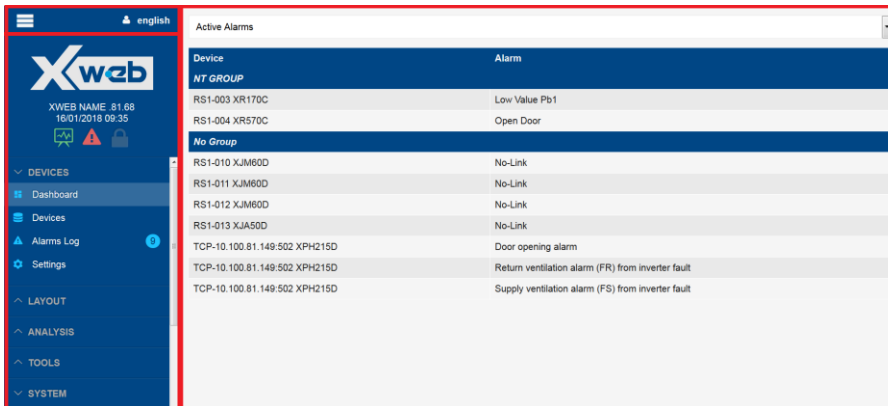


The icon indicates an alarm situation (e.g.: high temperature). It will be necessary to login with a valid username and password to be able to recognise the type of alarm and to analyse the system situation. The alarm icon does not automatically assume that the XWEB has activated the relay outputs (e.g. 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 XWEB.

Once logged in with the appropriate credentials, XWEB shows the user the navigation bar (with red border in the image below) that can be hidden/shown by pressing the  key at the top and always visible.

The position set by the user on the navigation bar defines the contents of the remainder of the web page.

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 visible bar shows:

- System Name
- Date and time of system
- Connected user name

By clicking on the user name, the system shows:

- User language



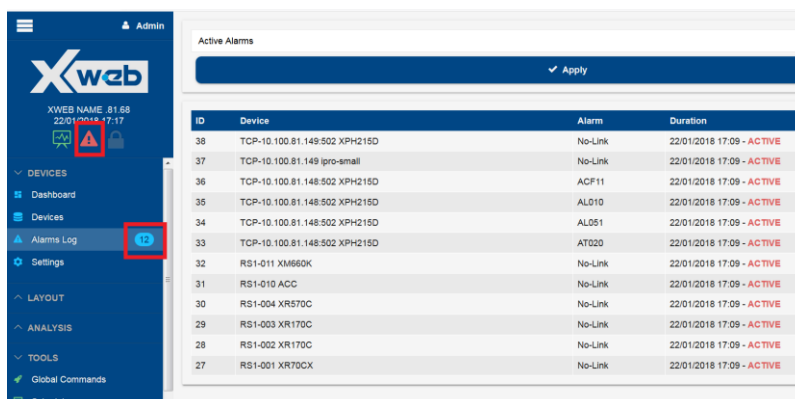
- Access status for non “admin” users;  /  = locked / unlocked

Click on the padlock icon to activate and deactivate the block: a dialog will appear to confirm the operation.

- State of the acquisitions;  /  = active / not active

Click on the computer icon to activate and deactivate the block: a dialog will appear to confirm the operation.

- Active alarms number



3.4.1 FIRST INSTALLATION

On first access to the XWEB interface of unconfigured product, the system proposes the following WIZARD SETP screen in which the user can retrieve the configuration from a possible backup file (“RESTORE SETUP”) or configure it by following the wizard procedure.

The procedure can also be activated with the system fully configured and is described in the chapter SYSTEM→WIZARD SETUP.

3.4.2 INTERFACE WITH SYSTEM CONFIGURED

- DEVICES
- LAYOUT
- ANALYSIS
- TOOLS
- SYSTEM

3.4.2.1 DASHBOARD

Dashboard

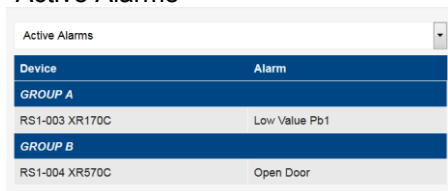
The dashboard has several views of the device network status.

Where the tool network is displayed in graphical form, the tool box colour indicates:

1. green in case of “no detected alarm” status;
2. red when at least one alarm has been detected;
3. grey when the tool is in maintenance mode

By clicking on the tool box, the interface moves to “Devices” for the selected tool.

- “Active Alarms”



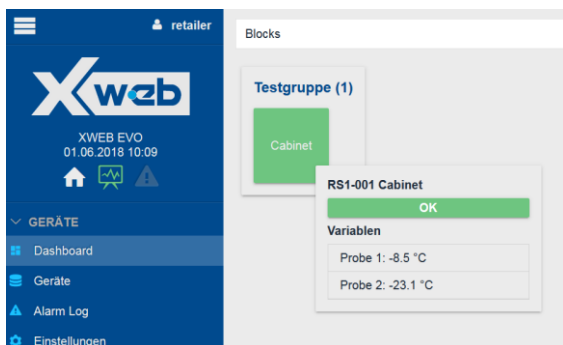
| Device | Alarm |
|----------------|---------------|
| GROUP A | |
| RS1-003 XR170C | Low Value Pb1 |
| GROUP B | |
| RS1-004 XR570C | Open Door |

All active alarms detected by the tool network are listed

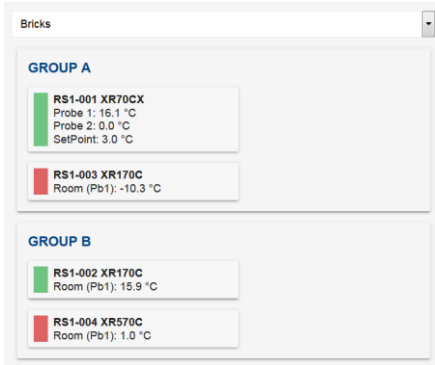
- “Blocks”



by hovering the mouse over a block, tooltip appears as shown below; the information on the variables displayed as per “devices settings”, and active alarms.



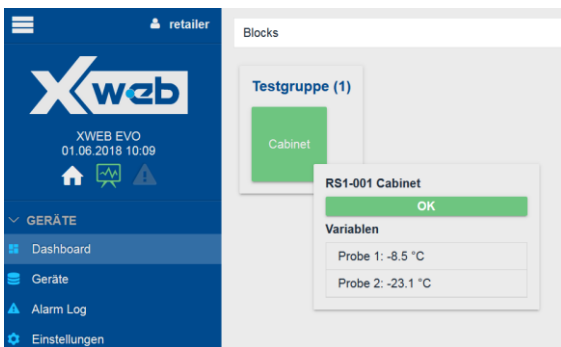
- “Bricks”



The variables selected as “Chart Default” (see “Devices→Settings”) are displayed for each tool with their name, their current value with the unit of measurement.

By clicking on the tool box, the interface moves to “Devices” for the selected tool.

by hovering the mouse over a block, tooltip appears as shown below; the information on the variables displayed as per “devices settings”, and active alarms.



- “List”

| Status | Address | Device |
|-----------------|---------|--------|
| LT GROUP | | |
| Green | RS1-001 | XR70CX |
| Green | RS1-002 | XR170C |
| NT GROUP | | |
| Red | RS1-003 | XR170C |
| Red | RS1-004 | XR570C |

In the images above the name of the device is the name of the electronic board; however the user can define the name of the device instead with the parameters described in the characters that follow.

3.4.2.2 DEVICES

Devices

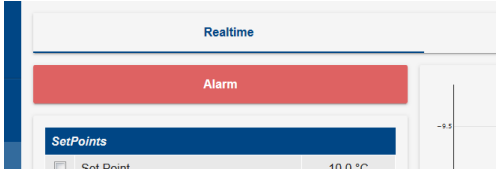
The Devices page is a panel for controlling the specific tool; the page is divided into sections.

3.4.2.2.1 REALTIME

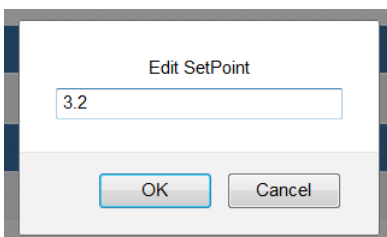
It shows, for the selected tool, the values of its variables updated in real time. And for the selected variables, it shows the chart of the trend of the last period.



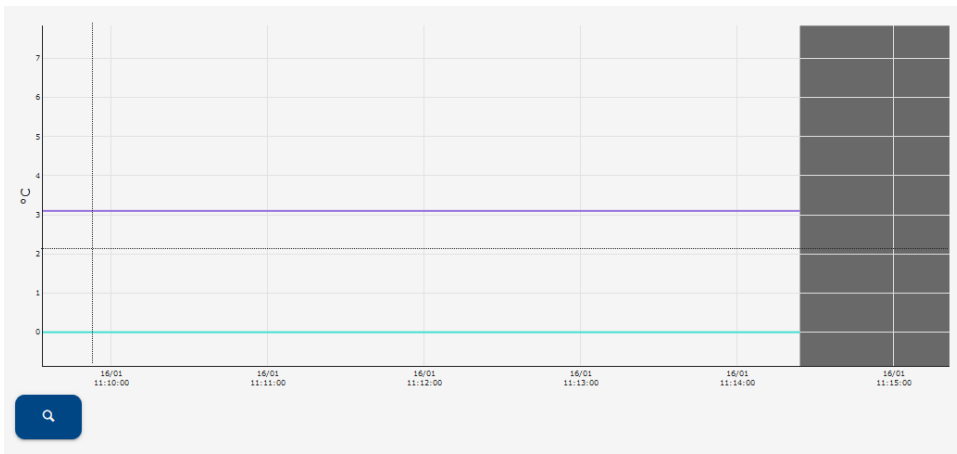
If the tool detects at least one alarm condition, it highlights it with a red bar.



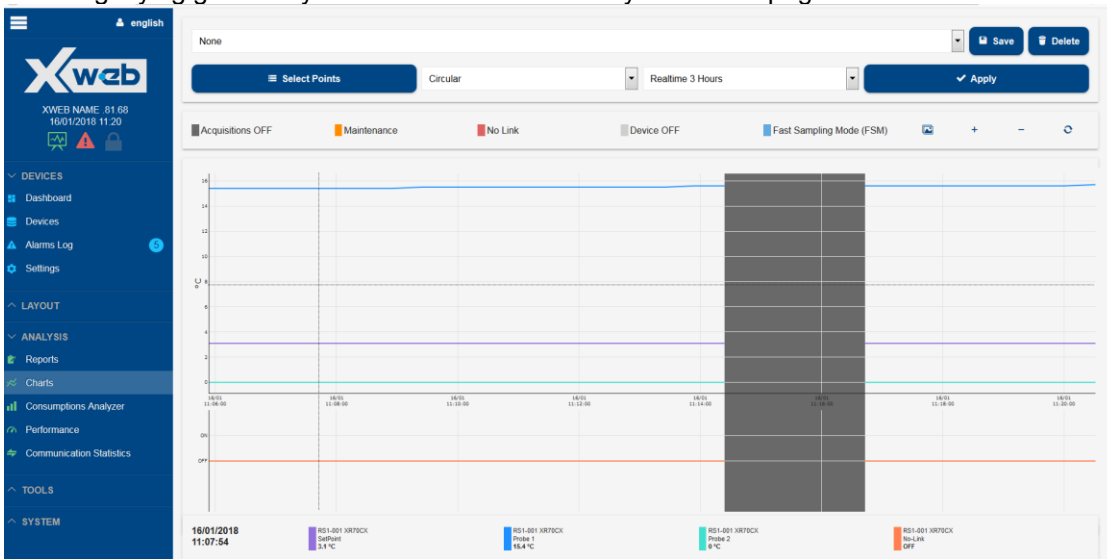
The setpoints are variables whose value can be set by the user; press on the area where the value is displayed to change it.



the chart cursor, typically the mouse, shows the value of the variables based on its position.



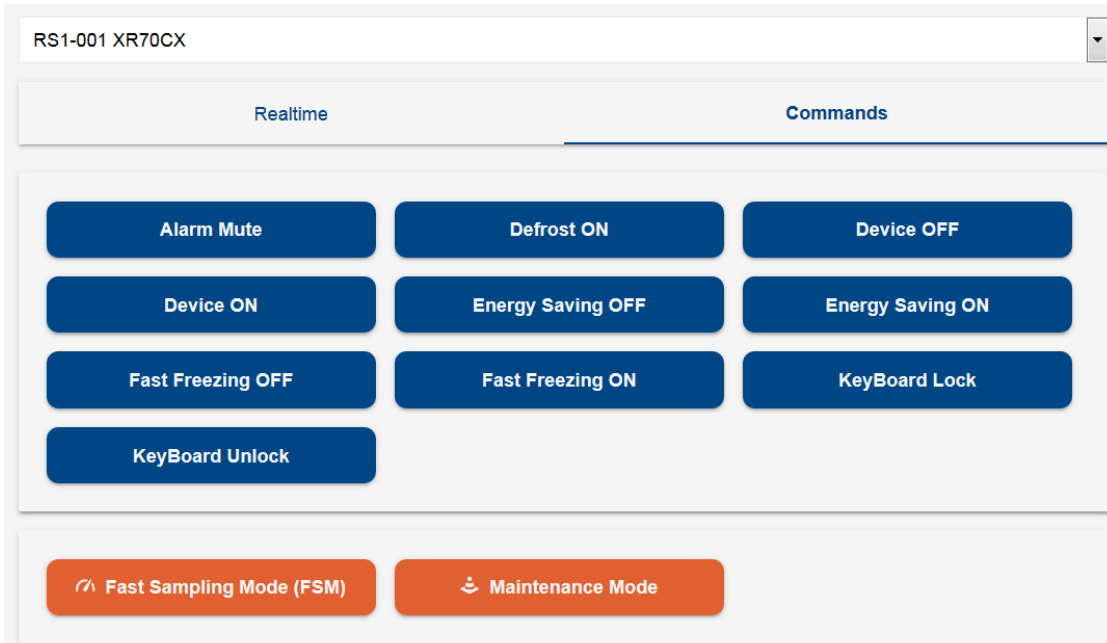
the “magnifying glass” key takes the user to the Analysis→Chart page to view the same data on full screen.



A summary of the main information of the tool is shown below the chart

| | |
|---------------------------------|--|
| Peripheral | RS485 1 (RS1) |
| Address | 3 |
| Model | XR170C 16 (0010) / 2.0 (0014) / 0.4 (0004) |
| Name | XR170C |
| Description | - |
| Group | NT GROUP |
| Communication Statistics | 95.28 % Success, 4.72 % Exception |

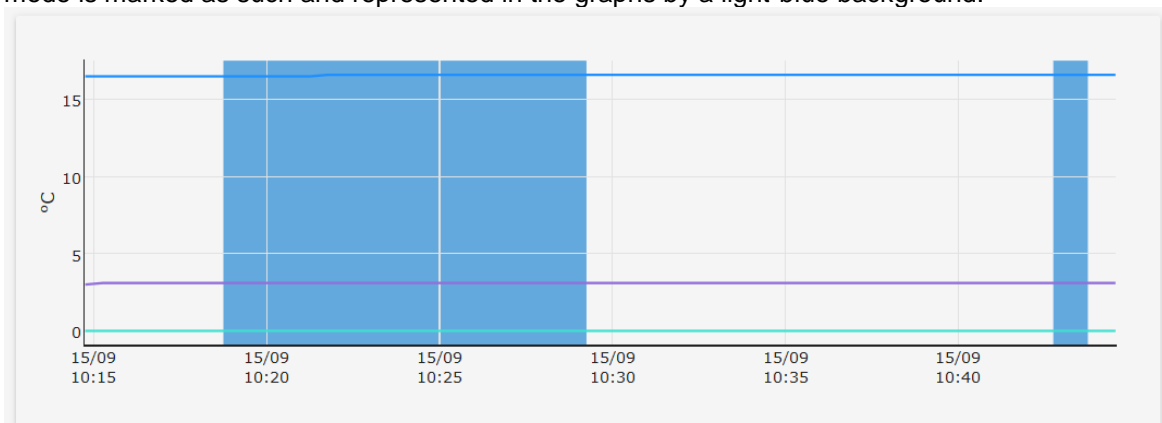
3.4.2.2 COMMANDS



for the selected tool it shows, with blue keys, the available commands that can be sent to the device itself. The list of available commands depends on the type of tool.

Also available below, the orange keys for the commands

- **FSM (Fast Sampling Mode)**
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 device 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. 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.



When the FSM mode is activated, the user is asked on which variables should priority be given

| Fast Sampling Mode (FSM) | |
|--------------------------|----------------|
| Analog | |
| <input type="checkbox"/> | Probe 1 |
| <input type="checkbox"/> | Probe 2 |
| <input type="checkbox"/> | Probe R |
| <input type="checkbox"/> | SetPoint |
| <input type="checkbox"/> | SetPoint R |
| Statuses | |
| <input type="checkbox"/> | Defrost |
| <input type="checkbox"/> | Energy Saving |
| <input type="checkbox"/> | Fast Freezing |
| <input type="checkbox"/> | Keyboard |
| <input type="checkbox"/> | On |
| Alarms | |
| <input type="checkbox"/> | EEPROM Failure |

- **Maintenance Mode**
the user can set the device in Maintenance mode for “Service” or “Cleaning” for a certain period, at the end of which the device will go back to being monitored normally.

Return to normal status can also be forced by the user by clicking on the “maintenance” key again; the user will be requested to confirm the stop. The maintenance status does not stop if the acquisitions are stopped.

Maintenance Mode
Are you sure to stop maintenance mode on this device?

Cancel **Stop**

Fast Sampling Mode (FSM) Maintenance Mode

With the maintenance modes any alarm generated by a connected tool is ignored. In general, every reading and writing operation on the tool is inhibited.

3.4.2.2.3 PARAMETERS

The “Parameters” page allows for the management of the parameters associated with the device operation.

Press “Read” to read all parameters and show them on the screen table; any unsaved changes on the devices will be lost. The parameters are shown divided by parameter group.

| ID | Label | Description | Min | Max | Value | Unit of Measure | Visibility | Reset | |
|-------------------------------------|-------|-------------|---------------------------------------|-------|-------|-----------------|------------|--------|--------------------------------------|
| Regulation | | | | | | | | | |
| <input checked="" type="checkbox"/> | 0 | SEt | Set point | -50.0 | 150.0 | 4 | °C | Always | <input type="button" value="Reset"/> |
| <input type="checkbox"/> | 1 | Hy | Differential | 0.1 | 25.5 | 2 | °C | Pr2 | <input type="button" value="Reset"/> |
| <input checked="" type="checkbox"/> | 2 | LS | Minimum set point | -55.0 | 4.0 | -50 | °C | Pr1 | <input type="button" value="Reset"/> |
| <input checked="" type="checkbox"/> | 3 | US | Maximum set point | 4.0 | 150.0 | 150 | °C | Pr1 | <input type="button" value="Reset"/> |
| <input type="checkbox"/> | 7 | AC | Anti-short cycle delay | 0 | 50 | 0 | min | Pr1 | <input type="button" value="Reset"/> |
| <input type="checkbox"/> | 8 | Con | Compressor ON time with faulty probe | 0 | 255 | 180 | min | Pr2 | <input type="button" value="Reset"/> |
| <input type="checkbox"/> | 9 | CoF | Compressor OFF time with faulty probe | 0 | 255 | 9 | min | Pr2 | <input type="button" value="Reset"/> |
| <input type="checkbox"/> | 10 | CH | Kind of action: heating cooling | | | Ht | | Pr1 | <input type="button" value="Reset"/> |
| <input type="checkbox"/> | 11 | CF | Temperature measurement unit | | | C | | Pr2 | <input type="button" value="Reset"/> |
| <input type="checkbox"/> | 12 | rES | Resolution | | | dE | | Pr2 | <input type="button" value="Reset"/> |
| Other | | | | | | | | | |
| <input type="checkbox"/> | 44 | rSE | Real set point | | | 0 | | Pr2 | <input type="button" value="Reset"/> |

The search bar runs a filter on the list of parameters, showing only those that include the entered string.

| ID | Label | Description | Min | Max | Value | Unit of Measure | Visibility | Reset | |
|-------------------------------------|-------|-------------|-------------------|-------|-------|-----------------|------------|--------|--------------------------------------|
| Regulation | | | | | | | | | |
| <input checked="" type="checkbox"/> | 0 | SEt | Set point | -50.0 | 150.0 | 4 | °C | Always | <input type="button" value="Reset"/> |
| <input checked="" type="checkbox"/> | 2 | LS | Minimum set point | -55.0 | 4.0 | -50 | °C | Pr1 | <input type="button" value="Reset"/> |
| <input checked="" type="checkbox"/> | 3 | US | Maximum set point | 4.0 | 150.0 | 150 | °C | Pr1 | <input type="button" value="Reset"/> |
| Other | | | | | | | | | |
| <input type="checkbox"/> | 44 | rSE | Real set point | | | 0 | | Pr2 | <input type="button" value="Reset"/> |

Each parameter whose value has been changed, is highlighted with the following colours:

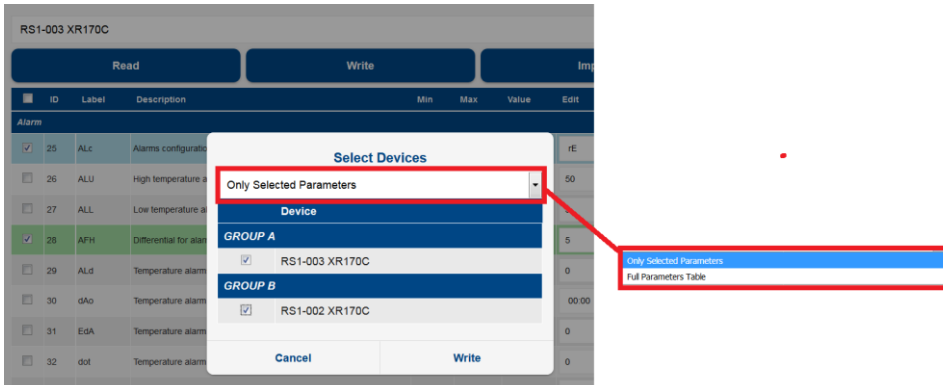
1. green, when the parameter value is correctly validated according to the tool rules and is ready to be written

| | | | | | | | | | | |
|-------------------------------------|----|-----|-----------------------|-----|----|-----|-----|----|-----|-----|
| <input checked="" type="checkbox"/> | 27 | ALL | Low temperature alarm | -50 | -5 | -50 | -10 | °C | Pr1 | Pr1 |
|-------------------------------------|----|-----|-----------------------|-----|----|-----|-----|----|-----|-----|

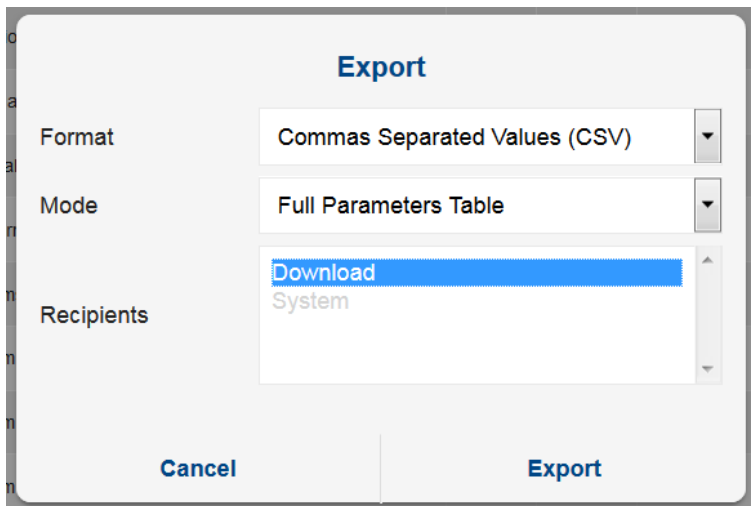
2. red, when the parameter value is in conflict with the tool rules. A single red parameter cannot allow the writing operation

| | | | | | | | | | | |
|-------------------------------------|----|-----|-----------------------|-----|----|-----|------|----|-----|-----|
| <input checked="" type="checkbox"/> | 27 | ALL | Low temperature alarm | -50 | -5 | -50 | -100 | °C | Pr1 | Pr1 |
|-------------------------------------|----|-----|-----------------------|-----|----|-----|------|----|-----|-----|

Press “Write” to transfer the parameter values on the screen, to the devices. The user can choose on which tools to write and whether to write all parameters or only the selected ones.



Press **“Export”** to save the parameter map creating a backup. The parameter map can be saved in the XWEB or downloaded on a PC as a ZIP file, through the browser.



