



XWEB PRO

OPERATING MANUAL (V.1.0)

INDEX

1.	INTRODUCTION	7
2.	THE RECIPIENTS OF THIS MANUAL	8
3.	USE XWEB	8
3.1	DESKTOP	8
3.2	REQUISITI SOFTWARE MOBILE (SMARTPHONE/TABLET)	8
3.3	WEB INTERFACE	9
3.3.1	FIRST INSTALLATION	12
3.3.2	INTERFACE WITH SYSTEM CONFIGURED	13
3.3.2.1	DASHBOARD	13
3.3.2.2	DEVICES	15
3.3.2.2.1	REALTIME	15
3.3.2.2.2	COMMANDS	17
3.3.2.2.3	PARAMETERS	19
3.3.2.3	ALARMS LOG	24
3.3.2.4	SETTINGS	25
3.3.2.4.1	DEVICES	25
3.3.2.4.1.1	ADD	25
3.3.2.4.1.2	DELETE	28
3.3.2.4.1.3	DEVICE SELECTION	28
3.3.2.4.1.3.1	CLONE	29
3.3.2.4.1.3.2	EXPORT	29
3.3.2.4.1.3.3	APPLY	30
3.3.2.4.1.3.4	GENERAL	30
3.3.2.4.1.3.5	VARIABLES	30
3.3.2.4.1.3.6	CONNECTION	31
3.3.2.4.1.3.7	COMMANDS	32
3.3.2.4.2	ALARMS	33
3.3.2.4.2.1	PRINCIPLES OF OPERATION	33
3.3.2.4.2.2	CATEGORIES	33
3.3.2.4.2.3	LEVELS	34
3.3.2.4.3	GROUPS	37
3.3.2.4.4	PRECONFIGURATIONS	38
3.3.2.4.5	UPDATES	38
3.3.2.4.6	HIGH FREQUENCY POLLING	39
3.3.3	LAYOUT	41
3.3.4	ANALYSIS	43
3.3.4.1	REPORTS	43
3.3.4.1.1	HACCP REPORTS	43
3.3.4.1.2	FOOD QUALITY REPORTS	46
3.3.4.1.3	DATA REPORTS	48
3.3.4.2	CHARTS	49
3.3.4.3	CONSUMPTION ANALYZER	53
3.3.4.4	PERFORMANCE	57
3.3.4.5	COMMUNICATION STATUS	59
3.3.5	TOOLS	61
3.3.5.1	GLOBAL COMMANDS	61
3.3.5.2	CONTACTS	63
3.3.5.3	SCHEDULER	64
3.3.5.4	CALENDAR	69
3.3.5.5	AUTOMATIC EXPORT	70
3.3.5.6	COMPRESSOR RACK OPTIMIZER	72
3.3.5.6.1	CONFIGURATION PARAMETERS	72

3.3.5.6.2	HOW IT WORKS	73
3.3.5.6.3	RESULTS FROM CRO	74
3.3.5.7	DEW POINT	75
3.3.5.7.1	CONFIGURATION PARAMETERS	75
3.3.5.7.2	ERRORS	75
3.3.5.8	SUPERVISION	77
3.3.5.9	LANGUAGES	83
3.3.5.10	DATA PUSH	84
3.3.5.10.1	PROTOCOL	84
3.3.5.11	COMPRESSOR GUARD	86
3.3.5.12	XECO2	86
3.3.5.13	DOCUMENTS	88
3.3.6	SYSTEM	89
3.3.6.1	INFO	89
3.3.6.2	UPDATES	90
3.3.6.3	USERS	92
3.3.6.4	SETTINGS	96
3.3.6.5	BACKUP	108
3.3.6.6	SYSTEM LOGS	109
3.3.6.7	WIZARD SETUP	109
3.3.6.8	RESTORE SETUP	109
3.3.6.9	WIZARD SETUP	110
3.3.6.10	REBOOT	110
3.3.6.11	SHUTDOWN	110
4.	TRADEMARKS	111
5.	FAQS	112
5.1	MAINTENANCE PROCEDURE FOR XWEB300/500 MODELS	112
5.2	MAINTENANCE PROCEDURE FOR XWEB5000 MODEL	112
5.3	HOW TO CHANGE XWEB TIME/DATE	112
5.4	I CANNOT ACCESS THE SYSTEM WITH MY PASSWORD	112
5.5	CAN I USE XWEB CLASSIC LIBRARIES TO INTEGRATE DEVICES	112
5.6	WHAT IS XWEB DEFAULT IP	112
5.7	MY BROWSER CANNOT REACH THE XWEB	113
5.8	DISPLAYING OF INCOMPLETE OR INCORRECT PAGES FROM PC	113
5.9	SOMEONE HAS RECEIVED A CONFLICTING MESSAGE ON THE IP ADDRESS	114
5.10	HOW MANY CONTROLLERS CAN THE XWEB MANAGE	114
5.11	HOW THE ALARMS ARE MANAGED	114
5.12	HOW ARE THE ALARM EMAILS RE-SENT	114
5.13	TABLETS / PDA COMPATIBILITY	115
5.14	HOW SMS ALARM NOTIFICATIONS APPEAR	115
5.15	MODEM ERROR MESSAGES	115
5.16	LIMITS ON LOADING FILES	116

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" / "XWEB1000D" / "XWEB 5000" models. Any particular feature is expressly specified.	
CAUTION 	This control and monitoring unit fulfils EN 12830 for use with probes to detect measurements referred to in 13485	
CAUTION 	This is a class A product. It can cause radio-interference in residential environments. Should this occur, the user should take suitable countermeasures	
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	

CAUTION 	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.
CAUTION 	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

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 remotely available through the ethernet port also locally on the XWEB5000 model with ports for monitor, keyboard and mouse. Remotely it is necessary and sufficient to use the web interface to be able to connect to a normal computer with Internet browser, such as Mozilla Firefox™ or Google Chrome™. The XWEB300D / 500D / 1000D models can be easily installed on a DIN rail; the 5000 model with desk or 19" rack.



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 management of controllers with planned operations (only for 500D/1000D/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 500D, 1000D and 5000 models)
- Compressor Guard management: to manage the safety of the starting compressors
- XeCO₂: the innovative and complete system that allows you to work in total safety with flooded evaporators, thus optimizing the operation of CO₂ systems
- 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.



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. USE 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 Edge	SUPPORTED	16+
Mozilla Firefox	SUPPORTED	54+
Google Chrome	SUPPORTED	58+
Apple Safari	SUPPORTED	10.1+
Opera	SUPPORTED	44+
Microsoft Internet Explorer	NOT SUPPORTED	

3.2 REQUISITI SOFTWARE MOBILE (SMARTPHONE/TABLET)

Browser	Support	Minimum Version
Apple iOS Safari	SUPPORTED	10.3+
Android Google Chrome	SUPPORTED	58+
Android Mozilla Firefox	SUPPORTED	54+

In the following sections, general information is provided on the possible network configurations, suitable for connection between XWEB 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 pages correctly. We recommend checking the configuration of this software and adding their IP addresses to the list of safe sites. With firewalls, make sure that ports 80 and 22 are mapped towards XWEB so that it can be reached from outside.

3.3 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.

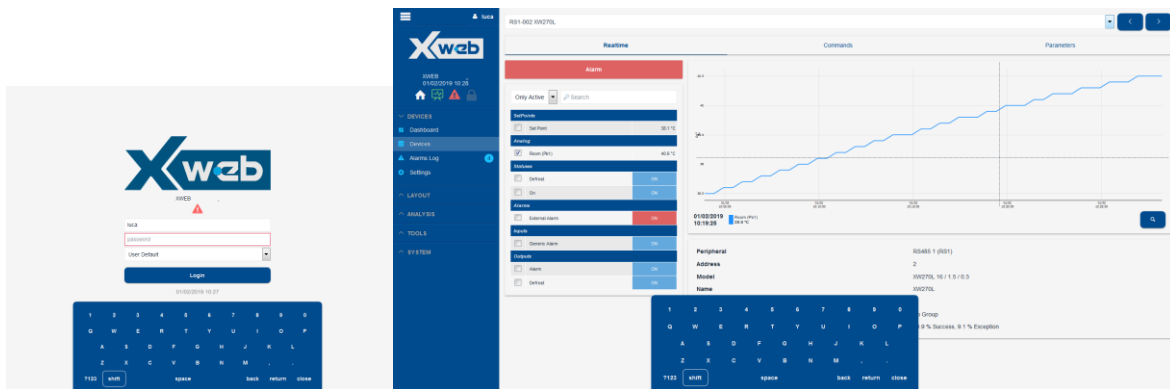
When using the product with a screen interface, this is presumed to be connected before the machine is started.

The local interface of the product can be used with a generic touch screen with a virtual keyboard



that can be opened by clicking on the button on the left always present at the bottom of the screen. By pressing the right button once or more, the menu then the keyboard changes the side of the screen on which it rests.

When the keyboard is open, it will appear as shown below:



Note: the keyboard layout is not editable.

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 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.

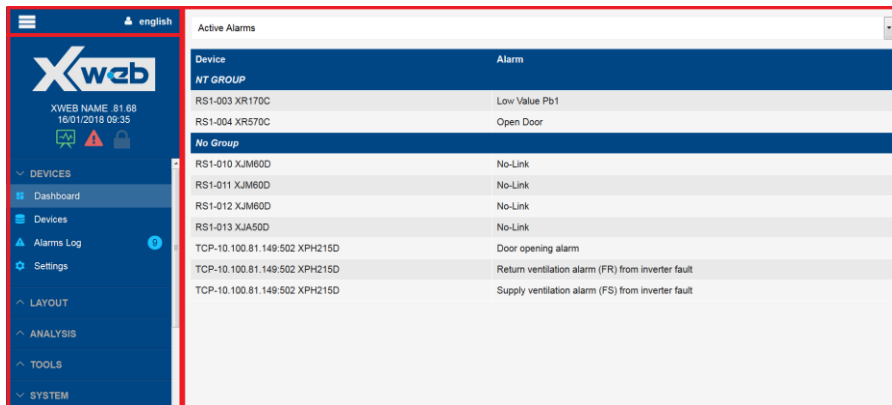


The icon indicates an alarm situation (e.g.: high temperature). It will be necessary to login with a valid username and password to be able to recognise the type of alarm and to analyse the system situation. The alarm icon does not automatically assume that the XWEB has activated the relay outputs (e.g.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



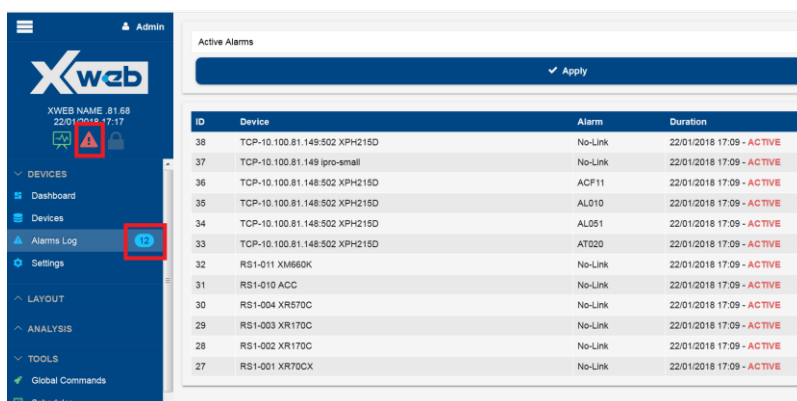
- Access status for non “admin” users;  /  = locked / unlocked

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. The start and stop acquisitions are fast but not instantaneous operations and the system during the transaction causes the icon to flash green (during startup) and yellow (during stop).

- Active alarms number



3.3.1 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.

3.3.2 INTERFACE WITH SYSTEM CONFIGURED

- DEVICES
- LAYOUT
- ANALYSIS
- TOOLS
- SYSTEM

3.3.2.1 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”

A screenshot of the 'Active Alarms' section in the Xweb interface. It shows a table with two columns: 'Device' and 'Alarm'. The table is divided into two groups: 'GROUP A' and 'GROUP B'. Under 'GROUP A', there is one entry: 'RS1-003 XR170C' with the alarm 'Low Value Pb1'. Under 'GROUP B', there is one entry: 'RS1-004 XR570C' with the alarm 'Open Door'.

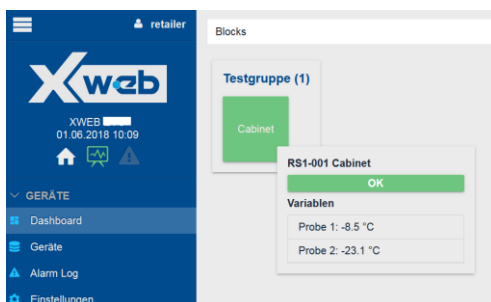
Device	Alarm
GROUP A	
RS1-003 XR170C	Low Value Pb1
GROUP B	
RS1-004 XR570C	Open Door

All active alarms detected by the tool network are listed

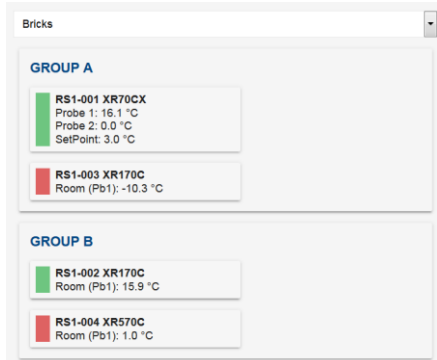
- “Blocks”



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.



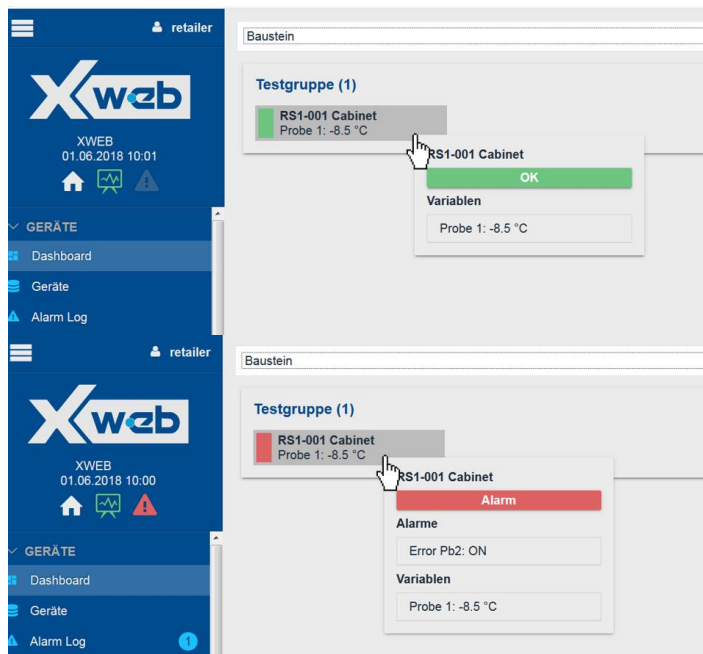
- “Bricks”



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.

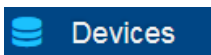


- “List”

Status	Address	Device
LT GROUP		
RS1-001	XR70CX	
RS1-002	XR170C	
NT GROUP		
RS1-003	XR170C	
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 chapters that follow.

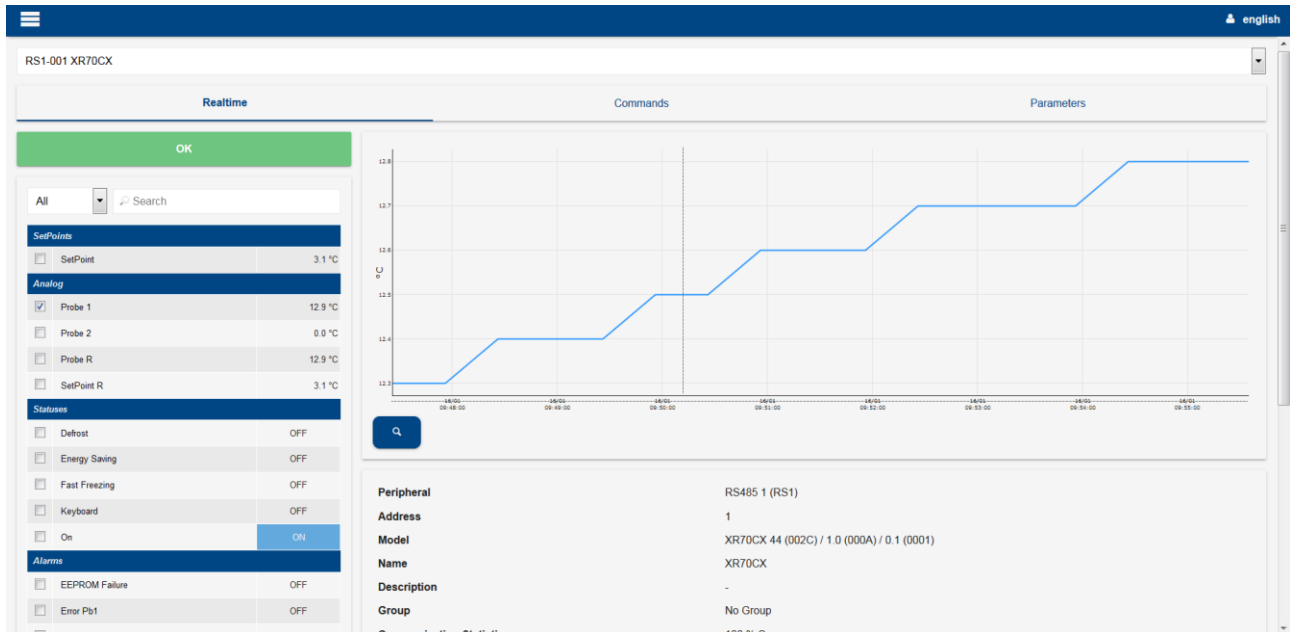
3.3.2.2 DEVICES



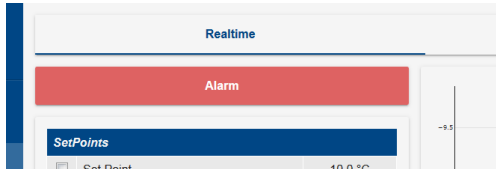
The Devices page is a panel for controlling the specific tool; the page is divided into sections.

3.3.2.2.1 REALTIME

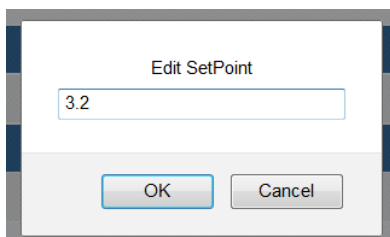
It shows, for the selected tool, the values of its variables updated in real time. And for the selected variables, it shows the chart of the trend of the last period.



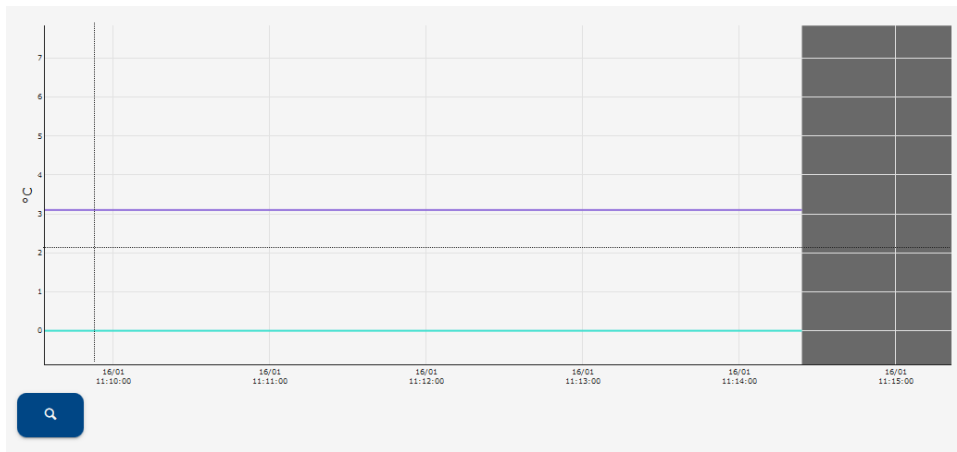
If the tool detects at least one alarm condition, it highlights it with a red bar.



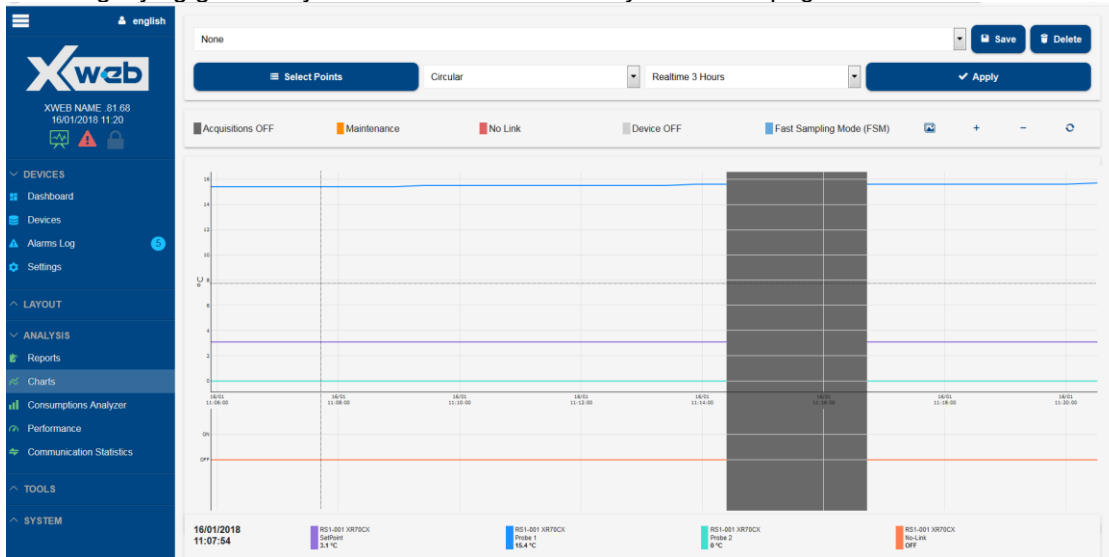
The setpoints are variables whose value can be set by the user; press on the area where the value is displayed to change it.



