OPERATION MANUAL

Ver 1.0

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

	CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
	THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED “DANGEROUS VOLTAGE” WITHIN THE PRODUCT’S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.
	THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

WARNING: 	**Use only modems supported by this monitoring units. Dixell S.p.a can accept no responsibility for possible damage due the usage of not supported modems.**

WARNING: 	**Dixell S.p.a. reserves itself the right to alter this manual without notice. The last version available can be downloaded from the website.**

WARNING: 	**This manual describes XWEB 300 unit K 1.0 – W1.0.1 or previous**

INDEX

INTRODUCTION

Congratulations! Reading this manual will learn everything about XWEB 300 server, the most powerful and configurable tool for Controlling and Monitoring.

This manual is a comprehensive guide to your XWEB 300. In it you will find all the information you need for your work.

The XWEB 300 is based on the latest technology of the Internet world to display the WEB pages contained into the unit itself. The µC Linux operative system guarantees maximum efficiency and stability support for this kind of product.

All future software releases developed by Dixell have the possibility to be downloaded through the local connection via a client PC. The Hardware inside the unit, based on high performance electronic boards, does not need any maintenance.

The different kind of client connections are guaranteed by two serial port RS 232 capable of giving the best solution for each kind of application.

PACKAGING

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.
Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.
We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.
Inside the box you must find these articles:

- The XWEB 300 server unit [1].
- One CD Rom containing the Operative manual and software [2].
- Quick setup manual (Fast installation) [3].

If you one of the above items is damaged, do not hesitate to contact your supplier.

MODEM (not included)

- When working with the modem connection always check the kind of modem you are going to install by verifying, with Dixell, the complete compatibility with the XWEB 300 unit.
- Dixell is not responsible for bad functioning of unknown or untested devices.

Caution: read this page carefully to ensure safe operation

MINIMUM SYSTEM REQUIREMENTS FOR THE PC-CLIENT

When connecting through local or remote connection, the PC client computer, must have installed these components:
Windows 98® or higher
Pentium II 300MHz with 64 Mb-ram or higher
Java Virtual Machine
Explorer 5.5 or higher

If necessary, inside the CDROM you will find the Java Virtual Machine program distributed by Sun® Microsystems.
Dixell S.p.a.. is not responsible for any kind of damage occurring after the loading of the Java Virtual Machine program into the user's PC.

Java is a trademark of Sun Microsystems, Inc.

1 GENERAL INFORMATION

XWEB 300 is a Controlling and Monitoring system based on “WEB server” technology. It is capable to communicate data to one external Client with the same kind of procedure used by the Internet Web Sites. Client need only a standard Browser such as Microsoft Explorer® or Netscape®.

The Web Pages with all the information are contained into the server itself; Linux operative system ensures maximum efficiency and security.

The server reads, logs and checks the data coming from the Dixell instruments connected to a RS485 line. The communication protocol is the Modbus-Rtu. The XWEB 300 is capable of recognising also most of the Modbus-Rtu compatible instruments not manufactured by Dixell.

ATTENTION: Always check the proper RS485 connections (see 2.1.1rs485)
ATTENTION: Dixell S.p.a. reserves itself the right to analyse the Modbus-RTU compatibility of other manufacturer’s devices before ensuring their integration into XWEB 300 system.

Clients to Server connection possibility:

- **Modem:** point to point through local and remote modem devices (“Creating a Remote Access under Windows”);
- **Local serial cable:** You can plug serial cable into labelled PC socket of XWEB 300 and on the other side into your PC serial port.

The User interface is defined by the Browser program and it is the same for all kind of connections.
The PC-client needs only a standard Browser, there is no need to install any kind of software
Some pages created by the web server rely on Java and they needs the Java Virtual Machine program that is normally installed in the latest Browsers and operative systems.

Check the different connection under “§2.1.6 Local connectivity”.

Features and functions included into the XWEB 300 management:

- Data monitoring and recording, alarm detection and recording of the instrument connected.
- Alarm management defined by the User with visible signals (onboard led), and remote transmission via Fax, E-mail or sms.
- Interactive commands to work with the connected instruments.
- Parameter table programming.
- Graphic or table viewing and printing[1] of the recorded data.
- Other service functions.

[1] Only through client printer, if available.