The options available are:

1) Comma Separated Values (CSV)

| Index | Description | Model | Label | value | Min | Max | Udm |
|-------|---|--------|-------|-------|-------|-------|------|
| 0 | Differential | XR170C | Hy | 10.1 | 0.1 | 25.5 | Â°C |
| 1 | Minimum set-point | XR170C | LS | -30.0 | -50.0 | 10.0 | Â°C |
| 2 | Maximum set point | XR170C | US | 15.0 | 10.0 | 150.0 | Â°C |
| 3 | Output delay at power on | XR170C | ods | 1 | 0 | 255 | min |
| 4 | Anti-short cycle delay | XR170C | Ac | 0 | 0 | 30 | min |
| 5 | Fast freezing duration | XR170C | cct | 00:10 | | | |
| 6 | Compressor ON with faulty probe | XR170C | con | 15 | 0 | 255 | min |
| 7 | Compressor OFF with faulty probe | XR170C | coF | 30 | 0 | 255 | min |
| 8 | Measuring unit | XR170C | cF | Â°C | | | |
| 9 | Resolution | XR170C | rES | de | | | |
| 10 | Local display | XR170C | Lod | P1 | | | |
| 11 | Defrost type | XR170C | tdF | rE | | | |
| 12 | Defrost mode : RTC, interval, Smart-def | XR170C | EdF | Sd | | | |
| 13 | Set point for smart defrost | XR170C | SdF | 0 | -30 | 30 | Â°C |
| 14 | Defrost stop temperature 1st evaporator | XR170C | dtE | 8.0 | -50.0 | 150.0 | Â°C |
| 15 | Defrost intervall | XR170C | idF | 1 | 1 | 120 | hour |

2) Portable Document Format (PDF)

Device Parameters

System name : XWEB EVO NAME .81.68
 Device : RS1-003 XR170C
 Date : 15.09.2017 11:40
 Pages : 2

| Index | Description | Model | Label | value | Min | Max | Udm |
|-------|----------------------------------|--------|-------|-------|-------|-------|-----|
| 0 | Differential | XR170C | Hy | 10.1 | 0.1 | 25.5 | °C |
| 1 | Minimum set-point | XR170C | LS | -30.0 | -50.0 | 10.0 | °C |
| 2 | Maximum set point | XR170C | US | 15.0 | 10.0 | 150.0 | °C |
| 3 | Output delay at power on | XR170C | odS | 1 | 0 | 255 | min |
| 4 | Anti-short cycle delay | XR170C | Ac | 0 | 0 | 30 | min |
| 5 | Fast freezing duration | XR170C | cct | 00:10 | | | |
| 6 | Compressor ON with faulty probe | XR170C | con | 15 | 0 | 255 | min |
| 7 | Compressor OFF with faulty probe | XR170C | coF | 30 | 0 | 255 | min |
| 8 | Measuring unit | XR170C | cF | °C | | | |
| 9 | Resolution | XR170C | rES | de | | | |
| 10 | Local display | XR170C | Lod | P1 | | | |
| 11 | Defrost type | XR170C | tdF | rE | | | |

3) Microsoft Excel (XLS)

| Index | Description | Model | Label | value | Min | Max | Udm |
|-------|---|--------|-------|-------|-------|-------|------|
| 0 | Differential | XR170C | Hy | 10.1 | 0.1 | 25.5 | °C |
| 1 | Minimum set-point | XR170C | LS | -30.0 | -50.0 | 10.0 | °C |
| 2 | Maximum set point | XR170C | US | 15.0 | 10.0 | 150.0 | °C |
| 3 | Output delay at power on | XR170C | odS | 1 | 0 | 255 | min |
| 4 | Anti-short cycle delay | XR170C | Ac | 0 | 0 | 30 | min |
| 5 | Fast freezing duration | XR170C | cct | 00:10 | | | |
| 6 | Compressor ON with faulty probe | XR170C | con | 15 | 0 | 255 | min |
| 7 | Compressor OFF with faulty probe | XR170C | coF | 30 | 0 | 255 | min |
| 8 | Measuring unit | XR170C | cF | °C | | | |
| 9 | Resolution | XR170C | rES | de | | | |
| 10 | Local display | XR170C | Lod | P1 | | | |
| 11 | Defrost type | XR170C | tdF | rE | | | |
| 12 | Defrost mode : RTC, interval, Smart-def | XR170C | EdF | Sd | | | |
| 13 | Set point for smart defrost | XR170C | SdF | 0 | -30 | 30 | °C |
| 14 | Defrost stop temperature 1st evaporator | XR170C | dIE | 8.0 | -50.0 | 150.0 | °C |
| 15 | Defrost interval | XR170C | idF | 1 | 1 | 120 | hour |
| 16 | Maximum defrost duration 1st evaporator | XR170C | MdF | 0 | 0 | 255 | min |

4) Wizmate (BIN)

ds ▶ XR170C_RS1-003_20170915114422.zip

| Name | Type | Compressed size | Password p |
|-----------|-----------|-----------------|------------|
| data.info | INFO File | 1 KB | No |
| map.bin | BIN File | 1 KB | No |

with this option, XWEB exports a ZIP file that includes the “data.info” and “map.bin” files. For use with WIZMATE simply open the BIN file, assuming that the tool WIZMATE library is already installed correctly in the same WIZMATE.

Wizmate 1.2.0.72

Mappe Rete Descrizioni Personalizzate Compara Mappe Grafici RT

Apri Mappa Salva Mappa Leggi da dispositivo Scrive nel dispositivo Programma Hotkey Leggi da Hotkey Avvia Wizard Salva Excel Stampa Mappa Selezione Selezione Filtro Descrizioni Multilingua

Model **XR170C** FW **2.0**

Note

| Gruppo | Parametro | Descrizione | Valore | | Visibilità | Unità | | Commento | Attivo |
|-------------|-----------|--|----------|-----------|------------|--------|---------|----------|-------------------------------------|
| | | | Modifica | Originale | | Minimo | Massimo | | |
| Regolazione | Hy | Isteresi | 10.1 | 10.1 | Pr1 | 0.1 | 25.5 | °C | <input checked="" type="checkbox"/> |
| Regolazione | Ac | Ritardo partenze ravvicinate | 0 | 0 | Pr1 | 0 | 30 | min | <input checked="" type="checkbox"/> |
| Regolazione | rES | Risoluzione (per C): interi / decimali | de | de | Pr1 | | | | <input checked="" type="checkbox"/> |
| Defrost | tdF | Tipo di sbrinamento | rE | rE | Pr1 | | | | <input checked="" type="checkbox"/> |
| Defrost | dtE | Temperatura fine sbrinamento 1 evaporato | 8.0 | 8.0 | Pr1 | -50.0 | 150.0 | °C | <input checked="" type="checkbox"/> |
| Defrost | idF | Intervallo fra i cicli di sbrinamento | 1 | 1 | Pr1 | 1 | 120 | hour | <input checked="" type="checkbox"/> |
| Defrost | MdF | Durata (massima) 1 sbrinamento | 0 | 0 | Pr1 | 0 | 255 | min | <input checked="" type="checkbox"/> |
| Allarme | ALU | Allarme di massima temperatura | 50.0 | 50.0 | Pr1 | 0.0 | 50.0 | °C | <input checked="" type="checkbox"/> |
| Allarme | ALL | Allarme minima temperatura | 5.0 | 5.0 | Pr1 | 0.0 | 50.0 | °C | <input checked="" type="checkbox"/> |
| Sonda | ot | Calibrazione sonda termostato | 12.0 | 12.0 | Pr1 | -12.0 | 12.0 | °C | <input checked="" type="checkbox"/> |
| Altro | Adr | Indirizzo seriale | 3 | 3 | Pr1 | 1 | 247 | | <input checked="" type="checkbox"/> |
| Sonda | Pbc | Selezione tipo di sonda | ntc | ntc | Pr1 | | | | <input checked="" type="checkbox"/> |
| Regolazione | Set | Set Point | 10.0 | 10.0 | | -30.0 | 15.0 | °C | <input checked="" type="checkbox"/> |

Press "Import" to load the parameter set saved previously with the Export procedure, into the parameter table on the screen.

Import

Upload

| Media | Date | File Name | Comment | Delete | Import |
|-------------------|---------------------|-----------------------------------|---------|--------|--------|
| EVO backup folder | 12/06/2017 10:50:11 | XR170C_RS1-002_20170612105011.zip | | Delete | Import |
| EVO backup folder | 31/05/2017 10:06:33 | XR170C_RS1-003_20170531100633.zip | comment | Delete | Import |
| EVO backup folder | 12/06/2017 15:16:16 | XR570C_RS1-004_20170612151616.zip | | Delete | Import |
| EVO backup folder | 24/05/2017 17:13:51 | XR70CX_RS1-001_20170524171351.zip | (auto) | Delete | Import |

Close

Press "Upload" if the backup to be loaded is not among those saved in the XWEB memory.

Management of visibility and editability of the parameters of the controllers

In the configuration of each profile, the highest level parameters are managed: visibility and editability.

Visibility: allowed to read the value of the parameter.

Editability: allowed to change the value to the parameter.

The following parameters are available:

- Edit Parameters Visibility: allows you to set the value of the visibility parameter and is present in the instrument. The maximum value that can be set will depend on the instrument itself and on its "Parameters Visibility Level".
- Edit Parameters Editability: manages the value of the editability parameter for the controllers that use this function (for example ICHILL) and is present in the instrument. The maximum value that can be set will depend on the instrument and its "Parameters Visibility Level".
- Parameters Visibility Level: it is present in the XWEB EVO system and can be set between Pr0 and Pr9; the value identifies the maximum level of visibility / editability of the parameters.

Example:

- Admin User: "Parameters Visibility Level" = Pr9.

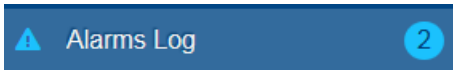
Reading the parameters from the XR170C tool, these are presented to the user as shown below. The user sees all the parameters and can set the visibility between Pr1 and Pr2 (the only options managed by the controller). On this controller it is not possible to manage the editability so all the accessible parameters are always editable.

| Regulation | | | | | | | | | |
|--------------------------|---|-----|----------------------------------|-------|-------|-------|-----|-----|--------|
| <input type="checkbox"/> | 0 | Hy | Differential | 0.1 | 25.5 | 10.1 | °C | Pr2 | Always |
| <input type="checkbox"/> | 1 | LS | Minimum set-point | -50.0 | 3.0 | -30 | °C | Pr1 | Always |
| <input type="checkbox"/> | 2 | US | Maximum set point | 3.0 | 150.0 | 15 | °C | Pr2 | Always |
| <input type="checkbox"/> | 3 | odS | Output delay at power on | 0 | 255 | 1 | min | Pr2 | Always |
| <input type="checkbox"/> | 4 | Ac | Anti-short cycle delay | 0 | 30 | 0 | min | Pr1 | Always |
| <input type="checkbox"/> | 5 | cct | Fast freezing duration | | | 00:10 | | Pr2 | Always |
| <input type="checkbox"/> | 6 | con | Compressor ON with faulty probe | 0 | 255 | 15 | min | Pr2 | Always |
| <input type="checkbox"/> | 7 | coF | Compressor OFF with faulty probe | 0 | 255 | 30 | min | Pr2 | Always |
| <input type="checkbox"/> | 8 | cF | Measuring unit | | | °C | | Pr2 | Always |

• User Pr1: "Parameters Visibility Level" = Pr1.
 Reading the parameters from the same instrument, these are presented to the user as shown below. The user sees all the parameters up to Pr1.

| ID | Label | Description | Min | Max | Value | Unit of Measure | Visibility | Editability | |
|--------------------------|-------|-------------|------------------------|-------|-------|-----------------|------------|-------------|--------|
| Regulation | | | | | | | | | |
| <input type="checkbox"/> | 0 | Ac | Anti-short cycle delay | 0 | 30 | 0 | min | Pr1 | Always |
| <input type="checkbox"/> | 1 | rES | Resolution | | | dE | | Pr1 | Always |
| <input type="checkbox"/> | 12 | Set | Set point | -50.0 | 150.0 | 3 | °C | Always | Always |

3.4.2.3 ALARMS LOG



The “alarms” page displays the list of

1. active alarms

| ID | Device | Alarm | Duration |
|-----|-------------------------------|---------------|----------------------------------|
| 108 | RS1-003 XR170C | Low Value Pb1 | 16/01/2018 10:00 - ACTIVE |
| 107 | TCP-10.100.81.149.502 XPH215D | AL004 | 16/01/2018 09:47 - ACTIVE |
| 106 | TCP-10.100.81.149.502 XPH215D | AL034 | 16/01/2018 09:47 - ACTIVE |
| 105 | TCP-10.100.81.149.502 XPH215D | AL038 | 16/01/2018 09:47 - ACTIVE |
| 104 | RS1-004 XR570C | Open Door | 16/01/2018 09:47 - ACTIVE |

as in the above image, all alarms currently detected on the active tool line(s) are displayed.

2. advanced filter

as shown below, the active alarms and the log of alarms occurred in the past are displayed. The user can define the list to be displayed, by setting filters to display only alarms of particular interest.

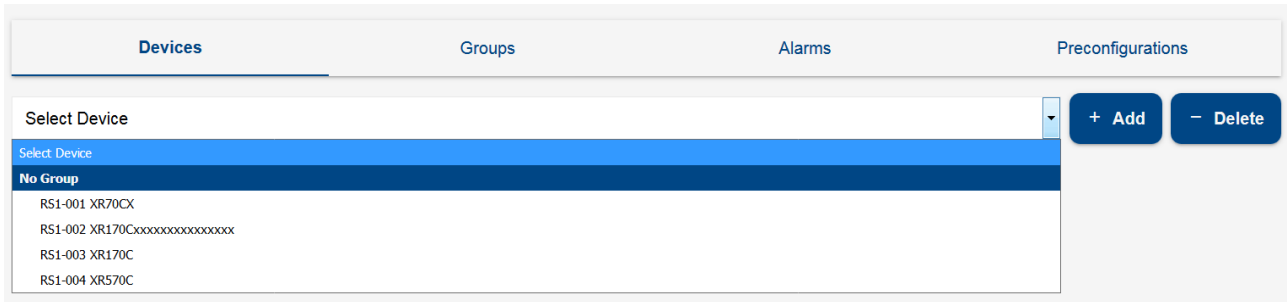
| ID | Device | Alarm | Duration |
|-----|----------------|---------------|-------------------------------------|
| 242 | RS1-004 XR570C | Open Door | 09/10/2017 14:11 - ACTIVE |
| 241 | RS1-003 XR170C | Low Value Pb1 | 09/10/2017 14:11 - ACTIVE |
| 240 | RS1-018 E93 | No-Link | 09/10/2017 12:49 - 09/10/2017 14:10 |
| 239 | RS1-004 XR570C | Open Door | 09/10/2017 12:46 - 09/10/2017 14:10 |
| 238 | RS1-003 XR170C | Low Value Pb1 | 09/10/2017 12:46 - 09/10/2017 14:10 |

3.4.2.4 SETTINGS



The configuration parameters of the tools connected to XWEB are set in this section.

3.4.2.4.1 DEVICES

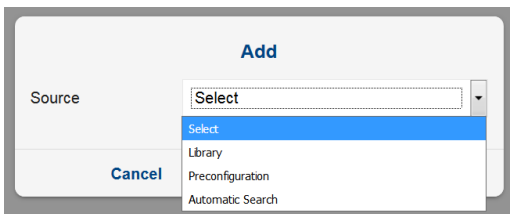


Here you can configure the XWEB parameters for the tool. In this page you can also add or remove tools from the XWEB configuration.

3.4.2.4.1.1 ADD

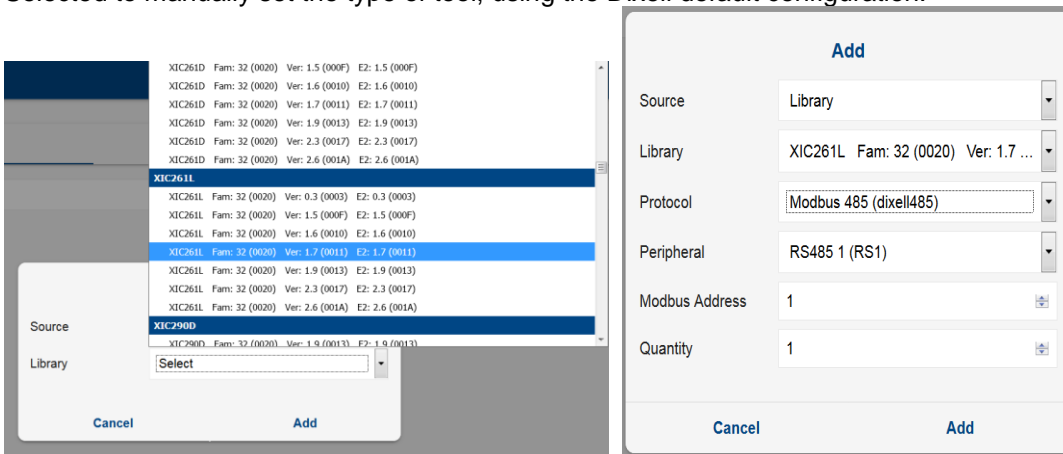
By pressing the **ADD key**, the user chooses to add a new tool to the XWEB device network.

The options available are:



1. Library

Selected to manually set the type of tool, using the Dixell default configuration.



The user must manually set

- Library name
- Protocol
 - **Modbus 485 (dixell485):** for wired networks (no wireless)

- **Modbus 485 iCool (dixell485-icool):** for wireless networks with the use of iCOOL modules
 - **Modbus ASCII (mdb_ASCII):** for ASCII modbus devices
 - **Modbus TCP/IP (mb485tcpip):** for modbus-485 devices connected on gateway tcp/ip
 - **Modbus 485 over TCP/IP (mbtcpip):** for modbus devices on tcpip
- Peripheral
 - XWEB 300/500 allows managing 1 serial line that can address up to 247 devices.
 - XWEB3000/5000 two lines and each line can address a maximum of 247 devices.
 - Modbus Address
 - Modbus address to which the tool must respond
 - Quantity
 - number of tools with the same characteristics to add to the tool network configuration

2. Preconfiguration

You choose to manually set the tool, using a customised configuration and previously saved in the system from Devices→Export.

3. Automatic Search

You choose the automatic search to set devices with unknown modbus address.

| Address | Model | Family | Version | E2 | Preconfiguration | Name | Group |
|---------|--------|--------|---------|-----|------------------|--------|----------|
| 1 | XR70CX | 44 | 1.0 | 0.1 | Library | XR70CX | No Group |
| 2 | XR170C | 16 | 2.0 | 0.4 | Library | XR170C | No Group |
| 3 | XR170C | 16 | 2.0 | 0.4 | Library | XR170C | No Group |
| 4 | XR570C | 16 | 2.0 | 0.4 | Library | XR570C | No Group |

The EDIT key allows setting the preconfiguration/name/group, the configuration of selected devices in a single click.

Edit

2 Devices Selected

Preconfiguration: Library

Name: TEST

Group: No Group

Cancel Edit

→

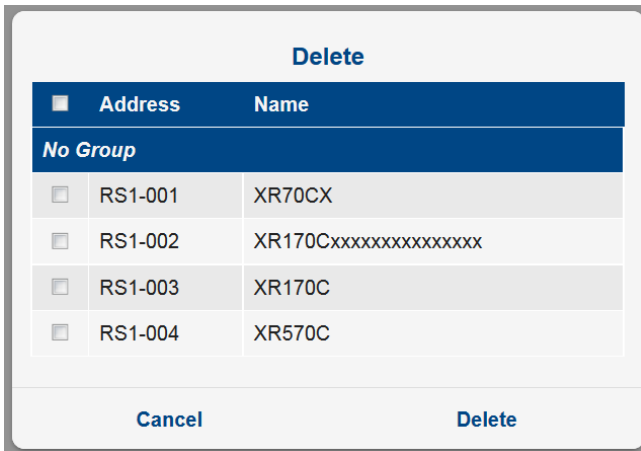
Automatic Search

| Address | Model | Family | Version | E2 | Preconfiguration | Name | Group |
|---------|--------|--------|---------|-----|------------------|--------|----------|
| 1 | XR70CX | 44 | 1.0 | 0.1 | Library | XR70CX | No Group |
| 2 | XR170C | 16 | 2.0 | 0.4 | Library | TEST | No Group |
| 3 | XR170C | 16 | 2.0 | 0.4 | Library | XR170C | No Group |
| 4 | XR570C | 16 | 2.0 | 0.4 | Library | TEST | No Group |

Cancel Add

3.4.2.4.1.2 DELETE

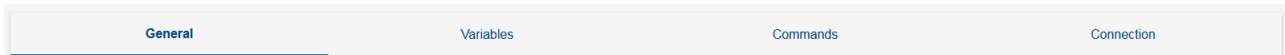
By pressing the **Delete key**, the user chooses to remove an already configured tool from the XWEB device network.



You can remove the configuration of the selected tools. The removal is permanent and cannot be subsequently cancelled: please be careful when removing the devices and you are advised to always make a backup/preconfiguration for subsequent retrieval, if necessary.

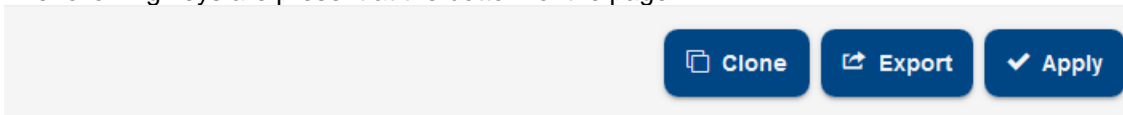
3.4.2.4.1.3 DEVICE SELECTION

By **selecting the tool** from the combobox, its configuration parameters are displayed. When the selection is made, the page updates and is divided into sections



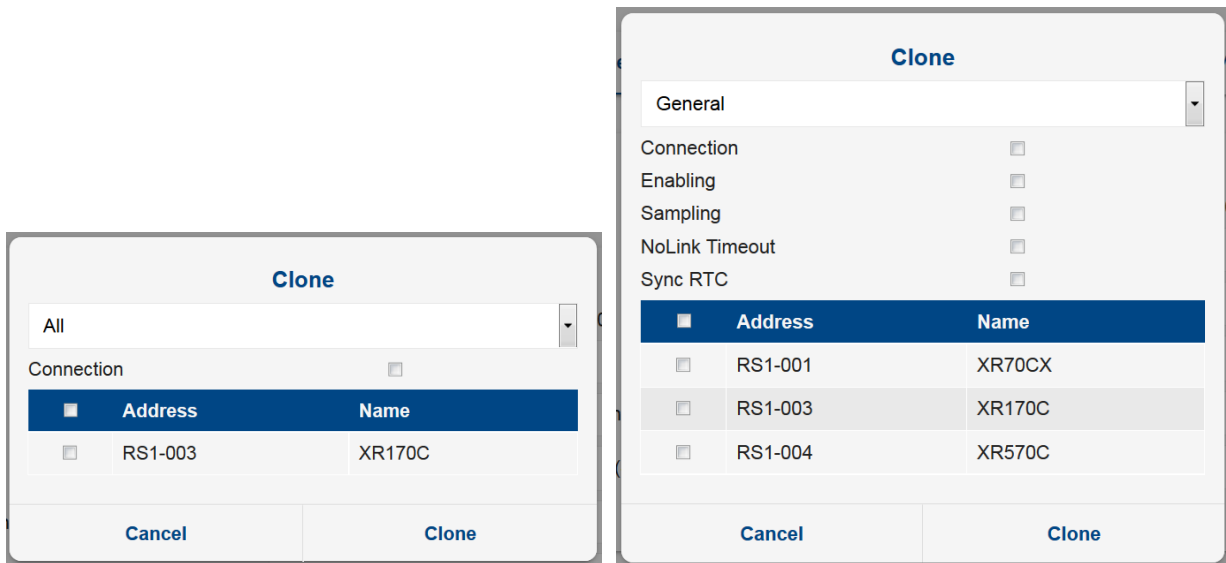
Each of these sections includes a part of the parameters necessary for the operation of the individual device.

The following keys are present at the bottom of the page



3.4.2.4.1.3.1 CLONE

To clone the configuration parameters between tools.



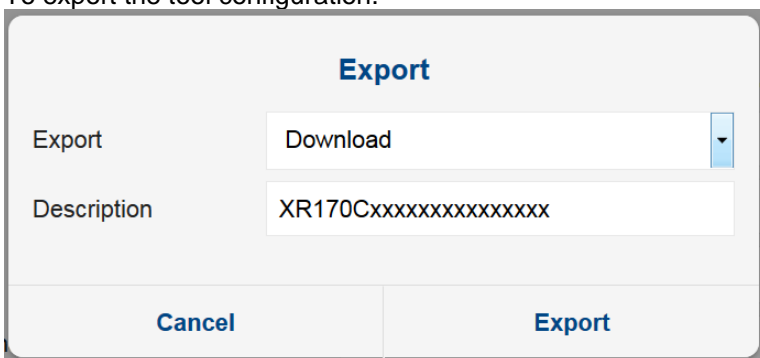
There are two possible options:

- "All": applicable only to compatible devices. For a copy of all device parameters.
- "General": applicable to all devices. For a copy of parameters only.

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.

3.4.2.4.1.3.2 EXPORT

To export the tool configuration.



The following options are available:

- System

Saves the configuration for the tool in the XWEB memory. The configuration thus produced is subsequently available from the Devices→Settings→Preconfigurations menu.

- Download

To save the tool configuration through computer memory, from the browser.

3.4.2.4.1.3.3 APPLY

To make the configuration changes operational. The operation has immediate effect.

3.4.2.4.1.3.4 GENERAL

| General | |
|--------------------------|---|
| Peripheral | RS485 1 (RS1) |
| Address | 1 |
| Model | XR70CX 44 (002C) / 1.0 (000A) / 0.1 (0001) |
| Name | <input type="text" value="XR70CX"/> |
| Description | <input type="text"/> |
| Enabling | Enabled, do not sample while OFF <input type="button" value="v"/> |
| Sampling (Seconds) | <input type="text" value="300"/> <input type="button" value="v"/> |
| NoLink Timeout (Seconds) | <input type="text" value="200"/> <input type="button" value="v"/> |
| Sync RTC | <input type="checkbox"/> |

- **Peripheral:** communication channel (e.g. serial port)
- **Address:** modbus address
- **Model:** for each model there is a specific library/driver
- **Name:** name
- **Description:** description
- **Enabling:** enabling status
- **Sampling:** recording interval in permanent memory of the configured variables (in seconds)
- **No Link Timeout:** maximum time of failed communication with device before the no-link alarm (in seconds)
- **Sync RTC:** enabling to clock synchronisation (where available) with XWEB. The update operation is automatic.

3.4.2.4.1.3.5 VARIABLES

| Variables | | | | | | | |
|-------------------------------------|---------------|-----------------|-------------------------------------|----------------|--|----------------|-------------------------------------|
| <input type="text" value="Search"/> | | | | | | | |
| SetPoints | | | | | | | |
| Label | Label (en-GB) | Unit of Measure | Enabling | Record on Edge | Chart Default | Alarm Category | Alarm Notification |
| SetPoint | SetPoint | °C | <input checked="" type="checkbox"/> | | <input type="checkbox"/> <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> |
| SetPoint-F | SetPoint-F | °F | <input type="checkbox"/> | | <input type="checkbox"/> <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> |
| SetPoint-I | SetPoint-I | °C | <input type="checkbox"/> | | <input type="checkbox"/> <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> |
| Analog | | | | | | | |
| Label | Label (en-GB) | Unit of Measure | Enabling | Record on Edge | Chart Default | Alarm Category | Alarm Notification |
| Probe 1 | Probe 1 | °C | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> <input type="checkbox"/> | | <input checked="" type="checkbox"/> |
| Probe 1-F | Probe 1-F | °F | <input type="checkbox"/> | | <input type="checkbox"/> <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> |
| Probe 1-I | Probe 1-I | °C | <input type="checkbox"/> | | <input type="checkbox"/> <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> |
| Probe 2 | Probe 2 | °C | <input checked="" type="checkbox"/> | | <input type="checkbox"/> <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> |
| Probe 2-F | Probe 2-F | °F | <input type="checkbox"/> | | <input type="checkbox"/> <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> |
| Probe 2-I | Probe 2-I | °C | <input type="checkbox"/> | | <input type="checkbox"/> <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> |

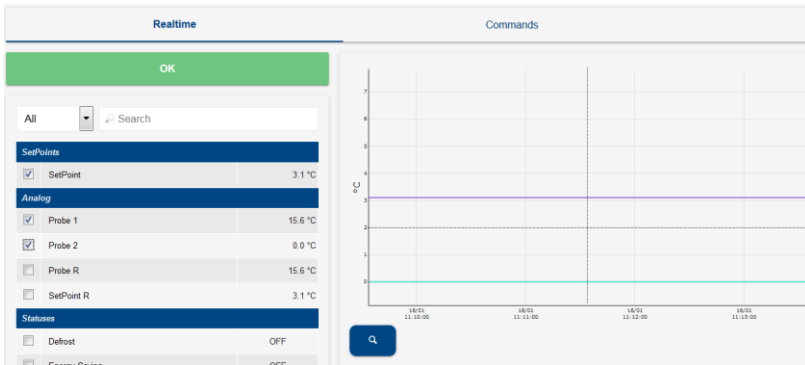
On this page the user can set the description (**Label** field) as variable, ie the string with which the variable appears in the other XWEB windows. The description string is in the original language and this allows customising the text for each language with which the system is accessed. For example, “Probe 1” (default string) can be set to “Sonda 1” for Italian users and “Sonde 1” for German users; to configure the string per

language, the administrator must access the system with the language to be customised. The UDM field is for the unit of measurement.