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



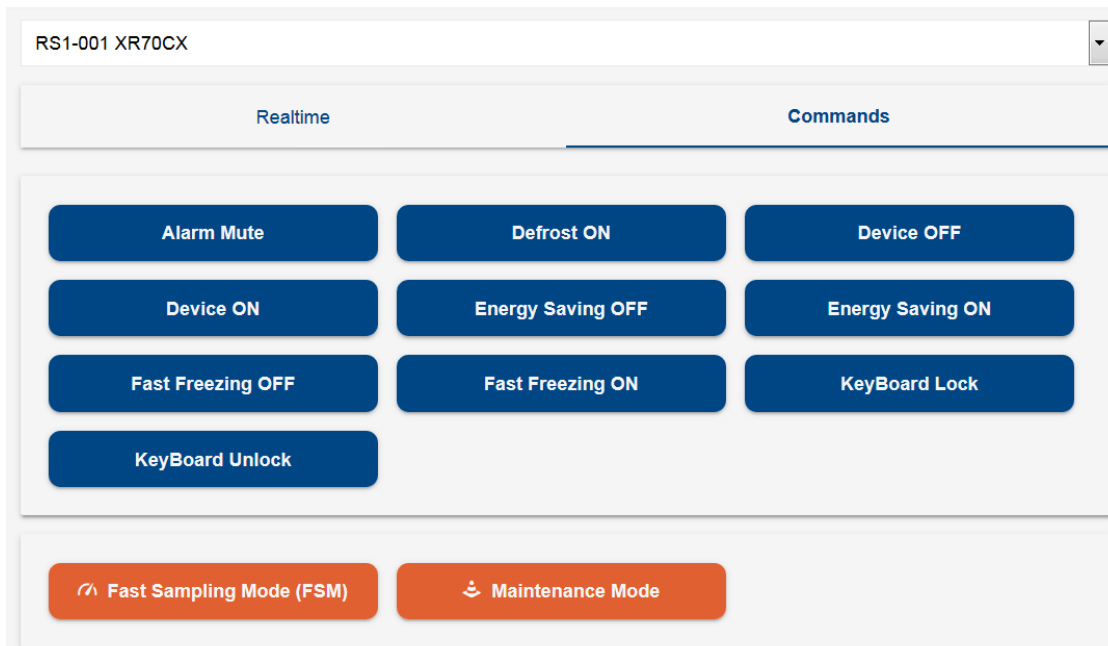
the “magnifying glass” key takes the user to the Analysis→Chart page to view the same data on full screen.



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

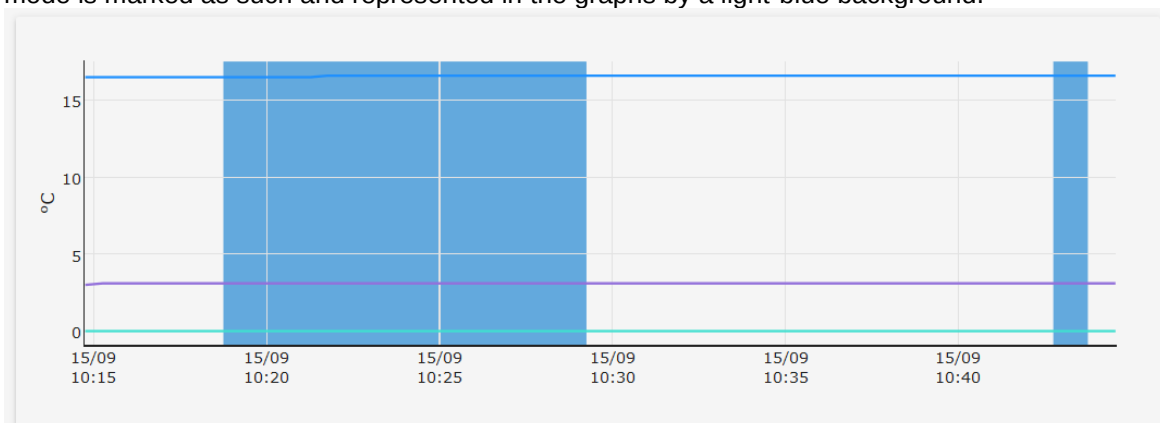
3.3.2.2COMMANDS



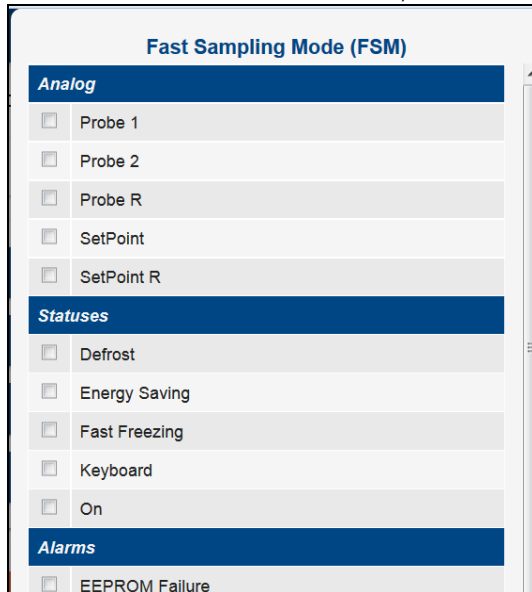
for the selected tool it shows, with blue keys, the available commands that can be sent to the device itself. The list of available commands depends on the type of tool.

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

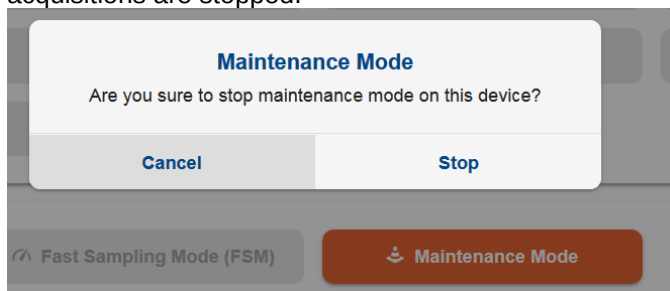


The image shows a configuration window titled "Fast Sampling Mode (FSM)". It contains three sections: "Analog", "Statuses", and "Alarms". Each section has a list of variables with checkboxes next to them.

Section	Variable	Checkbox
Analog	Probe 1	☐
	Probe 2	☐
	Probe R	☐
	SetPoint	☐
	SetPoint R	☐
Statuses	Defrost	☐
	Energy Saving	☐
	Fast Freezing	☐
	Keyboard	☐
	On	☐
Alarms	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.



The image shows a confirmation dialog box titled "Maintenance Mode". The text inside asks: "Are you sure to stop maintenance mode on this device?". There are two buttons: "Cancel" and "Stop". Below the dialog, there is a button labeled "Maintenance Mode" with a circular arrow icon, and a button labeled "Fast Sampling Mode (FSM)" with a checkmark icon.

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.

3.3.2.2.3PARAMETERS

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
0	SEt	Set point	-50.0	150.0	4	°C	Always	Reset
1	Hy	Differential	0.1	25.5	2	°C	Pr2	Reset
2	LS	Minimum set point	-55.0	4.0	-50	°C	Pr1	Reset
3	US	Maximum set point	4.0	150.0	150	°C	Pr1	Reset
7	AC	Anti-short cycle delay	0	50	0	min	Pr1	Reset
8	Con	Compressor ON time with faulty probe	0	255	180	min	Pr2	Reset
9	CoF	Compressor OFF time with faulty probe	0	255	9	min	Pr2	Reset
10	CH	Kind of action: heating cooling			Ht		Pr1	Reset
11	CF	Temperature measurement unit			C		Pr2	Reset
12	rES	Resolution			dE		Pr2	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
0	SEt	Set point	-50.0	150.0	4	°C	Always	Reset
2	LS	Minimum set point	-55.0	4.0	-50	°C	Pr1	Reset
3	US	Maximum set point	4.0	150.0	150	°C	Pr1	Reset
44	rSE	Real set point			0		Pr2	Reset

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

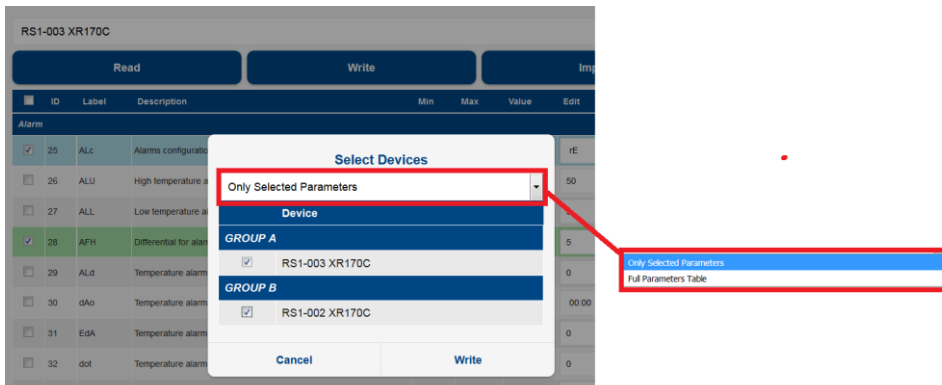
1. green, when the parameter value is correctly validated according to the tool rules and is ready to be written

27	ALL	Low temperature alarm	-50	-5	-50	-10	°C	Pr1	Pr1
----	-----	-----------------------	-----	----	-----	-----	----	-----	-----

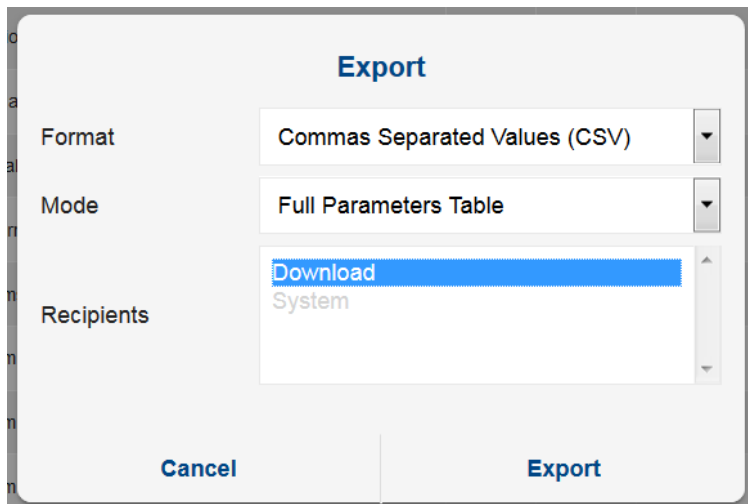
2. red, when the parameter value is in conflict with the tool rules. A single red parameter cannot allow the writing operation

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)

XR170C_RS1-003_20170915113857.csv - Excel												
File Home Insert Page Layout Formulas Data Review View Developer Tell me what you want to do												
Clipboard Font Alignment Number Conditional Formatting Table												
L12												
	A	B	C	D	E	F	G	H	I	J	K	L
1	Index	Description	Model	Label	value	Min	Max	Udm				
2	0	Differential	XR170C	Hy	10.1	0.1	25.5	Â°C				
3	1	Minimum set-point	XR170C	LS	-30.0	-50.0	10.0	Â°C				
4	2	Maximum set point	XR170C	US	15.0	10.0	150.0	Â°C				
5	3	Output delay at power on	XR170C	odS	1	0	255	min				
6	4	Anti-short cycle delay	XR170C	Ac	0	0	30	min				
7	5	Fast freezing duration	XR170C	cct	00:10							
8	6	Compressor ON with faulty probe	XR170C	con	15	0	255	min				
9	7	Compressor OFF with faulty probe	XR170C	coF	30	0	255	min				
10	8	Measuring unit	XR170C	cF	Â°C							
11	9	Resolution	XR170C	rES	de							
12	10	Local display	XR170C	Lod	P1							
13	11	Defrost type	XR170C	tdF	rE							
14	12	Defrost mode : RTC, interval, Smart-def	XR170C	EdF	Sd							
15	13	Set point for smart defrost	XR170C	SdF	0	-30	30	Â°C				
16	14	Defrost stop temperature 1st evaporator	XR170C	dtE	8.0	-50.0	150.0	Â°C				
17	15	Defrost interval	XR170C	idF	1	1	120	hour				

2) Portable Document Format (PDF)

XR170C_RS1-003_20170915114051.pdf - Adobe Acrobat Reader DC

Home Tools XR170C_RS1-003_2... 1 / 2 100% Sign In

Device Parameters

System name : XWEB 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)

XR170C_RS1-003_20170915114312.xls [Read-Only] [Compatibility Mode] - Excel

File Home Insert Page Layout Formulas Data Review View Developer Tell me what you want to do

Clipboard Font Alignment Number Styles

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	dtE	8.0	-50.0	150.0	°C
15	Defrost intervall	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 Search XR170C_RS1-003_20170915

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

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	
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 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.

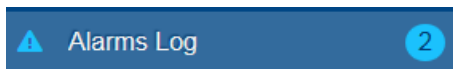
Regulation									
☐	0	Hy	Differential	0.1	25.5	10.1	°C	Pr2	Always
☐	1	LS	Minimum set-point	-50.0	3.0	-30	°C	Pr1	Always
☐	2	US	Maximum set point	3.0	150.0	15	°C	Pr2	Always
☐	3	odS	Output delay at power on	0	255	1	min	Pr2	Always
☐	4	Ac	Anti-short cycle delay	0	30	0	min	Pr1	Always
☐	5	cct	Fast freezing duration			00:10		Pr2	Always
☐	6	con	Compressor ON with faulty probe	0	255	15	min	Pr2	Always
☐	7	coF	Compressor OFF with faulty probe	0	255	30	min	Pr2	Always
☐	8	cF	Measuring unit			°C		Pr2	Always
☐	9	rES	Resolution			dE		Pr1	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									
☐	0	Ac	Anti-short cycle delay	0	30	0	min	Pr1	Always
☐	1	rES	Resolution			dE		Pr1	Always
☐	12	Set	Set point	-50.0	150.0	3	°C	Always	Always

3.3.2.3 ALARMS LOG



The “alarms” page displays the list of

1. active alarms

Active Alarms			
✓ Apply			
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.

Advanced Filter			
🔍 Advanced Filter			
✓ Apply			
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

ID = unique code for the alarm

DEVICE = device description

ALARM = alarm description

START = date of when the alarm was detected as such

END = date of when the alarm went off

DURATION = duration between Start and End

3.3.2.4 SETTINGS



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

3.3.2.4.1 DEVICES

Devices

Groups

Alarms

Preconfigurations

Select Device

Select Device

No Group

RS1-001 XR70CX

RS1-002 XR170Cxxxxxxxxxxxxxx

RS1-003 XR170C

RS1-004 XR570C

+ Add

- Delete

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

3.3.2.4.1.1 ADD

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

The options available are:

The screenshot shows the 'Add' dialog box with the 'Source' dropdown menu open. The 'Select' option is highlighted in blue. The 'Cancel' button is located at the bottom left of the dialog.

1. Library

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

[illegible]

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
 - XWEB300D allows managing 1 serial line that can address up to 247 devices.
 - XWEB500D allows managing 2 serial lines that can address up to 247 devices.
 - XWEB1000D allows managing 4 serial lines that can address up to 247 devices.
 - XWEB5000 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.

The 'Add' window shows the following configuration:

- Source: Automatic Search
- Protocol: Modbus 485 (dixell485)
- Peripheral: RS485 1 (RS1)
- Silence Check: ☒
- Starting Address: 1
- Final Address: 247

The 'Automatic Search' window shows a progress bar and the following status:

Address: 2 Devices: 1

The 'Automatic Search' results window shows a table with the following data:

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.

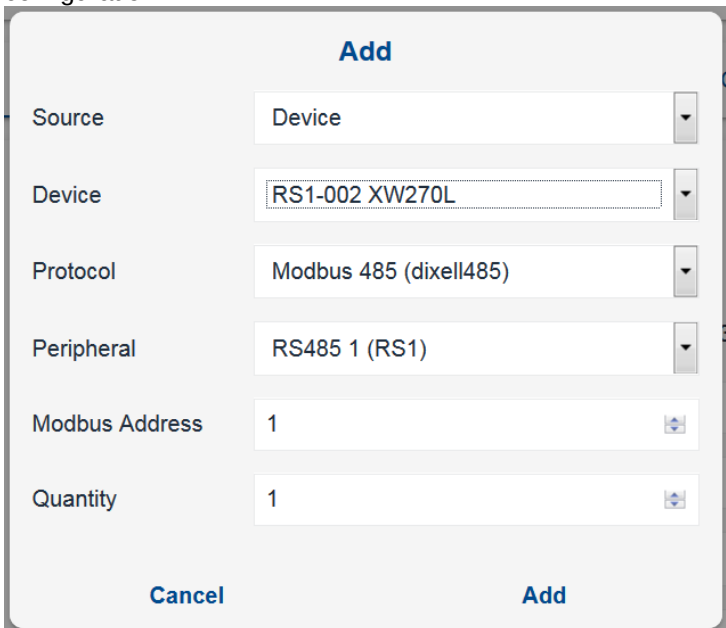
The 'Edit' window shows the configuration for 2 selected devices:

- Preconfiguration: Library
- Name: TEST
- Group: No Group

The 'Automatic Search' results window shows the same table as before, but with the rows for Address 2 and 4 highlighted in yellow, indicating they are the selected devices.

4. Device

To add a new device to the device configuration from an identical one, already present in the configuration.



The image shows a software dialog box titled "Add" in blue text at the top center. The dialog has a light gray background and rounded corners. It contains several configuration fields, each with a label on the left and a control on the right. The fields are: "Source" with a dropdown menu showing "Device"; "Device" with a text input field containing "RS1-002 XW270L" and a dropdown arrow; "Protocol" with a dropdown menu showing "Modbus 485 (dixell485)"; "Peripheral" with a dropdown menu showing "RS485 1 (RS1)"; "Modbus Address" with a text input field containing "1" and a small up/down arrow icon; and "Quantity" with a text input field containing "1" and a small up/down arrow icon. At the bottom of the dialog, there are two buttons: "Cancel" on the left and "Add" on the right, both in blue text.

Field	Value
Source	Device
Device	RS1-002 XW270L
Protocol	Modbus 485 (dixell485)
Peripheral	RS485 1 (RS1)
Modbus Address	1
Quantity	1

3.3.2.4.1.2 DELETE

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

Delete

☐	Address	Name
No Group		
☐	RS1-001	XR70CX
☐	RS1-002	XR170Cxxxxxxxxxxxxxx
☐	RS1-003	XR170C
☐	RS1-004	XR570C

Cancel

Delete

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.

3.3.2.4.1.3 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

General

Variables

Commands

Connection

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

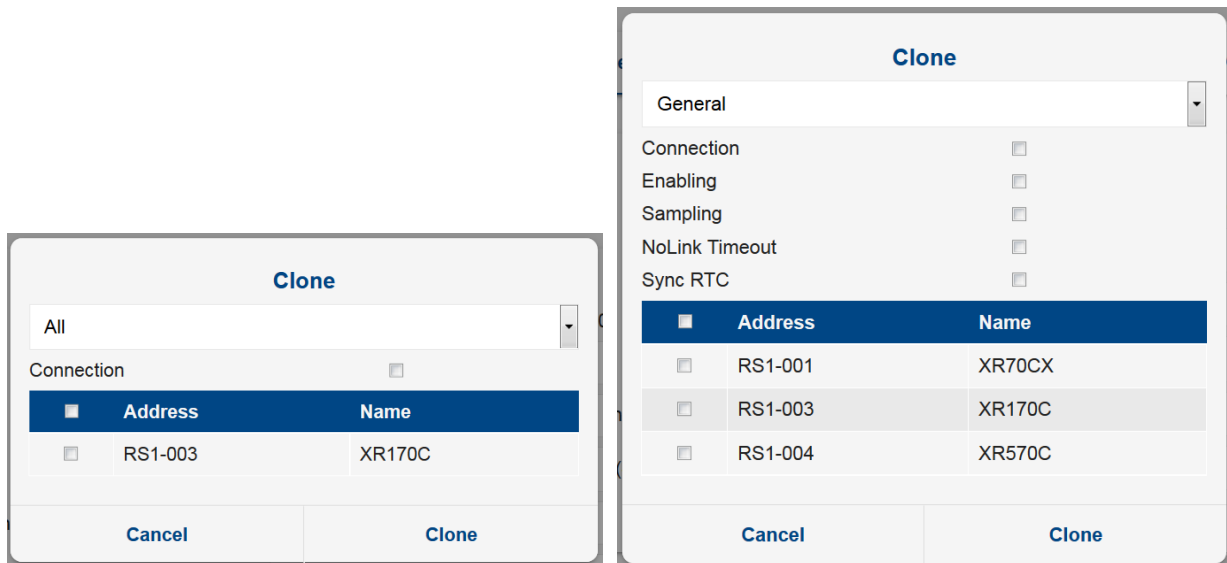
Clone

Export

Apply

3.3.2.4.1.3.1 CLONE

To clone the configuration parameters between tools.



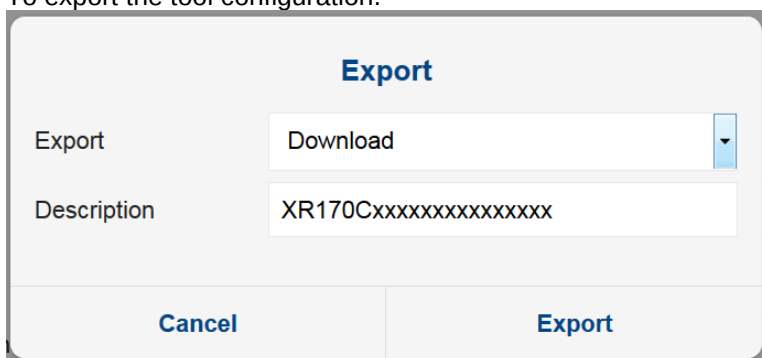
There are two possible options:

- "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.