2 INSTALLATION

2.1 HARDWARE

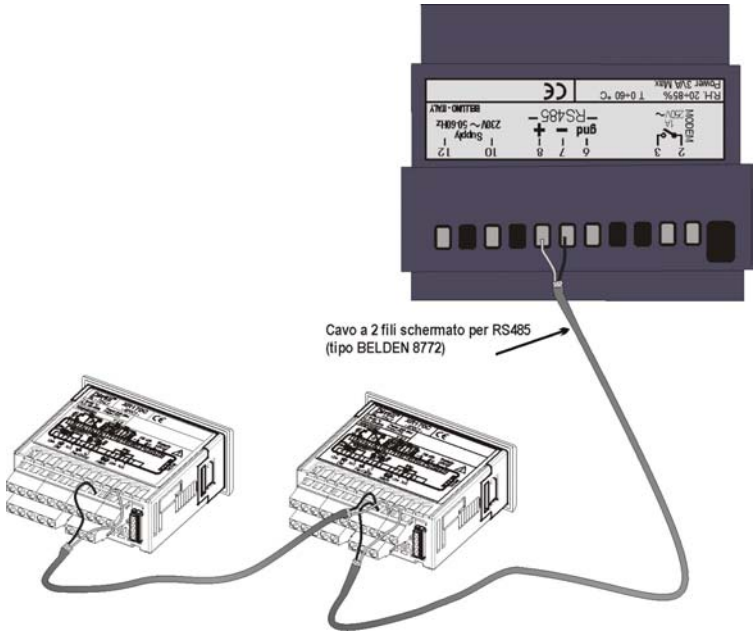
ATTENTION: to protect both yourself and the server from electrical hazards the XWEB 300 should remain turned off until you are finished connecting all electrical devices to the unit.
To avoid accidental start of the unit, remember to plug in electrical cable only when you have finished setting up all other connection.

2.1.1 RS485

To be connected to the serial line all the Dixell Modbus instruments must be provided with direct RS485 terminals or the "TTL"-RS485 interface (XJRS485 or XJ485). Check the instrument manuals for more information.
The RS485 line is mainly based on two polarised terminals. Please beware to respect the right sequence for all the devices connected to the serial line.

Follow these important advises:

- The RS485 serial line must reach all the instruments where they are installed.



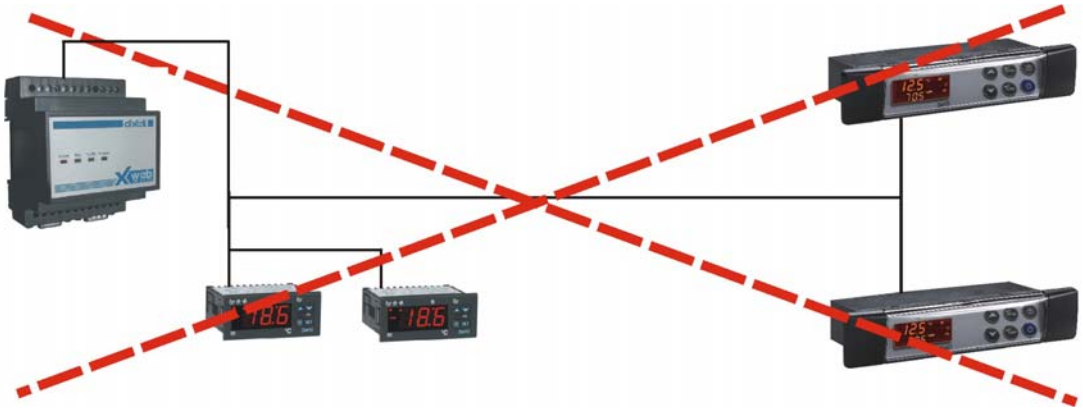
- Beware to the wire polarities when screwing them into the instrument terminals.

2.1.2 SERIAL ADDRRES

- The cable must have 2 or 3 wires with shield, minimum section 0,5mm^2 (eg. the BELDEN 8772).
- From the XWEB 300 position the cable reaches all the instrument positions.
- Do not execute loops or derivations:

  Right connection

Wrong connection



- Always keep the serial cable away from power cables.
- Always keep the serial cable away from electro-magnetic or frequency sources.
- Do not connect shield to ground.
- Do not connect the "**Gnd**" terminal.
- Remember to draw a map of the line. This will help you to find errors if something is wrong.
- The instrument with RS485 have "**+**" and "**-**" terminals, respect the polarity.
- To keep the line balanced it is necessary a 100 Ohm resistor at the end of the line (you ca use the RS 485+ and RS 485- terminals of the last instrument connected).

2.1.3 THE TTL OUTPUT

- The instrument with RS485 on board do not need any kind of external interface module.
- For instruments with external interface: keep the TTL cable away from power cables or frequency sources.
- The XJ485 external interface must be connected with TTL cable to the instrument with TTL compatibility.

2.1.4 SERIAL ADDRESS OF THE INSTRUMENTS

- Each instrument must be defined by its unique address.
- Check the address into the **Adr** parameter value. Take reference to the instruction manual of the instrument itself to find the right procedure to enter the programming and set the value.
- The easiest way to work with the category functions is to set the addresses progressively for similar groups of instruments which have the same application.

2.1.5 COMPATIBLE INSTRUMENTS

For a complete list please read Appendix C.

2.1.6 LOCAL CONNECTIVITY THROUGH A SERIAL CABLE

It is normally used for the first setup of the unit. XWEB 300 is provided with the RS232 port for the PC connection through a standard serial cable. XWEB can also work without local PC, therefore after the first configuration is it possible to remove the local connection and to connect via modem.
For complete information on how to connect to the unit. please refer to the “Installation Guide”.

2.2 CONFIGURATION AND ACCESS

Before turning on the XWE3000 read these notes.

- The User interface is the same for both type of connections, therefore it does not matter if you are local PC connected via serial cable or point-to-point connected via modem.
- The local access via serial cable is the fastest way to work with the unit. Be sure the Pc-client is provided with Java Virtual Machine. Launch the Browser and insert the default address 192.168.0.100.