Enabling indicates to the system whether the variable must be read or not by the tool; the enabling of the variable must be limited as much as possible since the higher the number of variables read by XWEB, the lower will their update speed be.

Record on edge (only available for digital type variables) indicates to the system to sample at threshold change or in time (default).

Chart Default: this parameter defines whether the variable is enabled or not and its default colour for the device's charting. For example:



Alarm Category: this parameter, only settable for the digital variables, defines the notification enabling as alarm with relay, email, sms, etc.

The screenshot shows the 'Variables' configuration page for device RS1-001 XR70CX. The table lists variables with their configuration parameters. The 'Alarm Category' column is highlighted in yellow for several rows.

| Label | Label (en-GB) | Unit of Measure | Enabling | Record on Edge | Chart Default | Alarm Category | Alarm Notification |
|---|----------------|-----------------|-------------------------------------|--------------------------|--------------------------|------------------|-------------------------------------|
| <input type="checkbox"/> SetPoint | SetPoint | °C | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | <input checked="" type="checkbox"/> |
| Analog | | | | | | | |
| Statuses | | | | | | | |
| Alarms | | | | | | | |
| <input type="checkbox"/> EEPROM Failure | EEPROM Failure | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | High Temperature | <input type="checkbox"/> |
| <input type="checkbox"/> Error Pb1 | Error Pb1 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Default | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> Error Pb2 | Error Pb2 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Default | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> High Value Pb1 | High Value Pb1 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Default | <input checked="" type="checkbox"/> |

Alarm Notification: this parameter defines the enabling of the variable in the snapshot table in the event an alarm is notified via email for this tool

3.4.2.4.1.3.6 CONNECTION

The XWEB connection parameters with the tool are defined in this page. The change of parameters maintains the log data for the tool.

| Connection | | | |
|-----------------|-----------------|-------|-------|
| Connection | | | |
| RS485 | | | RS485 |
| RS485 Settings | | | |
| Property | Value | Edit | |
| Peripheral | RS1 | RS1 | |
| Address | 1 | 1 | |
| Wireless | No | No | |
| Modbus Type | RTU | RTU | |
| Timeout (ms) | 150 | 150 | |
| Serial Settings | | | |
| Property | Library Default | Value | Edit |
| Speed | - | 9600 | 9600 |
| Parity | - | n | n |
| Data Bits | - | 8 | 8 |
| Stop Bit | - | 1 | 1 |
| Interframe (ms) | - | 30 | 30 |
| DTR ON (ms) | - | 5 | 5 |

3.4.2.4.1.3.7 COMMANDS

| Commands | | |
|-------------------|-------------------|-------------------------------------|
| Search | | |
| Label | Label (en-GB) | Enabling |
| Alarm Mute | Alarm Mute | <input checked="" type="checkbox"/> |
| Aux OFF | Aux Off | <input type="checkbox"/> |
| Aux ON | Aux On | <input type="checkbox"/> |
| Active Defrost | Defrost ON | <input checked="" type="checkbox"/> |
| Device OFF | Device OFF | <input checked="" type="checkbox"/> |
| Device ON | Device ON | <input checked="" type="checkbox"/> |
| Energy saving OFF | Energy Saving OFF | <input checked="" type="checkbox"/> |
| Energy saving ON | Energy Saving ON | <input checked="" type="checkbox"/> |
| Fast Freeze OFF | Fast Freezing OFF | <input checked="" type="checkbox"/> |
| Fast Freeze ON | Fast Freezing ON | <input checked="" type="checkbox"/> |
| Humidity Fan OFF | Humidity Fan OFF | <input type="checkbox"/> |

The list of commands for the tool is configured on this page. The description can be customised and is in original language, ie valid for all users accessing the xweb interface with the same language. The command is available on the XWEB pages when Enabling is enabled.

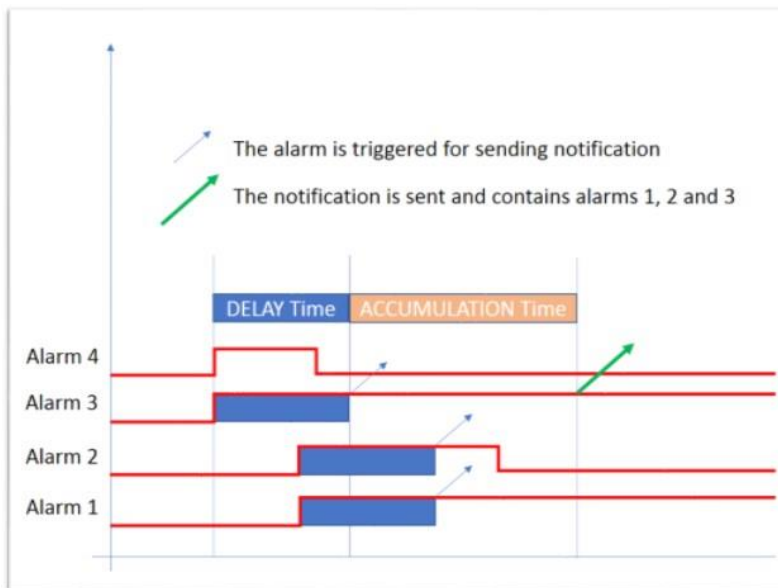
3.4.2.4.2 ALARMS

| Devices | Alarms | Groups | Preconfigurations | Updates |
|--------------|-----------------------|---------------------|-------------------|---------|
| + Categories | | | | |
| Label | Delay | Accumulation on end | Levels | |
| Default | 0 Minutes | 0 Minutes | | |
| + Levels | | | | |
| Label | Accumulation on start | Resend | Change Level | |
| DEFAULT | 0 Minutes | 0 Minutes | - | |

In this section you configure the device alarm variables and how they make the XWEB system react when they are detected. The XWEB uses this information to detect the alarms from the controllers and notify their status to the users in the book.

3.4.2.4.2.1 PRINCIPLES OF OPERATION

For the alarms to be considered as such, they must be part of an alarm category. Once the 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.



in the image example above alarm # 4 resets before the "Delay" time and therefore no notification is generated for him. Alarm # 2 resets before the accumulation time but its notification is still queued.

3.4.2.4.2.2 CATEGORIES

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.

- **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 it can be used as if it were.
- **Accumulation on end:** 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. 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";
- **Levels:** notification levels. 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".

The screenshot shows a configuration window titled "Accumulation on end" with a sub-header "Category". The "Name" field contains "High Temperature". Below it are three input fields: "Delay (Minutes)" with the value "0", "Accumulation on end (Minutes)" with the value "1", and five "Level" dropdown menus. Level 1 is set to "DEFAULT", Level 2 is set to "None", and Levels 3, 4, and 5 are also set to "None". At the bottom of the window are two buttons: "Cancel" and "Add".

If the alarm is still active after the "Resend" time (after the first notification), XWEB will send another email as the first as a reminder of a pending active alarm. This cycle will continue until the alarm is reset OR if a level change occurs.

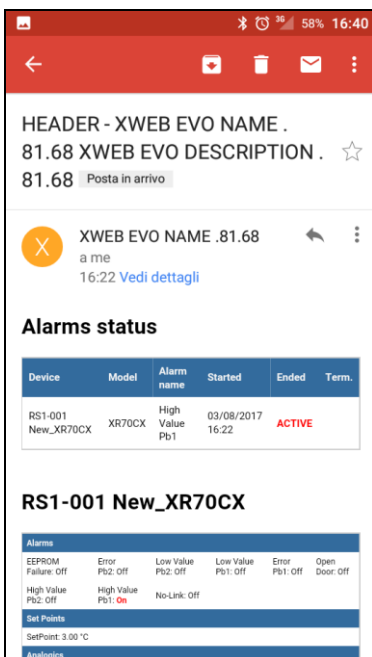
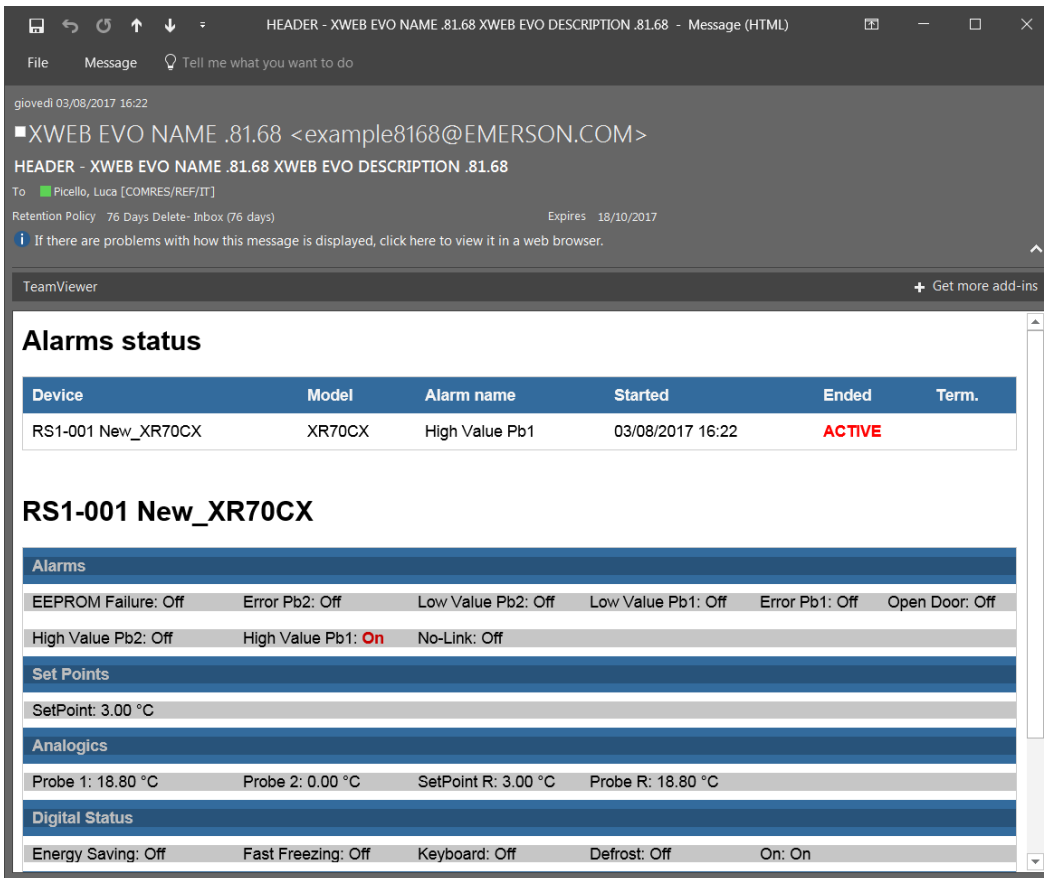
If the alarm is still active after the level change time (which must always be longer than the "Resend" time), XWEB will move the Category to the next level, notifying all resources of this level. The return time is now reconfigured on these level settings. In case Resend is set to 0, the Change level function is disabled. Alarms in the same category may only send a cumulative e-mail when they end in the time period configured in "Accumulation at the end". For example. a group of No-link alarms that all end in 2 minutes could only generate an email. As for the Accumulation at the start "

3.4.2.4.2.3 LEVELS

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

- **Name:** identifies the notification level
- **Site Manager Priority:** priority for Emerson Site Manager
- **Notify on Start:** 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 at start-up 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
- **Level change time:** 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.
- **Notification services:**
 1. AUX2/AUX3: the alarm notification occurs by means of the local relay, physically present on rear of the XWEB machine. The configuration parameters of these relays are available on page "SYSTEM→SETTINGS→INPUTS/OUTPUTS". Caution: on models 500D/500 the entries AUX2/AUX3 are identified with names AUX1 and AUX2. For XWEB300D the system relay is called 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. 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 (XWEB3000/5000 only): the alarm notification is performed through means of a fax message being sent over the telephone line
 6. FAX OCR (XWEB3000/5000 only): 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 the sending of an e-mail message.



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

The email format 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_00dbelc4.5236b
```

This is a multi-part message in MIME format.

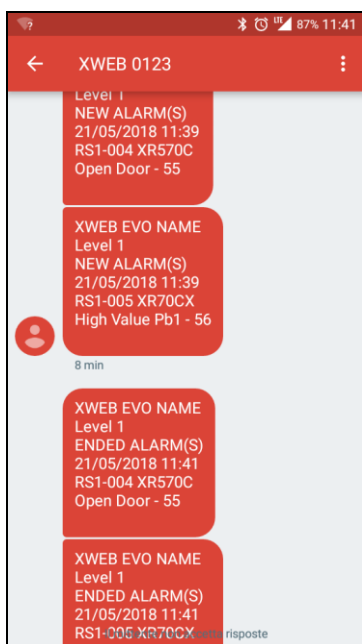
```
-----=_NextPart_001_00dbelc4.5236b6ac  
Content-Type: text/plain
```

```
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_00dbelc4.5236b6ac  
Content-Type: text/html
```

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

7. SMS: the alarm notification is performed by means of the sending of an SMS message



- **Email/FAX header:** customised text entered in the object
- **Calendar:** filter calendar on alarm notifications; the calendar identifies the period during which the notification messages will not be issued. The calendars are set from TOOLS→CALENDAR.

3.4.2.4.3 GROUPS

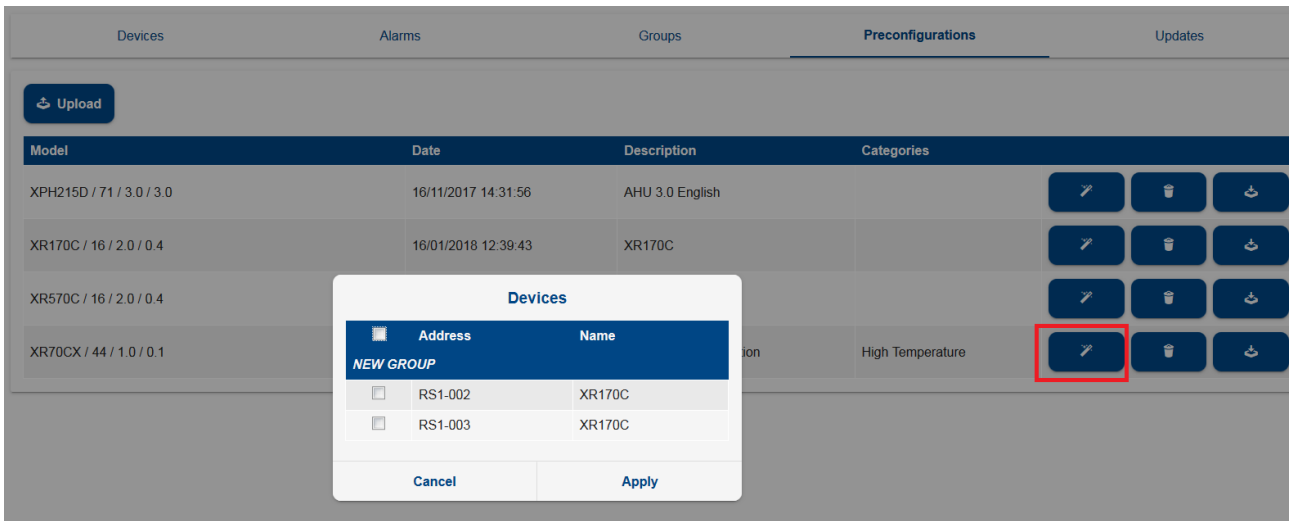
| Devices | Alarms | Groups | Preconfigurations | Updates |
|----------|---------|--------|-------------------|---------|
| + Groups | | | | |
| Label | Devices | | | |
| No Group | 5 | | | |
| LT GROUP | 0 | | | |
| NT GROUP | 0 | | | |
| HVAC | 0 | | | |

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 DEVICES/DASHBOARD page.

3.4.2.4.4 PRECONFIGURATIONS

| Devices | Alarms | Groups | Preconfigurations | Updates |
|--------------------------|---------------------|-------------------------|-------------------|--------------------------|
| Upload | | | | |
| Model | Date | Description | Categories | |
| XPH215D / 71 / 3.0 / 3.0 | 16/11/2017 14:31:56 | AHU 3.0 English | | [Edit] [Delete] [Upload] |
| XR570C / 16 / 2.0 / 0.4 | 16/01/2018 12:32:02 | preconfi | | [Edit] [Delete] [Upload] |
| XR70CX / 44 / 1.0 / 0.1 | 16/01/2018 12:31:38 | xr70cx preconfiguration | High Temperature | [Edit] [Delete] [Upload] |


This section displays the preconfigurations in the XWEB memory. the preconfigurations can be applied to tools already at setup by pressing on the “magic wand” key: the system will ask to which compatible tools the preconfiguration is to be applied.



3.4.2.4.5 UPDATES

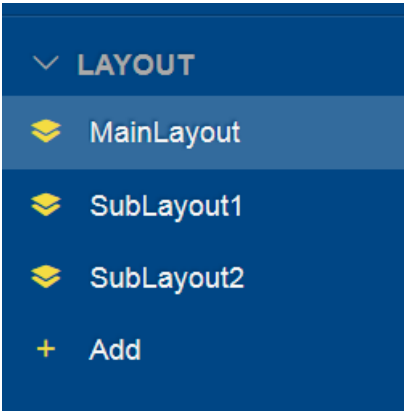
| Status | Address | Name | Model | Version | Library |
|--------------------------|-----------------------|---------|-----------------------------|---------|---------|
| HVAC | | | | | |
| <input type="checkbox"/> | TCP-10.100.81.149-502 | XPH215D | XPH215D / 71 / 3.0 / 3.0 | - | - |
| NEW GROUP | | | | | |
| <input type="checkbox"/> | RS1-002 | XR170C | XR170C / 16 / 2.0 / 0.4 | - | - |
| <input type="checkbox"/> | RS1-003 | XR170C | XR170C / 16 / 2.0 / 0.4 | - | - |
| No Group | | | | | |
| <input type="checkbox"/> | RS1-001 | XR70CX | XR70CX / 44 / 1.0 / 0.1 | - | - |
| <input type="checkbox"/> | RS1-004 | XR570C | XR570C / 16 / 2.0 / 0.4 | - | - |
| <input type="checkbox"/> | RS1-100 | GLENDIM | GLENDIM / 32807 / 1.0 / 1.5 | - | - |


From this window you can adapt the device configuration with possible library updates. If the new library is compatible, the update can be applied without having to loose any log data and without having to redo any configuration; if the new library is incompatible, devices that cannot be updated are indicated with the red triangle. If the user needs to update those devices, he/she must remove and then add again the device from the xweb configuration and reconfigure it completely.

The  icon is applied to all devices at setup, even if an update has not been installed.

3.4.1 LAYOUT

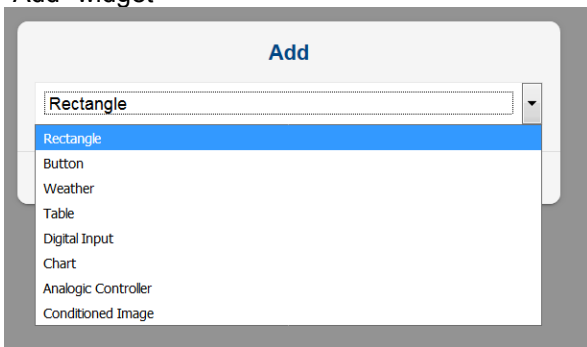
The Layout tool allows the creation of customised pages with graphic widgets. Each customised page takes the name of "layout" and the pages can be added to the system by pressing "Add".



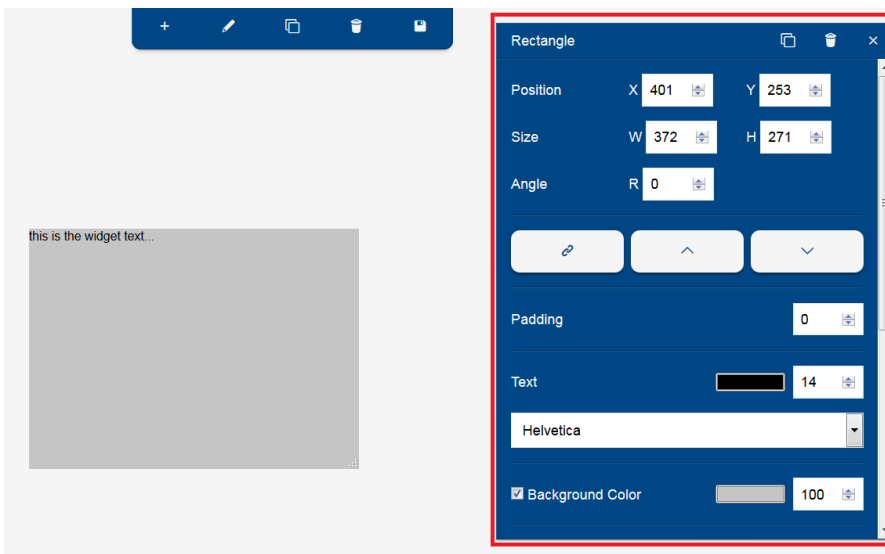
The user must then edit the page by pressing , which enables the user to perform the following operations:



a. "Add" widget

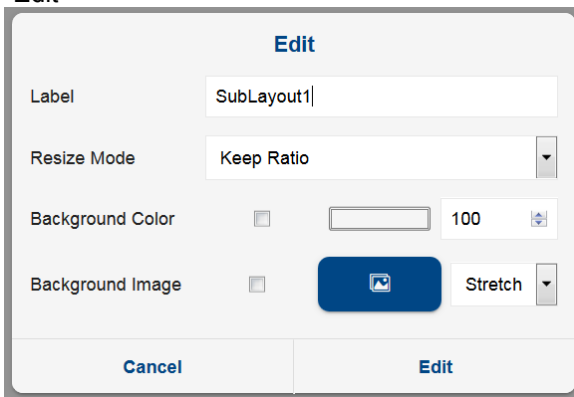


each selected widget shows a set of attributes on its palette that the user can define. The palette is a modal window and can be moved; the palette is only displayed during the layout modification procedure.



← example of palette

b. "Edit"



- Label: text of the page name
- Resize Mode:
- Background Color:
 - enabling to colour rendering
 - background colour
 - transparency percentage
- Background Image:
 - enabling to colour rendering
 - image
 - resizing

- c. "Clone". Creates an identical copy of the current page
- d. "Delete". Deletes the current page
- e. "Save". Saves the current page

accessible 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.

Regarding image uploading in the XWEB system, the following limits apply:

- Maximum number of importable images: no limit on the number of images
- Maximum memory available for images:
 - XWEB 300D, XWEB 500D, XWEB 500: 5MB
 - XWEB 3000, XWEB 5000: 10MB
 - Maximum image size: 1MB
 - If you upload an image with the same name as an image already existing in the system, the new image will overwrite the previous one (if the upload is successful, of course)

3.4.2 ANALYSIS

3.4.2.1 REPORTS



Here you can configure, and retrieve, three different types of reports of the data recorded in XWEB.

3.4.2.1.1 HACCP REPORTS

| HACCP Reports | | |
|-----------------|---------------|---|
| + HACCP Reports | | |
| ID | Label | |
| 692712 | HACCP REPORT | Edit Delete Execute |
| fd7907 | another haccp | Edit Delete Execute |

The “+ HACCP Reports” key is used to add a haccp configuration to the list.

The form is titled "Edit" and contains the following fields:

- Label: HACCP REPORT
- Interval: Last 24 Hours (dropdown)
- Layout: Standard (dropdown)
- Header: HEADER
- Footer: FOOTER
- Variables: Select Points (button)

Buttons: Cancel, Edit

specify the fields:

- Label: report name
- Interval:
 - snapshot; to export the current value data

```
HACCP printout
XWEB EVO NAME :31.68 - HACCP printout page:3/2
HEADER
date:26.09.17 time:11:24
-----
RS1-001 XR70CX
Probe 1 16.7 °C
No-Link 0
Probe 2 0.0 °C
Generic Digital Input 1
Alarm 0
Fan 1
Probe 3 0.0 °C
Cooling 0
On 1
Defrost 0
Fast Freezing 0
Keyboard 0
Energy Saving 0
Probe R 16.7 °C
Error Pb1 0
Error Pb2 0
High Value Pb1 0
Low Value Pb1 0
High Value Pb2 0
Low Value Pb2 0
SetPoint R 3.1 °C
Open Door 0
EEPROM Failure 0
SetPoint 3.1 °C
RS1-002 XR170Cxxxxxxxxxxxxxxxx
Room (Pb1) 15.9 °C
Door Switch 0
No-Link 0
Generic Alarm 0
Evaporator (Pb2) -5.7 °C
Defrost 0
Alarm 0
Fan 1
Cooling 0
On 1
Defrost 0
Keyboard 0
Energy Saving 0
Low Value Pb1 0
High Value Pb1 0
Error Pb1 0
Error Pb2 0
Set Point 3.0 °C
Error Pb3 ---
Open Door 0
External Alarm 0
FOOTER
```

- Today/Yesterday/Last 24 Hours/Last 48 Hours/Last Week/Last Month to export log data.

in this mode you can export data in two formats (Layout):

- Standard; the data is tabulated with one row per variable

```

Export from main archive: XWEB EVO NAME .81.68 - HACCP printout
date: 25.09.17 time: 11.27 Sampling: 04.00
HEADER

Legend:*=defrost, !=post defrost, SO=System OFF, #=unit OFF, X=offline, $=door open
TIME TABLE:
                24/09   24/09   24/09   24/09   25/09   25/09
                15:27   19:27   23:27   03:27   07:27   11:27