3.3.2.4.1.3.2 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.

3.3.2.4.1.3.3 APPLY

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

3.3.2.4.1.3.4 GENERAL

General	
Peripheral	RS485 1 (RS1)
Address	1
Model	XR70CX 44 (002C) / 1.0 (000A) / 0.1 (0001)
Name	XR70CX
Description	
Enabling	Enabled, do not sample while OFF
Sampling (Seconds)	300
NoLink Timeout (Seconds)	200
Sync RTC	☐

- **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.

3.3.2.4.1.3.5 VARIABLES

Variables							
Search							
SetPoints							
Label	Label (en-GB)	Unit of Measure	Enabling	Record on Edge	Chart Default	Alarm Category	Alarm Notification
SetPoint	SetPoint	°C	☒		☐ ☒		☒
SetPoint-F	SetPoint-F	°F	☐		☐ ☒		☒
SetPoint-I	SetPoint-I	°C	☐		☐ ☒		☒
Analog							
Label	Label (en-GB)	Unit of Measure	Enabling	Record on Edge	Chart Default	Alarm Category	Alarm Notification
Probe 1	Probe 1	°C	☒		☒ ☐		☒
Probe 1-F	Probe 1-F	°F	☐		☐ ☒		☒
Probe 1-I	Probe 1-I	°C	☐		☐ ☒		☒
Probe 2	Probe 2	°C	☒		☐ ☒		☒
Probe 2-F	Probe 2-F	°F	☐		☐ ☒		☒
Probe 2-I	Probe 2-I	°C	☐		☐ ☒		☒

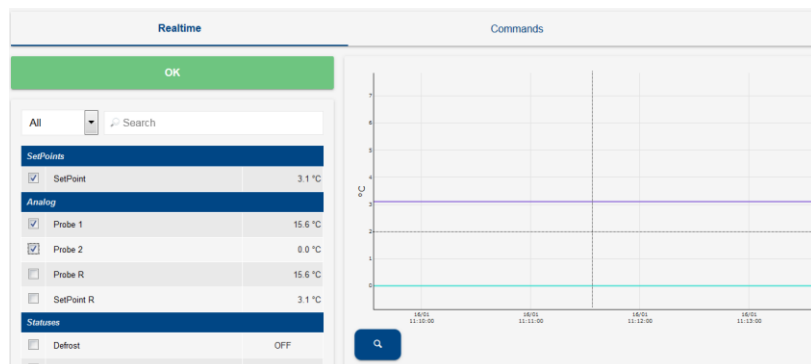
On this page the user can set the description (**Label** field) as variable, ie the string with which the variable appears in the other XWEB windows. The description string is in the original language and this allows customising the text for each language with which the system is accessed. For example, “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.

Devices

Alarms

Groups

Preconfigurations

Updates

+

-

RS1-001 XR70CX

Clone

Export

Apply

General

Variables

Commands

Connection

Only Enabled

Search

Edit

SetPoints

Label	Label (en-GB)	Unit of Measure	Enabling	Record on Edge	Chart Default	Alarm Category	Alarm Notification
☐ SetPoint	SetPoint	°C	☒	☐	☐		☒

Analog

Statuses

Alarms

Label	Label (en-GB)	Unit of Measure	Enabling	Record on Edge	Chart Default	Alarm Category	Alarm Notification
☐ EEPROM Failure	EEPROM Failure		☒	☐	☐	High Temperature	☒
☐ Error Pb1	Error Pb1		☒	☐	☐	Default	☒
☐ Error Pb2	Error Pb2		☒	☐	☐	Default	☒
☐ High Value Pb1	High Value Pb1		☒	☐	☐	Default	☒

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

3.3.2.4.1.3.6 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

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 ↕

3.3.2.4.1.3.7 COMMANDS

Commands		
🔍		
Label	Label (en-GB)	Enabling
Alarm Mute	Alarm Mute	☒
Aux OFF	Aux Off	☐
Aux ON	Aux On	☐
Active Defrost	Defrost ON	☒
Device OFF	Device OFF	☒
Device ON	Device ON	☒
Energy saving OFF	Energy Saving OFF	☒
Energy saving ON	Energy Saving ON	☒
Fast Freeze OFF	Fast Freezing OFF	☒
Fast Freeze ON	Fast Freezing ON	☒
Humidity Fan OFF	Humidity Fan OFF	☐

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.

3.3.2.4.2ALARMS

Devices

Alarms

Groups

Preconfigurations

Updates

+

Categories

Label	Delay	Accumulation on end	Levels
Default	0 Minutes	0 Minutes	

+

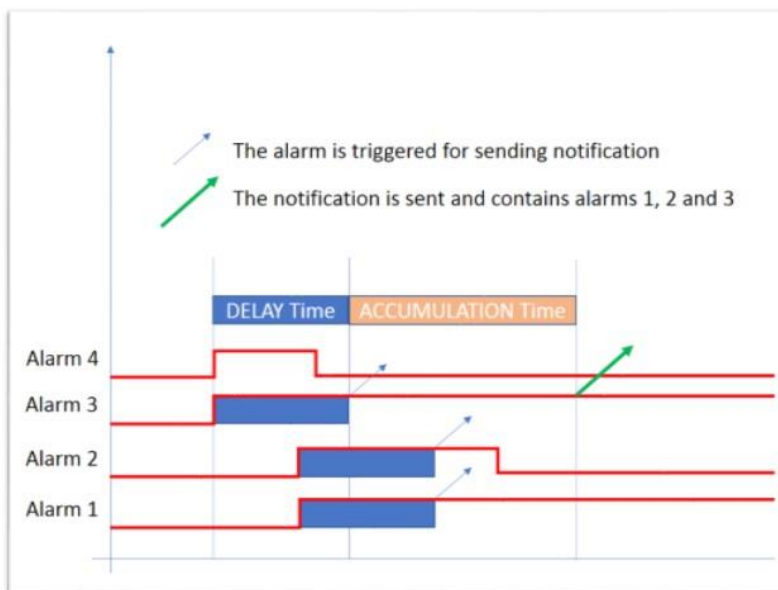
Levels

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.

3.3.2.4.2.1 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.

3.3.2.4.2.2 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 value "0", "Accumulation on end (Minutes)" with value "1", and "Level 1" with a dropdown menu showing "DEFAULT". Below these are four more "Level" entries (Level 2, Level 3, Level 4, Level 5), each with a dropdown menu showing "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 "

3.3.2.4.2.3 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 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
- **Contacts:**

list of the alarm notifications

Contacts

Service ▼

+ Add

+ Contact

Contact	
Email - Service	Delete
SMS - Service	Delete



HEADER - XWEB NAME .
81.68 XWEB DESCRIPTION . ☆
81.68 Posta in arrivo

XWEB NAME .81.68
a me
16:22 [Vedi dettagli](#)

Alarms status

Device	Model	Alarm name	Started	Ended	Term.
RS1-001 New_XR70CX	XR70CX	High Value Pb1	03/08/2017 16:22	ACTIVE	

RS1-001 New_XR70CX

Alarms									
EEPROM Failure: Off	Error Pb2: Off	Low Value Pb2: Off	Low Value Pb1: Off	Error Pb1: Off	Open Door: Off				
High Value Pb2: Off	High Value Pb1: On	No-Link: Off							
Set Points									
SetPoint: 3.00 °C									
Analogics									

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 system name|XWEB 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.