2.2.1 SYSTEM CONFIGURATION

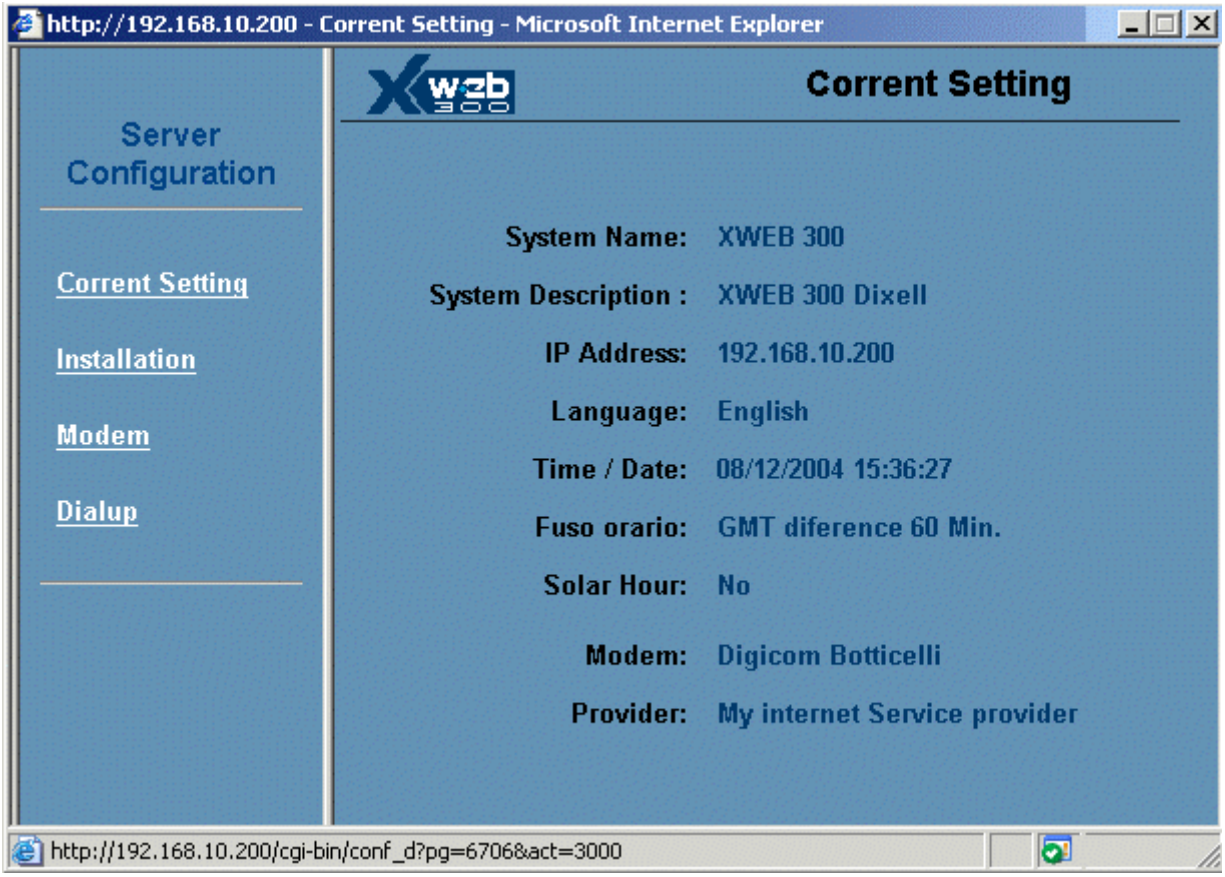
As soon as the power supply cable is plugged in, the system starts loading.
For few seconds power and alarm led blinks. When power led stops blinking, the system is ready.

After the first loading of the operative system, the user is required to setup the XWEB 300.

The first windows asks you to log-in to the system. **Use dixell as "User name" and "Password".**