RS1-001 XR70CX
    Probe 1 °C      15.60   15.51   15.45   15.39   15.18   15.75
    No-Link      0.00    0.00    0.00    0.00    0.00    0.00
    Probe 2 °C      0.00    0.00    0.00    0.00    0.00    0.00
    Generic Digital Input
    Alarm        1.00    1.00    1.00    1.00    1.00    0.67
    Fan          1.00    1.00    1.00    1.00    1.00    1.00
    Probe 3 °C      0.00    0.00    0.00    0.00    0.00    0.00
    Cooling      0.00    0.00    0.00    0.00    0.00    0.00
    On           1.00    1.00    1.00    1.00    1.00    1.00
    Defrost      0.00    0.00    0.00    0.00    0.00    0.00
    Fast Freezing 0.00    0.00    0.00    0.00    0.00    0.00
    Keyboard     0.00    0.00    0.00    0.00    0.00    0.00
    Energy Saving 0.00    0.00    0.00    0.00    0.00    0.00
    Probe R °C      15.60   15.51   15.45   15.39   15.18   15.75
    Error Pb1    0.00    0.00    0.00    0.00    0.00    0.00
    Error Pb2    0.00    0.00    0.00    0.00    0.00    0.00
    High Value Pb1 0.00    0.00    0.00    0.00    0.00    0.00
    Low Value Pb1 0.00    0.00    0.00    0.00    0.00    0.00
    High Value Pb2 0.00    0.00    0.00    0.00    0.00    0.00
    Low Value Pb2 0.00    0.00    0.00    0.00    0.00    0.00
    SetPoint R °C   3.10    3.10    3.10    3.10    3.10    3.10
    Open Door    0.00    0.00    0.00    0.00    0.00    0.00
    EEPROM Failure 0.00    0.00    0.00    0.00    0.00    0.00
    SetPoint °C     3.10    3.10    3.10    3.10    3.10    3.10

RS1-002 XR170Cxxxxxxxxxxxxxx
    Room (Pb1) °C   15.90   15.90   15.90   15.90   15.90   15.90
    
```

- Extended; for the extended format, indicate the sampling time between the points (first column); the data is tabulated in a column per variable

```

Export from main archive: XWEB EVO NAME .81.68 - HACCP printout
date: 25.09.17 time: 11.30 Sampling: 00.15
HEADER