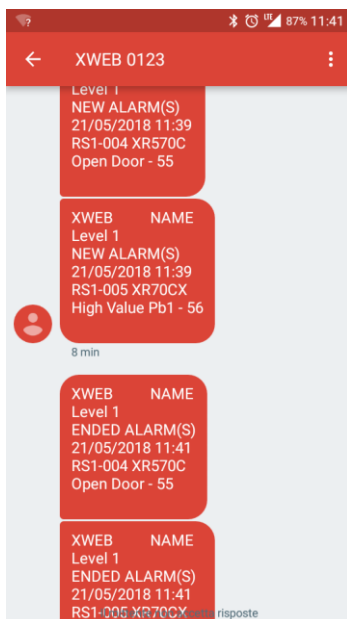
```
-----=_NextPart_001_00dbelc4.5236b6ac
Content-Type: text/plain
```

```
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

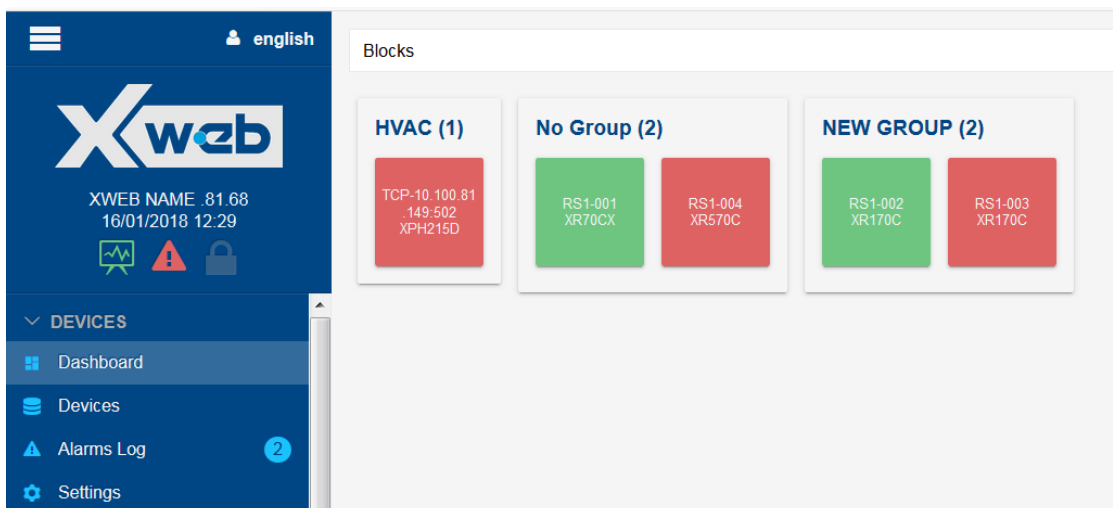


- **Email/FAX header:** customised text entered in the object
- **Calendar:** filter calendar on alarm notifications; the calendar identifies the period during which the notification messages will not be issued. The calendars are set from **TOOLS→CALENDAR**.

3.3.2.4.3 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.



3.3.2.4 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		  
XR570C / 16 / 2.0 / 0.4	16/01/2018 12:32:02	preconfi		  
XR70CX / 44 / 1.0 / 0.1	16/01/2018 12:31:38	xr70cx preconfiguration	High Temperature	  

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.

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		  
XR170C / 16 / 2.0 / 0.4	16/01/2018 12:39:43	XR170C		  
XR570C / 16 / 2.0 / 0.4				  
XR70CX / 44 / 1.0 / 0.1			High Temperature	  

Devices

	Address	Name
NEW GROUP		
☐	RS1-002	XR170C
☐	RS1-003	XR170C

Cancel Apply

3.3.2.4.5 UPDATES

Devices

Alarms

Groups

Preconfigurations

Updates

Check Updates

Update

Status	Address	Name	Model	Version	Library
HVAC					
	TCP-10.100.81.149:502	XPH215D	XPH215D / 71 / 3.0 / 3.0	-	-
NEW GROUP					
	RS1-002	XR170C	XR170C / 16 / 2.0 / 0.4	-	-
	RS1-003	XR170C	XR170C / 16 / 2.0 / 0.4	-	-
No Group					
	RS1-001	XR70CX	XR70CX / 44 / 1.0 / 0.1	-	-
	RS1-004	XR570C	XR570C / 16 / 2.0 / 0.4	-	-
	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.

3.3.2.4.6 HIGH FREQUENCY POLLING

Devices

High Frequency

Alarms

Groups

Preconfigurations

Updates

Enabled

Variables

10 Points Selected

Automatic

Save

In this section the variables that will be part of the fastest sampling variables in the polling cycle are configured. The speed of their sampling is decided by the 'Polling Mode' parameter which can assume the following values: i. 'Automatic' or ii. 'Timed'.

In the first case the speed is chosen by the xweb system; in the second case, however, the user is asked to set a desired sampling time; this time will be maintained over time after the start of the acquisitions. The time parameter must be validated so it is necessary that the entire instrument network is wired in such a way that xweb can do a communication 'test' before it can be made operational.

Polling Mode

Timed

Polling Time (Seconds)

1

Validate Polling Time

Save

The sampling time parameter can be set to a minimum of 1sec. The maximum number of variables that can be managed as 'high frequency' is 10.

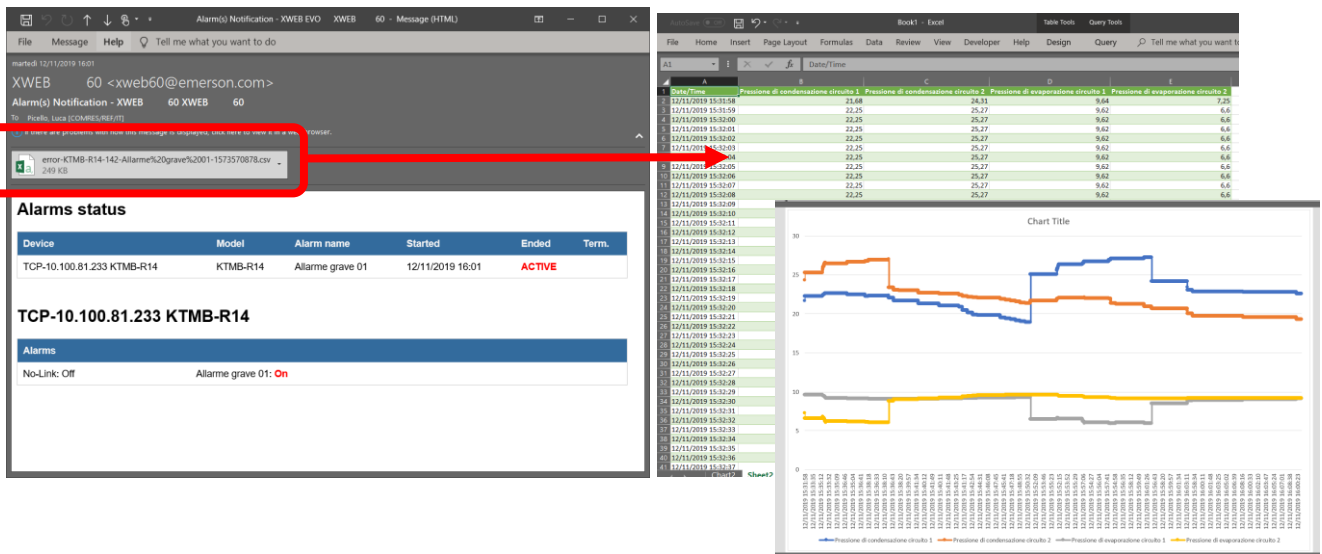
The total polling time, that is the refreshing time of the value of the lowest priority variables, is not bound and can be controlled with active acquisitions from the SYSTEM / INFO menu.

With active acquisitions, xweb will be able to sample and render a graph like the following where the greater frequency of some variables (reduced sampling times) is evident in the hatched area.



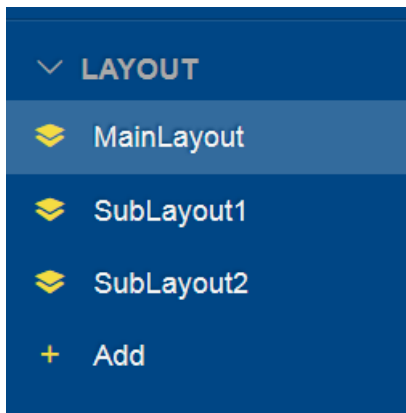
The storage of these values, and therefore their possibility of graphing, is limited in time according to the sampling speed and according to their quantity. This memory is also volatile ie it is lost if xweb is restarted.

In the event of an alarm, this memory can also be sent as data in text format (CSV) attached to the alarm notification email.



3.3.3 LAYOUT

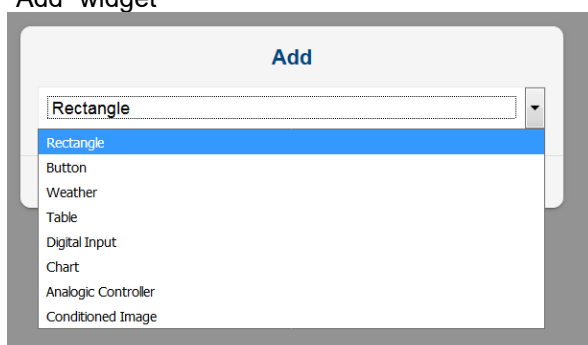
The Layout tool allows the creation of customised pages with graphic widgets. Each customised page takes the name of "layout" and the pages can be added to the system by pressing "Add".



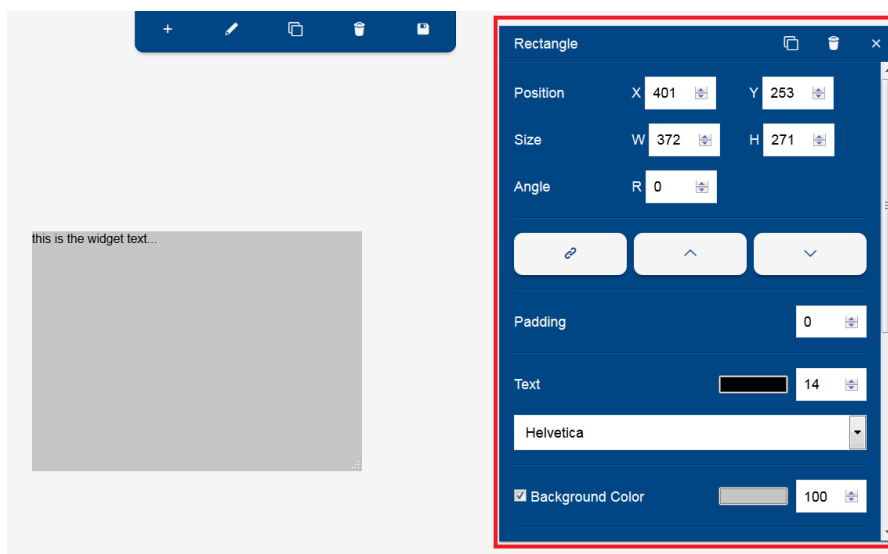
The user must then edit the page by pressing , which enables the user to perform the following operations:



a. "Add" widget

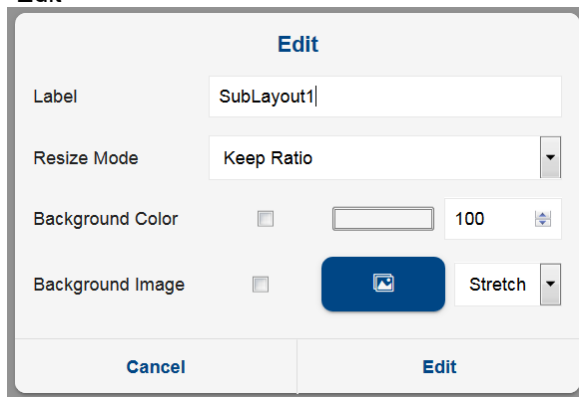


each selected widget shows a set of attributes on its palette that the user can define. The palette is a modal window and can be moved; the palette is only displayed during the layout modification procedure.



← 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 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)

Note: if you upload an image with the same name of an image already present in the system, the new image will overwrite the previous one (if upload is successful).

3.3.4 ANALYSIS

3.3.4.1 REPORTS



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

3.3.4.1.1 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.

Edit

Label

HACCP REPORT

Interval

Last 24 Hours

Layout

Standard

Header

HEADER

Footer

FOOTER

Variables

Select Points

Cancel

Edit

specify the fields:

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

HACCP printout	
XWEB	NAME .81.68 - HACCP printout page:1/2
HEADER	
date: 25.09.17 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 XR170Cxxxxxxxxxxxx	
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 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		1.00	1.00	1.00	1.00	1.00	1.00
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 XR170Cxxxxxxxxxxxx							
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 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, _S=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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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: Last 24 Hours

Recipients

Download: ☐

Print with local printer: ☐

Email:

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

Cancel Execute

3.3.4.1.2 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.

Edit

Label: FQR

Header: HEADER

Footer: FOOTER

Interval: Yesterday

Variables: Select Devices

Cancel Edit

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)

Select Devices

$\Delta T = \text{Probe} - \text{SetPoint}$

Error Low Temperature Warning Low Temperature SetPoint Warning High Temperature Error High Temperature

$\Delta T = 0$

Device	Probe	SetPoint	Post Defrost Time	Error Low Temperature	Warning Low Temperature	Warning High Temperature	Error High Temperature
No Group							
☒ RS1-001 XR70CX	Probe 1	SetPoint	90	- 0	- 0	+ 0	+ 0
☒ RS1-002 XR170Cxxxxxxxxxxxx	Room (P...	Set Point	90	- 0	- 0	+ 0	+ 0
☒ RS1-003 XR170C	Room (P...	Set Point	90	- 0	- 0	+ 0	+ 0
☒ RS1-004 XR570C	Room (P...	Set Point	90	- 0	- 0	+ 0	+ 0

Cancel Confirm

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.

FQR

Settings

Interval: Custom

Date: 2017-09-25

Recipients

Download: ☐

Print with local printer: ☐

Email: CN CN (CN)
DE DE (DE)
GR GR (GR)
alarm alarm (alarm)
mobile mobile (mobile)

Cancel Execute

the resulting FQR report will have the following format:

Food Quality Report - [REDACTED]

Date: 27-04-2017

Cold Error

Cold Warning

Hot Warning

Hot Error

...

12.3

Hot Error

Completely missing data

Partially missing data (AcqOff, Device Off, NoLink)

Defrost + Post Defrost

Food quality report - [REDACTED] - Yesterday

Adr.	Name	Uom	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00	Max	Min		
ZONE LT																														
RS1-041	Frozen Food 1	°C	-24	-24	-25	-24	-24	-24	-24	-24	-24	-23	-23	-23	-23	-23	-24	-24	-24	-24	-23	-23	-23	-23	-23	-23	-23	00:00 -20.8	06:10 -27.7	
RS1-042	Frozen Food 2	°C	-24	-24	-26	-25	-25	-25	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	-24	22:30 -15.2	03:45 -28.0	
RS1-043	Frozen Food 3	°C	-24	-24	-26	-24	-24	-24	-23	-24	-24	-24	-24	-23	-23	-23	-24	-24	-24	-24	-24	-23	-23	-23	-23	-24	-24	22:30 -18.2	03:45 -28.0	
ZONE NT																														
RS1-010	Milk 1	°C	-0.0	-0.9	1.4	0.4	0.9	0.6			0.5	0.1	0.1	-0.1	0.3	0.1				-0.1	-0.1	0.2	0.1	0.2	0.6		08:00 4.0	01:10 -4.2		
RS1-011	Milk 2	°C	1.2	1.2	1.1	1.9	1.9	1.1			0.6	0.1	0.6	0.2	1.0	0.6	0.8	0.8	0.6	0.5	0.5	1.0					08:25 4.0	22:05 -3.5		
RS1-012	Milk 3	°C	-1.5	0.6	-0.3	-0.1	-0.6			-0.5	-0.4	-0.5	-0.3	-0.4	-0.2		-1.2	-0.5	-0.8	-0.6	-0.6	0.4				-0.5	09:30 2.5	03:35 -4.5		
RS1-013	Milk 4	°C	0.6	0.8	-0.5	0.7	0.8	0.5	0.5	0.7	0.4	0.4	0.3	0.7			0.6	0.6	0.6	0.3	0.4	0.6				0.4	14:20 13.1	04:10 -3.7		
RS1-014	FVP	°C		1.1	1.4	0.8	0.8	0.9	0.9	1.1			1.5	1.1	1.1	1.0	1.0	1.1		1.3	1.1	0.8	1.0	1.4	0.7	1.0	09:30 3.6	04:05 -0.2		
RS1-015	Salat	°C	3.0	2.7	3.1	2.5	2.8	2.4	3.0			2.8	3.0	2.5	2.8	2.7	3.1	2.8		2.9	3.0	2.7	3.0	3.1	2.5	3.0		08:55 6.2	05:00 -0.3	
RS1-016	Pastry	°C	3.5	3.2	3.1	3.2	3.5	3.1	3.9			3.4	3.1	3.7	3.2	2.8	3.5	3.4		3.0	3.6	2.5	3.0	3.7	3.6	3.3		00:40 5.4	00:00 0.6	
RS1-017	Gastronomy 1	°C	5.0	5.0	3.5	5.0	5.0	5.0			4.6	4.8	4.9	4.9	4.7	4.7	4.7		4.7	4.7	4.7	4.8	5.0	4.9	4.9		4.8	00:00 6.9	07:35 2.5	
RS1-018	Gastronomy 2	°C	2.8	3.0	1.1	3.4	3.3	3.2			1.3	1.7	1.8	1.5	1.2	1.1	1.1		1.1	1.4	1.4	1.9	1.9	1.9	1.8		2.2	03:45 5.7	12:35 -2.4	
RS1-020	Take Away 1	°C	0.7	-0.3	0.7	-0.5	-0.5				0.0	-0.1	0.0	-0.3	-0.1					0.1	0.1	0.4	0.0	-0.3	0.1			11:50 2.2	00:00 4.4	
RS1-021	Take Away 2	°C	-0.3	0.5	-0.0	-0.8	-0.2				-0.4	-0.1	0.1	0.1	0.1	-0.3				0.1	0.1	-0.1	-0.2	-0.1	0.4			12:35 2.2	00:40 4.4	
RS1-024	Meat	°C	1.0	0.6	0.8	1.2	1.2	1.1			1.5	1.5	1.4	1.6	1.4	1.2				1.7	1.4	1.6	1.6	1.2	1.1			09:35 9.2	05:40 -1.0	
RS1-025	Meat 1, Away 1	°C	-1.2	-0.8	0.6	0.6	-1.1	-0.5	-1.5	-1.0			-1.5	-0.7	-1.3	-1.8				-1.1	-1.6	-1.8	-1.1	-1.2		-1.4		09:40 0.7	23:50 -6.2	
RS1-026	Meat 1, Away 2	°C	-3.0	-2.0			-2.5	-1.4	-3.9			0.5	-3.4	-1.3	-2.5	-1.1			-0.9	-2.1	-1.9	-0.4	-3.3	-3.8		-2.3		09:40 0.2	00:00 -7.4	
RS1-060	Meat 2	°C		1.9	0.8	1.4	1.5	1.1	1.6	1.1			1.5	1.4	1.4	1.4	1.7	1.5	1.1		1.6	1.3	1.6	1.7	1.0	1.3	1.5	01:05 3.2	00:00 -0.7	
CELLS																														
RS1-027	Fish Cell	°C		1.0		1.2	1.0	1.1	1.2	1.6			1.3	1.2	1.3	1.3	0.8			1.1	1.2	1.6	1.0	1.1	1.2			07:45 5.6	17:20 -0.3	
RS1-028	Vegetables Cell	°C		7.9	6.9	7.3	6.8	7.3	6.8	7.0				14	8.1	6.9	7.0	7.0			7.1	6.4	7.0	7.5	7.0	6.9			11:55 15.7	08:25 5.5
RS1-029	Poultry Cell	°C		0.6	0.1	-0.3	0.6	0.6	0.7			1.5	1.1	1.2	1.6	1.5	0.9					0.3	0.8	1.0	1.3	1.0	0.6		06:20 11.1	00:45 -1.0
RS1-030	Meat Cell	°C		0.8	1.2	0.6	0.7	1.0			2.6	1.3	0.5	1.1	0.9		2.4	1.1	0.7	1.0	0.8		2.6		5.9	0.5	1.3	0.9	12:10 12.7	14:10 -1.0
RS1-031	Frozen Food Cell	°C	-20	-20	-21	-20	-20	-19			-36	-19			-20	-20	-17	-20	-20		-1.8	-19	-19	-19	-20	-20	-21		14:35 8.8	03:25 -22.2
RACKS																														
RS1-060	RACK NT	°C	-16	-14	-15	-14	-15	-16	-14	-15	-15	-14	-15	-14	-15	-16	-14	-16	-14	-14	-14	-15	-15	-16	-15	-15	-15	18:25 -8.0	15:20 -19.4	
RS1-061	RACK LT	°C	-31	-30	-34	-32	-33	-32	-30	-31	-32	-30	-30	-30	-30	-30	-30	-30	-31	-32	-31	-30	-30	-30	-30	-30	-30	22:30 -19.4	06:35 -40.4	

Printed by XWEB EVO

Generated on: 03-05-2017 15:39

1 / 2

the report consists of a table in which the temperatures of the day are listed for each device.

The cells containing the temperature values can assume different colours in cases where the same temperature is higher/lower than the setpoint value, considering the error or alarm thresholds. The temperature values are omitted in case of defrost and/or missing data. The minimum and maximum temperature values, and when this was detected, are indicated for each device.

3.3.4.1.3 DATA REPORTS

- The “+ Data Report” key is used to add a Data-report configuration to the list.

The image shows two side-by-side 'Edit' windows for configuring a data report. Both windows have a 'Label' field with the value 'report'. The left window has a 'Source' dropdown set to 'Main', an 'Interval' dropdown set to 'Last 24 Hours', and a 'Sampling (Seconds)' field set to '2'. The right window has a 'Source' dropdown set to 'Circular', a 'Sampling (Seconds)' field set to '2', and both windows show a 'Variables' section with a blue button labeled '2 Points Selected'. At the bottom of each window are 'Cancel' and 'Edit' buttons.

specify the fields:

- Label: report name
- Source: circular data or main data; the former can provide high sampling data but limited in time compared to the last league data; the main ones can provide all data in xweb at most with the sampling resolution as configured in devices in devices / settings / devices / <device> / general / sampling.
- Interval (main only): interval on which to perform data extraction from XWEB historians (available options: Today, Yesterday, Last 24 hours, Last 48 hours, Last week, Last month)
- Sampling: minimum interval filter between samples. The value 0 indicates the export of all the samples stored for the interval.
- Variables: the “Select Points” key accesses the window used to indicate the list of variables with which to create the report. clicking on the tool name explodes the list of variables for the selected tool.

The 'Select Points' window displays a list of variables organized into groups. The groups are: 'No Group' (with a checkbox for 'RS1-001 XR70CX'), 'Analog' (with checkboxes for 'Probe 1', 'Probe 2', 'Probe 3', 'Probe R', and 'SetPoint R'), 'SetPoints' (with a checkbox for 'SetPoint'), 'Statuses' (with checkboxes for 'Defrost', 'Energy Saving', 'Fast Freezing', 'Keyboard', and 'On'), and 'Alarms' (which is currently empty). A vertical scrollbar is visible on the right side of the list.

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).

DATA REPORT

Settings

Format: Microsoft Excel (XLSX)

Recipients

Output: Download

Cancel Execute

XLSX example

	A	B	C	D	E	F
	Date/Time	Probe 1 °C	No-Link	Probe 2 °C	Generic Digital Input	Alarm
1						
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

3.3.4.2 CHARTS

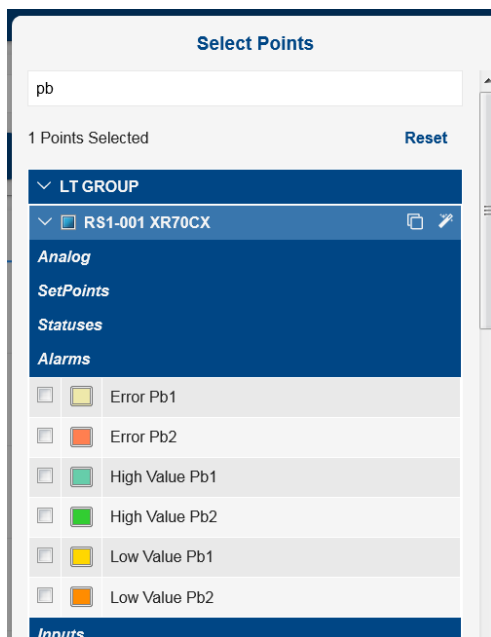


In this page you can benefit from the charting, and its configuration, of the values in XWEB memory.

- configuration**

the configuration parameters for a chart are:

- type of database source:** the options available are:
 - Circular:** these archives provide the most frequent recordings; but are limited in the period. For the XWEB5000 models the archive covers a maximum of two days while for the XWEB300/500 models the last six hours are covered.
 - Main:** to chart data stored before the limit of the circulars.
- period:** period to charge, the available options are:
 - Last ... : indicates that once charting is performed, the chart is no longer updated.
 - 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

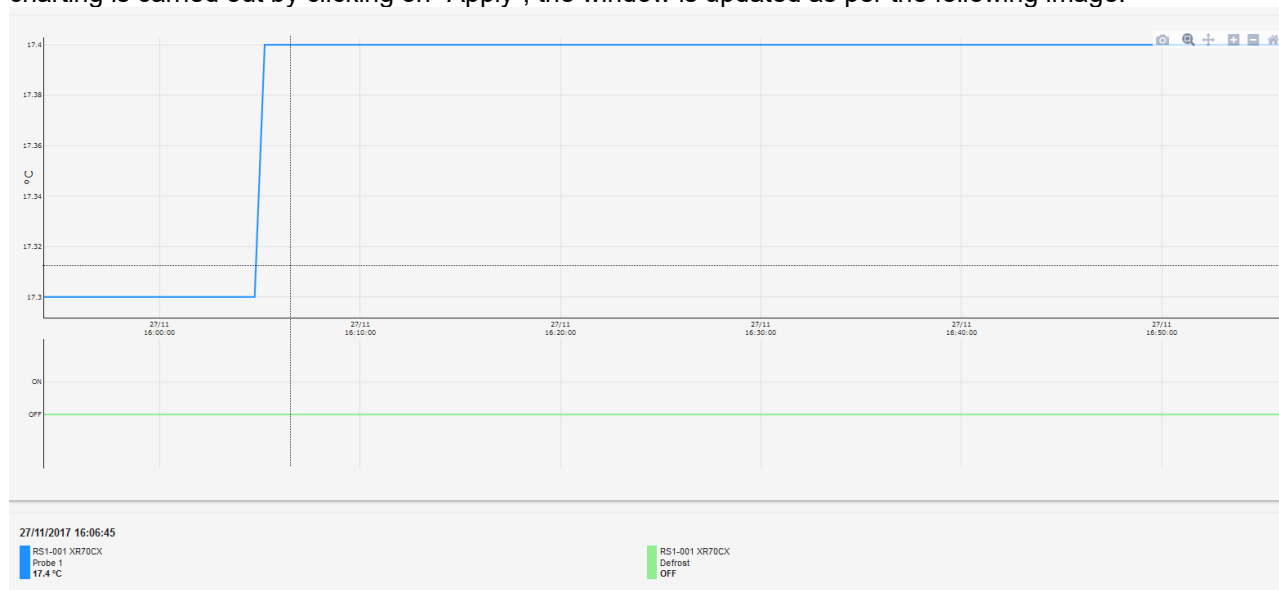


it is possible to select only the variables configured in

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

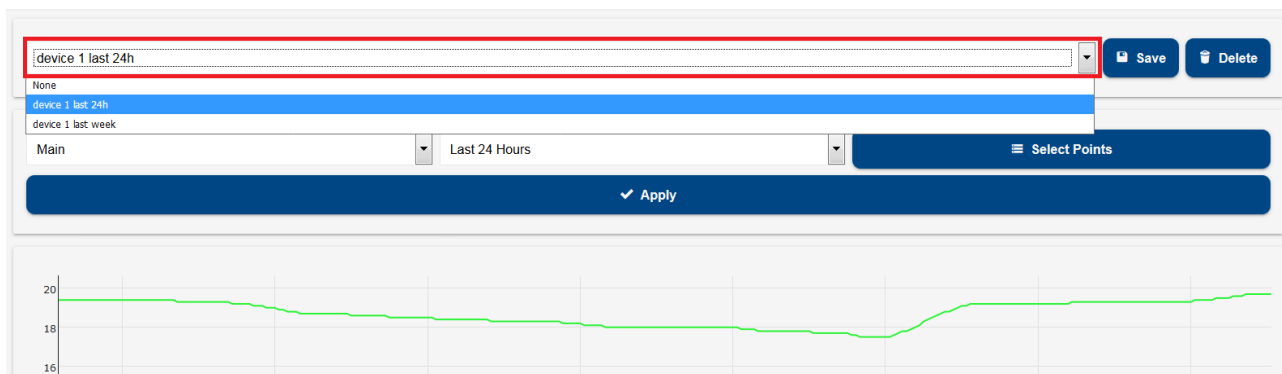


charting is carried out by clicking on “Apply”; the window is updated as per the following image:



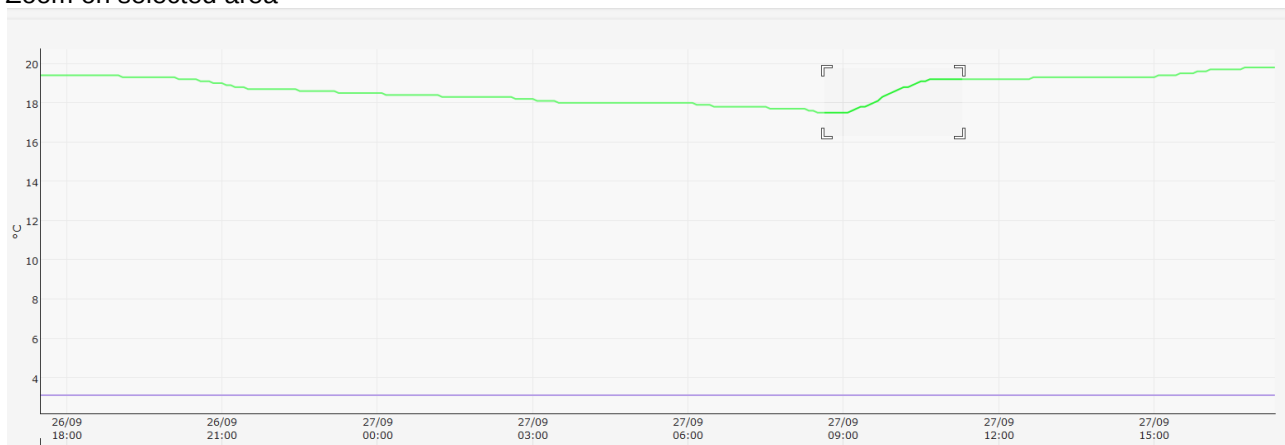
The mouse cursor position on the chart area shows, in the key at the bottom, the values with their tool and time references

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).

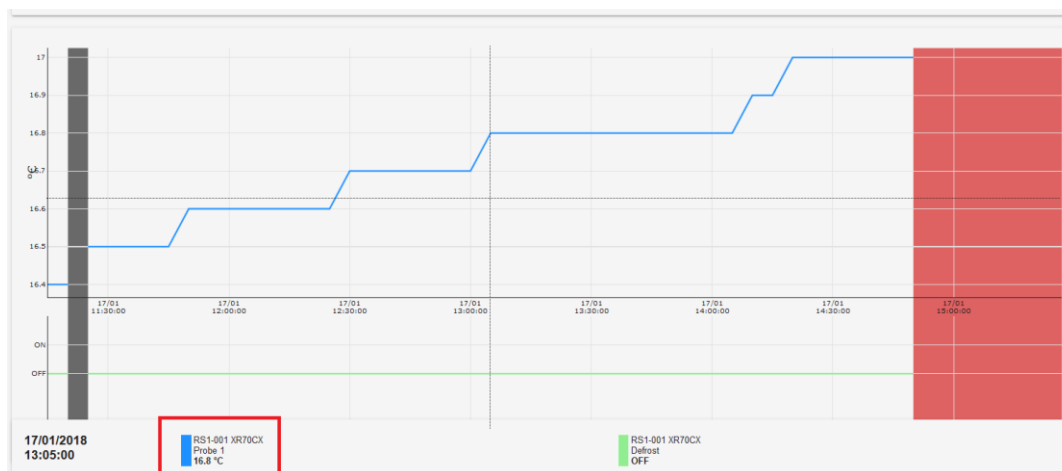
the charge immediately updates, rendering the selected area full-screen.

2. Download PNG (icon)
downloads a chart image

3. Zoom (icons and)
zooms the chart

4. Reset (icon)
Rescale the chart

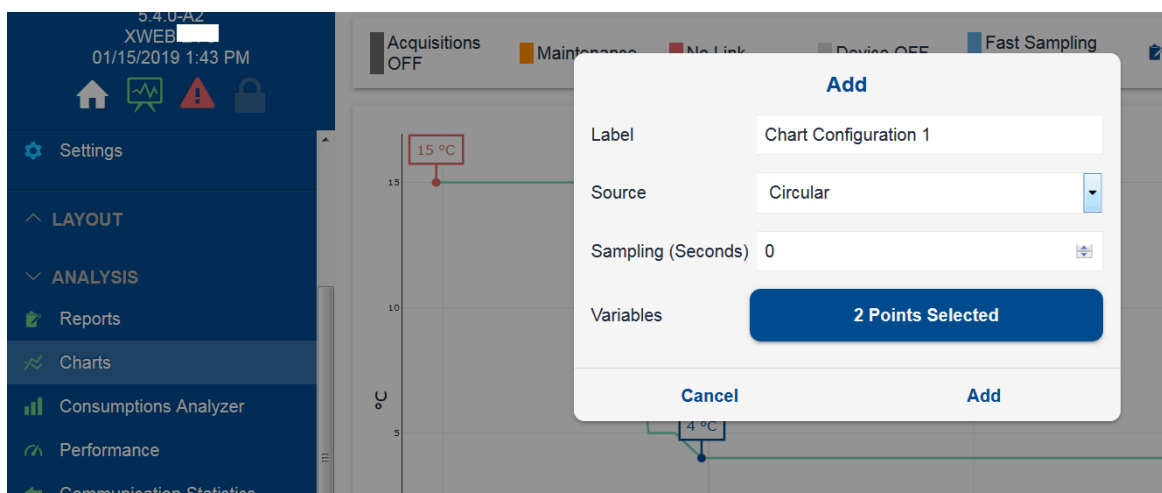
5. Hide / enable display of individual variable
By clicking on the variable on the bar below, it is hidden and/or re-enabled for display on the chart.



6. Hide / enable Min / Max display (icon )

7. Save Cfg on Data Reports (icon )

Adds the configuration of the graph currently displayed on the list of configurations from which it is possible to generate the "data report" (Analisi→Rapporti→Rapporti Dati).



ID	Label			
44be7e	test3	Edit	Delete	Ex
4f646f	test3	Edit	Delete	Ex
1233dd	Chart Configuration 1	Edit	Delete	Ex

3.3.4.3 CONSUMPTION ANALYZER



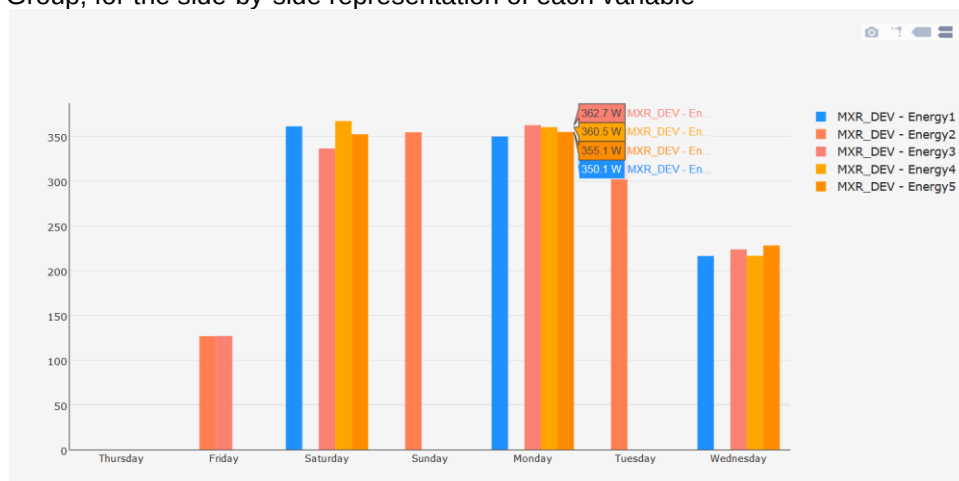
By configuring one of the supported devices in the product, it becomes possible to access the “Consumptions Analyzer” menu

The following are supported:

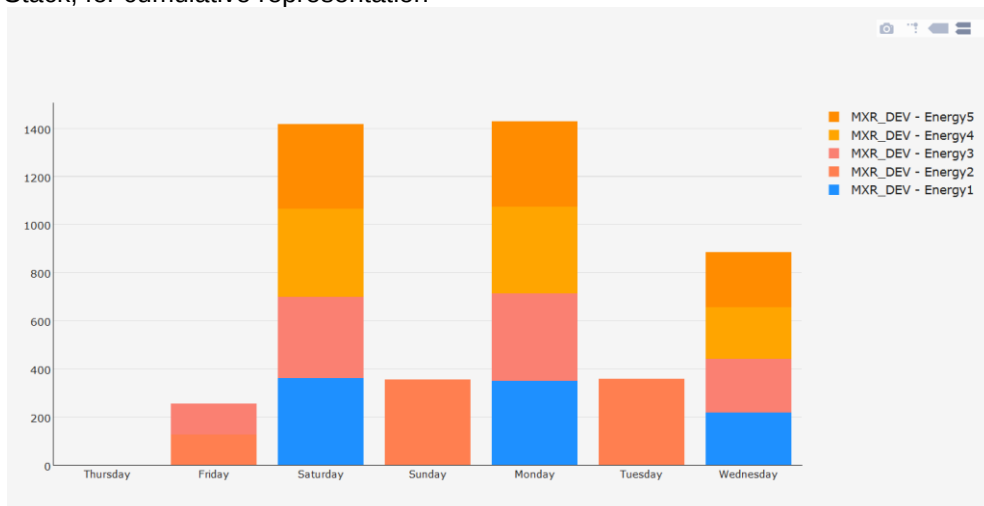
Trade name	Library name
Carlo Gavazzi EM21	EM21
Carlo Gavazzi EM23	EM23
Carlo Gavazzi EM24	EM24
Carlo Gavazzi EM26	EM26
Carlo Gavazzi EM100	EM100
Carlo Gavazzi EM210	EM210
Carlo Gavazzi EM271	EM271
Carlo Gavazzi VM14	WM14
Carlo Gavazzi VM22	WM22
ERVATECH E-93	E93
Emerson Energy Meter	EEM

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

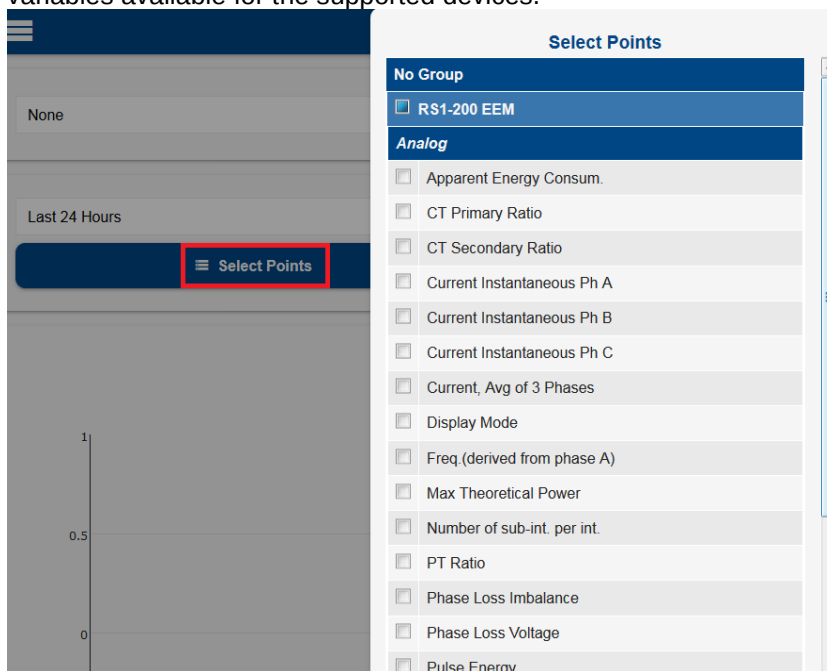
- **display period**; the following options are available:
 - a. Last 24 hours
 - b. Last 7 days
 - c. Last 4 weeks
 - d. Last 12 months
 - e. Last 3 years
 - f. Custom; to set a period from/to
- **grouping** (for multiple variables); the following options are available:
 - a. Group; for the side-by-side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

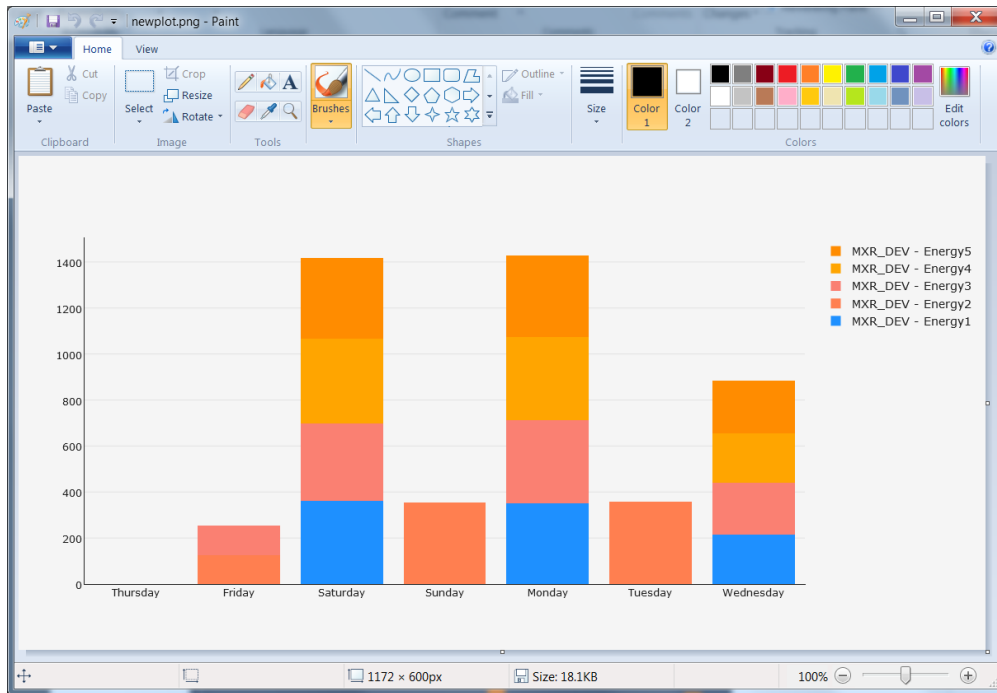


- b. automatic variable selection; by pressing “Automatic Configuration” all variables involving accumulation are selected for the supported consumption analysers.

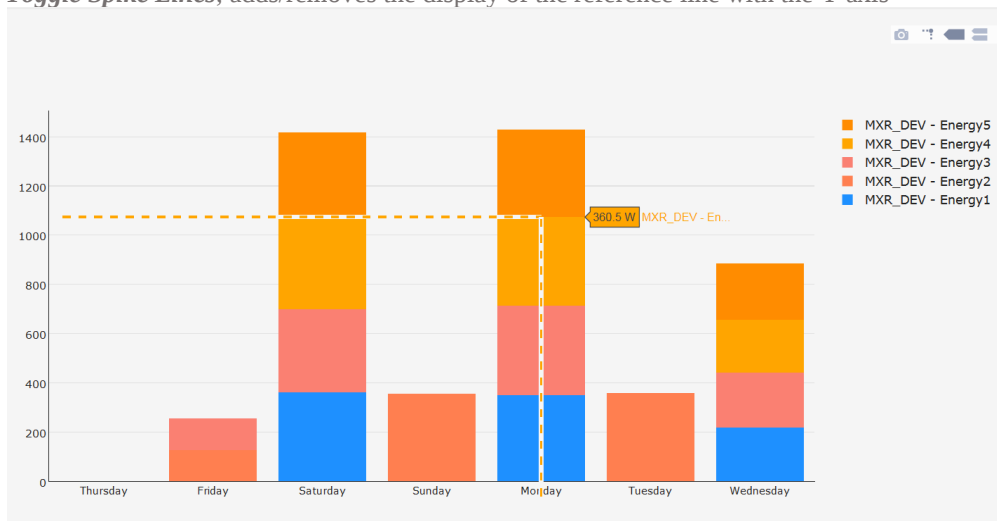
Once the chart is displayed, the user can perform the following actions on the chart bar:



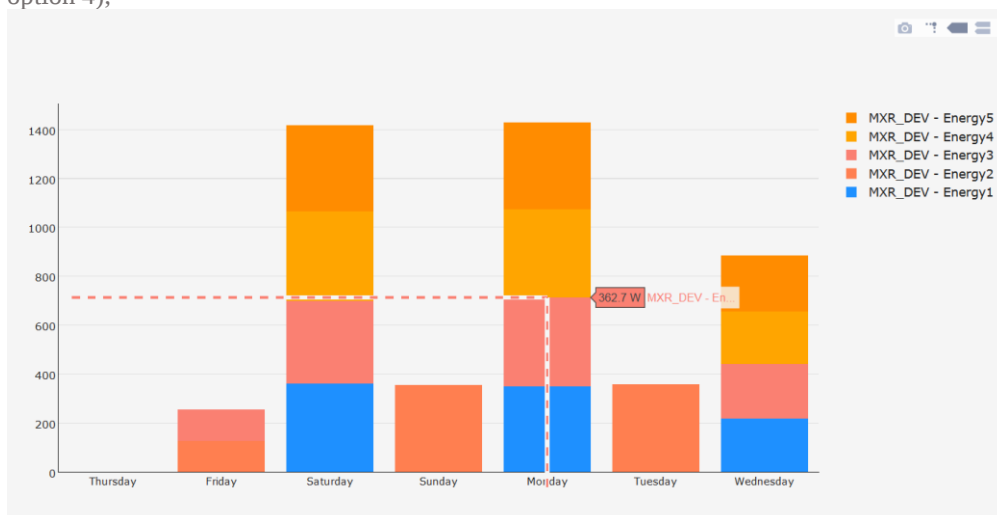
1. **Download plot as PNG**; downloads the chart as file on the browser



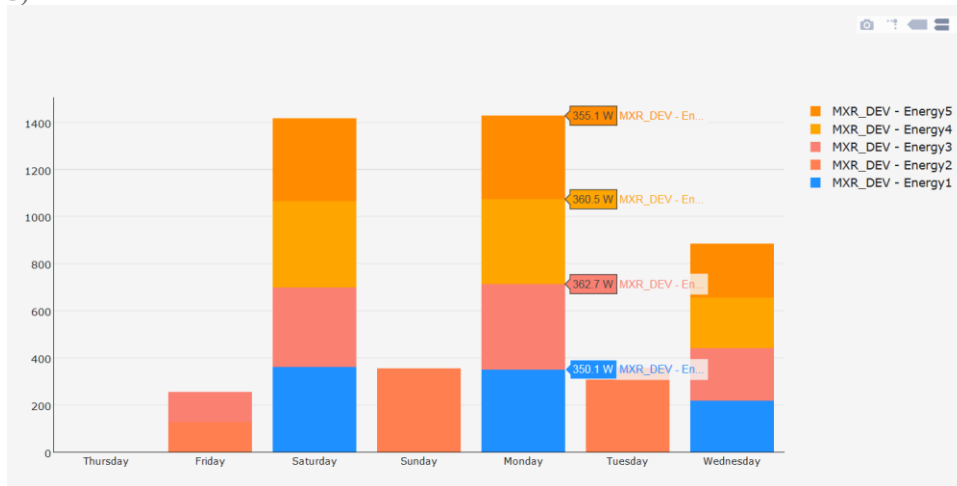
2. **Toggle Spike Lines**; adds/removes the display of the reference line with the Y axis