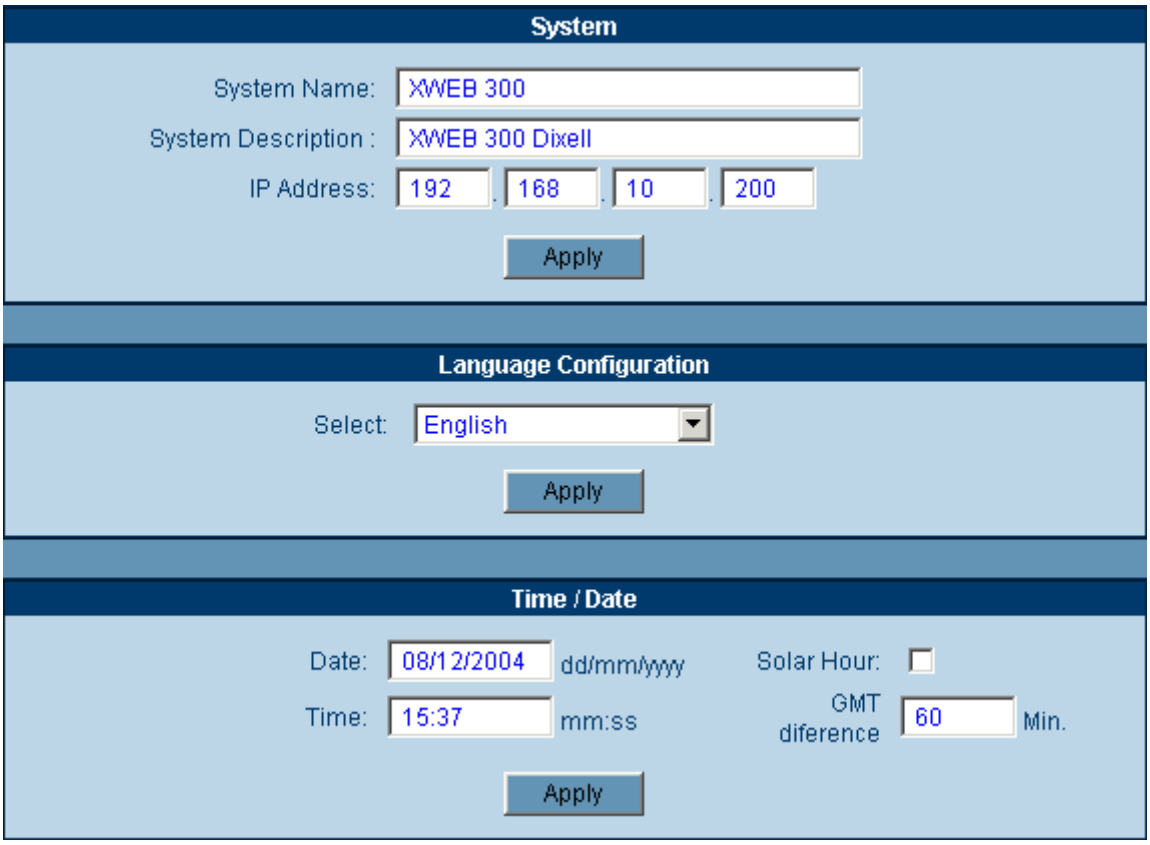
2.2.2 XWEB 300 SETUP

Click on "Configuration" -> "System" roll-down menu. This window will appear:



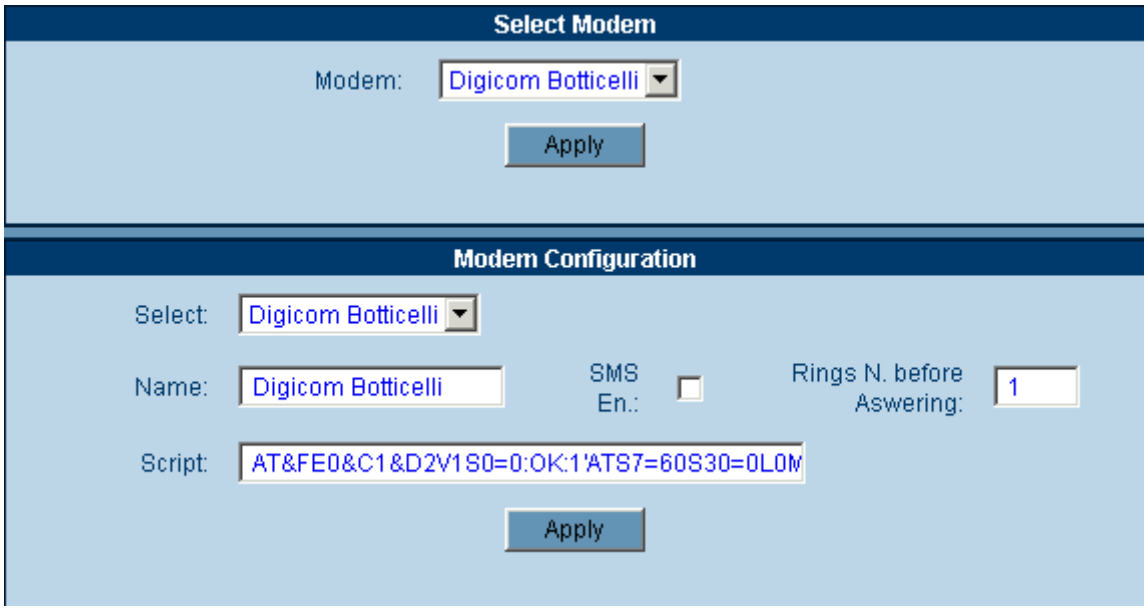
Click on "Installation" to adjust System name, description and IP Address. The default IP is 192.168.0.100, if you change it, please refer to this new number each time you encounter the default IP inside this manual.

Setup correct Time/Date values. They are important because the system will use its time stamp to record and send alarm.