Legend:*=defrost, !=post defrost, SO=System OFF, #=unit OFF, X=offline, $=door open

```

| | RS1-001 XR70CX Probe 1 °C | No-Link | Probe 2 °C | Generic Digital Input | Alarm | Fan | Probe 3 °C | Cooling | On | Defrost | Fast Freezing | Keyboard | Energy Saving | Probe R °C |
|------------------|------------------------------|---------|------------|-----------------------|-------|------|------------|---------|------|---------|---------------|----------|---------------|------------|
| 11:30 24/09/2017 | 15.60 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.60 |
| 11:45 | 15.60 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.60 |
| 12:00 | 15.60 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.60 |
| 12:15 | 15.60 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.60 |
| 12:30 | 15.60 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.60 |
| 12:45 | 15.60 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.60 |
| 13:00 | 15.60 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.60 |
| 13:15 | 15.60 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.60 |
| 13:30 | 15.60 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.60 |
| 13:45 | 15.60 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.60 |
| 14:00 | 15.60 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.60 |
| 14:15 | 15.60 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.60 |
| 14:30 | 15.60 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.60 |
| 14:45 | 15.60 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.60 |
| 15:00 | 15.60 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.60 |
| 15:15 | 15.60 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.60 |
| 15:30 | 15.60 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.60 |
| 15:45 | 15.50 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.50 |
| 16:00 | 15.50 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.50 |
| 16:15 | 15.50 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.50 |
| 16:30 | 15.50 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.50 |
| 16:45 | 15.50 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.50 |
| 17:00 | 15.50 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.50 |
| 17:15 | 15.50 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.50 |
| 17:30 | 15.50 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.50 |
| 17:45 | 15.50 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.50 |
| 18:00 | 15.50 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.50 |
| 18:15 | 15.50 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.50 |
| 18:30 | 15.50 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.50 |
| 18:45 | 15.50 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.50 |
| 19:00 | 15.50 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.50 |
| 19:15 | 15.50 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.50 |
| 19:30 | 15.50 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.50 |
| 19:45 | 15.50 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.50 |
| 20:00 | 15.50 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.50 |
| 20:15 | 15.50 | 0.00 | 0.00 | 1.00 | 1.00 | 1.00 | 0.00 | 0.00 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.50 |

- Header/Footer: text that appears on the edges of the report
- Select Points: the key opens a window from which to select the list of variables to be included in the report; clicking on the tool name explodes the list with the complete list of variables per tool.

Select Points

No Group

RS1-001 XR70CX

Analog

Probe 1

Probe 2

Probe 3

Probe R

SetPoint R

SetPoints

SetPoint

Statuses

Defrost

Energy Saving

Fast Freezing

Keyboard

On

Alarms

EEPROM Failure

[Cancel](#) [Confirm](#)

For an existing report-haccp configuration, the Edit key allows its editing.
 The Delete key permanently deletes the configuration.
 The Execute key allows preparing the report for immediate download, print or sending via email.

HACCP REPORT

Settings

Interval

Recipients

Download

Print with local printer

Email

CN CN (CN)
 DE DE (DE)
 GR GR (GR)
 alarm alarm (alarm)
 mobile mobile (mobile)

[Cancel](#) [Execute](#)

3.4.2.1.2 FOOD QUALITY REPORTS

| Food Quality Reports | | |
|------------------------|-------------|---|
| + Food Quality Reports | | |
| ID | Label | |
| 72f396 | another fqr | Edit Delete Execute |
| 76e990 | FQR | Edit Delete Execute |

The "+ Food Quality Reports" key is used to add an FQR configuration to the list.

specify the fields:

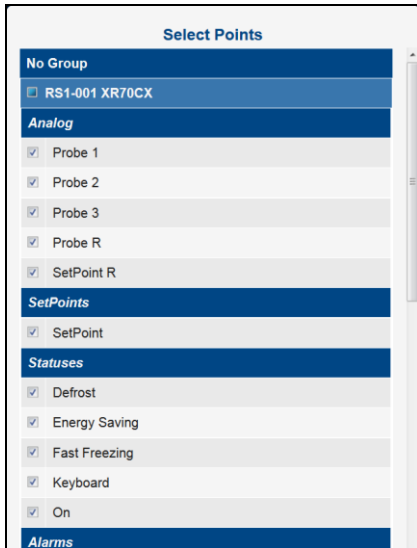
- Label: report name
- Header/Footer: text that appears on the edges of the report
- Interval: Today, Yesterday.
- Variables: press “Select Devices” to select the devices for which the report is to be created. Each temperature variable is accompanied by the following parameters
 - Setpoint
 - Post-Defrost Time
 - Low Error (offset applied to the setpoint value)
 - Low Warning (offset applied to the setpoint value)
 - High Warning (offset applied to the setpoint value)
 - High Error (offset applied to the setpoint value)

| Device | Probe | SetPoint | Post Defrost Time | Error Low Temperature | Warning Low Temperature | Warning High Temperature | Error High Temperature |
|--|------------|-----------|-------------------|-----------------------|-------------------------|--------------------------|------------------------|
| <input checked="" type="checkbox"/> RS1-001 XR70CX | Probe 1 | SetPoint | 90 | - 0 | - 0 | + 0 | + 0 |
| <input checked="" type="checkbox"/> RS1-002 XR170Cxxxxxxxxxxxx | Room (P... | Set Point | 90 | - 0 | - 0 | + 0 | + 0 |
| <input checked="" type="checkbox"/> RS1-003 XR170C | Room (P... | Set Point | 90 | - 0 | - 0 | + 0 | + 0 |
| <input checked="" type="checkbox"/> RS1-004 XR570C | Room (P... | Set Point | 90 | - 0 | - 0 | + 0 | + 0 |

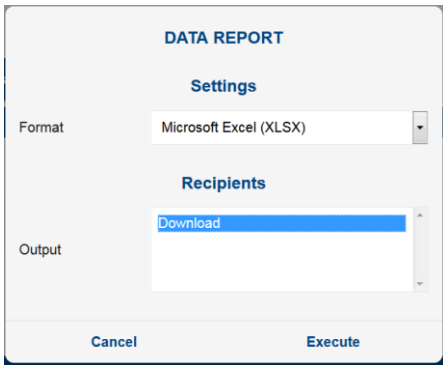
For an existing report-fqr configuration, the Edit key allows its editing.

The Delete key permanently deletes the report configuration.

Execute immediately creates the report according to its configuration parameters, for downloading, printing or sending via email.

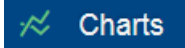


For an existing report-data configuration, the Edit key allows for its editing and Delete for its permanent deletion. The Execute key immediately generates a report; the options available are the CSV (“Comma Separated Values”) and XLSX (Microsoft Excel) formats; these reports are available for downloading on the browser (download option).



XLSX example

| | A | B | C | D | E | F |
|----|---------------------|------------|------------|------------|-----------------------|--------|
| | Date/Time | Probe 1 °C | No-Link | Probe 2 °C | Generic Digital Input | Alarm |
| 2 | 09/24/2017 14:15:00 | 15.6 | NOT ACTIVE | 0 | ACTIVE | ACTIVE |
| 3 | 09/24/2017 14:20:00 | 15.6 | NOT ACTIVE | 0 | ACTIVE | ACTIVE |
| 4 | 09/24/2017 14:25:00 | 15.6 | NOT ACTIVE | 0 | ACTIVE | ACTIVE |
| 5 | 09/24/2017 14:30:00 | 15.6 | NOT ACTIVE | 0 | ACTIVE | ACTIVE |
| 6 | 09/24/2017 14:35:00 | 15.6 | NOT ACTIVE | 0 | ACTIVE | ACTIVE |
| 7 | 09/24/2017 14:40:00 | 15.6 | NOT ACTIVE | 0 | ACTIVE | ACTIVE |
| 8 | 09/24/2017 14:45:00 | 15.6 | NOT ACTIVE | 0 | ACTIVE | ACTIVE |
| 9 | 09/24/2017 14:50:00 | 15.6 | NOT ACTIVE | 0 | ACTIVE | ACTIVE |
| 10 | 09/24/2017 14:55:00 | 15.6 | NOT ACTIVE | 0 | ACTIVE | ACTIVE |
| 11 | 09/24/2017 15:00:00 | 15.6 | NOT ACTIVE | 0 | ACTIVE | ACTIVE |
| 12 | 09/24/2017 15:05:00 | 15.6 | NOT ACTIVE | 0 | ACTIVE | ACTIVE |
| 13 | 09/24/2017 15:10:00 | 15.6 | NOT ACTIVE | 0 | ACTIVE | ACTIVE |
| 14 | 09/24/2017 15:15:00 | 15.6 | NOT ACTIVE | 0 | ACTIVE | ACTIVE |
| 15 | 09/24/2017 15:20:00 | 15.6 | NOT ACTIVE | 0 | ACTIVE | ACTIVE |
| 16 | 09/24/2017 15:25:00 | 15.6 | NOT ACTIVE | 0 | ACTIVE | ACTIVE |

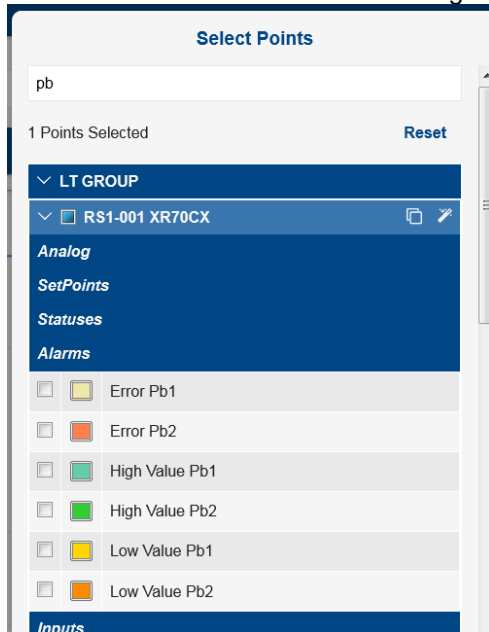


In this page you can benefit from the charting, and its configuration, of the values in XWEB memory.

- **configuration**

the configuration parameters for a chart are:

- **type of database source:** the options available are:
 - a. **Circular:** these archives provide the most frequent recordings; but are limited in the period. For the XWEB3000/5000 models the archive covers a maximum of two days while for the XWEB300/500 models the last six hours are covered.
 - b. **Main:** to chart data stored before the limit of the circulars.
- **period:** period to charge, the available options are:
 - a. Last ... : indicates that once charting is performed, the chart is no longer updated.
 - b. Realtime ... : indicates continuous charting, updated in real time
- **points:** resources to be charted. they are the variables configured for storage in xweb, for each device. to chart, it is necessary to define the list of variables and their colour. Pressing the “Select Points” key open the following window: clicking on the tool name (red area) explodes the list with all the variables with which xweb is configured to record.



the list of variables in the window can be filtered using the fulltext search of the “Search” field;
the configuration of the variables selected on a tool can be cloned on another compatible, by clicking

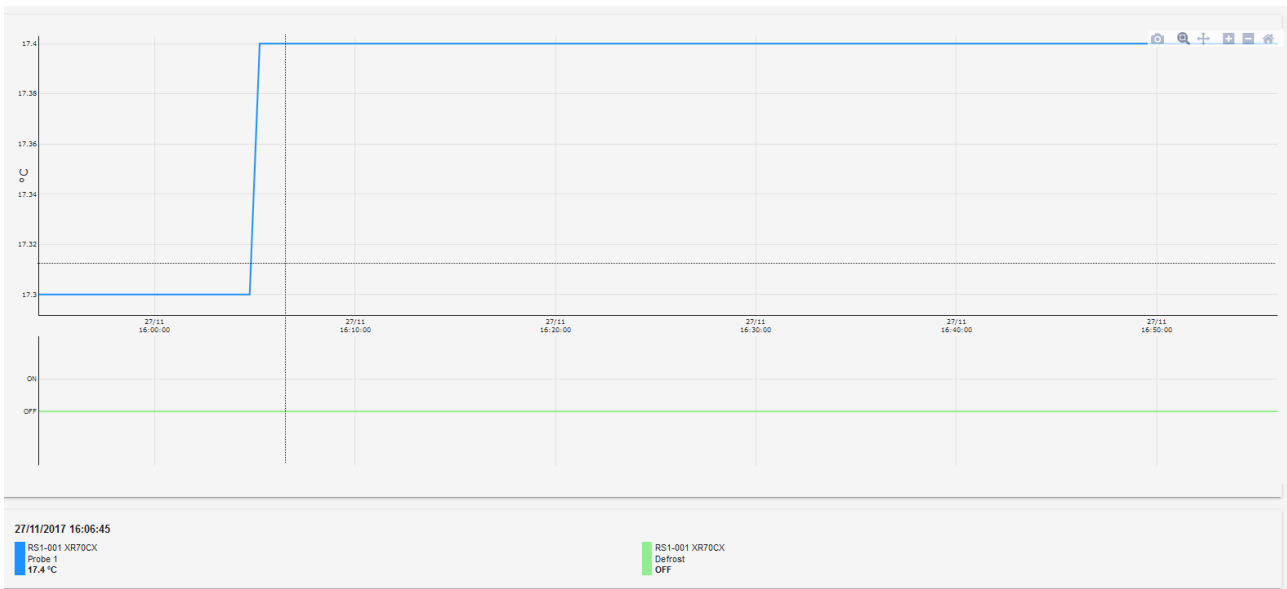


it is possible to select only the variables configured in

DEVICES→SETTINGS→DEVICES→DEVICE→VARIABLES→CHART DEFAULT by pressing

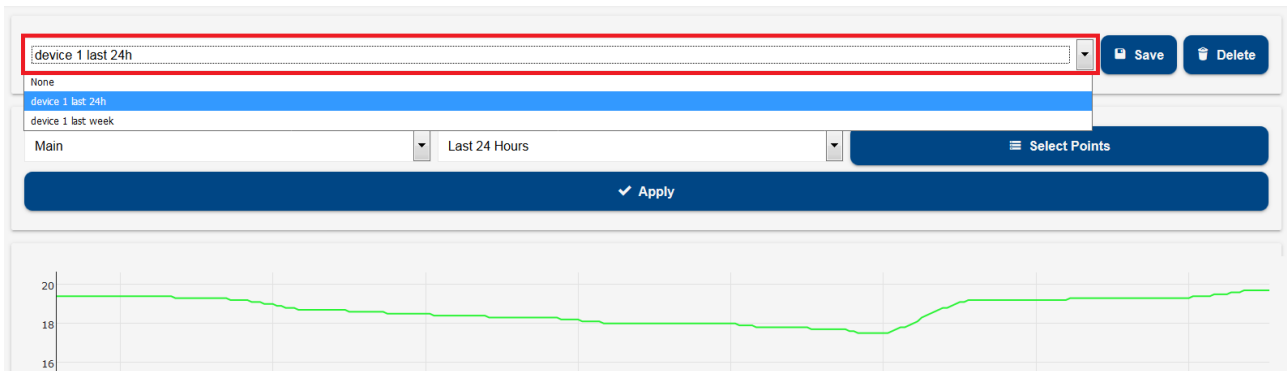


charting is carried out by clicking on “Apply”; the window is updated as per the following image:



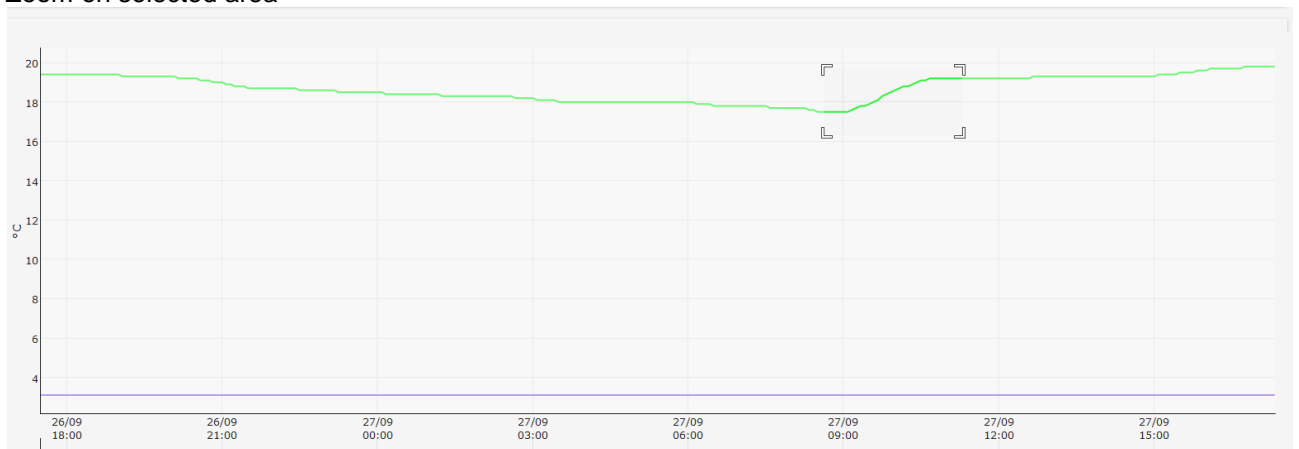
The mouse cursor position on the chart area shows, in the key at the bottom, the values with their tool and time references

Once charting has been carried out, you can save its configuration for future retrieval; press “Save” to save the configuration in the XWEB memory. To retrieve a previously saved configuration, simply select it from the combobox at the top (in red in the image below).




Once charting has been carried out, the following actions can be performed:

1. Zoom on selected area




click the mouse to select the first point of the area, move the cursor to enlarge the area, release when the whole area of interest has been selected (image above).

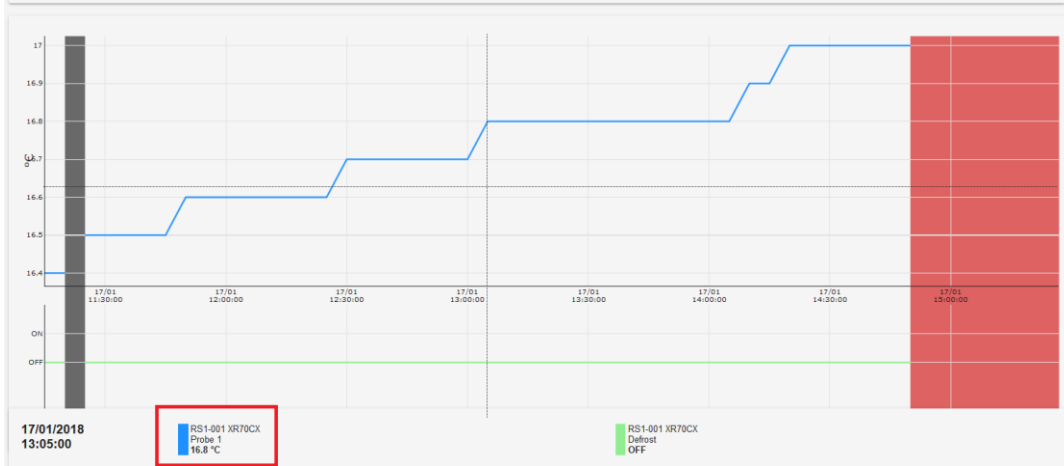
the charge immediately updates, rendering the selected area full-screen.

2. Download PNG (icon )
downloads a chart image

3. Zoom (icons  and )
zooms the chart

4. Reset (icon )
Rescale the chart

5. Hide / enable display of individual variable
By clicking on the variable on the bar below, it is hidden and/or re-enabled for display on the chart.



3.4.2.3 CONSUMPTION ANALYZER

Consumptions Analyzer

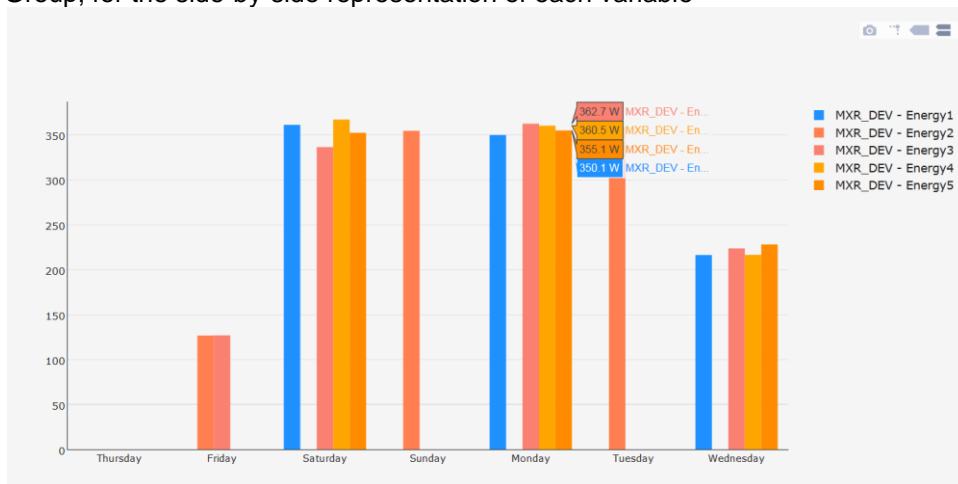
By configuring one of the supported devices in the product, it becomes possible to access the “Consumptions Analyzer” menu

The following are supported:

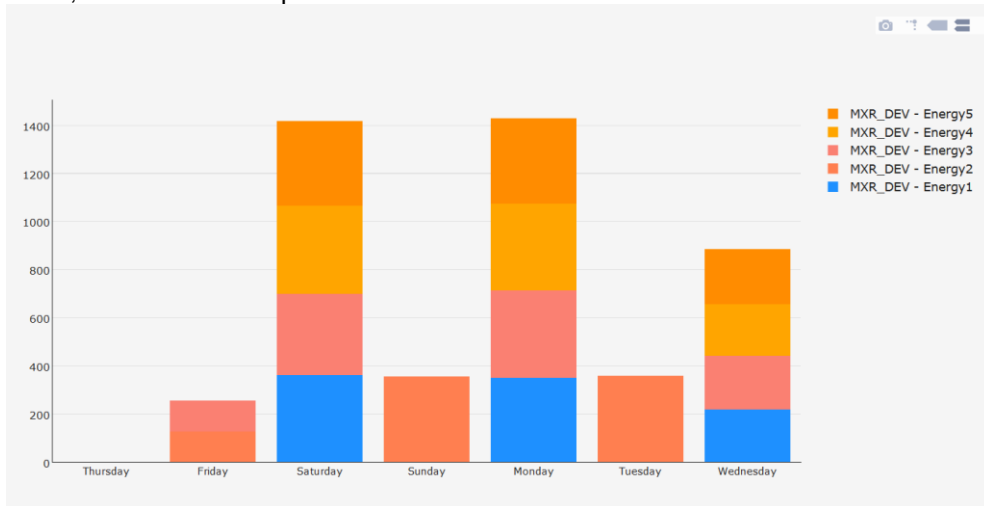
| Trade name | Library name |
|----------------------|--------------|
| Carlo Gavazzi EM21 | EM21 |
| Carlo Gavazzi EM23 | EM23 |
| Carlo Gavazzi EM24 | EM24 |
| Carlo Gavazzi EM26 | EM26 |
| Carlo Gavazzi EM100 | EM100 |
| Carlo Gavazzi EM210 | EM210 |
| Carlo Gavazzi EM271 | EM271 |
| Carlo Gavazzi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

The consumption data can be displayed once all page parameters have been configured:

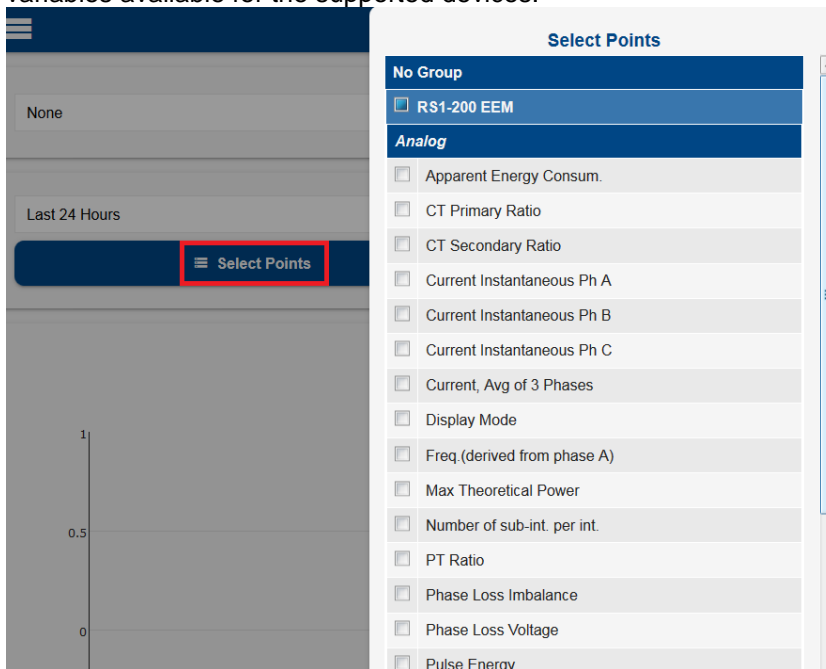
- **display period**; the following options are available:
 - a. Last 24 hours
 - b. Last 7 days
 - c. Last 4 weeks
 - d. Last 12 months
 - e. Last 3 years
 - f. Custom; to set a period from/to
- **grouping** (for multiple variables); the following options are available:
 - a. Group; for the side-by-side representation of each variable



b. Stack; for cumulative representation



- **colour style**; the following options are available:
 - a. Random Colors; to display the bars with random colours
 - b. Chart defaults; to display the bars with the same colours set in DeviceSetup→Advanced→Chart default color
- **variables**; the following options are available:
 - a. manual variable selection; by pressing “Select Points” the user can choose from the variables available for the supported devices.

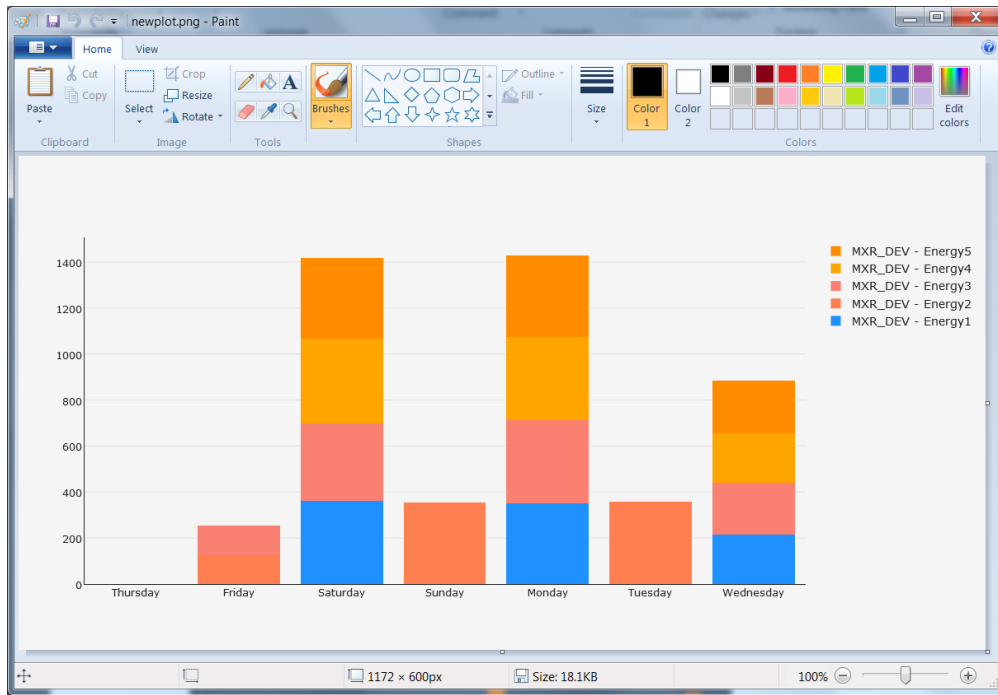


- b. automatic variable selection; by pressing “Automatic Configuration” all variables involving accumulation are selected for the supported consumption analysers.

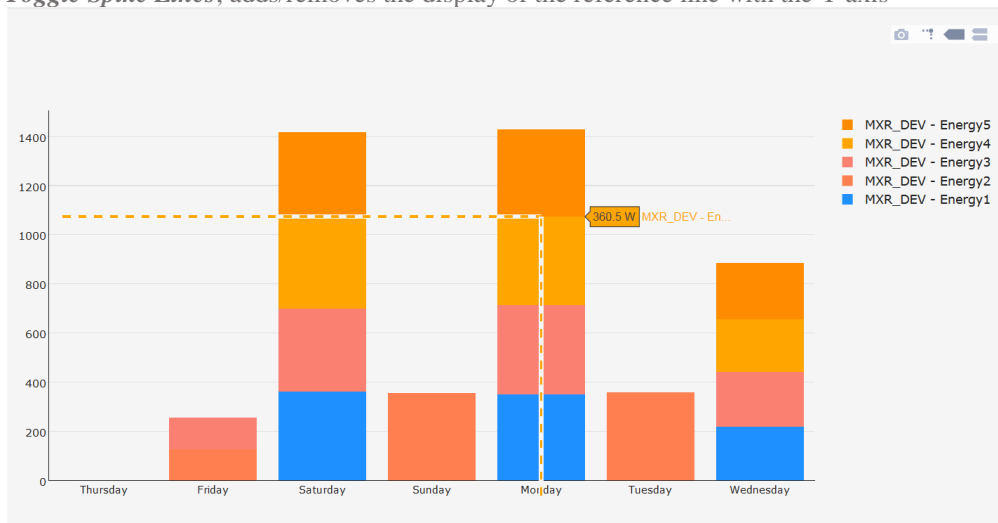
Once the chart is displayed, the user can perform the following actions on the chart bar:



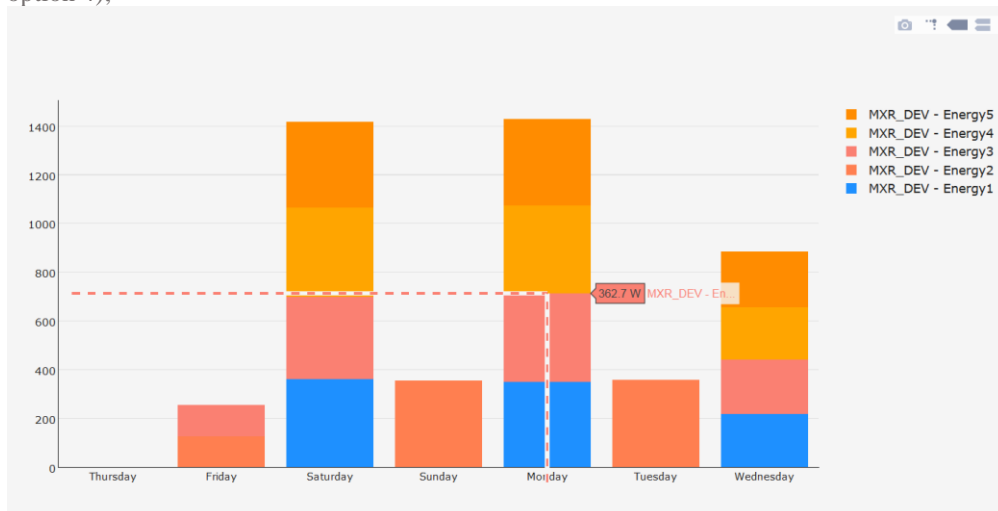
1. **Download plot as PNG**; downloads the chart as file on the browser



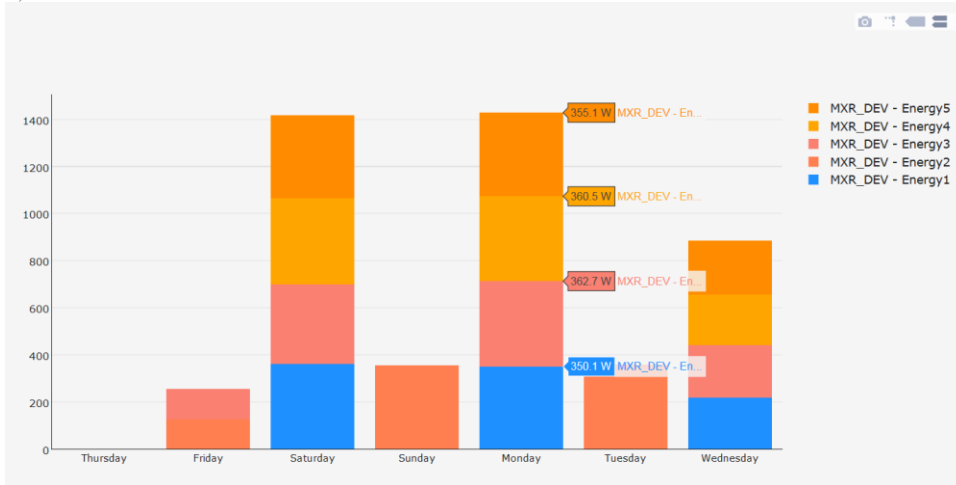
2. *Toggle Spike Lines*; adds/removes the display of the reference line with the Y axis



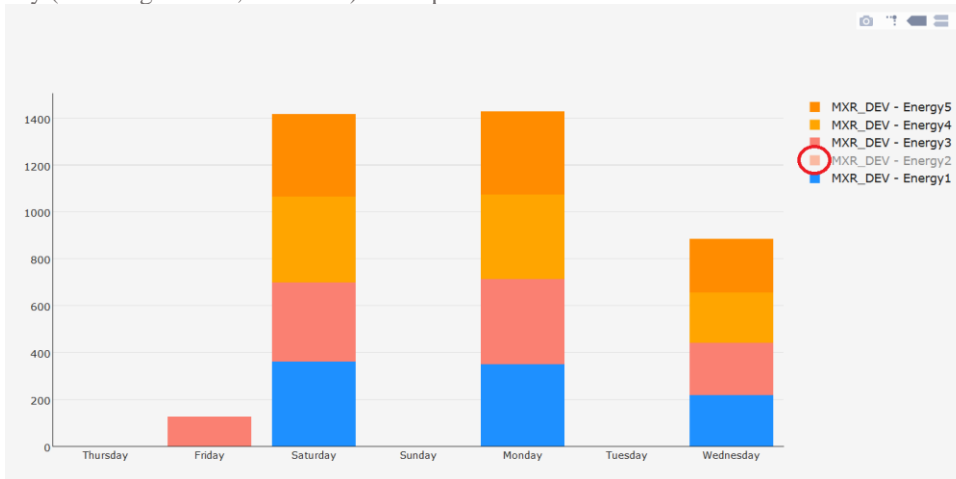
3. *Show closest data on hover*; displays only the data of the bar selected by the mouse; (mutually exclusive with option 4);



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



5. Add/Remove variables to chart. Variables are added/removed from the chart by clicking on the variable in the key (see image below, red circle). Multiple selection is allowed with the SHIFT/CONTROL keys



3.4.2.4 PERFORMANCE

Performance

The configuration of the default Performance Meter is automatic: it identifies the Probe and Setpoint variables and sets the Min = (setpoint value -10) and Max = (setpoint value +10) parameters.

By tool, the configuration can be changed by pressing on the key highlighted in red.

The screenshot shows a web interface for configuring performance meters. At the top, there are two date ranges: 2017-09-26T14:29 and 2017-09-27T14:29. Below these are 'Export' and 'Execute' buttons. A table lists devices with columns for Performance, SetPoint, Average, Min, Max, Defrost Time, and Cooling. A modal dialog titled 'RS1-004 XR570C' is open, showing configuration fields: Probe (Room (Pb1)), SetPoint (Set Point), Min (-10), Max (10), and Post Defrost Time (Minutes) (90). 'Cancel' and 'Edit' buttons are at the bottom of the dialog. In the background table, the 'Edit' icon for RS1-004 XR570C is highlighted with a red box and the word 'click' below it.

the green key is used to clone the configuration on other tools.

The screenshot shows the same web interface as above. A modal dialog titled 'Clone' is open, showing a list of devices to clone from: 'No Group' and 'RS1-002 XR170Cxxxxxxxxxxxxxxxx'. 'Cancel' and 'Clone' buttons are at the bottom. In the background table, the 'Clone' icon for RS1-004 XR570C is highlighted with a green box.

The blue key is used to chart the performances according to configuration

The screenshot shows the performance chart for device RS1-004 XR570C. The chart displays a progress bar with a green segment (78%) and an orange segment (21%). Above the chart, there are several data points: 100%, 0°C, 1.0°C, 1°C, 1°C, 1°C, and 79.0%. The 'Chart' icon in the background table is highlighted with a blue box.

results on charted period:

- **Performance:** percentage on the displayed period of the adjustment status within the limits
- **Setpoint:** device setpoint value
- **Average:** average temperature
- **Min:** minimum temperature value
- **Max:** maximum temperature value
- **Defrost Temp:** maximum temperature after defrosting
- **Cooling:** represents the period of time (expressed in percentage) during which the utility has gone to

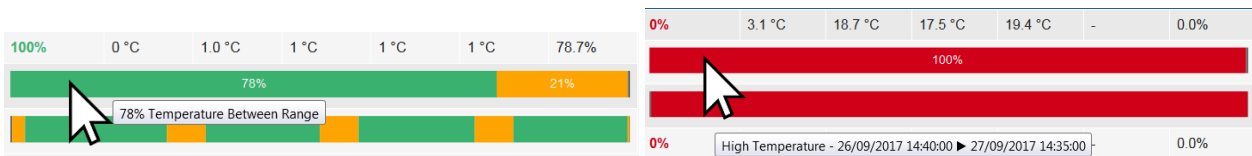
cold call. The calculation formula is:
$$\%Cool = \frac{T_{COOL}}{T - T_{DEFROST}} \cdot 100$$

T_{COOL} = total cold call time

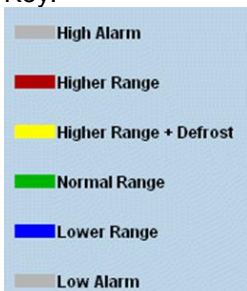
T = observation period

$T_{DEFROST}$ = total defrost time during the observation period

To complete the numerical values, this tool also provides a horizontal bar with relative key. The purpose is to provide the user with a general overview of the plant operation. In fact, moving the pointer over this area, shows the temperature values corresponding to the date in question.



Key:



From a point of view that contemplates the ideal situation, the greater the %COOL percentage, the better has the compressor station been sized. If many utilities work with values close to 100%, most probably not all devices will receive the correct amount of “cold” when the worst case scenario occurs. Use the data provided by the resource meter based on your experience of the application. Moreover, if an individual utility belonging to a homogenous set shows higher values than the others, this utility is likely to actually have operating problems

After charting, it is possible to export the resulting data to the browser, in HTML or CSV format, by pressing the Export key.



3.4.2.5 COMMUNICATION STATUS

➔ Communication Statistics

Access to the window shows the statistics table on the communication with the configured devices. 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
- 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.

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