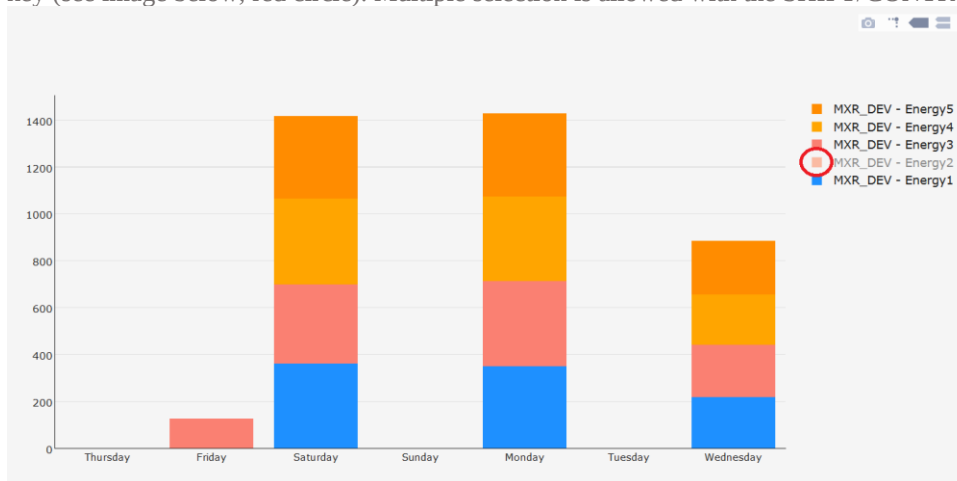
3. **Show closest data on hover**; displays only the data of the bar selected by the mouse; (mutually exclusive with option 4);



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



3.3.4.4 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.

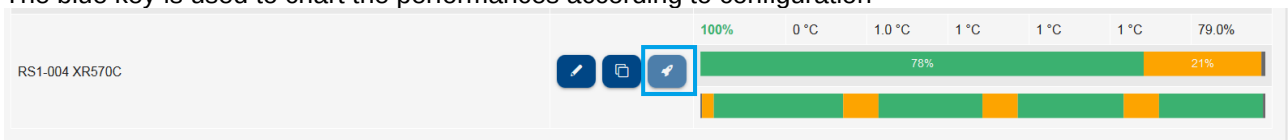
By tool, the configuration can be changed by pressing on the key highlighted in red.

The screenshot shows the Performance configuration interface. At the top, there are two date ranges: 2017-09-26T14:29 and 2017-09-27T14:29, with buttons for 'Export' and 'Execute'. Below is a table with columns: Device, Performance, SetPoint, Average, Min, Max, Defrost Time, and Cooling. The table lists several devices, including RS1-001 XR70CX, RS1-002 XR170Cxxxxxxxxxxxxxx, RS1-003 XR170C, and RS1-004 XR570C. A configuration modal for RS1-004 XR570C is open, showing fields for Probe (Room (Pb1)), SetPoint (Set Point), Min (-10), Max (10), and Post Defrost Time (Minutes) (90). Below the table, a red box highlights a pencil icon with the text 'click' underneath it.

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

The screenshot shows the Performance configuration interface with a 'Clone' modal open. The modal has a title 'Clone' and a list of devices to clone from. The first device is 'Device' with a checkbox. The second device is 'No Group' with a checkbox. The third device is 'RS1-002 XR170Cxxxxxxxxxxxxxx' with a checkbox. The modal has 'Cancel' and 'Clone' buttons. Below the table, a green box highlights a copy icon.

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



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

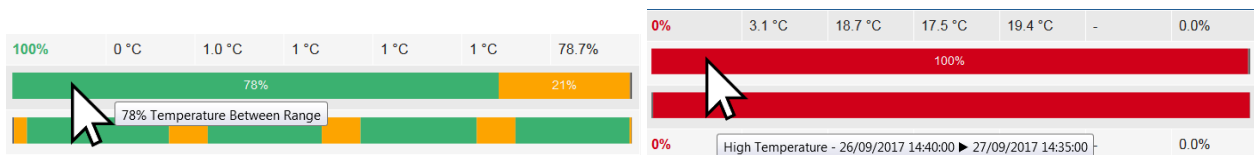
cold call. The calculation formula is:
$$\%Cool = \frac{T_{COOL}}{T - T_{DEFROST}} \cdot 100$$

T_{COOL} = total cold call time

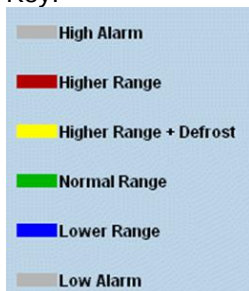
T = observation period

$T_{DEFROST}$ = 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.



3.3.4.5 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 XR170Cxxxxxxxxxxxxxx	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' window. At the top, there are three buttons: 'Refresh', 'Reset', and 'Test'. The 'Test' button is highlighted with a red box. Below the buttons is a table with columns: Device, Success, Timeout, Exception, CRC Error, Overrun, and Unknown. The table lists several devices, including RS1-001 XR70CX, RS1-002 XR170Cxxxxxxxxxxxxxx, RS1-003 XR170C, RS1-004 XR570C, RS1-100 AHU, and RS1-200 EEM. The 'Exception' column for RS1-004 XR570C is highlighted with a red box, showing 13.64%. A modal dialog titled 'Test' is open in the foreground. It has a 'Device' dropdown menu with 'RS1-001 XR70CX' selected and a 'Cycles' input field with the value '10'. There are 'Cancel' and 'Test' buttons at the bottom of the dialog.

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
Success Timeout Exception CRC Error Overrun Unknown						
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						

3.3.5 TOOLS

3.3.5.1 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.

+ Global Commands		
ID	Label	
dd8b6c	My New Global Command	Edit Delete Execute
9319d4	another glb command	Edit Delete Execute

“+” 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

Select

Cancel

Add

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

Select Commands

No Group

RS1-001 XR70CX

☒ Alarm Mute
☐ Defrost ON
☐ Device OFF
☐ Device ON
☐ Energy Saving OFF
☐ Energy Saving ON
☐ Fast Freezing OFF
☐ Fast Freezing ON
☐ KeyBoard Lock
☐ KeyBoard Unlock

RS1-002 XR170Cxxxxxxxxxxxxxx

RS1-003 XR170C

RS1-004 XR570C

Cancel

Confirm

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

+ Global Commands

ID	Label	
dd8b6c	My New Global Command	Edit Delete Execute
9319d4	another glb command	Edit Delete Execute

My New Global Command

RS1-001 XR70CX - Alarm Mute: OK

OK

3.3.5.2 CONTACTS



In this page you configure the contacts that can receive notifications from xweb; such as alarm notifications or scheduler notifications.

+ Add Import Export		
Search		
Label	Email	SMS
B		
backupservice	backupservice@emerson.com	+123456788900
S		
service	mynameisservice@emerson.com	+39123456789

Contacts can be added manually from the web interface with the "Add" button. Each contact defines an email address and / or a telephone number for SMS.

Label

backupservice

Email

backupservice@emerson.com

SMS

+123456788900

Cancel

Delete

Edit

Contacts can also be imported using VCF or VCARD files typically used in the application of contacts such as MS OUTLOOK. Exported in VCF formats.

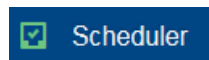
In the event that the contacts you are going to import already exist in the xweb database, the "Mode" parameter defines how to continue with the operation.

- Add: the contact is added but the Label is modified to make it unique. Below the same contact added to the system several times

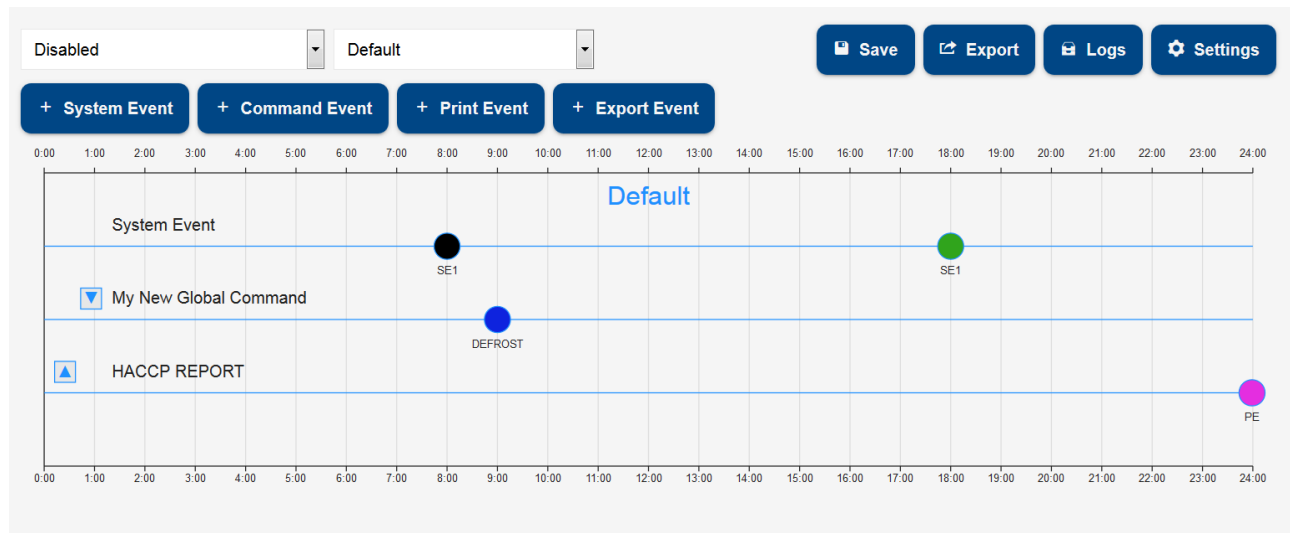
E		
Example Contact	example@emerson.com	+123456778990
Example Contact (1)	example@emerson.com	+123456778990
Example Contact (2)	example@emerson.com	+123456778990

- Replace: the contact database is deleted before importing the contact
- Merge: updated contact with email and / or SMS data as per file

3.3.5.3 SCHEDULER

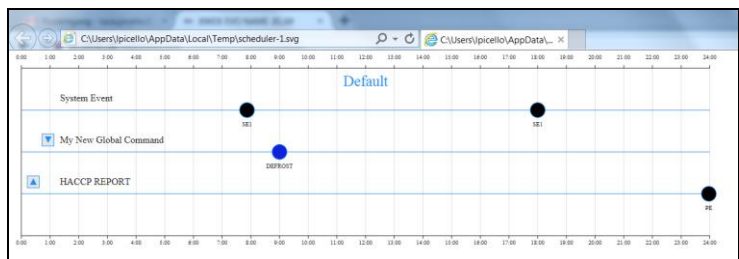
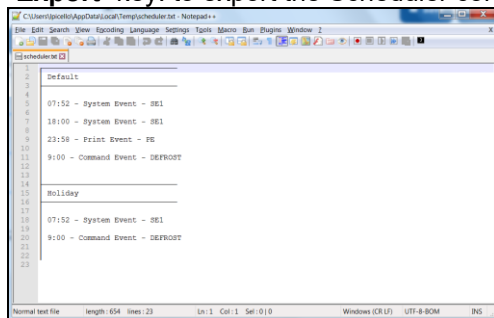


With this tool it is possible to program XWEB to send repetitive commands to the tools. For example, the sending of commands to switch on or to switch off lights or to schedule periodical defrosting.



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.

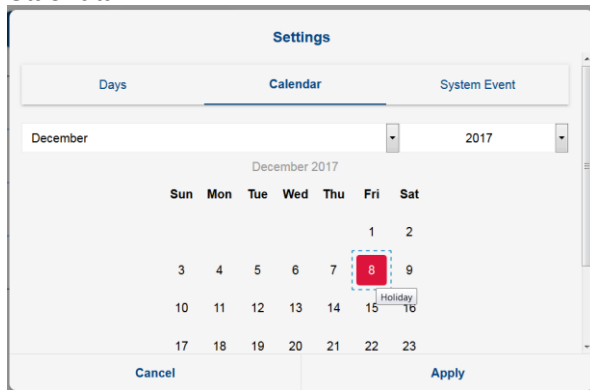


- **“Logs”** key: to show the scheduler logs, for the list of sent commands and other actions performed.
- **“Settings”** key: the following are configured in this window
 1. **Days**: to configure the types of day, each of which defines its specific events with times.

+ Day			
Name	Color	Enabled	Annual
Default		✓	✓
Holiday		✓	✓

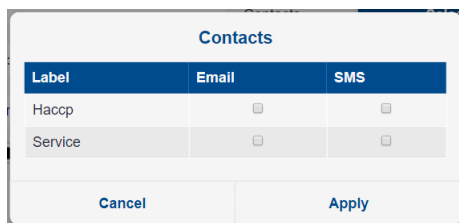
The colour will be important for visual recognition on the calendar. The "Enabled" parameter indicates whether the events configured on the day are active. The "Yearly" parameter indicates whether the day is to be associated - to all years - for operations of association to calendar. Attention: once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

2. **Calendar:**



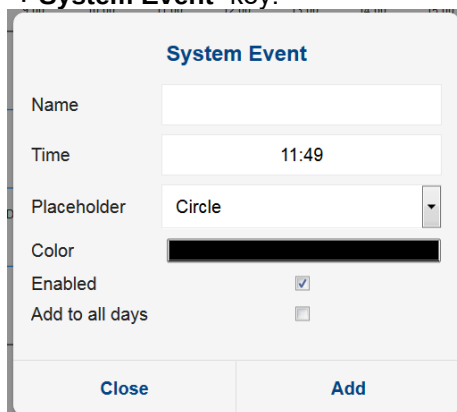
To associate the days, click on the day and select the (type of) day desired. It is also possible to associate the (type of) day on week days by clicking the name in the red band, e.g. apply the day "weekend" to all Sundays.

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

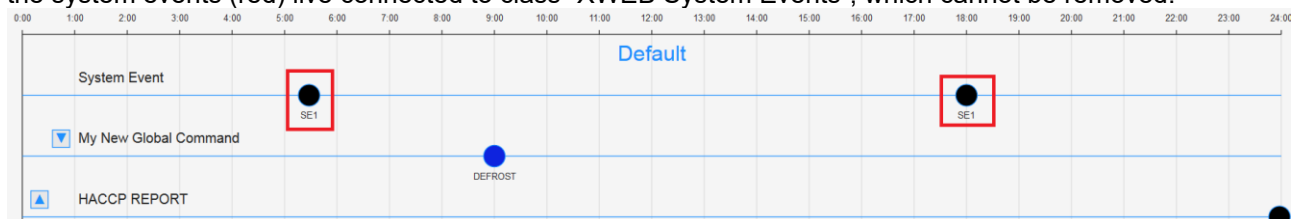


Caution: "Local Print Event" is an option that only appears with XWEB5000 as these systems can print on a directly connected local printer. "Info" is an option that lets you print in a more verbose manner, ie more detailed.

- "+ 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.

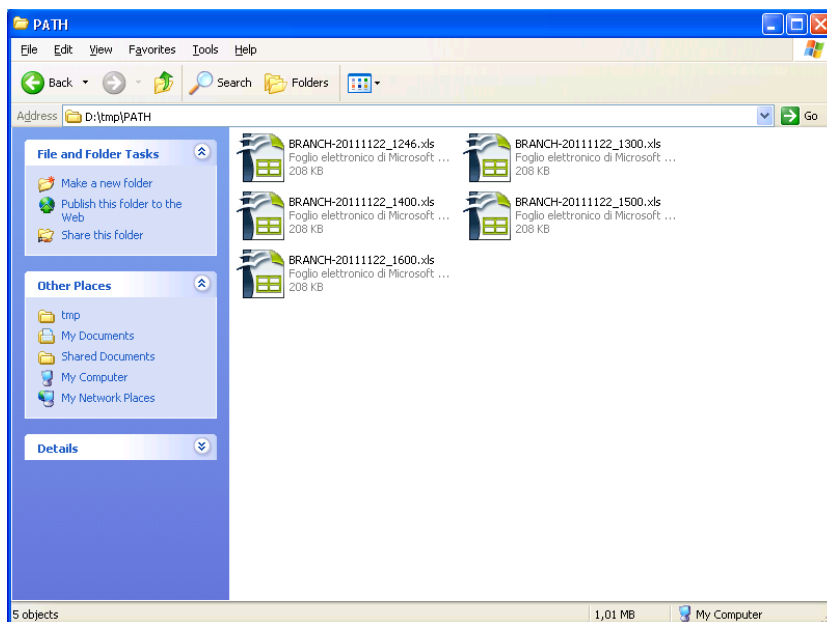
- “+ **Print Event**” key: the print events are those that produce, and eventually send, the temperature reports.

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.

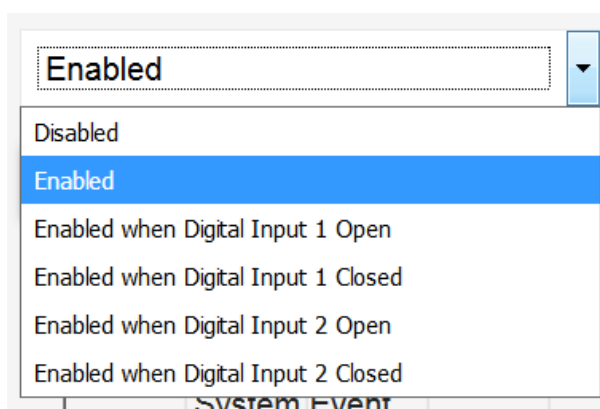
Once configured, the Excel files will be created as: <PATH>/<BRANCH>-<datetime>.XLS as per screenshot below.



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

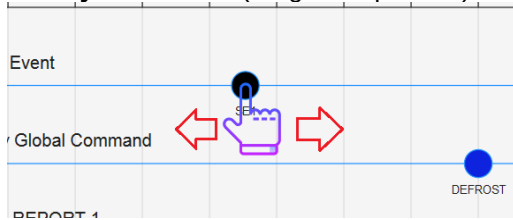


- “Day” combobox:
- up/down keys: to move the existing event classes up/down



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.

3.3.5.4 CALENDAR

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

The screenshot displays a web-based calendar management interface. On the left side, there is a sidebar with a search bar containing the word "new". Below the search bar are three buttons: "Save", "Save as...", and "Delete". Further down, there are input fields for "From" and "To" times, both set to "09 : 00 AM" and "09 : 00 PM" respectively, with a "+ Add" button below them. At the bottom of the sidebar, there are dropdown menus for "January" and "2018", and a "Reports" button. The main area of the interface shows a monthly calendar for "January 2018". The calendar has a header with navigation arrows, a "today" button, and tabs for "month", "week", and "day" views. The calendar grid shows days of the week (Sun to Sat) and dates from 1 to 31. A yellow highlight is visible on the 22nd of January.

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

This screenshot shows a modal dialog box titled "Add" for creating a new event. The "Label" field is set to "New Event". Under the "Weekly" section, there are checkboxes for days of the week: Sunday, Monday, Tuesday, Wednesday, Thursday, and Friday. The "From" and "To" time fields are both set to "09 : 00 AM" and "09 : 00 PM". The "Absolute" section is selected, showing date fields for "From" and "To" set to "01 / 22 / 2018". There is also a "Yearly" checkbox. At the bottom of the dialog, there are "Close" and "Add" buttons.

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

This screenshot shows a modal dialog box titled "Save" for saving the calendar. It contains a text input field with the value "holiday 2018". At the bottom of the dialog, there are "Cancel" and "Save" buttons.

3.3.5.5 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 the 'Scheduled Export' configuration window. It includes a 'Scheduled Export' checkbox (checked), a time selector set to '10:06 AM', an 'Export on media connection' checkbox (checked), a 'Variables' section with a blue bar indicating '95 Points Selected', an 'Interval' dropdown set to 'Last Month', a 'Sampling (Minutes)' input field set to '1', and a 'Format' dropdown set to 'Microsoft Excel (XLSX)'. A 'Save' button is located at the bottom right.

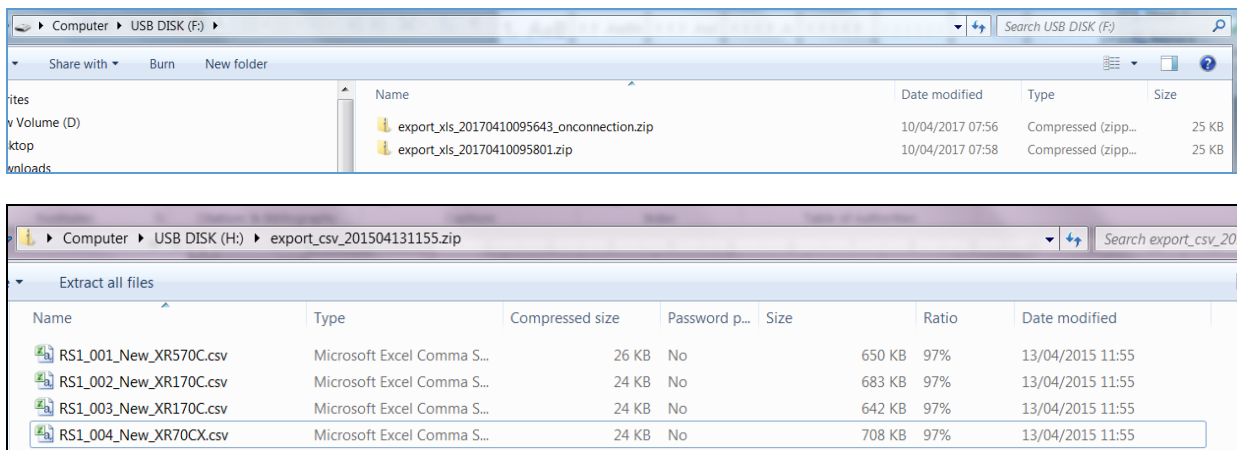
To retrieve data from remote connect to url:: <http://IP/getdailydata?g=1&u=<username>&p=<md5 password>>

XWEB transmits a zip file with the name "export_xls_YYYYMMGGhhmm.zip" or "export_csv_YYYYMMGGhhmm.zip".

For example:

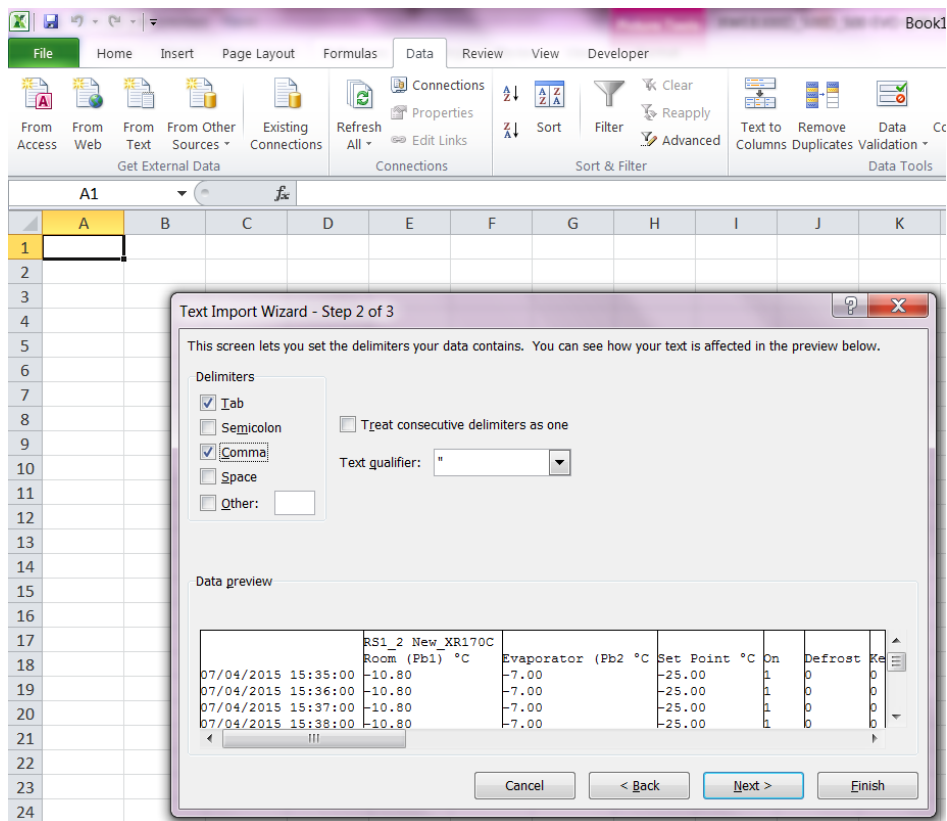
- export_xls_201311271234.zip (for xls export)
- export_csv_201311271234.zip (for csv export)

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

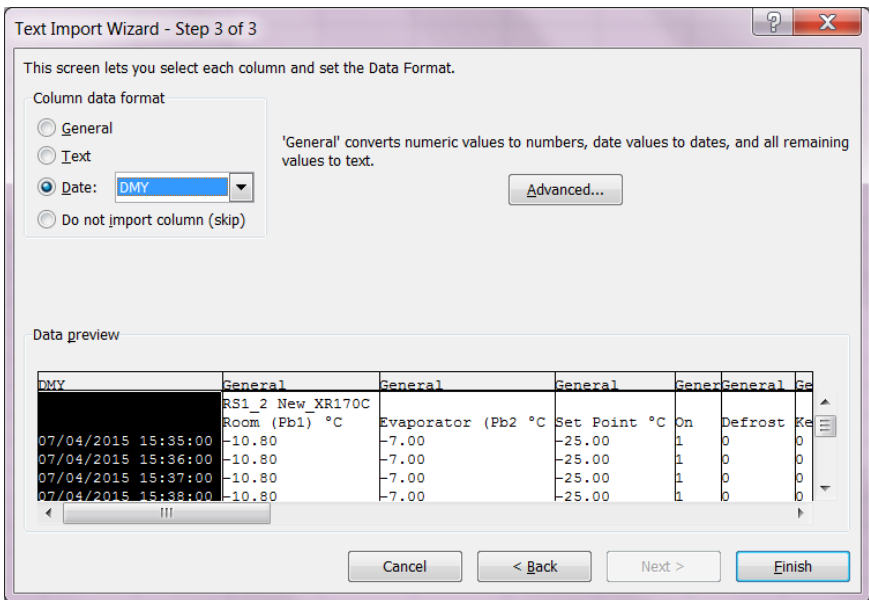


If the data is exported as CSV, note the conventions applied are:

- 8. Comma as column separator
- 9. Dot, as decimal separator



- 10. Day/Month/Year



3.3.5.6 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 load 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	☒	Cycling Mode	NO
Logs Edit Stop Start			

3.3.5.6.1 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/%).

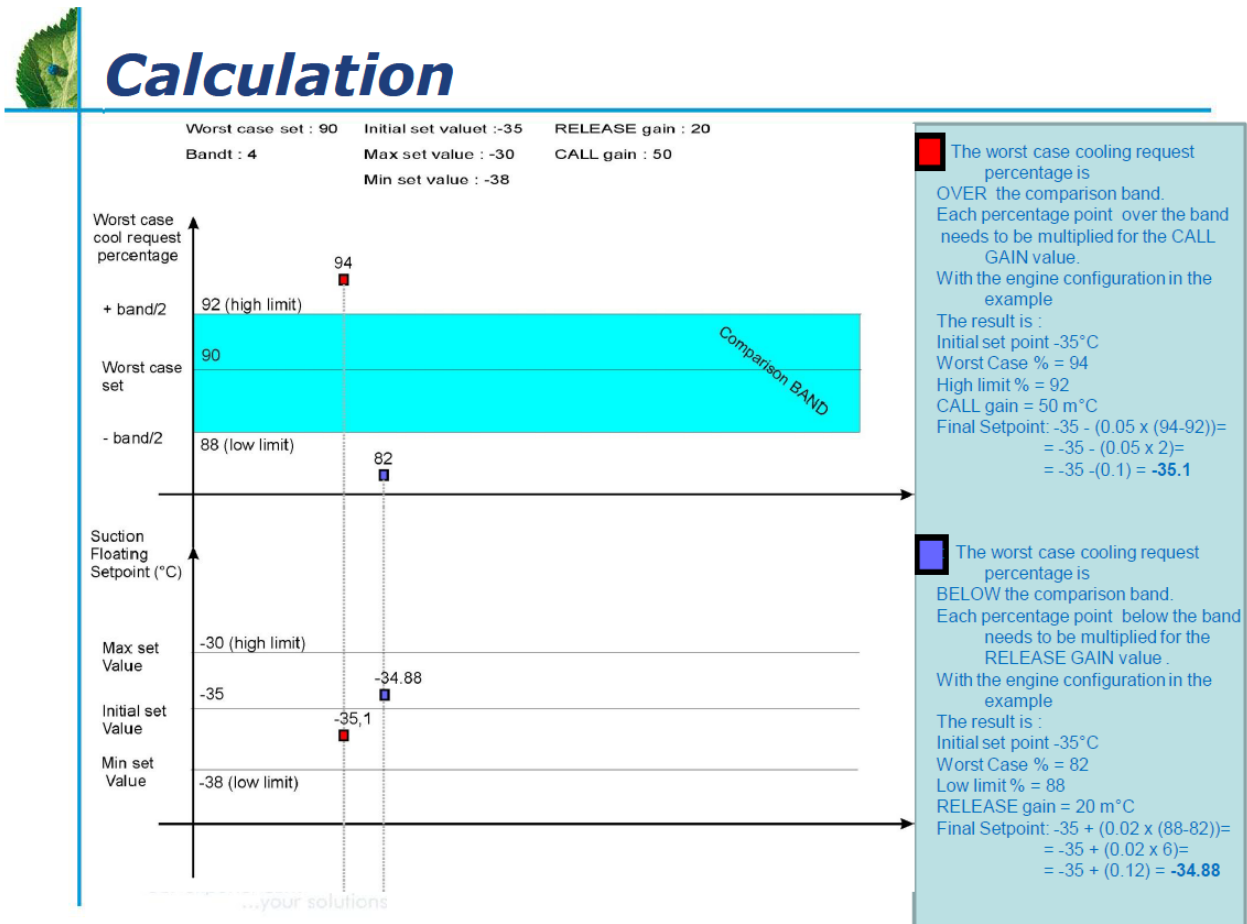
Post Defrost Time out: the duration after a defrosting event that is ignored in calculating the percentage (in minutes).

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.

3.3.5.6.2 HOW IT WORKS



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.

3.3.5.6.3 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.

3.3.5.7 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

Edit Stop Start

3.3.5.7.1 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

3.3.5.7.2 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.

3.3.5.8 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.

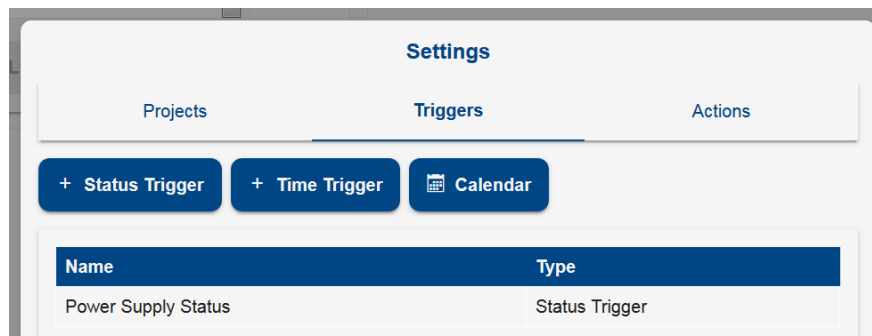
SDC, ELS and ODC

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)

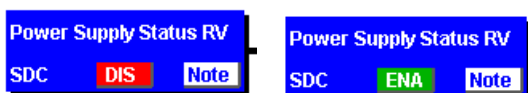
ACT = Activation logic. AND or OR

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 'Action' window is a configuration interface for creating an action. It includes the following elements:

- Label:** A text input field containing 'Energy Saving ON'.
- Type:** A dropdown menu currently showing 'Commands'.
- Commands:** A blue button labeled '1 Commands Selected'.
- SetPoints:** A blue button labeled 'Select Points'.
- Condition:** A blue button labeled 'Edit'.
- Label ON:** A text input field containing 'Energy Saving Activated'.
- Label OFF:** A text input field containing 'Energy Saving Deactivated'.
- Notes:** A large text area for additional information.
- Buttons:** 'Cancel' and 'Add' buttons 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 'Link' window is used to configure an ELS (Energy Saving Logic) block. It contains the following elements:

- Label:** A text input field containing 'Link (ELS)'.
- Triggers:** A section where conditions are defined. It shows 'Power Supply Status' with a checked checkbox and 'AND' logic selected from a dropdown.
- Actions:** A section where actions are defined. It shows 'Energy Saving ON' with a checked checkbox.
- Buttons:** 'Cancel' and 'Add' buttons at the bottom.

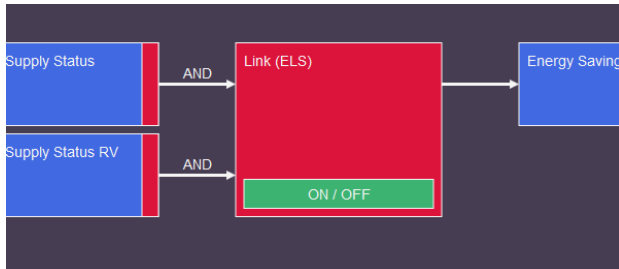
This block can be configured with multiple inputs, such as SDC and/or STE blocks. A logic group can be associated with each of these: AND/OR/DIS. The rule that is executed is $(\sum \text{And} \mid \sum \text{Or}) \& \sum \text{!Dis}$ where

- 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

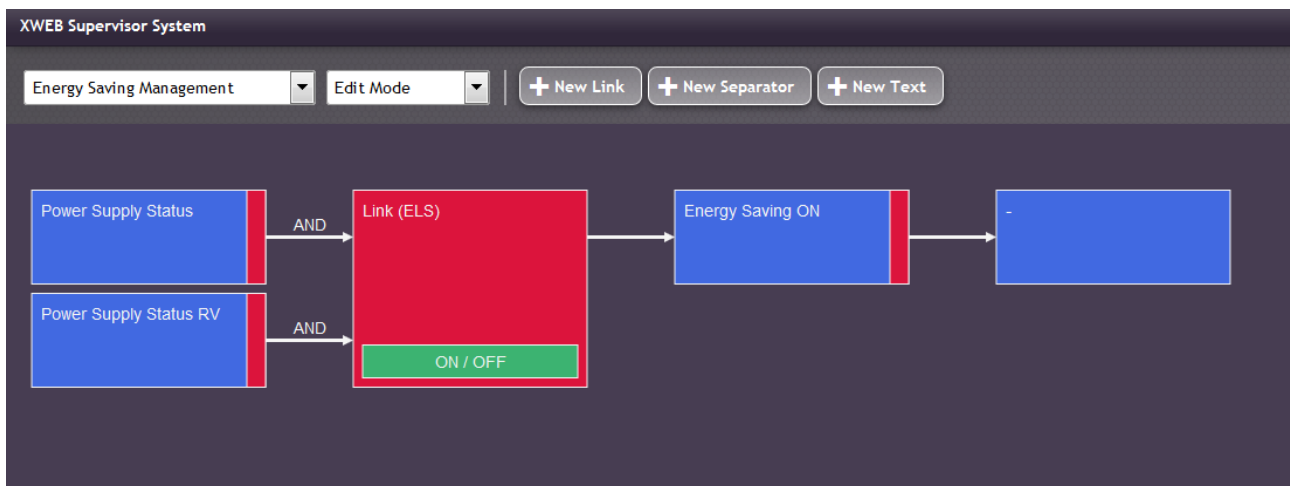
The resulting logic is: $((C1 \& C3 \& C5) \mid C2 \mid C4) \& !C7 \& !C6$



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.

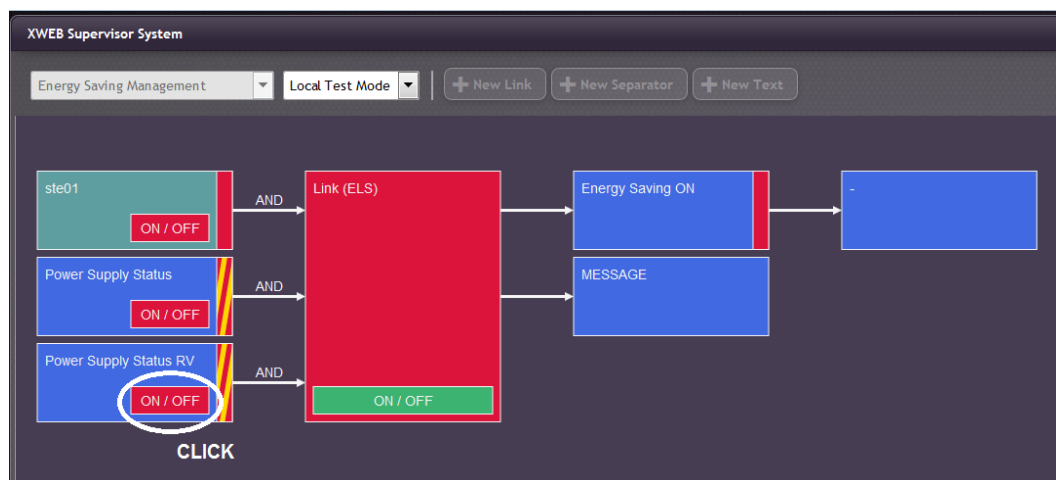
PROJECT SIMULATION

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

3.3.5.9 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 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

3.3.5.10 DATA PUSH

Access to the panel allows to configure XWEB to send the data collected to a server according to the "Data Push" protocol.

Configuration parameters:

- Identifier: unique identifier for XWEB on the enterprise server
- Server: IP address of the enterprise server
- Port: port on the enterprise server, to which XWEB will send information
- Interval: time to update information to the server

The information that will be sent will be the data available for the list of configured variables (Index + Device + Point); the parameters i. deviceoff. ii. nolink, iii. notexists iv. notvalid only the strings that are sent to the server in case of i. standby tool ii. tool in alarm of nolink iii. and iv. tool not configured correctly: the cfg devices is incongruent with the cfg of this service (it may be necessary to double check it completely).

3.3.5.10.1 PROTOCOL

It's a UDP protocol; XWEB sends telegrams to the server from which it gets no feedback. The telegram data is a string of characters. The string contains fields that are separated by a comma. The mapping of each field to the correct variable is performed in the server configuration. Float values must be expressed with a dot as a decimal point.

Field No	Description	Data format	Example
1	Unique ID for this plant / xweb	6 Alphanumeric characters	999999
2	No of value fields	Numeric integer	26
3	Time stamp	ISO date format	2010-08-08 23:58:00
4	Value field	Numeric float	78.8
..	..	..	..
n-1	Value field	Numeric float	238.1
n	Value field	Numeric float	238.0
n+1	CRC16 Check sum	Hexadecimal	1C4E

The maximum value range is 99.

Example string:

999999,26,2010-08-08

23:58:00,78.8,12.8,28.0,152.7,1.1,13.7,152.6,26.0,1367.2,183.3,30.09,0.71,48679.6,60.90,
58.32,57.66,0.00,-99.00,-99.0,51.0,80.8,3383.5,238.8,0.0,238.1,238.0,1C4E

How to calculate CRC16: the part in bold must be considered

999999,26,2010-08-08

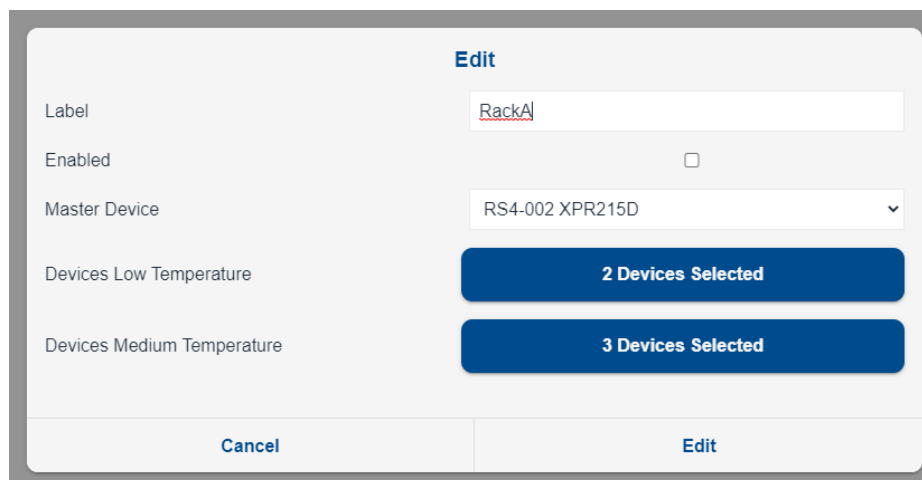
23:58:00,78.8,12.8,28.0,152.7,1.1,13.7,152.6,26.0,1367.2,183.3,30.09,0.71,48679.6
,60.90,58.32,57.66,0.00,-99.00,-99.0,51.0,80.8,3383.5,238.8,0.0,238.1,238.0,1C4E

3.3.5.11 COMPRESSOR GUARD

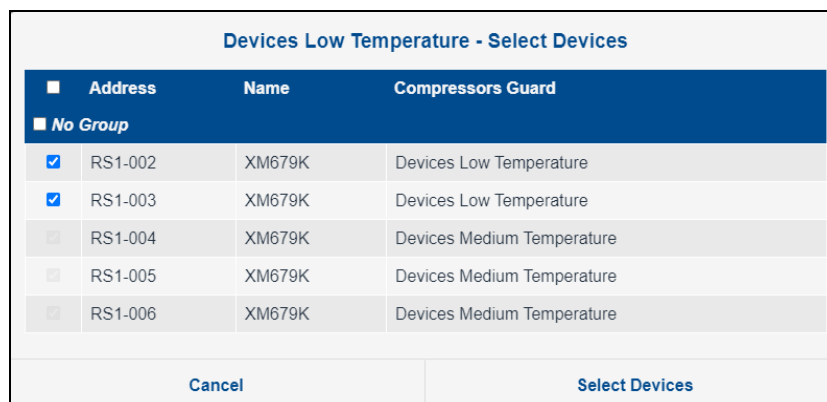
In centralized systems, as in normal condensing units, the formation of liquid in suction can lead to the breakdown of the compressors. The “Compressor Guard” function prevents unwanted backflows of liquid, guaranteeing its safety. If the compressors cannot be activated, due to protection times or alarms, the system temporarily inhibits the injection of refrigerant into the evaporators until the compressors are available again

The function is compatible with IPRORACK 6.2 or higher and XM600 5.4 or higher.

Access to this panel allows a configured and running system to monitor the algorithm's operation in real time. In this same panel, you can set the configuration parameters such as specifying the electronics that manage both the compressors and the showcases.



main window for master selection (compressor management), low and high temperature (cabinet management)



	Address	Name	Compressors Guard
☒	RS1-002	XM679K	Devices Low Temperature
☒	RS1-003	XM679K	Devices Low Temperature
☒	RS1-004	XM679K	Devices Medium Temperature
☒	RS1-005	XM679K	Devices Medium Temperature
☒	RS1-006	XM679K	Devices Medium Temperature

LT devices selection

3.3.5.12 XECO2