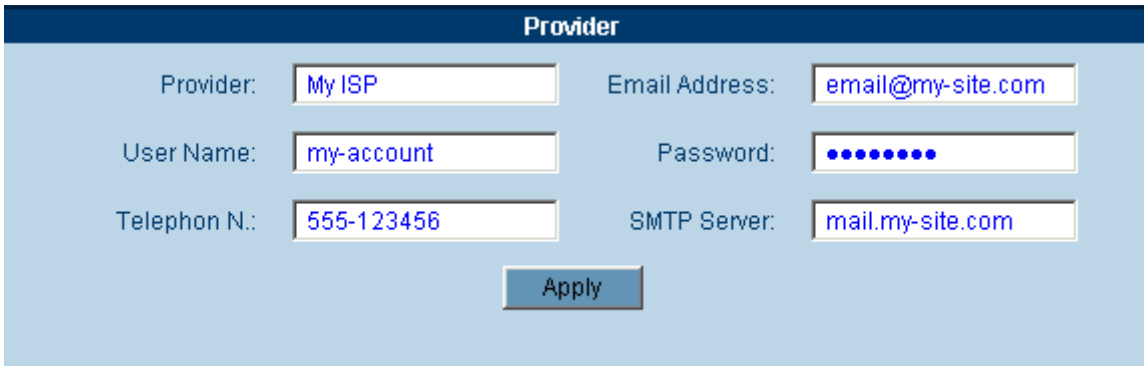
2.2.3 MODEM SETUP

Click on “Modem” and chose the one you have connected to the serial socket on the back of the unit. If you use a GSM modem and you want to send SMS, check this option. XWEB 300 uses modem for sending e-mail, faxe and SMS. Moreover the user can reach the monitoring unit via a modem dial-up connection.



2.2.4 DIALUP SETUP

Click on “Dial up” to proper setup the internet connection for sending e-mails. You need a valid internet account, then fill in all the field. If you do not have a valid SMTP Server, once connected to the Internet, XWEB 300 will try to send the e-mail directly to the receiver. This type of operation is NOT support by all ISP (internet service provider). For this reason it is strongly recommended to use a valid SMTP.



3 USING THE XWEB 300

3.1 SYSTEM LOG-IN

Once the connection is activated, insert the IP number into the address bar of your browser.
The first window shows the Login with User Name and Password fields.

If the name and the password are correct the Home Page is loaded otherwise you must repeat the operation: check your password (numbers, capital letters etc.). Remember that default Administrator can log to the unit using:

- **User name:** dixell
- **Password:** dixell

Please consider to change the default password to increase system security (everybody can reads this manual and steals the admin account).

ATTENTION: After the first installation is complete, the XWEB 300 user database is made of 1 administrator and 2 users. Please go to Configuration -> Users roll-down section to ensure proper security rights to each users.

3.2 HOME PAGE

When the Home Page appears the connection is effectively working.
Depending on the used password the User can operate on the server with or without limits decided by the Administrator of the XWEB 300.

- The user defined as “Administrator” is the only one allowed to modify everything inside the Server. The other users operate with their permission rights (see “§3.7 permissions”).

3.2.1 IDENTIFICATION / TIME

- **Name**
- **Description**

These items represents the name of server and its description.

- **Time**

Clock read-out of the server (internal Real Time Clock).

3.2.2 SERVER PROPERTY

- **Server** Linux version
- **Resources** Level of used memory
- **IP adr** Address of the server
- **Data log:** It shows the used amount of total memory available for storing data.

- **Data reading** Reading activity on RS 485 controllers.
- **Recording** Recording activity on RS 485 controllers.
- **Alarm transmission** Alarm transmission status

- **Last connection**
- **Last users**

- **Server Status**

3.2.3 ALARMS

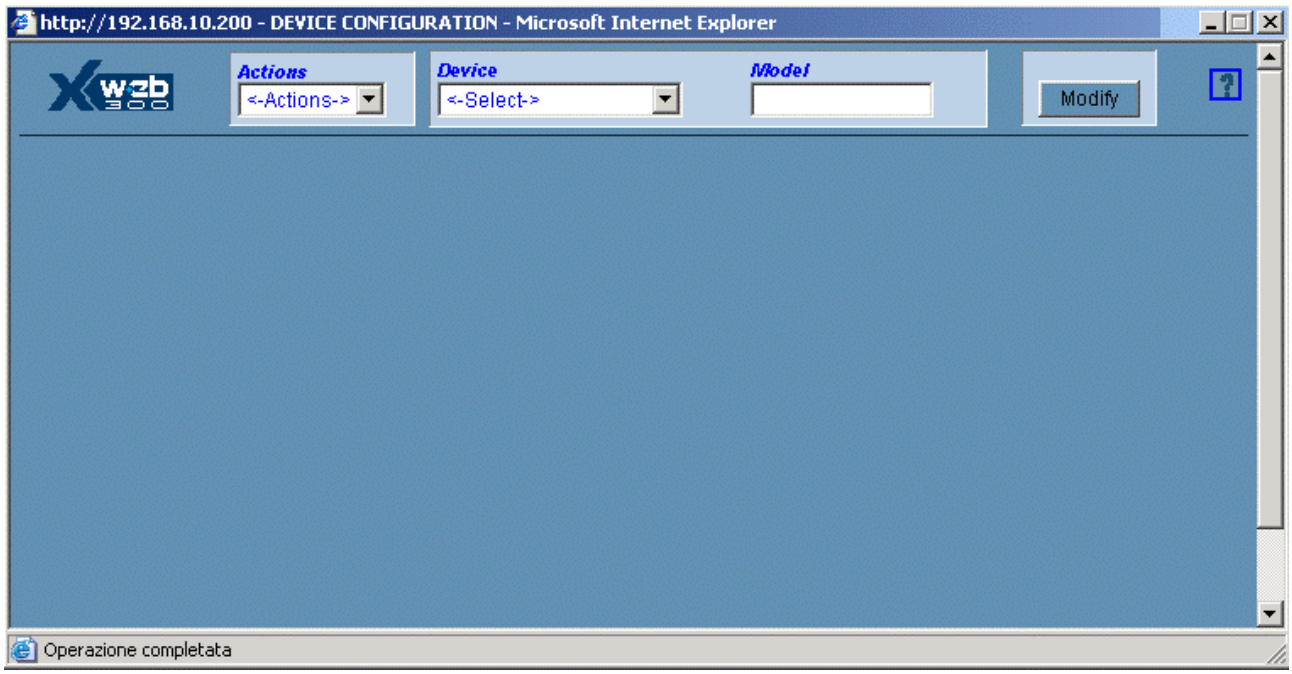
This area immediately on the right hand side shows the system or the instrument active alarms detected during the connection.