| Device | Success | Timeout | Exception | CRC Error | Overrun | Unknown |
|--------------------------------|---------|---------|-----------|-----------|---------|---------|
| No Group | | | | | | |
| RS1-001 XR70CX | 100 % | 0 % | 0 % | 0 % | 0 % | 0 % |
| RS1-002 XR170Cxxxxxxxxxxxxxxxx | 95.24 % | 0 % | 4.76 % | 0 % | 0 % | 0 % |
| RS1-003 XR170C | 95.24 % | 0 % | 4.76 % | 0 % | 0 % | 0 % |
| RS1-004 XR570C | 86.36 % | 0 % | 13.64 % | 0 % | 0 % | 0 % |
| RS1-100 AHU | 0 % | 100 % | 0 % | 0 % | 0 % | 0 % |
| RS1-200 EEM | 0 % | 100 % | 0 % | 0 % | 0 % | 0 % |

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.

The screenshot shows the communication statistics table with the 'Test' button highlighted. A dialog box titled 'Test' is open, allowing the user to select a device and specify the number of test cycles. The 'Device' dropdown is set to 'RS1-001 XR70CX' and the 'Cycles' input field contains the value '10'.

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

| RS1-002 XR170Cxxxxxxxxxxxxxx | | | | | | |
|------------------------------|---------|---------|-----------|-----------|---------|---------|
| Total | Success | Timeout | Exception | CRC Error | Overrun | Unknown |
| 110 | 100 | 0 | 10 | 0 | 0 | 0 |
| Analog | | | | | | |
| Evaporator (Pb2) | 10 | 0 | 0 | 0 | 0 | 0 |
| Room (Pb1) | 10 | 0 | 0 | 0 | 0 | 0 |
| SetPoints | | | | | | |
| Set Point | 10 | 0 | 0 | 0 | 0 | 0 |
| Statuses | | | | | | |
| Defrost | 10 | 0 | 0 | 0 | 0 | 0 |
| Energy Saving | 10 | 0 | 0 | 0 | 0 | 0 |
| Keyboard | 10 | 0 | 0 | 0 | 0 | 0 |
| On | 10 | 0 | 0 | 0 | 0 | 0 |
| Alarms | | | | | | |
| EEPROM Failure | 10 | 0 | 0 | 0 | 0 | 0 |
| Error Pb1 | 10 | 0 | 0 | 0 | 0 | 0 |
| Error Pb2 | 10 | 0 | 0 | 0 | 0 | 0 |
| Error Pb3 | 0 | 0 | 10 | 0 | 0 | 0 |
| External Alarm | 10 | 0 | 0 | 0 | 0 | 0 |
| High Value Pb1 | 10 | 0 | 0 | 0 | 0 | 0 |
| Low Value Pb1 | 10 | 0 | 0 | 0 | 0 | 0 |
| Open Door | 10 | 0 | 0 | 0 | 0 | 0 |
| Inputs | | | | | | |

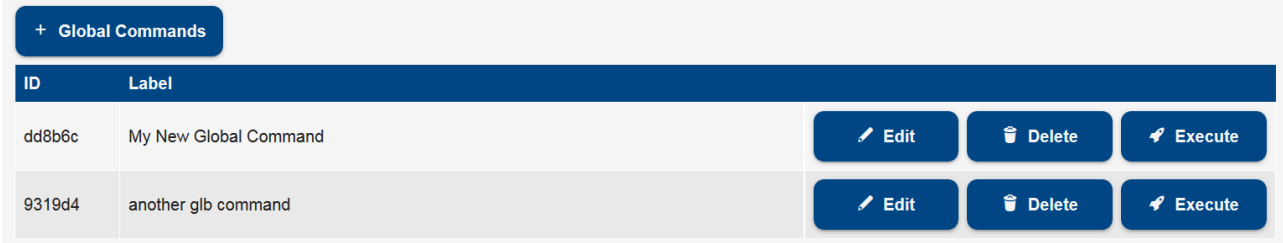
Close







3.4.3 TOOLS

3.4.3.1 GLOBAL COMMANDS

Global Commands

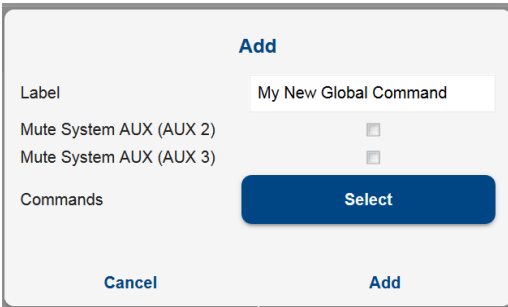
This page is used to configure the global commands that can be run from the user interface (if provided), from scheduler and from digital input command.



| ID | Label | | | |
|--------|-----------------------|---|---|---|
| dd8b6c | My New Global Command |  |  |  |
| 9319d4 | another glb command |  |  |  |

“+” Global commands

for adding a new command to the configuration.






Add

Label: My New Global Command

Mute System AUX (AUX 2)

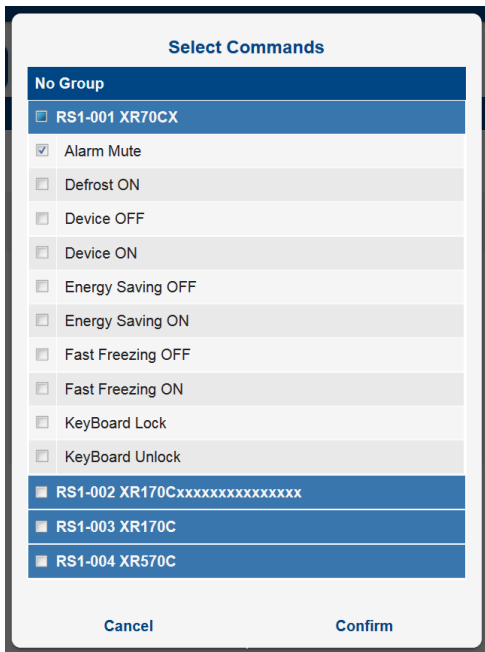
Mute System AUX (AUX 3)

Commands: 

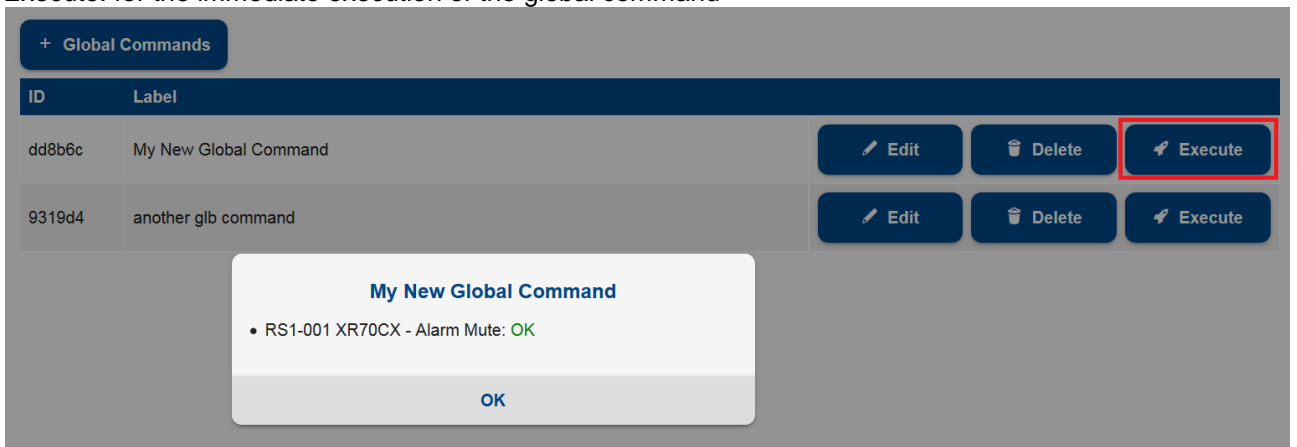
The user is asked to indicate a name (label field) and the list of commands that must be executed together with the request to execute this global command.

- Mute System AUX (AUX 2): to silence the AUX2 relay, if necessary
- Mute System AUX (AUX 3): to silence the AUX3 relay, if necessary
- Commands
press the “select” key to explode the command list on the devices; the checkbox is enabled for all those commands that will be executed together with the global command;
by clicking on the tool name, the window will explode with the name of the individual variables managed by the same tool

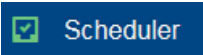


for the list of already configured global commands, you can invoke the actions of

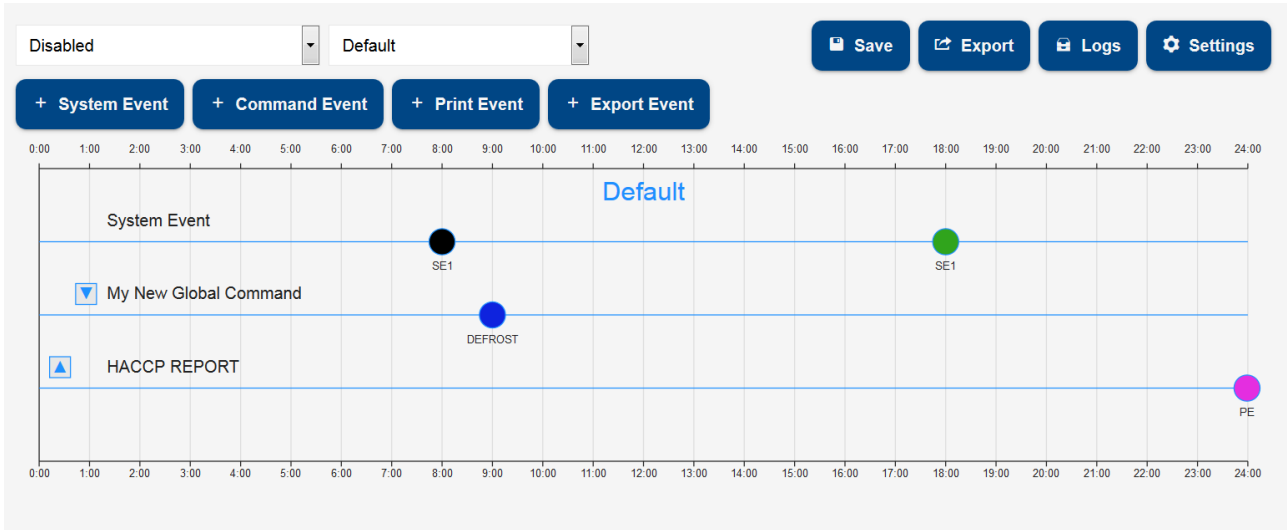
- Edit: to edit the global command
- Delete: to delete the global command from the list. caution: command removal is not a reversible operation
- Execute: for the immediate execution of the global command



3.4.3.2 SCHEDULER

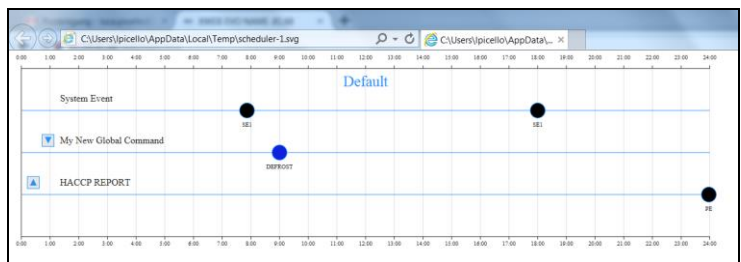
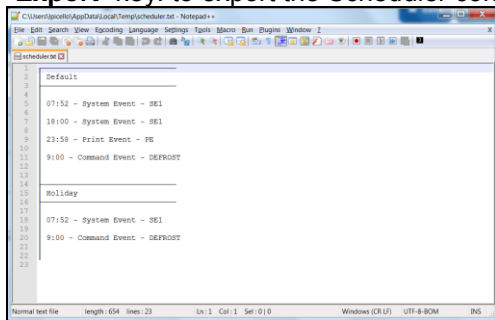


With this tool it is possible to program XWEB to send repetitive commands to the tools. For example, the sending of commands to switch on or to switch off lights or to schedule periodical defrosting.



The entire daily interval (from 00:00 to 24:00) is present at the bottom of the window; each hour is marked with a vertical placeholder. The events are placed on the horizontal placeholders.

- **“Save”** key: to save the configuration. Attention, once you save it is no longer possible to recover a previous version;
- **“Export”** key: to export the Scheduler configuration in a TXT or SVG file.

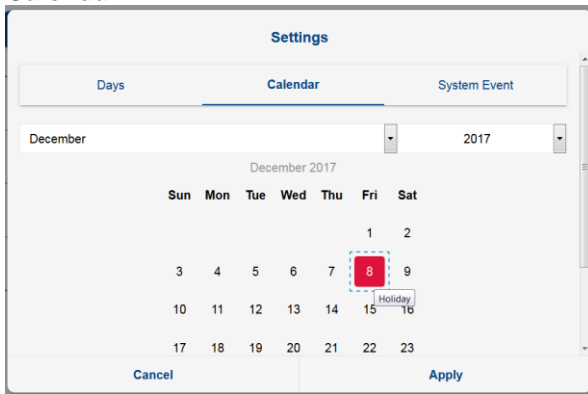


- **“Logs”** key: to show the scheduler logs, for the list of sent commands and other actions performed.
- **“Settings”** key: the following are configured in this window
 1. **Days:** to configure the types of day, each of which defines its specific events with times.

| + Day | | | | |
|---------|-------|---------|--------|---|
| Name | Color | Enabled | Annual | |
| Default | | ✓ | ✓ | ✓ |
| Holiday | ■ | ✓ | ✓ | ✓ |

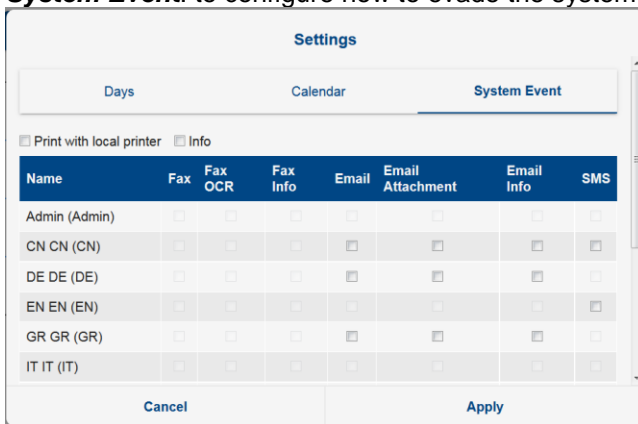
The colour will be important for visual recognition on the calendar. The "Enabled" parameter indicates whether the events configured on the day are active. The "Yearly" parameter indicates whether the day is to be associated - to all years - for operations of association to calendar. Attention: once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

2. **Calendar:**



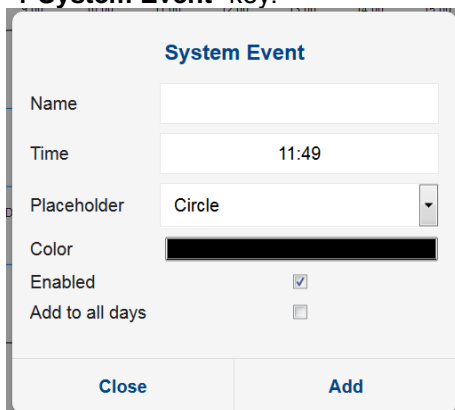
To associate the days, click on the day and select the (type of) day desired. It is also possible to associate the (type of) day on week days by clicking the name in the red band, e.g. apply the day "weekend" to all Sundays.

3. **System Event:** to configure how to evade the system events

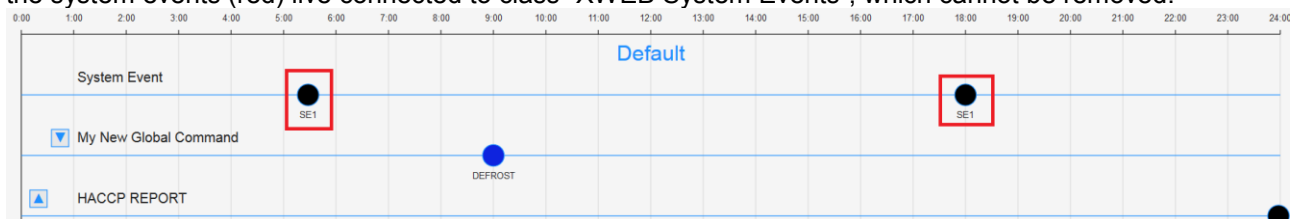


Caution: "Local Print Event" is an option that only appears with XWEB3000/5000 EVO as these systems can print on a directly connected local printer. "Info" is an option that lets you print in a more verbose manner, ie more detailed.

- **" + System Event" key:**



the system events (red) live connected to class "XWEB System Events", which cannot be removed.



- “+ **Command Event**” key: command events are described on the scheduler with the name, and the marker. The commands to be sent will be selected from a list of "global commands". The list may include commands to any device and can be of different commands between devices.

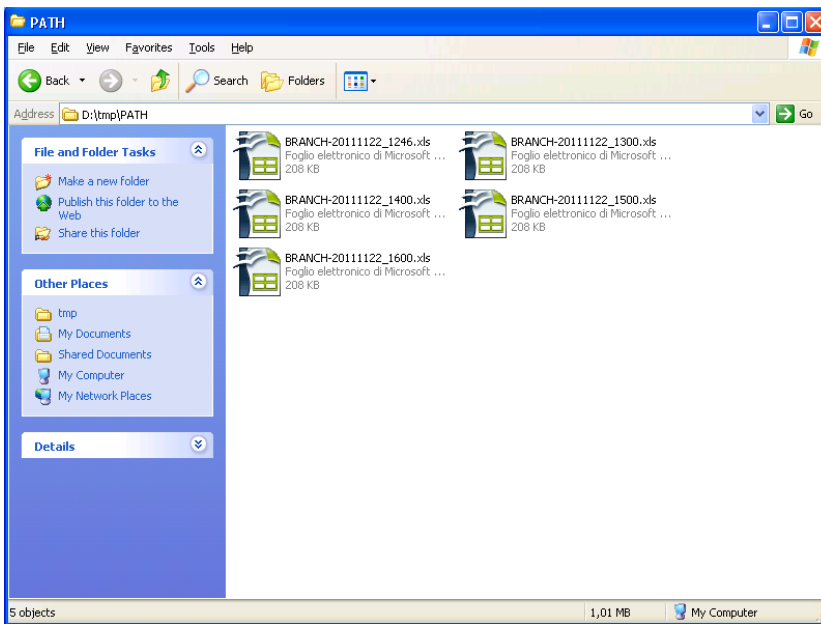
- “+ **Print Event**” key: the print events are those that produce, and eventually send, the temperature reports.

the reports can be generated for the type models that are configured from the Tools→Reports menu.

- “+ **Export Event**” key: the system is able to create excel files from historical data, since the time the event was performed. To configure this option, configure the event as Export Event.

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.

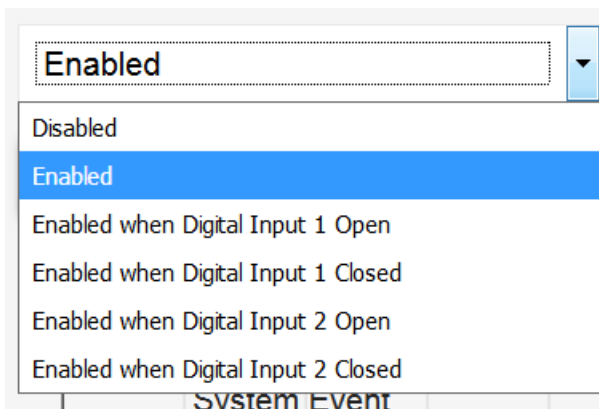
Once configured, the Excel files will be created as: <PATH>/<BRANCH>-<datetime>.XLS as per screenshot below.



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 | | | | | | | | | | | | | | | |

- “Enabling” combobox: the scheduler can be enabled according to certain conditions:
 1. unconditional enabling / disabling
 2. enabling / disabling if Digital Input Open / Closed

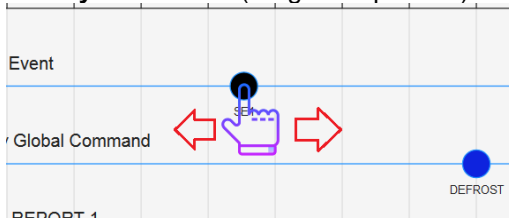


- “Day” combobox:
- up/down keys: to move the existing event classes up/down



the change of position on the page does not affect the execution of the commands, but it is only a way to change the graphic representation.

- **modify event time** (drag & drop event):

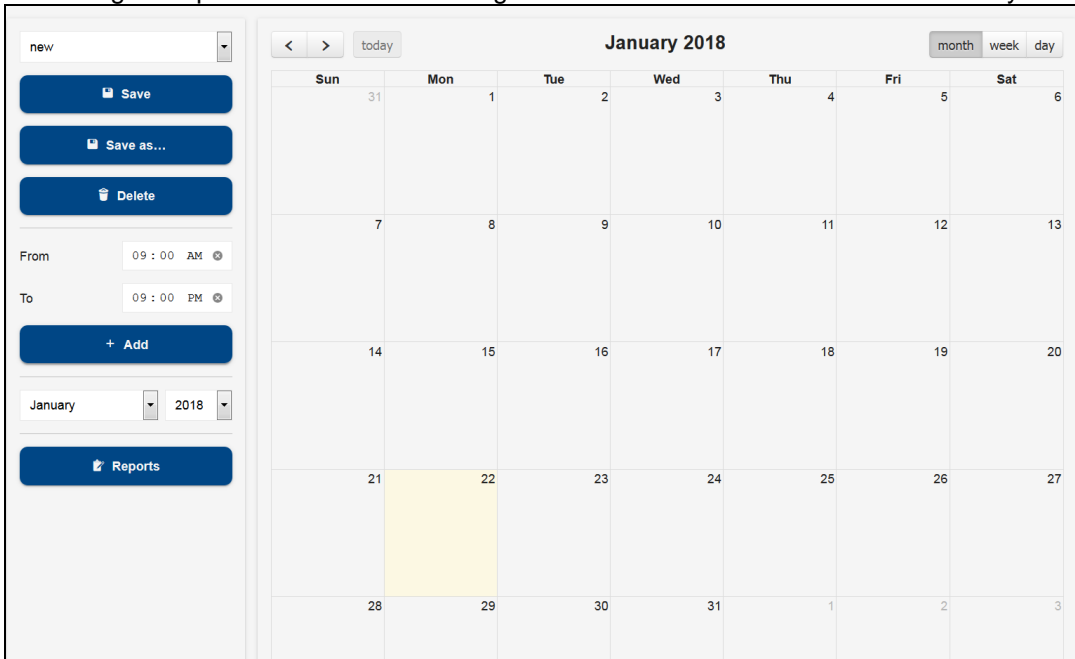


by moving the mouse over the event, the marker develops to indicate the selection. The event can be moved to the right/left, by updating the time of execution of the event.

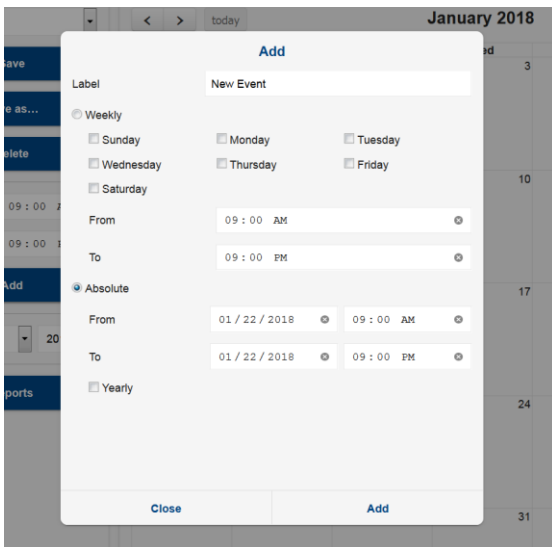
- **edit or delete event** (click on event): by clicking on an event, the window for editing and/or deleting it opens.

3.4.3.3 CALENDAR

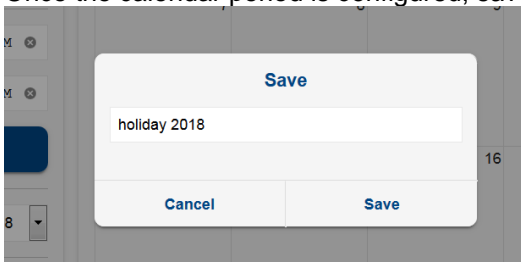
Accessing this option allows for the management of the calendars that can be used by the system.



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



The user must set the period name and interval as well as the period. Once the calendar period is configured, save the calendar itself by naming it, pressing the "Save" button.



3.4.3.4 AUTOMATIC 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 on USB.

The user must:

- a. **enable the service**, by setting **the time** when this must be performed daily; in the event that a USB stick is left inserted in XWEB on the same time, its data is updated
- b. configure the **“Export to USB connection”** option, the enabling of which allows copying data when the USB stick is inserted
- c. configure **the variables for which the history is desired**;
- d. configure **the interval** that identifies the minimum period between the samples that will be exported from the system (data from last 24/48 hours, from last week or last month) and the **sampling time** between data (minimum 1 minute)
- e. configure the **format** with which data is exported; the possible options are CVS and EXCEL

Once configured, the user must confirm by pressing SAVE.

The screenshot shows a web-based configuration interface for 'Scheduled Export'. At the top, there is a checkbox for 'Scheduled Export' which is checked, and a clock icon showing '10:06 AM'. Below this, there is a section for 'Export on media connection' with a checked checkbox. A blue bar indicates '95 Points Selected'. The configuration options are as follows:

| Field | Value |
|--------------------|------------------------|
| Interval | Last Month |
| Sampling (Minutes) | 1 |
| Format | Microsoft Excel (XLSX) |

A 'Save' button is located at the bottom right of the configuration area.

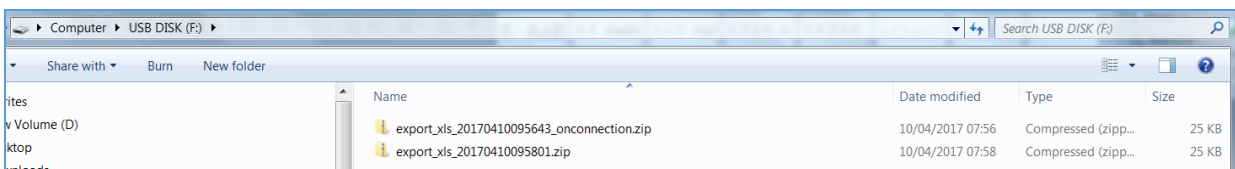
To retrieve data from remote connect to url:: http://IP_EVO/getdailydata?g=1&u=<username>&p=<md5 password>

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 of export on USB stick, the files will be copied to it as per picture below



Computer > USB DISK (H:) > export_csv_201504131155.zip

Extract all files

| Name | Type | Compressed size | Password p... | Size | Ratio | Date modified |
|------------------------|----------------------------|-----------------|---------------|--------|-------|------------------|
| RS1_001_New_XR570C.csv | Microsoft Excel Comma S... | 26 KB | No | 650 KB | 97% | 13/04/2015 11:55 |
| RS1_002_New_XR170C.csv | Microsoft Excel Comma S... | 24 KB | No | 683 KB | 97% | 13/04/2015 11:55 |
| RS1_003_New_XR170C.csv | Microsoft Excel Comma S... | 24 KB | No | 642 KB | 97% | 13/04/2015 11:55 |
| RS1_004_New_XR70CX.csv | Microsoft Excel Comma S... | 24 KB | No | 708 KB | 97% | 13/04/2015 11:55 |

- If the data is exported as CSV, note the conventions applied are:
8. Comma as column separator
 9. Dot, as decimal separator

Excel Data tab - Text Import Wizard - Step 2 of 3

This screen lets you set the delimiters your data contains. You can see how your text is affected in the preview below.

Delimiters

- Tab
- Semicolon
- Comma
- Space
- Other:

Treat consecutive delimiters as one

Text qualifier: " "

Data preview

| | RS1_2 New_XR170C Room (Pb1) °C | Evaporator (Pb2 °C | Set Point °C | On | Defrost | Re |
|---------------------|--------------------------------|--------------------|--------------|----|---------|----|
| 07/04/2015 15:35:00 | -10.80 | -7.00 | -25.00 | 1 | 0 | 0 |
| 07/04/2015 15:36:00 | -10.80 | -7.00 | -25.00 | 1 | 0 | 0 |
| 07/04/2015 15:37:00 | -10.80 | -7.00 | -25.00 | 1 | 0 | 0 |
| 07/04/2015 15:38:00 | -10.80 | -7.00 | -25.00 | 1 | 0 | 0 |

Text Import Wizard - Step 3 of 3

This screen lets you select each column and set the Data Format.

Column data format

- General
- Text
- Date:
- Do not import column (skip)

'General' converts numeric values to numbers, date values to dates, and all remaining values to text.

Advanced...

Data preview

| DMY | General | General | General | General | General | Ge |
|---------------------|--------------------------------|--------------------|--------------|---------|---------|----|
| | RS1_2 New_XR170C Room (Pb1) °C | Evaporator (Pb2 °C | Set Point °C | On | Defrost | Re |
| 07/04/2015 15:35:00 | -10.80 | -7.00 | -25.00 | 1 | 0 | 0 |
| 07/04/2015 15:36:00 | -10.80 | -7.00 | -25.00 | 1 | 0 | 0 |
| 07/04/2015 15:37:00 | -10.80 | -7.00 | -25.00 | 1 | 0 | 0 |
| 07/04/2015 15:38:00 | -10.80 | -7.00 | -25.00 | 1 | 0 | 0 |

10. Day/Month/Year

3.4.3.5 COMPRESSOR RACK OPTIMIZER

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, 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.

| Module 1 - Active | | | |
|---------------------|-------------------------------------|----------------------|-----------------------------------|
| Execution Interval | 240 Minutes | Calculation Interval | 60 Minutes |
| Devices | 2 | Compressor | RS1-010 XC1008D (SupVis set SUC1) |
| Worst Case SetPoint | 90 %Cooling | Dead Band | 4 % |
| Post Defrost Time | 60 Minutes | Starting SetPoint | -35 °C |
| Min | -38 °C | Max | -30 °C |
| Release Gain | 20 (m°C / %Cool) | Call Gain | 50 (m°C / %Cool) |
| Simulation Mode | <input checked="" type="checkbox"/> | Cycling Mode | NO |

[Logs](#) [Edit](#) [Stop](#) [Start](#)

3.4.3.5.1 CONFIGURATION PARAMETERS

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

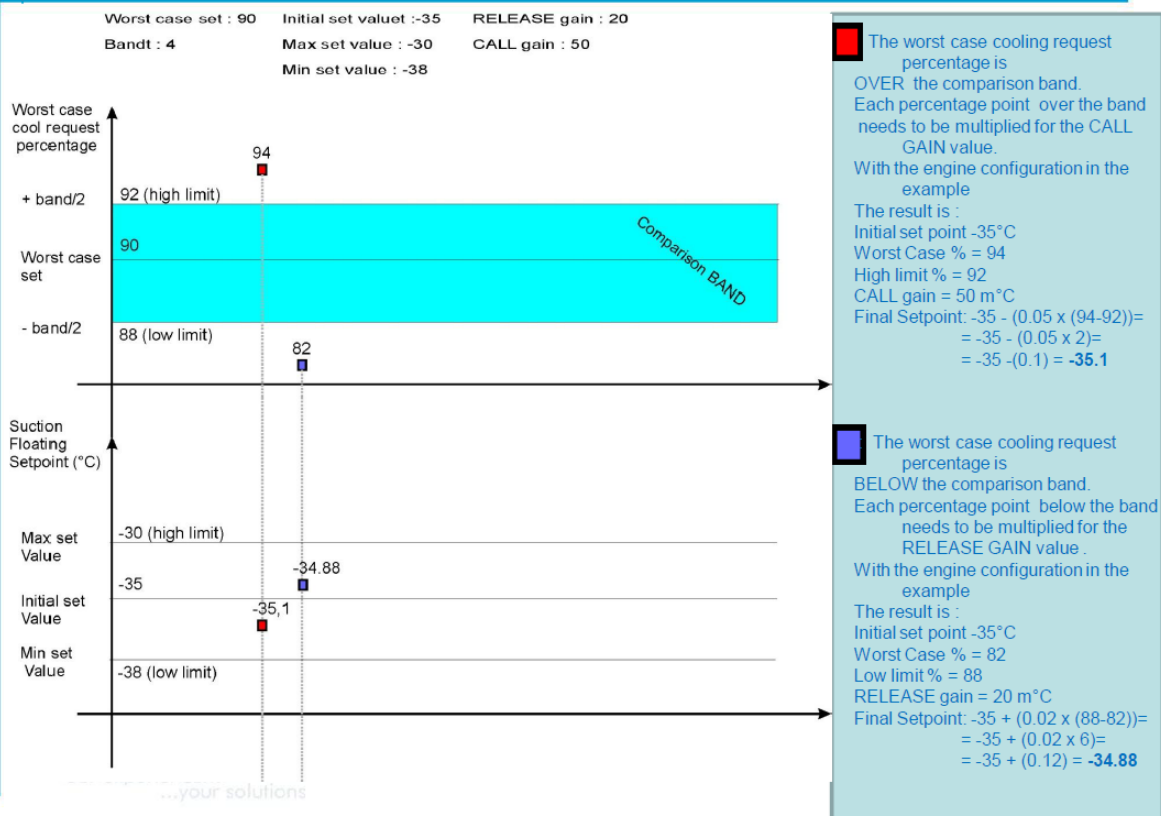
Cycling Mode: The enabling of cycling mode, combined with cycle time (in hours) continuously enables and disables the algorithm. This mode is useful for checking the quality, when applied to the system. Usually, cycle times of no more than three days are set. When the algorithm is disabled, a reset command 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.

3.4.3.5.2HOW IT WORKS



Calculation



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.

3.4.3.5.3 RESULTS FROM CRO

To display the status of the three worst utilities, from the cold call point of view, open the menu LOGS. Select the class and then the devices for which the report is to be issued. The three devices considered to be the worst in the latest period, will be shown on the screen (as illustrated by the image below). The worst device is that indicated in the red column.

| Risultati richiesta freddo (TN) | | | | | | | | | | |
|---------------------------------|----------------------|---------|-----|---------------------------|--------|-----|---------------------------|--------|-----|--------|
| 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.

3.4.3.6 DEW POINT

The Dew-Point managing concept enables the XWEB to act on the adjustment of the anti-sweat heaters in order to reduce their electricity consumption.

The XWEB acts on the XM600 and/or ACC controllers, to which the Dew-point temperature set-point is sent. Condensation builds up on the controlled bench window surrounding the system.

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.

| Module 1 - Active | |
|--------------------|----------------------------------|
| Devices | 1 |
| Interval (Minutes) | 10 |
| Temperature Device | RS1-010 ACC (Active Temperature) |
| Humidity Device | RS1-010 ACC (Active Humidity) |
| SetPoint Offset | 5 |
| Min | -1 |
| Max | 1 |

3.4.3.6.1 CONFIGURATION PARAMETERS

Devices: variables of devices receiving the set dew point value; For XWEB configuration device, define:

- Check enabled: defines whether or not the device is part of the class
- 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 Advanced and enable it.
- 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.

Interval: cycle time for sending the dew-point set (in minutes)

Control Device: device for calculating the dew-point set value. Should the XH50/55P box be selected, the calculation is performed by the same device that must be specified with field "XH50/55P Device". This controller is connected to a temperature and humidity probe in the room. Should this device not be available, it is possible for the XWEB to calculate the Dew-point Set value, by specifying the variables from which the room temperature and humidity values are to be read. They are indicated with parameters Temperature/Humidity controller and Temperature/Humidity Input.

Constant Set Offset: offset at Dew-point set value added

Min./Max. Set: limit values of Dew-point set. Should these values be higher or lower, they are sent to the controllers configured as addressees for this engine

3.4.3.6.2 ERRORS

From LOG, you can read the events created by the Dewpoint engine; in case of errors, the system can put in 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.

3.4.3.7 SUPERVISION

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 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.

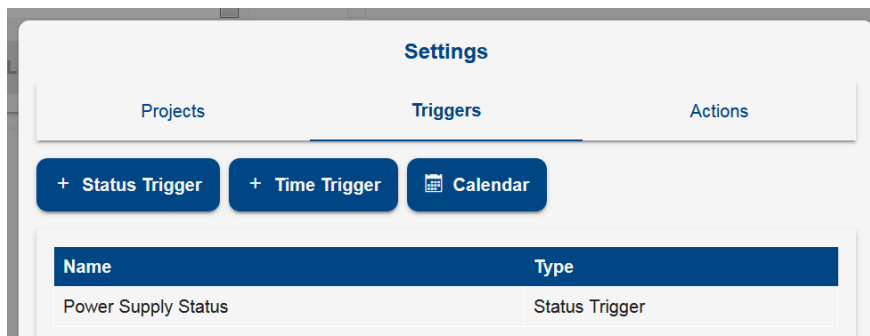
SDC, ELS and ODC

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.

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 'VarA'-Addr1) ACT (RL 'VarB'-Addr1) ) DL
          ( (RL 'VarA'-Addr2) ACT (RL 'VarB'-Addr2) ) DL
          ( (RL 'VarA'-Addr3) ACT (RL 'VarB'-Addr3) ) )
```