Natural gas applications, such as CO₂, require increasingly more efficient technologies from an energy point of view. One of the most efficient solutions is the use of flooded evaporators which allows:

- to obtain satisfactory results in all seasons, even in hot climates;
- to exploit the entire exchange surface of the evaporator, increasing the user cooling performance;
- to increase the evaporation pressure, reducing the compression ratio and consequently the energy consumption of the compressors.

XeCO₂ is the innovative and complete system that allows you to work in total safety with flooded evaporators, thus optimizing the operation of CO₂ systems; it is composed of controllers for refrigerated counters and cold rooms (XM600 ver 5.4 or higher), controllers for compressor stations and condensing units (iProRACK ver 6.2 or higher) and the monitoring and control system (XWEB PRO).

Access to this panel allows you to monitor the status of the algorithm in real time, over time or to configure it.

The configuration consists of a simple step where you set which is the central controller and which are the controllers of the MV cells / banks.

Edit

Label

RackA MT

Enabled

☐

Master Device

RS4-002 XPR215D

Devices Medium Temperature

3 Devices Selected

Cancel

Edit

cfg rack and enable algorithm

Select Devices

	Address	Name	XeCO2
■ No Group			
☐	RS1-002	XM679K	
☐	RS1-003	XM679K	
☒	RS1-004	XM679K	RackA MT
☒	RS1-005	XM679K	RackA MT
☒	RS1-006	XM679K	RackA MT

Cancel

Select Devices

cfg devices MT

XeCO2, based on the state of the plant, is able to lower the overheating set of medium temperature users, thus flooding the evaporators and increasing the system's cooling performance.

3.3.5.13 DOCUMENTS

Access to the panel allows you to manage XWEB memory expansions for PDF files, typically used for documentation of wiring diagrams or manuals.

Upload

Destination

USB DISK

Document

Select

Cancel

Upload

Upload

Documents

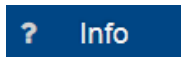
Device	Document		
USB DISK	sample.pdf	Delete	Download

PDF files are not readable on PC but only on other XWEBs.

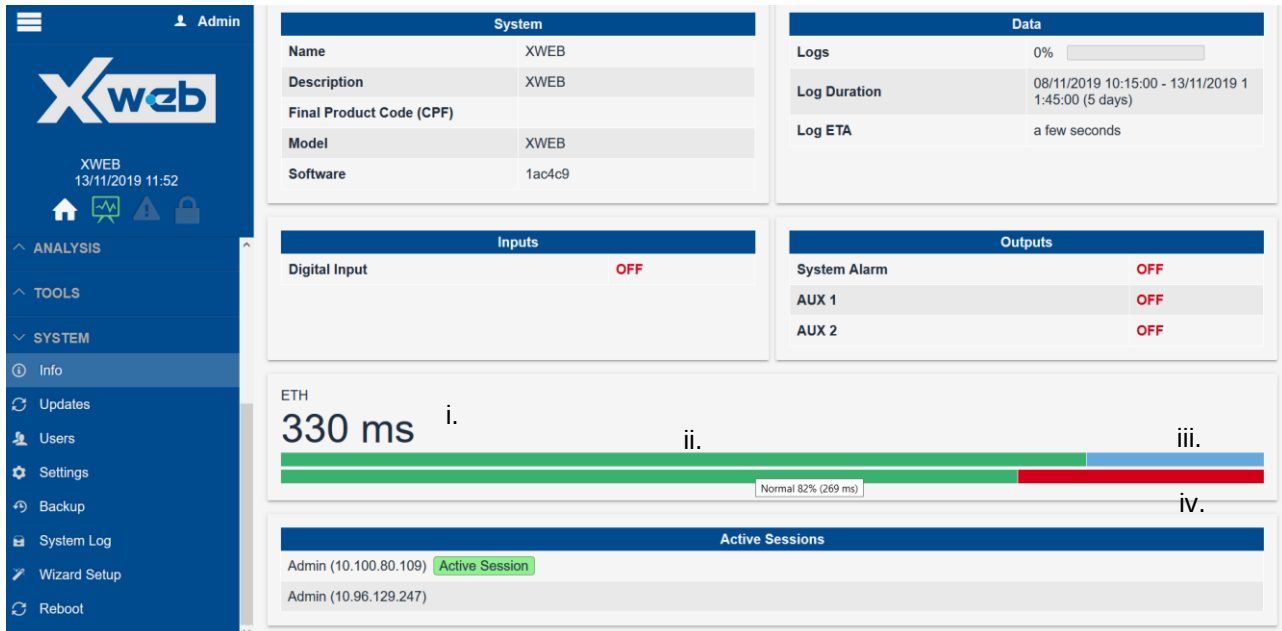
To read PDFs, the Acrobat Reader app or equivalent must be installed on your computer.

3.3.6 SYSTEM

3.3.6.1 INFO



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



System

Name and description are set by the user in the SYSTEM/SETTINGS/GENERAL menu; CPF, Model, Hardware and Software correspond to the physical product model. The CPF is usually also visible on the label of the same product.

Data

Logs: memory used. Approximate Log Duration: duration between the oldest sample and the most recent sample; Approximate Time of Arrival: approximate date on which the oldest data will be deleted. Polling Time: sampling time on the serial. These indications may vary over time based on the use of XWEB and is calculated based on the total memory of the XWEB and the consumed.

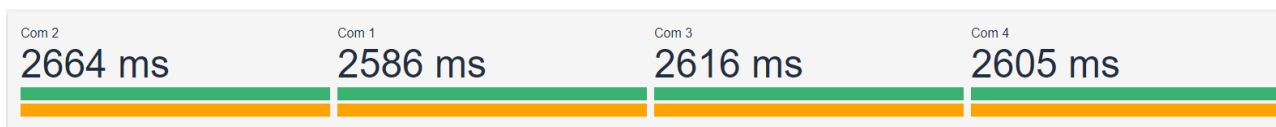
IO status

Status of relays and digital inputs, updated in real time; together with the status of any USB media key inserted and recognized. This section also contains information on the usb-Wifi dongle: entered yes / no, configured access mode (access point or wifi for connection to existing access point) and if the connection is established or in error.

Inputs	Outputs	Remote Outputs	Media	USB Wi-Fi Adapter
DI 1 OFF	RL 3 OFF	RAUX 1 OFF		Dongle Inserted
DI 2 OFF	RL 1 OFF	RAUX 2 OFF		Mode Access Point
	RL 2 OFF	RAUX 3 OFF		Connection Established
		RAUX 4 OFF		

Modbus interfaces

Displays the real-time status of the modbus communication interfaces reporting the. the total time of a poll frame; ii. The indication of the quality of the line with the success / error data of the modbus commands. The example image below shows information for all four xweb1000 serial lines.

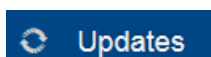


- I. Total Polling Time Frame (330ms)
- II. Normal Polling Time Frame (82%, 269ms - green)
- III. HF Polling Time Frame (18%, 61ms – cyan)
- IV. Total Polling Success Rate (Success, 75%, 9 cmd - green) and Errors (25%. 3 cmd – red)

Stato sessioni al webserver

View real-time status of sessions with IP and username connected.

3.3.6.2 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_00000000001E
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

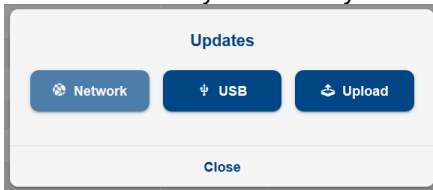
Date and Time	User	Mode	Name	Version
19/09/2017 16:29:59	EN	Upload	Libraries	20170919 AHU_00000000001E
15/09/2017 17:05:26	Admin	Network	XWEB EVO Software	DEV--9e2f7b
14/09/2017 17:54:00				20170914 SCREW_00F00030000A
14/09/2017 17:51:37				20170914 SCREW_00F00030000A
14/09/2017 12:30:04				DEV--069c16
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_00000000001E
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.

3.3.6.3 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

A form titled "Add" for creating a new user. It includes a dropdown menu for "Users", and input fields for "First Name" (Luca), "Last Name" (Picello), "Username" (lpicello), "Password" (masked with dots), and "Profile" (admin). At the bottom are "Close" and "Add" buttons.

Profiles

A form titled "Add" for creating a new profile. It includes a dropdown menu for "Profile", and input fields for "Name" (Installer) and "Permissions" (admin). At the bottom are "Close" and "Add" buttons.

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

A detailed form for editing a user. At the top, a dropdown shows "luca (luca)" with a "+ Add" button. Below are "Delete" and "Save" buttons. The "Settings" section contains two groups of fields: the first group has "Profile" (admin), "Username" (luca), "Password", "Enabled" (checked), and "Expiration Date" (gg/mm/aaaa); the second group has "Label" (luca), "Language" (English (Great Britain)), "Default Desktop" (Dashboard), and "Dashboard Default View" (Active Alarms).

The “Save” key consolidates the changes in the XWEB 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.
- 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 500,1000 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
Delete Alarms	l'abilitazione permette di cancellare il Devices→Alarms Log
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

Read Data Reports	Permette di eseguire il comando Analysis→Reports→Data→Esegui
Edit Data Reports	Permette di eseguire il comando Analysis→Reports→Data→Modifica
Read HACCP Reports	Permette di eseguire il comando Analysis→Reports→HACCP→Esegui
Edit HACCP Reports	Permette di eseguire il comando Analysis→Reports→Data→Modifica
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

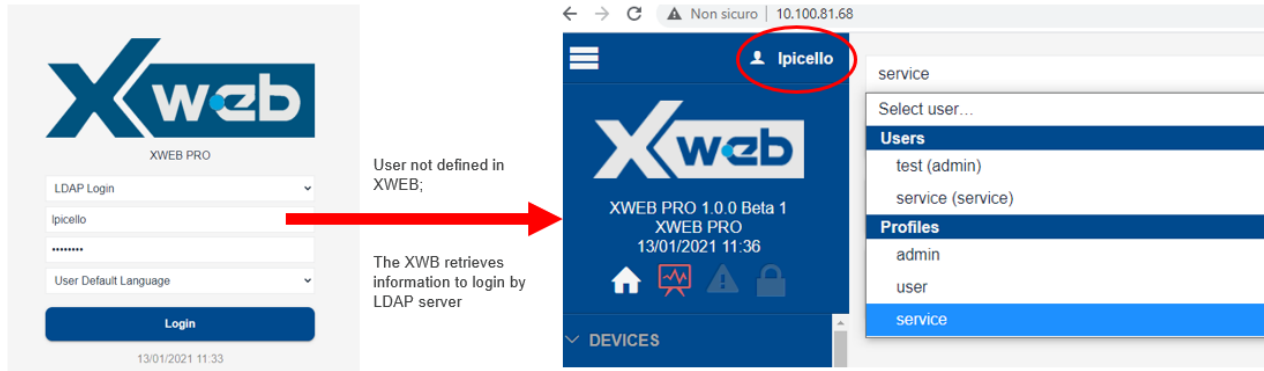
Tools	
Edit Global Commands	allows you to make changes on the desktop Tools→Global Commands
Edit Scheduler	allows you to make changes on the desktop Tools→Scheduler
Edit Calendar	allows you to make changes on the desktop Tools→Calendar
Edit Automatic Export	allows you to make changes on the desktop Tools→Automatic 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
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

LDAP

with the LDAP key you can access the configuration of the service connected to remote user management; the service uses the Lightweight Directory Access Protocol (LDAP) industry standard.

With this service enabled, it is possible to log into the xweb with a user defined on a remote server, without this having been defined locally, that is in the xweb itself - see example image below.



The configuration parameters must be agreed with the administrator of the server users who must also associate the user with the xweb profile name that the user must use.

In fact, when a user tries to log on to xweb as an LDAP user, the request is passed to the server which, once the username and password credentials have been verified, returns the user's profile on the xweb; the profile defined locally in xweb defines the access and use permissions of xweb itself.

LDAP

Enabled ☒

Host

Port

STARTTLS ☐

Master DN

Master Password

User Search Base

User Search Filter

Group Membership Property

Profile Matchings

ldap://

389

Profile	DN
admin	
user	

Close
Save

3.3.6.4 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 XWEB5000)

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)

Custom Logo Login / menu: to upload images for the login homepage and the navigation bar. The images must be PNG files; the images are resized by xweb for better viewing.

- Date and Time

The screenshot shows a configuration window for 'Date and Time'. It contains several input fields and dropdown menus. The 'Timezone' is set to 'Europe' with a sub-selector for 'Rome (+1)'. The 'Date Format' is 'dd/mm/yyyy'. The 'Date and Time' field shows '11 / 27 / 2017' and '05 : 33 PM'. The 'Synchronization' is set to 'Daily'. The 'NTP Server' is 'pool.ntp.org'. There are 'Sync' and 'Save' buttons at the bottom right.

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

XWEB5000	XWEB300D/500D
Network General Hostname: EVODM2205 ETH 0 (LAN) IPv4 DHCP Client: ☐ IPv4 IP Address: 10.100.82.205 IPv4 Subnet Mask: 255.255.255.224 IPv4 Gateway: 10.100.82.193 IPv4 ARP: ☐ IPv4 ARP Interval: 15 Minutes IPv4 ARP Count: 3 ETH 1 (FIELD) IPv4 DHCP Client: ☐ IPv4 IP Address: 192.168.0.100 IPv4 Subnet Mask: 255.255.255.0 Domain Name System DNS IPv4 1: 10.100.80.20 DNS IPv4 2: 8.8.8.8 Domain Name: Services HTTP Port: ☐ 80 HTTPS Port: ☒ 443 LAN Speed: ☐ DHCP Server IPv4 DHCP Server: ☐	Network General Hostname: XWEB-EVO ETH 0 (IP 1) IPv4 DHCP Client: ☐ IPv4 IP Address: 10.100.81.60 IPv4 Subnet Mask: 255.255.255.0 IPv4 Gateway: 10.100.81.1 IPv4 ARP: ☐ IPv4 ARP Interval: 15 Minutes IPv4 ARP Count: 3 ETH 0 (IP 2) IPv4 DHCP Client: ☐ IPv4 IP Address: 192.168.0.150 IPv4 Subnet Mask: 255.255.255.0 Domain Name System DNS IPv4 1: DNS IPv4 2: Domain Name: Services HTTP Port: ☒ 80

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

For the XWEB5000 it is possible to configure the IPs of the two LAN and FIELD ports. For the latter, up to five "static routes" can be configured.

Attention: IP1 and IP2 must belong to two different networks.

- USB Wi-Fi Adapter

To configure the wifi dongle connected to the xweb usb port.

1. Mode: operating mode: i. access-point to allow the connection of a device such as a tablet / pc / smartphone to xweb; ii. Wi-fi to allow xweb to access an existing wifi hotspot
2. SSID: name of the network accessed by the user or, if the wifi mode is configured, it goes to access xweb
3. Password: password for accessing the network
4. IP Address (only for Mode = Wi-fi): IP address to be used during the connection; if the parameter is left blank, the IP address is assigned automatically

no user will be able to access via wireless to the port 22 service; once the user connects to the xweb access-point he/she needs to open with the web browser address 172.21.0.1 and the login page will be displayed

The connection status of the dongle is visible by accessing the SYSTEM / INFO menu

- Modem

Modem

Main Modem

Modem
Disabled

Label

Dial In
☐

Secondary Modem

Modem
Disabled

Label

Dial In
☐

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:

5. Disabled
6. Dixell internal modem. Corresponds to the internal analog modem
7. Dixell external modem. Corresponds to the external modem XWEBMODEM
8. External GPRS/UMTS modem. Corresponds to the TC35-KIT, GT-HE910-EUD-KIT, GT-HE910-NAD-KIT modem
9. Internal GPRS modem. Corresponds to the internal modem.
10. External generic modem.

- Inputs / Outputs

Inputs / Outputs

Digital Inputs

Digital Input	Label ON	Global Command ON	Label OFF	Global Command OFF
Digital Input 1	ON	None	OFF	another glib command
Digital Input 2	ON	None	OFF	None

AUX

AUX	Inverted Polarity	Activate After Level Accumulation	Timeout (Seconds)
AUX 2	☐	☐	0
AUX 3	☐	☐	0

RAUX

Enabled RAUX
☐

Device XJR40
None

RAUX	Inverted Polarity	Activate After Level Accumulation	Timeout (Seconds)
RAUX 1	☐	☐	0
RAUX 2	☐	☐	0
RAUX 3	☐	☐	0
RAUX 4	☐	☐	0

- Digital Inputs (only for XWEB500 / 1000 / 5000)

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

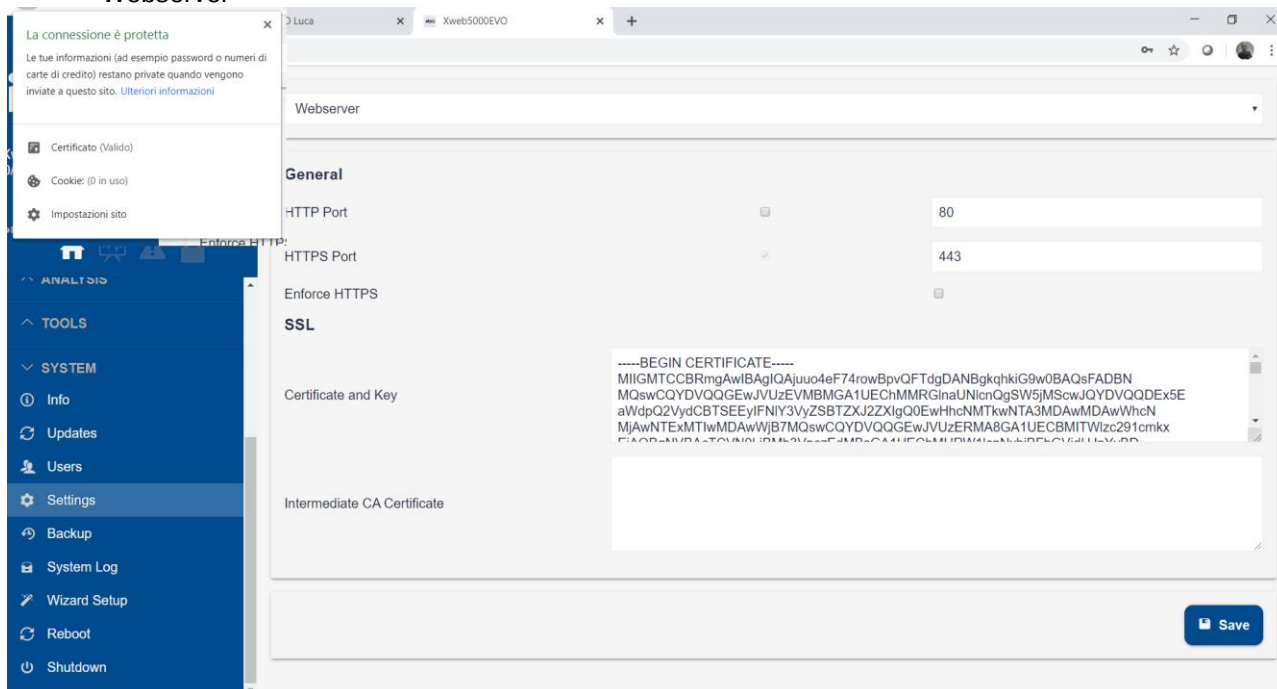
The boxes set the normal logic for the XWEB AUX relays. The disabling of the 'follow alarm delay' box energises the relay in sync with the reading of the alarm status.

(only for XWEB500D) 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.

- Webserver



- '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.
- Enforce HTTPS: to redirect the web client to the secure connection
- "Certificate and Key" and "Intermediate CA Certificate": ssl keys of certification bodies in text form (PEM) . The maximum size of the SSL Certificate key is 2048 bits

- Acquisitions



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	☐
Acquisitions ON	☐
Acquisitions OFF	☐
High CPU Temperature	☐
Digital Input 1 ON	☐
Digital Input 2 ON	☐
Max Size Data Log	☒
Max Size System Log	☒
Max Size Temporary Directory	☐
Error System Configuration	☐
Error Sending Email	☐
Error Sending Fax	☐
Error Sending SMS	☐
Error Local Print	☐
Error XCenter	☐

Recipients							
Username	Fax	Fax OCR	Fax Info	Email	Email Attachment	Email Info	SMS
Admin (Admin)	☐	☐	☐	☐	☐	☐	☐
CN CN (CN)	☐	☐	☐	☒	☒	☐	☒
DE DE (DE)	☐	☐	☐	☒	☒	☐	☐
EN EN (EN)	☐	☐	☐	☒	☐	☐	☒
GR GR (GR)	☐	☐	☐	☒	☒	☐	☐

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 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
Di1	Error from digital input 1
Di2	Error from digital input 2
BlackOut	Return from blackout error
Stp	xweb configuration error.

Other information

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

- Email

Email

Enabled ☒

Server 10.100.80.14

Authentication No Authentication

Username

Password

Forward LAN

Retry 0

Delay (Minutes) 0

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:

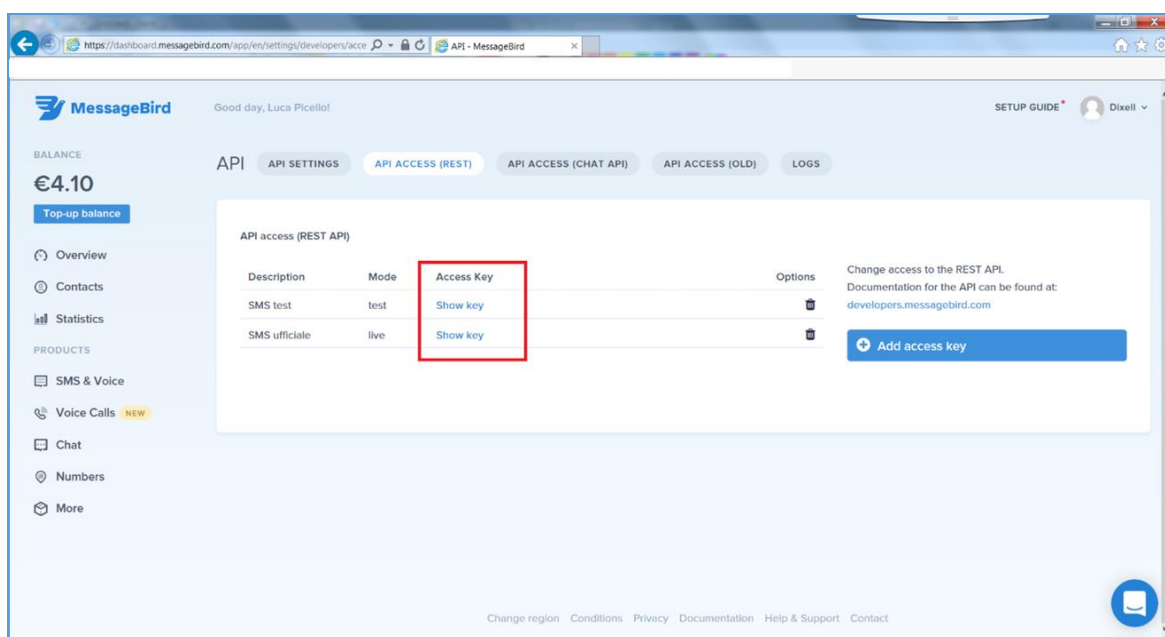
- No authentication
- User/Name normal
- User/Name TLS (without STARTTLS)
- User/Name TLS
- User/Name SSL

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

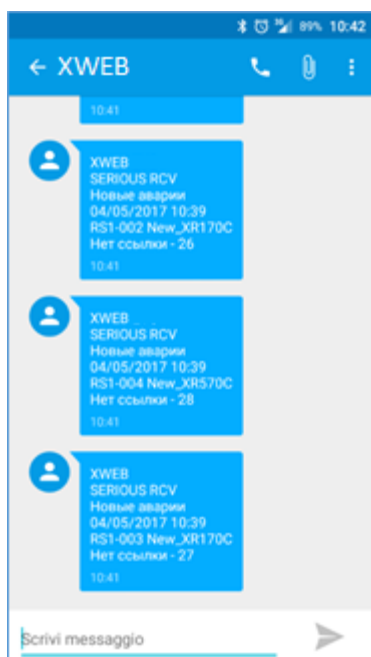
- SMS

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

- 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 configuration. The access key relates to your credit line, from which the cost of each SMS to be sent from XWEB 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 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
MESSAGEBIRD		

- Monitor

Monitor

Monitor Resolution

1024x768
1024x768
848x480
800x600
640x480

Save

the page allows forcing the resolution for the monitor connected directly to XWEB. The option is only available for XWEB1000/5000.

- Modbus TCP/IP Gateway

Modbus TCP/IP Gateway

Enabled

☒

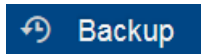
Port 1 (RS485 1)

502

Save

To enable the Modbus tcp / ip gateway service. Enabling it, allows another device connected in tcp/ip to query xweb to obtain the values of the variables of the modbus instrumentation connected to it [xweb].

3.3.6.5 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 "system backup disk" allows for the uploading of a backup previously run in the XWEB memory; The "Usb connected to xweb" 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.

3.3.6.6 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.

2016-09-22T17:08				
2017-09-25T17:08				
✓ Apply				
Date	Level	Context	User	Message
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 "ssssssssssss"
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

3.3.6.7 WIZARD SETUP

english

Xweb

XWEB NAME .81.68
16/01/2018 09:42

RESTORE SETUP

Restore

WIZARD SETUP

System

Users

Alarms

Devices

Communication Statistics

Scheduler

Close

Backup Upload

System

Date	User	System	Status	Version	System	Devices	Logs	Data
25/09/2017 17:37:18	EN	XWEB	NAME .81.68	✓ 9e2f7b	✓	✓		Delete Restore
25/09/2017 17:37:11	EN	XWEB	NAME .81.68	✓ 9e2f7b	✓	✓		Delete Restore
25/09/2017 17:34:47	EN	XWEB	NAME .81.68	✓ 9e2f7b	✓	✓		Delete Restore

USB

Date	User	System	Status	Version	System	Devices	Logs	Data
------	------	--------	--------	---------	--------	---------	------	------

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.

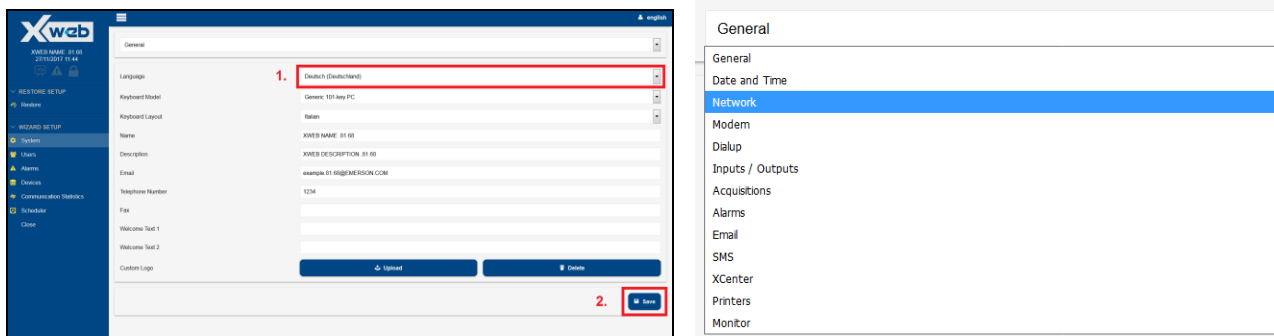
3.3.6.8 RESTORE SETUP

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).

3.3.6.9 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.



3.3.6.10 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.

3.3.6.11 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 a registered trademark of Microsoft Corporation in the United States and other countries.

Chrome is a registered trademark of Google LLC.

Firefox is a registered trademark of the Mozilla Foundation.

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 XWEB5000 MODEL

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 PRO is not compatible with CLASSIC model files.

5.6 WHAT IS XWEB DEFAULT IP

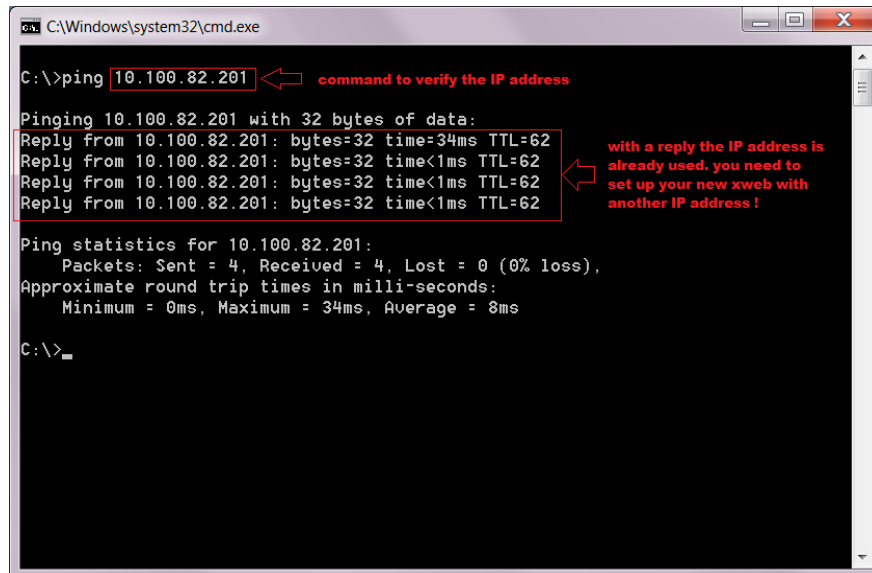
For XWEB300D/500D/1000D models default IP is 192.168.0.150

For XWEB5000 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:\>
```