The alarm list is repetitively updated in short time intervals.
To manually force the alarm updating: click on the "Actual Alarms"

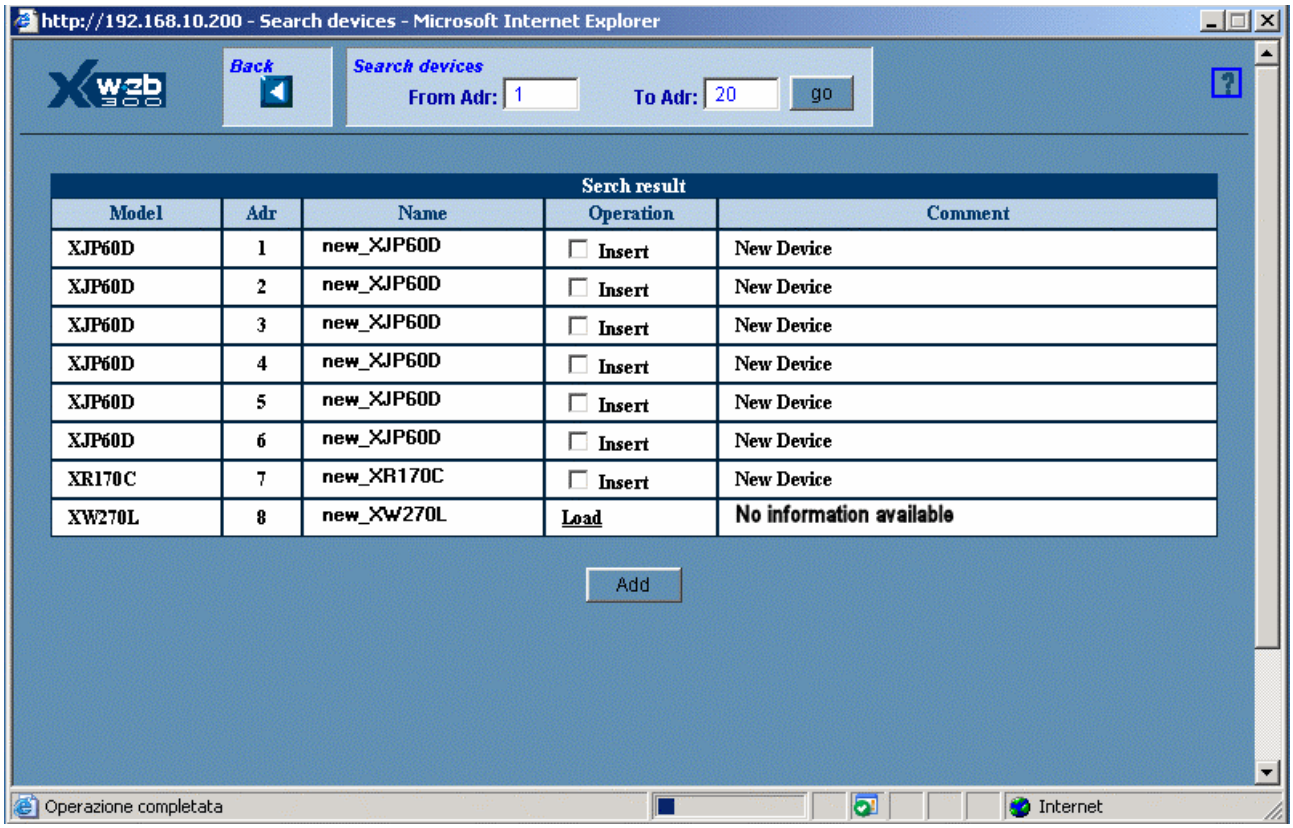
3.3 CONTROLLERS SETUP

3.3.1 DEVICE FIND OF THE INSTRUMENTS CONNECTED TO THE "485" SERIAL LINE

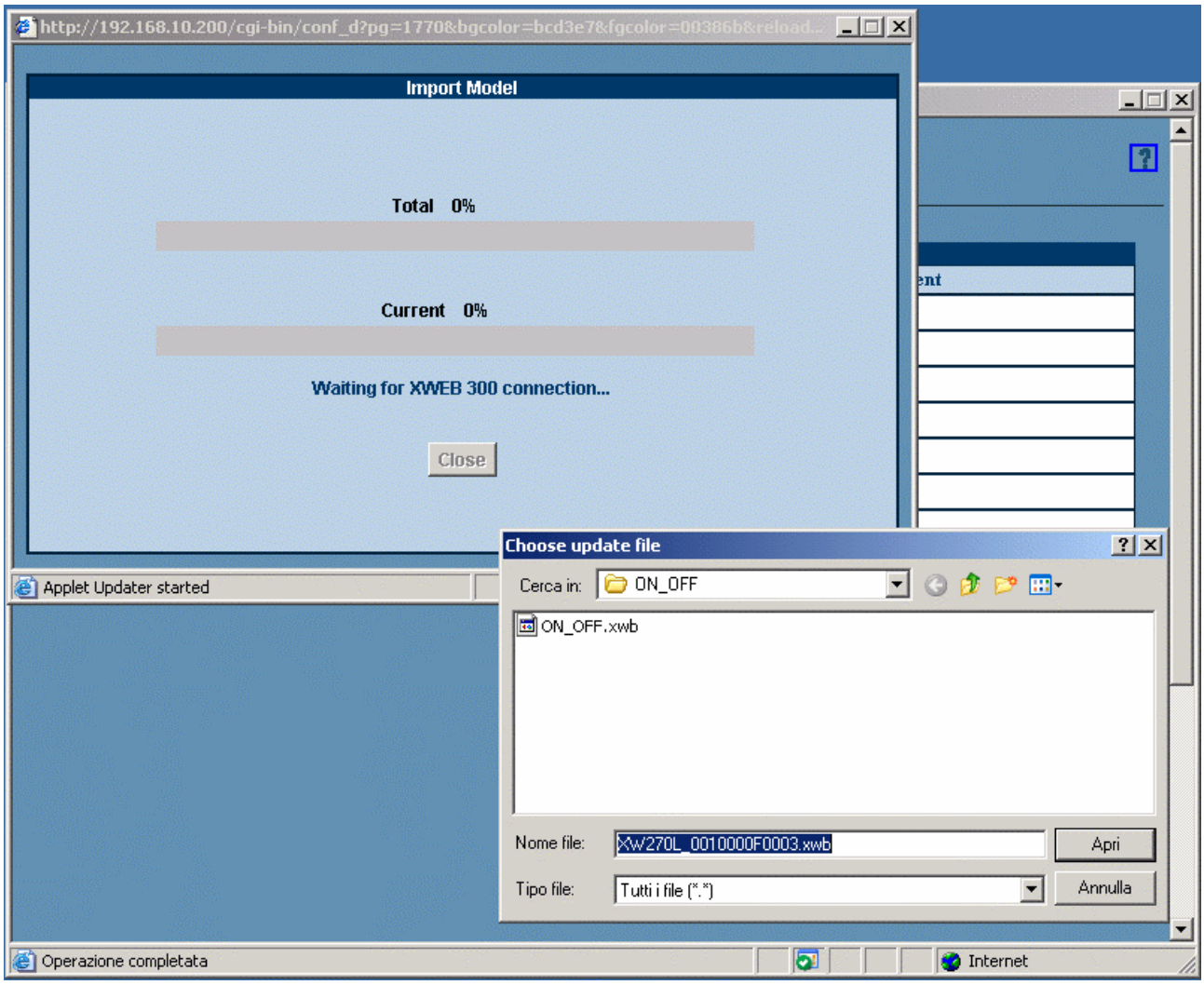
The unit is capable to find the Dixell instruments connected to the RS485 serial line.
Before starting the procedure be sure that all the devices are properly connected to the RS485 line and the corresponding addresses are properly set. Be sure that all the instruments are properly supplied.
Be sure of the number of the instruments you are going to find to avoid losing time in counting them later.
To start the procedure, first click on "Data recording" and uncheck all values, push modify. Click on "Configuration -> "Devices" roll-down menu. A new page loads.



Use "Actions" roll down-menu and chose "Search…". Adjust the address range and push "Go". During the RS485 polling Tx/Rx led blinks. When the search is complete a new window will appear.
Depending on the system information regarding the controllers connected to the serial line, under "Comment" column XWEB 300 show you the actual status. In the following example models XJ60P and XR170C are already present inside the unit, while XW270L is recognized but the system can not handle it.