Where

RL = Revers logic (box selected = not)

ACT = Activation logic. AND or OR

DL = Device Logic. AND or OR.

'VarA'-Addr1 = VariableA of address device 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 fields “Conditions” and “Labels”. These labels are used to recognise the actual sending of the command.

The screenshot shows a configuration window titled "Action". It contains the following fields and buttons:

- Label:** Energy Saving ON
- Type:** Commands (dropdown menu)
- Commands:** 1 Commands Selected (button)
- SetPoints:** Select Points (button)
- Condition:** Edit (button)
- Label ON:** Energy Saving Activated
- Label OFF:** Energy Saving Deactivated
- Notes:** (empty text area)
- Buttons:** Cancel and Add at the bottom.

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)

Choose the "Create" menu. 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.

The screenshot shows a configuration window titled "Link". It contains the following fields and buttons:

- Label:** Link (ELS)
- Triggers:** Power Supply Status (checkbox checked), AND (dropdown menu)
- Actions:** Energy Saving ON (checkbox checked)
- Buttons:** Cancel and Add at the bottom.

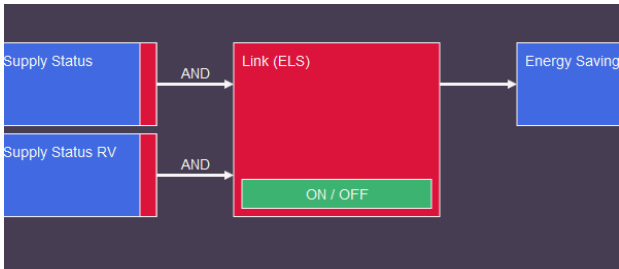
This block can be configured with multiple inputs, such as SDC and/or STE blocks. A logic group can be associated with each of these: AND/OR/DIS. The rule that is executed is $(\sum \text{And} | \sum \text{Or}) \& \sum \text{!Dis}$ where

- 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

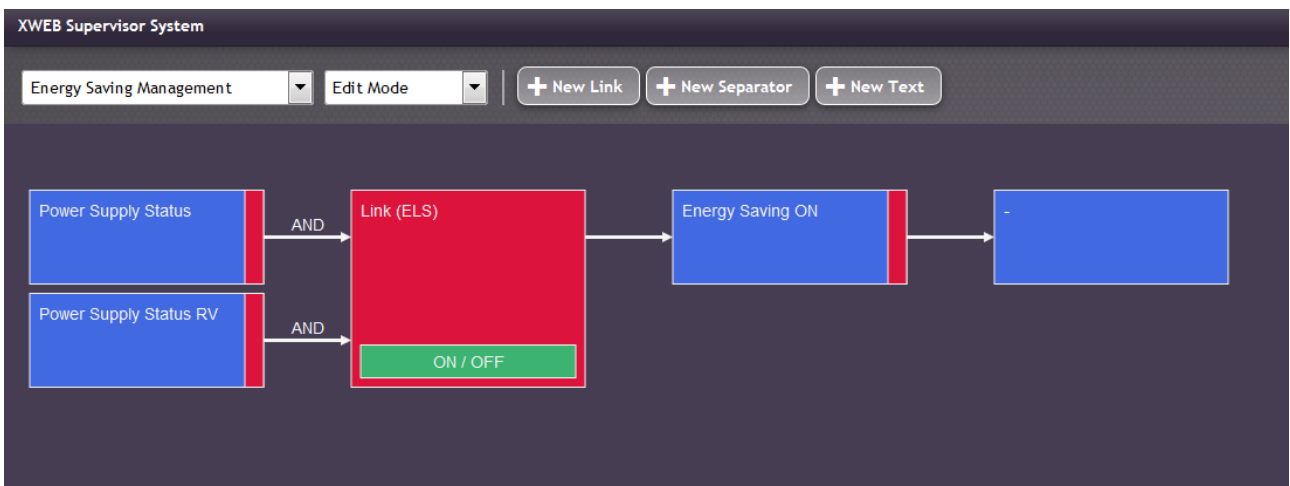
The resulting logic is: $((C1 \& C3 \& C5) | C2 | C4) \& !C7 \& !C6$



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:



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".

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.

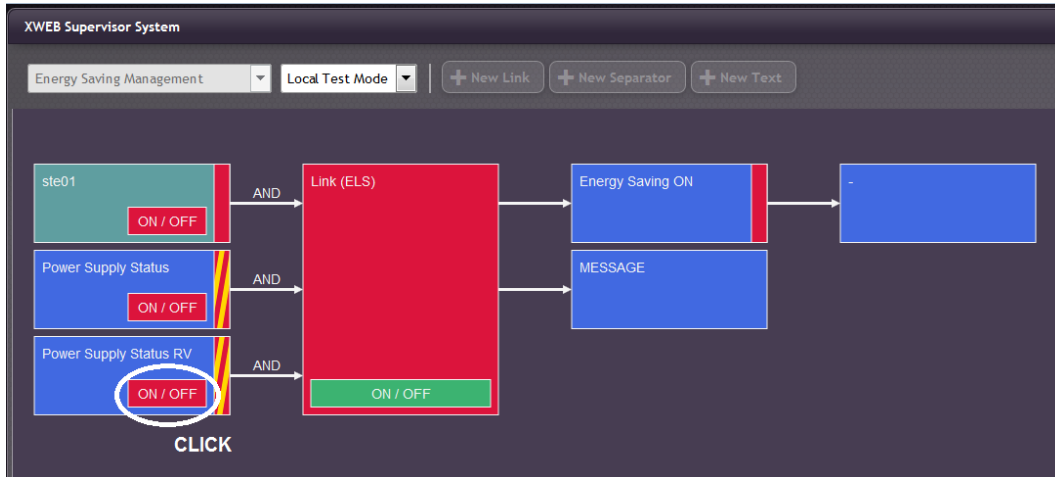
PROJECT SIMULATION

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".

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.

| value/colour | description |
|--------------|-------------|
| Red | Not Active |
| Green | Active |

| | |
|------------|-------------------------|
| Yellow | Trigger on duration |
| Orange | Trigger on delay |
| Yellow+Red | Status Unknown or Error |

3.4.3.8 LANGUAGES

The user manages the languages available in the system by accessing the language management panel. By default, the system presents the user with the following languages:

- English
- Italian
- Spanish
- German
- Portuguese (Brasil)
- Russian
- Turkish
- French
- Polish
- Greek

Other languages can be added/removed and translations are handled with Excel files.

The system having hardware that mounts a factory-installed version 2.0 software, manages a maximum total of 10 languages. Additional installed languages can reduce the temperature data storage time to less than 1 year.

Add New Language

For adding a new language you must specify

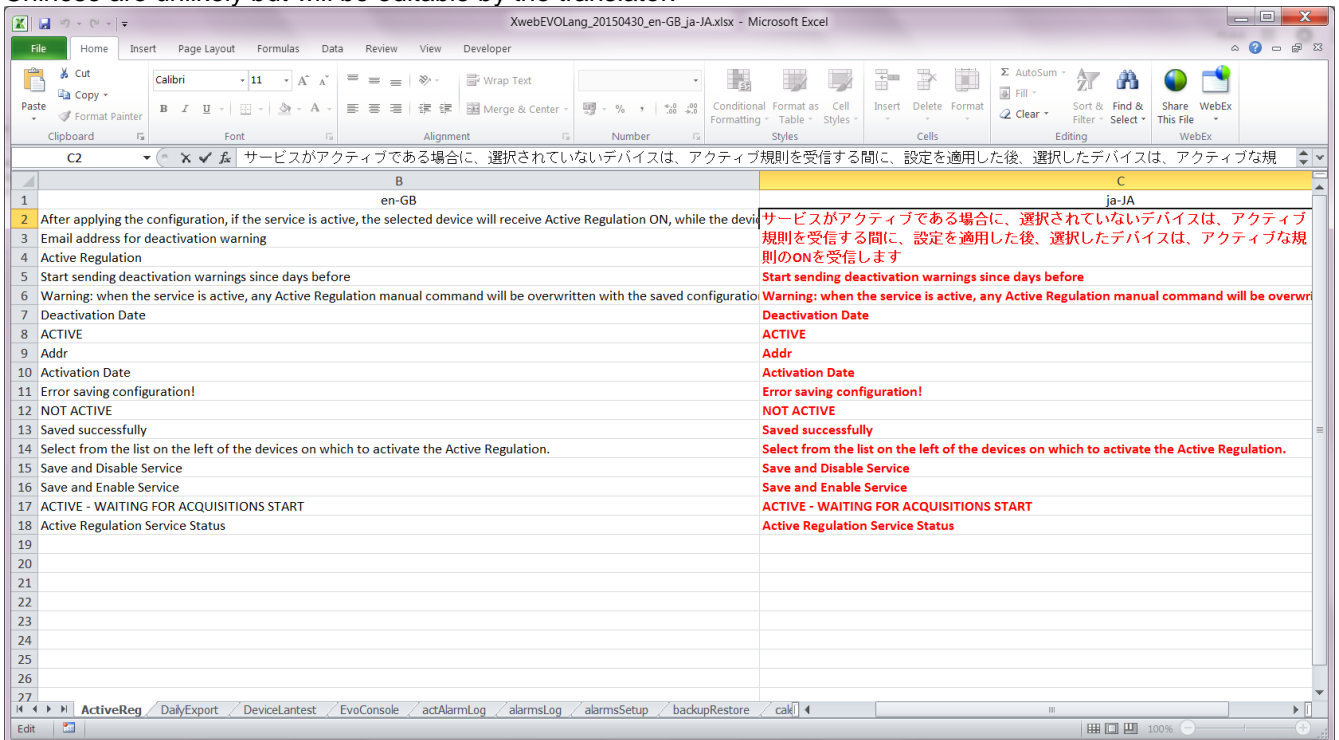
1. A language already present in the system from which to inherit the translations
2. Language name in acronym format. The left box indicates the language and the right side shows the country for management of dialect
3. Language name in extended format.

Export Language

Export is the preliminary step to the translation. Select

1. The source language of translation (for example, English)
2. The language that you want to translate (for example, Japanese)

XWEB exports an Excel file containing all the strings in English and Chinese. Already translated strings in Chinese are unlikely but will be editable by the translator.



Import Language

To import a translation in the system. The format should be the that of the Excel sheet.

Clone Language

To copy translations from one language to another.

Remove language

To remove a language not needed by the system

3.4.1 SYSTEM

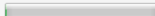
3.4.1.1 INFO

? Info

This page displays the main system configuration parameters and the system status.

| | |
|--------------------------|-----------------------------|
| Name | XWEB EVO NAME .81.68 |
| Description | XWEB EVO DESCRIPTION .81.68 |
| Final Product Code (CPF) | JYLDFAA800 |
| Model | XWEB5000 EVO |
| Hardware | X86 |
| Software | 9e2f7b |

| | |
|-------------|---------------|
| Hostname | XWEB-EVO |
| IP Address | 10.100.81.68 |
| Subnet Mask | 255.255.255.0 |
| Gateway | 10.100.81.1 |
| DNS 1 | 10.100.81.1 |
| DNS 2 | 8.8.8.8 |
| HTTP Port | 80 |
| HTTPS Port | 443 |

| | |
|--------------|--|
| Logs | 1%  |
| Log Duration | 18/09/2017 11:05:00 - 25/09/2017 15:20:00 (7 days) |
| Log ETA | 2 years |
| Polling Time | RS485_1: 10 Seconds |

Name and **description** are set by the user in the menu SYSTEM→SETTINGS→GENERAL; **CPF, Model, Hardware e Software** correspond to the physical product model. The CPF is usually visible on the product label also. **Hostname, IP, Subnet, gateway, DNS 1 and 2, HTTP and HTTPS** ports are set by the user in the menu SYSTEM→SETTINGS→NETWORK. **Logs**: used memory. **Approximate Log Duration**: duration between the oldest and the most recent samples; **Approximate Time of Arrival**: approximate date when the oldest data will be deleted. **Polling Time**: sampling time on serial. These indications can vary over time according to the use of XWEB and is calculated based on the total and the used memory of XWEB

3.4.1.2 UPDATES

Updates

This page displays the software version in use of the product and the list of all updates made on the machine. The list also shows all uploads for integrating device libraries.

Version: 9e2f7b Update Settings

| Date and Time | User | Mode | Name | Version |
|---------------------|-------|---------|-------------------|-------------------------------|
| 19/09/2017 16:29:59 | EN | Upload | Libraries | 20170919 AHU_0000000001E |
| 15/09/2017 17:05:26 | Admin | Network | XWEB EVO Software | DEV--9e2f7b |
| 14/09/2017 17:54:00 | EN | Upload | Libraries | 20170914 SCREW_00F00030000A |
| 14/09/2017 17:51:37 | EN | Upload | Libraries | 20170914 SCREW_00F00030000A |
| 14/09/2017 12:30:04 | Admin | Network | XWEB EVO Software | DEV--069c16 |
| 07/09/2017 17:05:14 | EN | Upload | Libraries | 20170907 SCREW_00F00030000A |
| 07/09/2017 17:03:14 | EN | Upload | Libraries | 20170907 SCREW_00F00030000A |
| 07/09/2017 16:59:24 | EN | Upload | Libraries | 20170907 SCREW_00F00030000A |
| 07/09/2017 16:57:03 | EN | Upload | Libraries | 20170907 SCREW_00F00030000A |
| 07/09/2017 16:53:16 | EN | Upload | Libraries | 20170907 SCREW_00F00030000A |
| 27/07/2017 12:45:43 | EN | Upload | Libraries | 20170727 NewDev0_00F000290001 |
| 24/07/2017 14:04:41 | DE | Upload | Libraries | LIB20170720 json |
| 24/07/2017 14:04:38 | DE | Upload | XWEB EVO Software | 4.3.0 |

Clicking on a row, explodes the details in a dialogue window (see image below).

Version: 9e2f7b Update

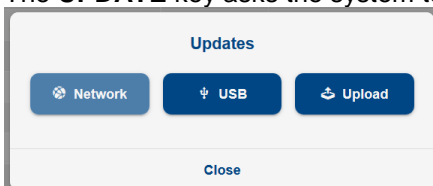
| Date and Time | User | Mode | Name | Version |
|---------------------|-------|---------|-------------------|-------------------------------|
| 19/09/2017 16:29:59 | EN | Upload | Libraries | 20170919 AHU_0000000001E |
| 15/09/2017 17:05:26 | Admin | Network | XWEB EVO Software | DEV--9e2f7b |
| 14/09/2017 17:54:00 | | | | 20170914 SCREW_00F00030000A |
| 14/09/2017 17:51:37 | | | | 20170914 SCREW_00F00030000A |
| 14/09/2017 12:30:04 | | | | DEV--069c16 |
| 07/09/2017 17:05:14 | | | | 20170907 SCREW_00F00030000A |
| 07/09/2017 17:03:14 | | | | 20170907 SCREW_00F00030000A |
| 07/09/2017 16:59:24 | | | | 20170907 SCREW_00F00030000A |
| 07/09/2017 16:57:03 | | | | 20170907 SCREW_00F00030000A |
| 07/09/2017 16:53:16 | | | | 20170907 SCREW_00F00030000A |
| 27/07/2017 12:45:43 | | | | 20170727 NewDev0_00F000290001 |
| 24/07/2017 14:04:41 | | | | LIB20170720 json |
| 24/07/2017 14:04:38 | DE | Upload | XWEB EVO Software | 4.3.0 |

Updates

| | |
|---------------|--------------------------|
| Date and Time | 19/09/2017 16:29:59 |
| User | EN |
| Mode | Upload |
| IP Address | 10.100.82.86 |
| Name | Libraries |
| Version | 20170919 AHU_0000000001E |
| Build | 19/09/2017 00:00:00 |

Close

The **UPDATE** key asks the system to load an update



- Network: when the update is available via internet (only for Dixell updates)
- USB: when the update is present on USB stick already inserted in the system
- Upload: when the update is present and is to be uploaded by the pc on which the web-browser is running.

Note: an update file usually has a .ZIP extension and should not be unpacked to uploaded on the system.

The **SETTINGS** key is used to configure the parameters with which the system accesses or allows access to updates. Do not modify the DIXELL default settings.

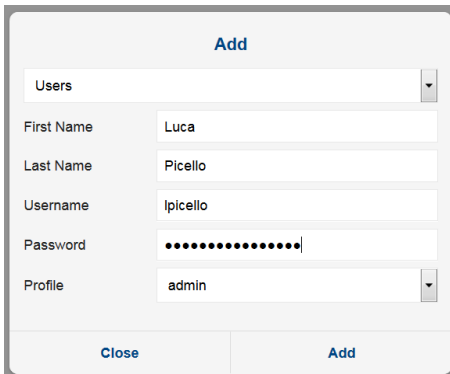
3.4.1.3 USERS

Users

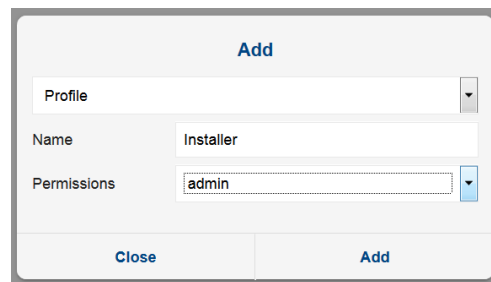
This page configures users and system access and use profiles. The profile is a group of users who have the same characteristics. When creating a new user, you must associate it with an existing profile

With the “+ Add” key, you can add the following to the system:

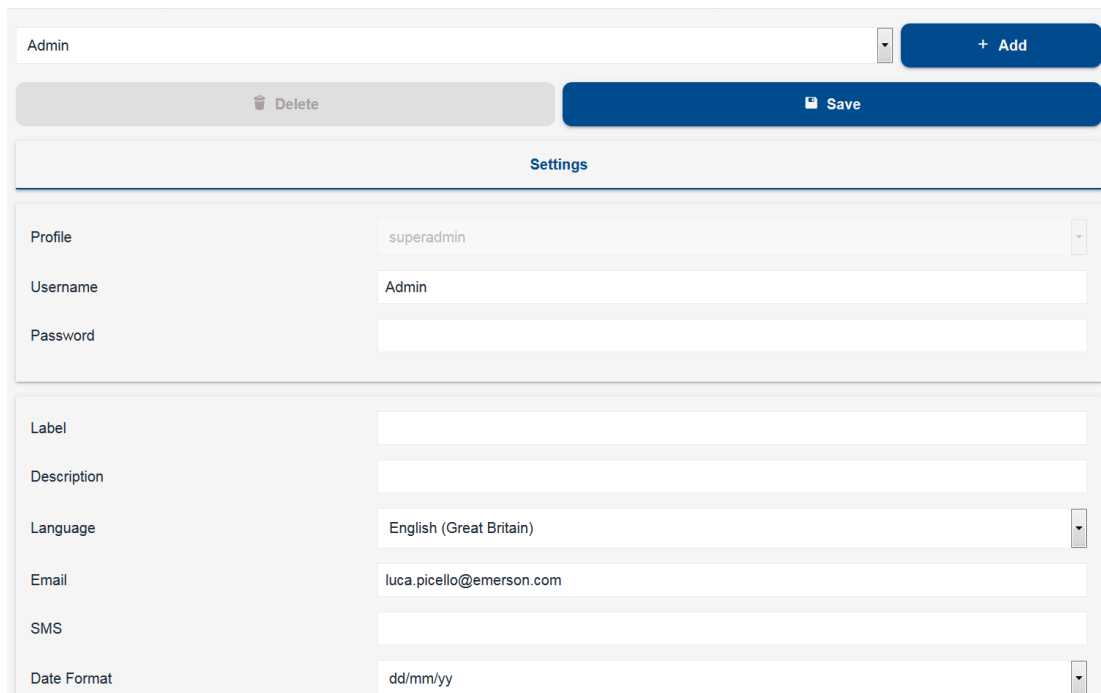
Users



Profiles



From the list of already configured users, you can choose one to access the details and all the options for editing or removing.



The “Save” key consolidates the changes in the XWEB EVO memory, while “Delete” removes them.

The user configuration parameters are:

The user configuration parameters are (SETTINGS section):

- Label: symbolic name of the user
- Description: user description; you can use the title in the organisation, ie “installer”
- Creation date (read only): date/time of creation of the user on the system

- Expiration date: limit date and time beyond which the user is not allowed access to the system; beyond this date the Enabled parameter is automatically forced to disabled.
- Enabled: enabling of access to the system via user interface
- Username: name used to access the user interface
- Password: password used to access the user interface
- Language: user interface language
- Date Format: date/time format of the user interface. The options “dd/mm/yy” (standard Italian) and “mm/dd/yy” (standard American) are available.
- Email: e-mail address where to send user notifications
- Fax (if hardware present): fax number where to send user notifications
- SMS: GSM number to which to send sms notifications
- Enable custom Email Server: enabling to the customised mail server for user email notifications. This mailserver is replaced, but only for the user configured to it in SYSTEM→SETTINGS→EMAIL. The parameters of this server are Server/Email/Authentication/Username/Password
- Default Desktop: the desktop is accessed immediately after logging in
 - Default View Dashboard: which view to present when accessing the Dashboard. The possible choices of "Default Desktop" are
 - Dashboard (default)
 - Devices
 - Alarms
 - Reports
 - Charts
 - Consumption Analyzer
 - Performance
 - Communication Statistics
 - Global Commands
 - Layout pages (for models 500, 3000 and 5000 only)

The possible choices of "Dashboard Default View" are

- Active Alarms (default)
- Blocks
- Bricks
- List

The profile configuration parameters are (PERMISSIONS section):

| Devices | |
|--------------------------------------|--|
| Edit Devices | enables modification of parameters in Devices→Settings→Devices |
| Edit Devices Connection | enables modification of parameters in Devices→Settings→Devices→Connection |
| Edit Alarms | enables modification of parameters in Devices→Settings→Alarms |
| Send Commands | enables modification of parameters in Devices→Settings→Devices→Commands |
| Edit Fast Sampling Mode (FSM) | enables execution of command in Devices→Devices→<device>→Commands→FSM |
| Edit Maintenance Mode | enables execution of command in Devices→Devices→<device>→Commands→Maintenance Mode |
| Read Parameters | enables execution of command in Devices→Devices→<device>→Parameters→Read |
| Parameters Visibility Level | is the level of visibility parameters for the user; the same level is used as the editability limit for the tools that manage it |
| Edit Parameters Value | enabling allows you to set a new value for the values of the parameters read by the device |
| Edit Parameters Visibility | the enabling allows to modify the visibility value of the parameters read by the device, where managed |
| Edit Parameters Editability | the enabling allows to modify the editability value of the parameters read by the device, where managed |
| Import Parameters | enables the command to be executed in Devices→Devices→<device>→Parameters→Import |
| Export Parameters | enables the command to be executed in Devices→Devices→<device>→Parameters→Export |

| Layout | |
|--------------------|---|
| Edit Layout | enables the command to be executed in Layout→Add and Layout→<layout>→Modify |

| Analysis | |
|-----------------------------------|--|
| Edit Reports | allows you to make changes on the desktop Analysis→Reports |
| Edit Charts | allows you to make changes on the desktop Analysis→Charts |
| Edit Consumptions Analyzer | allows you to make changes on the desktop Analysis→Consumptions Analyzer |
| Edit Performance | allows you to make changes on the desktop Analysis→Performance |

| Tools | |
|---------------------------------------|--|
| Edit Global Commands | allows you to make changes on the desktop Tools→Global Commands |
| Edit Scheduler | allows you to make changes on the desktop Tools→Scheduler |
| Edit Calendar | allows you to make changes on the desktop Tools→Calendar |
| Edit Automatic Export | allows you to make changes on the desktop Tools→Automatic Export |
| Edit Compressor Rack Optimizer | allows you to make changes on the desktop Tools→ Compressor Rack Optimizer |
| Edit Dew Point | allows you to make changes on the desktop Tools→ Dewpoint |
| Edit Supervision | allows you to make changes on the desktop Tools→ Supervision |
| Edit Languages | allows you to make changes on the desktop Tools→ Languages |

| System | |
|---------------------------------|---|
| Update | allows you to make changes on the desktop System→Updates |
| Edit Users | allows you to make changes on the desktop System→Users |
| Edit System Settings | allows you to make changes on the desktop System→Settings |
| Backup | allows you to make changes on the desktop System→Backup |
| Restore | allows you to perform a restore on the desktop System→ Backup |
| Reboot | allows you to execute commands on the desktop System→Reboot |
| LCD Access | allows to access the instrument display (XWEB500 only) |
| Edit Acquisitions Status | allows to execute commands start / stop acquisitions |
| Edit Lock Status | allows you to run lock / unlock access commands for non-admin users |

3.4.1.4 SETTINGS



This page configures the system parameters. the page is divided into multiple sections, accessible from the combobox as shown in the following image.

• GENERAL

Language*: 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 system notifications.

Keyboard Model*: physical format of keyboard connected to XWEB (only for XWEB3000/5000)

Keyboard Layout*: keyboard language with key format

Nome*: name of this XWEB. We recommend using an easily recognisable name that distinguishes it from other XWEB, especially if you receive alarm notifications.

Description: description of this XWEB

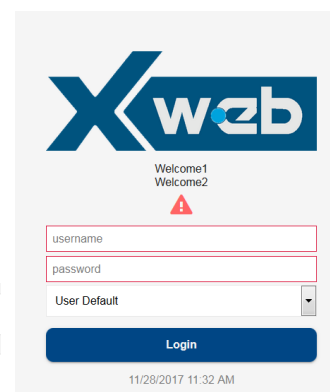
Email: XWEB email address that will be used as sender

Telephone Number: reference telephone number for the maintenance operations of this XWEB

Fax: reference fax number for the maintenance operations of this XWEB. This number will be used as sender, in case the notifications are configured via fax

Welcome Text 1/2: texts for the login homepage (see image below)

| | |
|----------------|----------|
| Welcome Text 1 | Welcome1 |
| Welcome Text 2 | Welcome2 |



- Date and Time

Configuration parameters of the XWEB 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.

- Network

| XWEB3000/5000 | XWEB300D/500D/500 |
|---------------|-------------------|
| | |

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.

- *'Hostname'*: Name identifying the machine within the network. Example XWEB0001
- *'DHCP Client'*: enable this box if your network provides a DHCP server and if you want it to inform the XWEB regarding which IP to use. Disabling implies that the user configuring the XWEB must explicitly indicate network parameters.
- *'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 Subnet 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
- Enable ARP ', ARP Interval ', Arp Count ': Forcing ARP packets to update the company/store network. ARP packets update the routing tables by associating the MAC address of the XWEB device with its IP. Interval and Count respectively indicate the cycle time and how many packets are sent while XWEB is on. These parameters are valid for ETH0 only.
- 'DNS': 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
- 'HTTP 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).
- 'HTTPS Port': is the network port on which the web server is listening. The default port is number 443.
- 'Enable local DHCP Server': it makes sense to enable this function only if you do not want to connect XWEB to a network but only to a PC, whose network interface does not specify an IP. If in doubt keep this box disabled to avoid conflicts on your network.

For the XWB3000/5000 it is possible to configure the IPs of the two LAN and FIELD ports.

For XWEB300D/500D/500 it is possible to configure two IP addresses on the LAN port.

- Modem

The screenshot shows a configuration window for a modem. At the top, there is a dropdown menu labeled 'Modem' with a downward arrow. Below this, the window is divided into two sections: 'Main Modem' and 'Secondary Modem'. Each section contains three fields: a 'Modem' dropdown menu (both set to 'Disabled'), a 'Label' text input field, and a 'Dial In' checkbox (both unchecked). At the bottom right of the window, there is a blue button with a white floppy disk icon and the text 'Save'.

XWEB requires a modem, 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.

The following options are possible:

1. Disabled
2. Dixell internal modem. Corresponds to the internal analog modem
3. Dixell external modem. Corresponds to the external modem XWEBMODEM
4. External GPRS/UMTS modem. Corresponds to the TC35-KIT, GT-HE910-EUD-KIT, GT-HE910-NAD-KIT modem
5. Internal GPRS modem. Corresponds to the internal modem.

6. External generic modem.

- Dialup

The screenshot shows a configuration window for 'Dialup'. At the top, there is a dropdown menu with 'Dialup' selected. Below it is an 'Enabled' checkbox. Underneath is a 'Modem' dropdown menu. At the bottom right, there is a blue 'Save' button.

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 XWEB 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.

- Inputs / Outputs

The screenshot shows the 'Inputs / Outputs' configuration page. It is divided into three main sections: Digital Inputs, AUX, and RAUX.