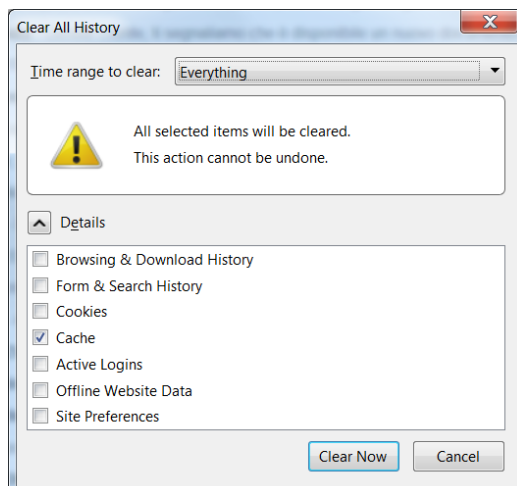
If no reply is received, your PC is unable to communicate with the XWEB. Check the cables once again or contact your network administrator. Attention, if a reply is received, it may not come from the XWEB: it may come from another device on the network. Also in this case, should you continue to have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

XWEB300D 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 instead depends on the model purchased for example the XWEB300D models can manage 18 addresses at most.

XWEB500D can manage two RS485 serial lines; the maximum value of the modbus address is 247 per line but in total it can manage 75 addresses.