Digital Inputs

| Digital Input | Label ON | Global Command ON | Label OFF | Global Command OFF |
|-----------------|----------|-------------------|-----------|---------------------|
| Digital Input 1 | ON | None | OFF | another glb command |
| Digital Input 2 | ON | None | OFF | None |

AUX

| AUX | Inverted Polarity | Activate After Level Accumulation | Timeout (Seconds) |
|-------|--------------------------|-----------------------------------|-------------------|
| AUX 2 | <input type="checkbox"/> | <input type="checkbox"/> | 0 |
| AUX 3 | <input type="checkbox"/> | <input type="checkbox"/> | 0 |

RAUX

Enabled RAUX

Device XJR40 None

| RAUX | Inverted Polarity | Activate After Level Accumulation | Timeout (Seconds) |
|--------|--------------------------|-----------------------------------|-------------------|
| RAUX 1 | <input type="checkbox"/> | <input type="checkbox"/> | 0 |
| RAUX 2 | <input type="checkbox"/> | <input type="checkbox"/> | 0 |
| RAUX 3 | <input type="checkbox"/> | <input type="checkbox"/> | 0 |
| RAUX 4 | <input type="checkbox"/> | <input type="checkbox"/> | 0 |

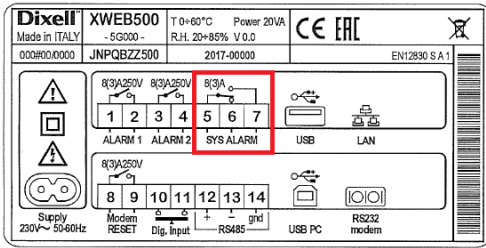
- Digital Inputs (only for xweb500 / xweb3000 / xweb5000)

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

- AUX

The boxes set the normal logic for the XWEB AUX relays. The disabling of the 'follow alarm delay' box energises the relay in sync with the reading of the alarm status.

(only for XWEB500) the parameter "Enable SYS ALARM Relay to be normally de-energized" If the instrument is on and there are no alarms, with this parameter enabled (default), the relay will close between terminals 5 and 6. Otherwise between the terminals 5 and 7.



- RAUX

This section is used to configure a possible XJR40D to use it as extension of the XWEB alarm relays.

- Acquisitions

Acquisitions

Acquisitions Automatic Restart

Acquisitions Automatic Restart Timeout Hours

XWEB can be configured so that it automatically starts acquisitions after a given time from when the acquisitions are stopped.

- Alarms

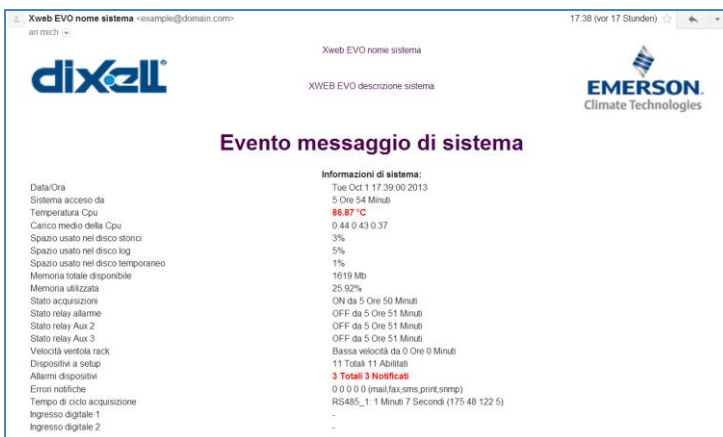
Alarms

Enable System AUX Management

| Notifications | |
|------------------------------|-------------------------------------|
| Blackout | <input type="checkbox"/> |
| Acquisitions ON | <input type="checkbox"/> |
| Acquisitions OFF | <input type="checkbox"/> |
| High CPU Temperature | <input type="checkbox"/> |
| Digital Input 1 ON | <input type="checkbox"/> |
| Digital Input 2 ON | <input type="checkbox"/> |
| Max Size Data Log | <input checked="" type="checkbox"/> |
| Max Size System Log | <input checked="" type="checkbox"/> |
| Max Size Temporary Directory | <input type="checkbox"/> |
| Error System Configuration | <input type="checkbox"/> |
| Error Sending Email | <input type="checkbox"/> |
| Error Sending Fax | <input type="checkbox"/> |
| Error Sending SMS | <input type="checkbox"/> |
| Error Local Print | <input type="checkbox"/> |
| Error XCenter | <input type="checkbox"/> |

| Recipients | | | | | | | |
|---------------|--------------------------|--------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| Username | Fax | Fax OCR | Fax Info | Email | Email Attachment | Email Info | SMS |
| Admin (Admin) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| CN CN (CN) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| DE DE (DE) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| EN EN (EN) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| GR GR (GR) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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="-----40DFF36D5A44ECBC"
Return-Path: example@domain.com
X-OriginalArrivalTime: 01 Oct 2013 15:38:57.0073 (UTC) FILETIME=[5774E210:01CEBEB3]

-----40DFF36D5A44ECBC
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:

-----40DFF36D5A44ECBC

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 |

- Email

The screenshot shows a configuration window titled "Email". At the top, there is a dropdown menu with "Email" selected. Below this, the "Enabled" checkbox is checked. The "Server" field contains the IP address "10.100.80.14". The "Authentication" dropdown is set to "No Authentication". The "Username" and "Password" fields are empty. The "Forward" dropdown is set to "LAN". The "Retry" and "Delay (Minutes)" fields both contain the value "0". At the bottom of the configuration area, there is a blue button labeled "Test Email".

The XWEB 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 XWEB supports different types of authentication protocols:

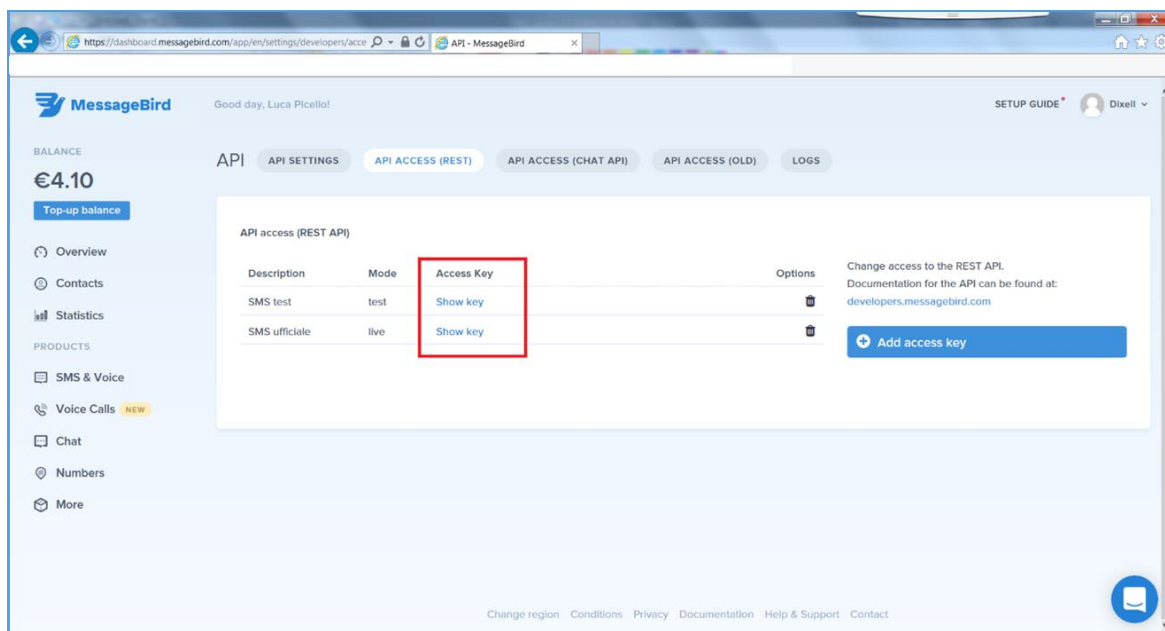
- No authentication
- User/Name normal
- User/Name TLS (without STARTTLS)
- User/Name TLS
- User/Name SSL

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

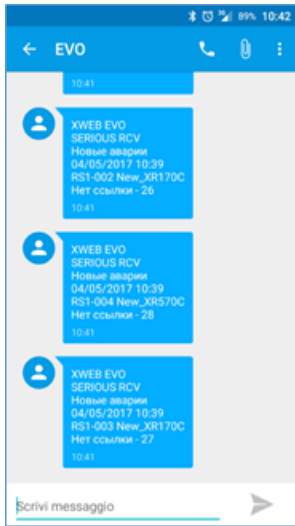
- SMS

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

- Netech Gateway. 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 INTERNAL MODEM GSM/GPRS. If your XWEB is equipped with an internal GPRS modem, you will be able to use it to send messages using your phone credit.
- Via Sopen KOREA Gateway. If your XWEB is connected to the internet and you want to send SMS to Korea using the Sopen service (only available in Korea)
- Via RAVEN XE gateway. If you have connected a XE modem raven to the XWEB, you will be able to use it to send messages using your phone credit.
- MESSAGEBIRD: Once registered to the website www.messagebird.com, create the access key to be used in the XWEB EVO configuration. The access key relates to your credit line, from which the cost of each SMS to be sent from XWEB EVO will be downloaded.



Messagebird supports the sending of text in non-Latin characters

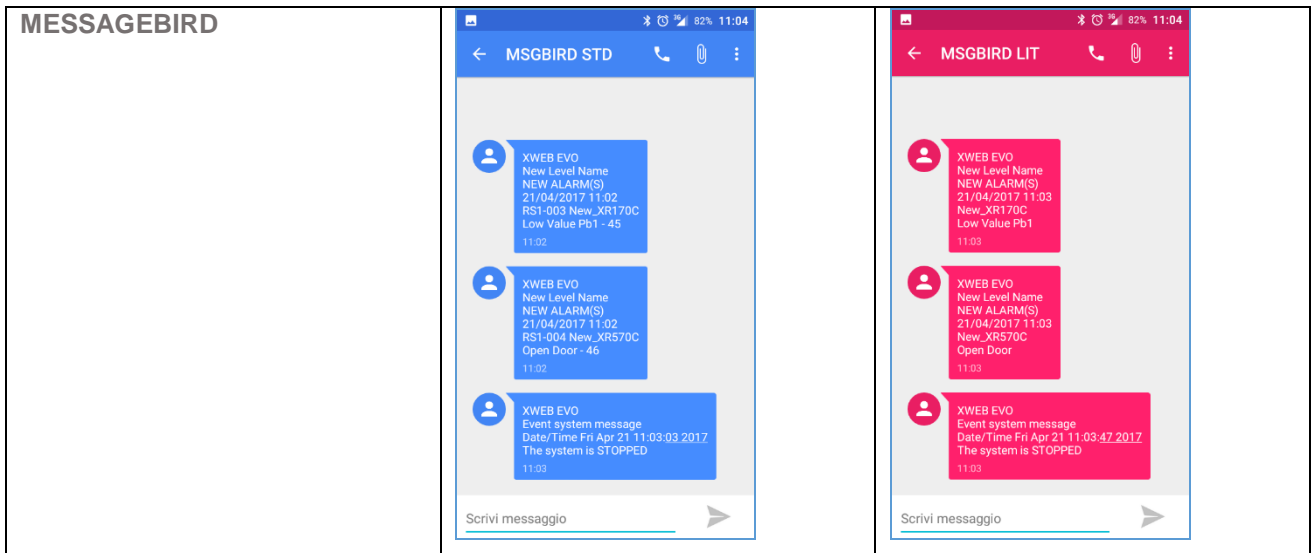


Caution: in order to use the service, always make sure to have sufficient credit for sending sms; from XWEB EVO the credit check is available in the system configuration page: press on “Check current balance”.

Alarm SMS sending in LIGHT format

In order to make the SMS messages more readable, the SMS format has been extended to the LIGHT option. Thanks to this function, the ModBUS address and the alarm code have been removed to increase the characters available to describe the device.

| | STANDARD | LIGHT |
|--------|----------|-------|
| NETECH | | |



- XCenter

XCenter

Enabled

XWEB ID

XCenter IP Address

Forward LAN

Test Trap

Test FTP Upload

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

- Printers

Printers

Enabled

Installed Printers None

Add

Edit

Delete

Test

Default Printer None

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>

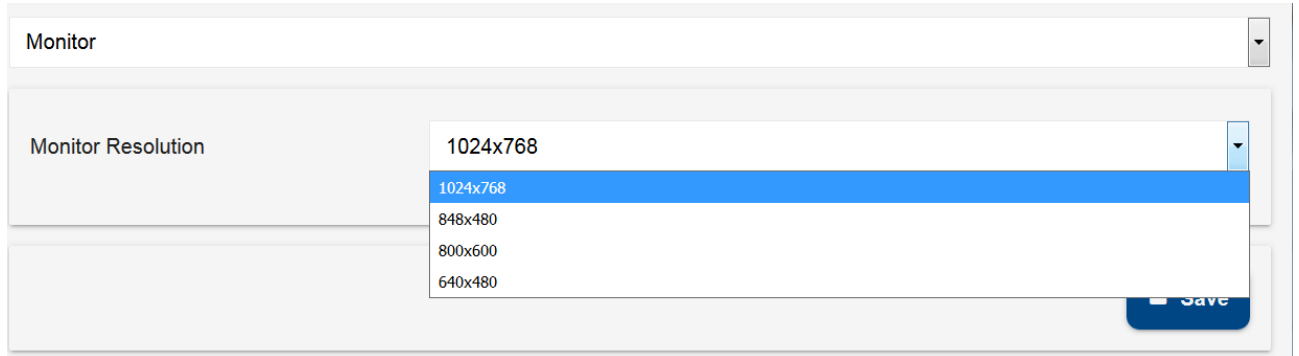
Local printer

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

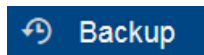
Once you have selected Windows Network Printer, the system automatically searches for the available network printers. After a few minutes (based on the size/complexity of the network), the full list of printers will appear. If your printer does not appear in the list, it cannot be used; try to repeat 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.

- Monitor



the page allows forcing the resolution for the monitor connected directly to XWEB. The option is only available for XWEB3000/5000.

3.4.1.5 BACKUP



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:

Backup

The procedure allows for the saving of data selected on the device selected in "Destination". The most thorough backup is run by selecting all items. Press "Start backup" to complete the operation.

Restore/Upload

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.

3.4.1.6 SYSTEM LOGS

System Log

The page enables the user to visualise a list of events describing the most significant actions executed by the system and by the users accessing it. The user can choose to apply filters for the display.

| Date | Level | Context | User | Message |
|---------------------|-------|---------------------|--------------------|---|
| 2016-09-22T17:08 | | | | |
| 2017-09-25T17:08 | | | | |
| Apply | | | | |
| 25/09/2017 16:42:01 | info | setup-lang_kbd | EN (10.100.80.169) | Active keyboard configuration |
| 25/09/2017 16:42:00 | info | setup-lang_kbd | EN (10.100.80.169) | Store keyboard configuration |
| 25/09/2017 16:42:00 | info | setup-lang_kbd | EN (10.100.80.169) | Active language configuration |
| 25/09/2017 16:42:00 | info | setup-lang_kbd | EN (10.100.80.169) | Store language configuration |
| 25/09/2017 16:42:00 | info | setup-sysident | EN (10.100.80.169) | Store system information |
| 25/09/2017 15:53:41 | info | User Setup | EN (10.100.80.169) | Edited user "Luca Picello (picello)" |
| 25/09/2017 15:53:11 | info | User Setup | EN (10.100.80.169) | Edited user "Luca Picello (picello)" |
| 25/09/2017 15:50:36 | info | User Setup | EN (10.100.80.169) | Created new user profile "installer" |
| 25/09/2017 15:50:28 | info | User Setup | EN (10.100.80.169) | Deleted user profile "ssssssssss" |
| 25/09/2017 15:49:15 | info | User Setup | EN (10.100.80.169) | Created new user "Luca Picello (picello)" |
| 25/09/2017 15:24:31 | info | Send device command | EN (10.100.80.169) | Send (Defrost ON) Success |
| 25/09/2017 14:10:35 | info | Chart | EN (10.100.80.169) | Export Devices Data Format XLSX |
| 25/09/2017 12:52:07 | info | Chart | EN (10.100.80.169) | Export Devices Data Format CSV |
| 25/09/2017 12:49:42 | info | xwebwm | EN (10.100.80.169) | Start Acquisitions |
| 25/09/2017 12:49:39 | info | systemLog | xwsched | Start client tasks |

3.4.1.7 WIZARD SETUP

Accessing the XWEB User Interface for the first time, the device needs to be configured. Configuration includes, but is not limited to, its system settings like IP address, users that will be granted to access to the XWEB UI and their rights, the network of controllers connected to the XWEB and their alarm configurations. If available, the user can restore a previous configuration backup-file accessing the "RESTORE SETUP" section; or can continue xweb from scratch accessing the "SETUP WIZARD" section and going through all its steps.

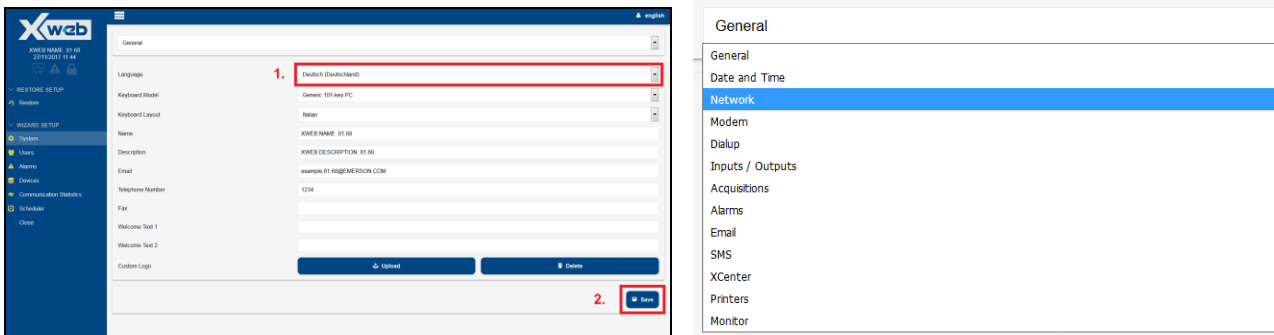
3.4.1.8 RESTORE SETUP

The user can configure the xweb starting from a backup file previously executed with XWEB. Restore can be carried out from files in the same XWEB system or present in other media accessible to the browser (typically a USB stick or PC folder or network server).

3.4.1.9 WIZARD SETUP

The user can configure the xweb starting from the XWEB default configuration. The main parameters of the same configuration can be seen and modified by scrolling the sections of the “wizard setup” menu; when modified, press the “Save” key to save it in the xweb memory.

The following image shows the sequence of operations to be performed before being able to change page; the page change is made by either changing the section from the WIZARD SETUP menu or by changing the section from the SYSTEM page combobox.



3.4.1.10 REBOOT



To reboot the machine software. Rebooting is useful to qualified personnel only, such as the customer support team. To perform this operation the user needs to confirm it by entering the password again.

3.4.1.11 SHUTDOWN



For a complete shutdown of the machine, without reboot. Shut down is useful to qualified personnel only. **!!Warning!!** This operation is not reversible, so **when the machine has been switched off, it will not automatically 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. To perform this operation the user needs to confirm it by entering the password again.

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. FAQs

5.1 MAINTENANCE PROCEDURE FOR XWEB300/500 MODELS

In case you need to disconnect XWEB to move it or to make cleaning, remember that it should not be opened for any reason, under penalty of immediate termination of the guarantee. Please follow the following procedure by observing the shape of the rear panel as per the installation manual. The same is provided in hard copy 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 input;

Now you can unplug the power cord and move XWEB;

5.2 MAINTENANCE PROCEDURE FOR XWEB3000/5000 MODELS

Should it be necessary to disconnect the XWEB 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;

Wait for all LEDs on the front to go off, including the PWR;

Disconnect external modem, if present;

Disconnect parallel printer or USB;

Disconnect monitor, keyboard and mouse;

Disconnect the telephone line and/or LAN network cable;

Disconnect RS485 terminals, relay and digital input

Now disconnect the power supply cable and move the XWEB;



Press and hold button 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.

5.3 HOW TO CHANGE XWEB TIME/DATE

Check the user and password first and then change date/time from the system settings.

5.4 I CANNOT ACCESS THE SYSTEM WITH MY PASSWORD

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

Warning of Temporary blocking of user access: each user is temporarily blocked for 5 minutes if he failed to enter the password for login 5 times in the previous 5 minutes. During the account lockout period the login page gives login error.

5.5 CAN I USE XWEB CLASSIC LIBRARIES TO INTEGRATE DEVICES

No, XWEB EVO is not compatible with CLASSIC model files.

5.6 WHAT IS XWEB DEFAULT IP

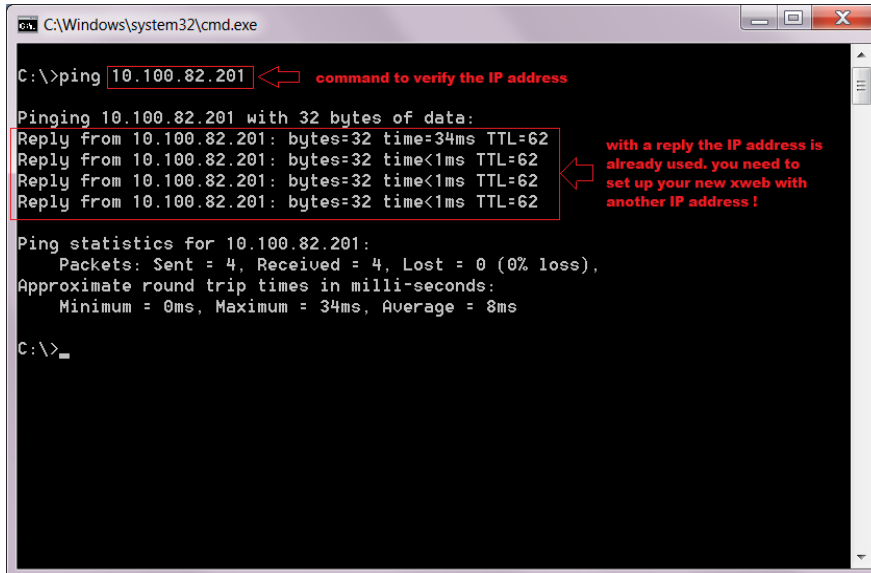
For XWEB300D/500D/500 models default IP is 192.168.0.150

For XWEB3000/5000 default IP for LAN port is 192.168.0.200 and for FIELD port is 192.168.0.100

5.7 MY BROWSER CANNOT REACH THE XWEB

Check the cables in use starting from that connected to your PC's network. Once the cables have been checked, check that the XWEB 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:



```
C:\Windows\system32\cmd.exe
C:\>ping 10.100.82.201
Pinging 10.100.82.201 with 32 bytes of data:
Reply from 10.100.82.201: bytes=32 time=34ms TTL=62
Reply from 10.100.82.201: bytes=32 time<1ms TTL=62
Reply from 10.100.82.201: bytes=32 time<1ms TTL=62
Reply from 10.100.82.201: bytes=32 time<1ms TTL=62

Ping statistics for 10.100.82.201:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 34ms, Average = 8ms

C:\>
```

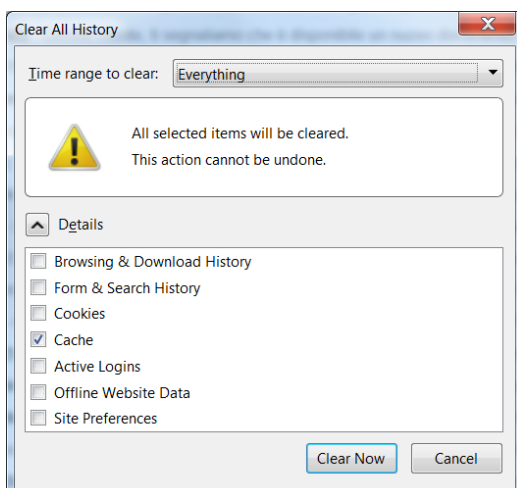
If no reply is received, your PC is unable to communicate with the XWEB. Check the cables once again or contact your network administrator. Attention, if a reply is received, it may not come from the XWEB: it may come from another device on the network. Also in this case, should you continue to have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

5.8 DISPLAYING OF INCOMPLETE OR INCORRECT PAGES FROM PC

The temporary browser files, also known by the name cache-files, may sometimes prevent proper use of the XWEB. This happens when, for example, an XWEB 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/tablet documentation and/or obtain the support of a computer expert or your network administrator.

- To clear cache with MOZILLA FIREFOX
press CTRL + SHIFT + C



5.9 SOMEONE HAS RECEIVED A CONFLICTING MESSAGE ON THE IP ADDRESS

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

5.10 HOW MANY CONTROLLERS CAN THE XWEB MANAGE

The XWEB300/500 can manage only one RS485 serial line, which can address up to a maximum of 247 controllers. The maximum number of devices that can be used depends instead on the model purchased; for example, models XWEB300D can handle up to 18 addresses, while the XWEB500 can handle up to 100 addresses.

The XWEB3000/5000 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.

5.11 HOW THE ALARMS ARE MANAGED

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

System. The XWEB system anticipates that all notifications to an external media source (e.g. an email server) are configured in the system settings.

Book. All recipients of the alarm notifications must be recorded in the system and must have their Email/fax contact details, or other, configured.

Controllers It is necessary to define the controller network from which the XWEB will detect the alarm status of the same controllers.

Alarms. It is necessary to define the rules according to which the detected alarms must be notified. 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).

5.12 HOW ARE THE ALARM EMAILS RE-SENT

The XWEB is often installed to notify alarms via email. This service can be configured in various ways to re-send emails, should the alarm conditions persist over time:

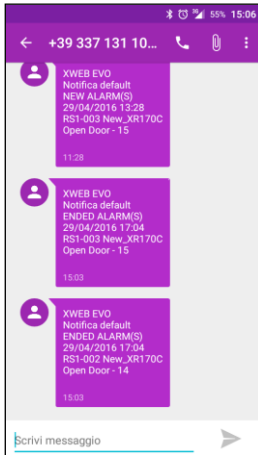
1. The first type of re-send is carried out during the lifespan of the level, where the emails are always re-sent to the same recipients. The parameters affecting this type of re-send are "Resend Time" and "Resend life time", in the level settings.
2. the second type of re-send is carried out through 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.

5.13 TABLETS / PDA COMPATIBILITY

The XWEB user interface is normally accessible via 10" tablet web browser. The HTML pages are re-sized according to the size of the screen. However, on smaller screens with low resolution, the pages are all usable.

5.14 HOW SMS ALARM NOTIFICATIONS APPEAR

When XWEB EVO detects an alarm from the devices network, if configured for SMS notifications it sends them with the following text (example):



which lists information about:

- XWEB name
- Notification level name
- Alarm START/END type
- Event DATE/HOUR
- Device name
- Alarm name
- Unique ID of the alarm as in the xweb Alarm Log

5.15 MODEM ERROR MESSAGES

In the "system log" associated with the message "Error sending SMS" there is an error code that you can see keeping the mouse still over the message.

+Send message using physical device GSM connected to the physical serial device

```
+-----  
+1 => (GSM) Unable to get evo model from xwebconfig.json  
+2 => (GSM) No gsm support 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 physical 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