XWEB5000 can simultaneously manage two distinct RS485 serial lines, for each of which it can address up to a maximum of 247 controllers. 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:

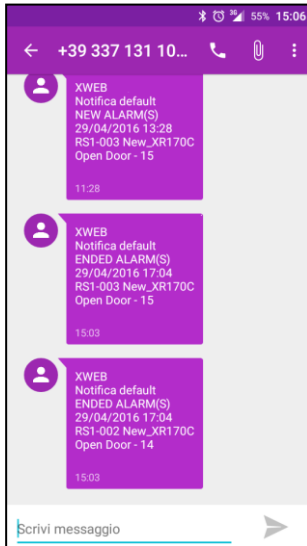
1. The first type of re-send is carried out during the lifespan of the level, where the emails are always re-sent to the same recipients. The parameters affecting this type of re-send are "Resend Time" and "Resend life time", in the level settings.
2. the second type of re-send is carried out through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

5.16 LIMITS ON LOADING FILES

Devices > Devices > Parameters - XWEB300/500: 1 MB - XWEB1000: 1 MB - XWEB5000: 1 MB	Devices > Settings > Preconfigurations - XWEB300/500: 1 MB - XWEB1000: 1 MB - XWEB5000: 1 MB	Layout > *images* - XWEB300/500: 1 MB - XWEB1000: 1 MB - XWEB5000: 1 MB	Tools > Languages - XWEB300/500: 5 MB - XWEB1000: 5 MB - XWEB5000: 5 MB
System > Updates - XWEB300/500: 21 MB - XWEB1000: 70 MB - XWEB5000: no limit	System > Settings > General - XWEB300/500: 1 MB - XWEB1000: 1 MB - XWEB5000: 1 MB	System > Backup - XWEB300/500: 20 MB - XWEB1000: 20 MB - XWEB5000: 20 MB	System > Terminal - XWEB300/500: no limit - XWEB1000: no limit - XWEB5000: no limit

[illegible]

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