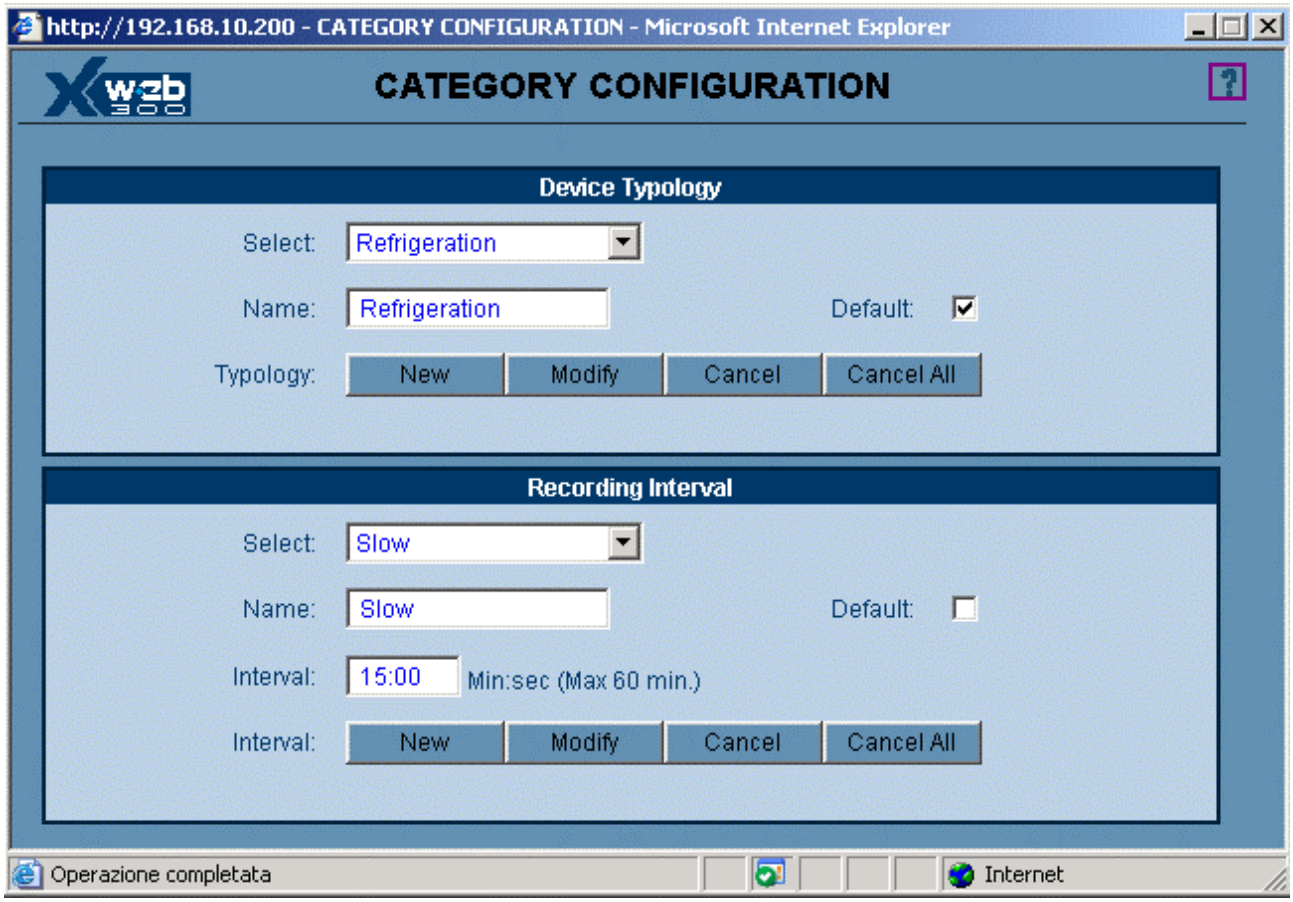
To use the new controllers, under “Operation” column check the box “Insert”, then push “Add”. If some information is missing, click “Load”. A new window will appear asking you for a file containing the setup for new controllers .



Windows operating system ask you for the correct file. Use the window “Choose update file” to browse your PC and find out the file. Inside the setup cd-rom available with this monitoring unit you will find the latest controllers information available.

3.3.2 CATEGORIES

This function allows to define the functioning attributes and the working features to be associated to the instruments themselves. The user is required to preventively decide the list of these features.
Lately, when working with the Device configuration, each device can be easily configured with these appropriate attributes. Some categories can be defined also with “Default”. In this case the category is initially proposed as default during the instrument configuration.
Click on “Configuration” “Category” roll-down menu.



3.3.2.1 DEVICE TIPOLOGY

This category defines the application at which the instruments belong to. Up to 5 different category can be defined.
Eg: “Display cabinets” “Frozen food”, “Meat Room”, “Air Conditioning”, etc.

- **To insert a new item**
  Click into the field “Name” and insert the word or the words that more represents the application;
  The most common category should be set as “Default” by clicking into its box; It helps to save time for most part of the instruments.
  Only one “Default” can be selected for each category;
  Click “Insert” do include the new item into the list. Wait the screen refresh.
  The “ Default” one is checked on the right hand side.
- **To modify an existing item**
  Select the item from the “Selection” list;
  Change the “Name” description;
  Click the “ Default ” if necessary;
  Click on “Modify”. Wait the screen refresh.
- **To delete one of the item of the list**
  Select the item from the “Selection” list;
  Click on “Cancel”;
  Confirm the operation if necessary. Wait the screen refresh.
- **To reset all the items of the list**
  Click on “new”;
  Wait the screen refresh.
- **To delete all the items of the list**
  Click on “Cancel All”;
  Confirm the operation if necessary. Wait the screen refresh.

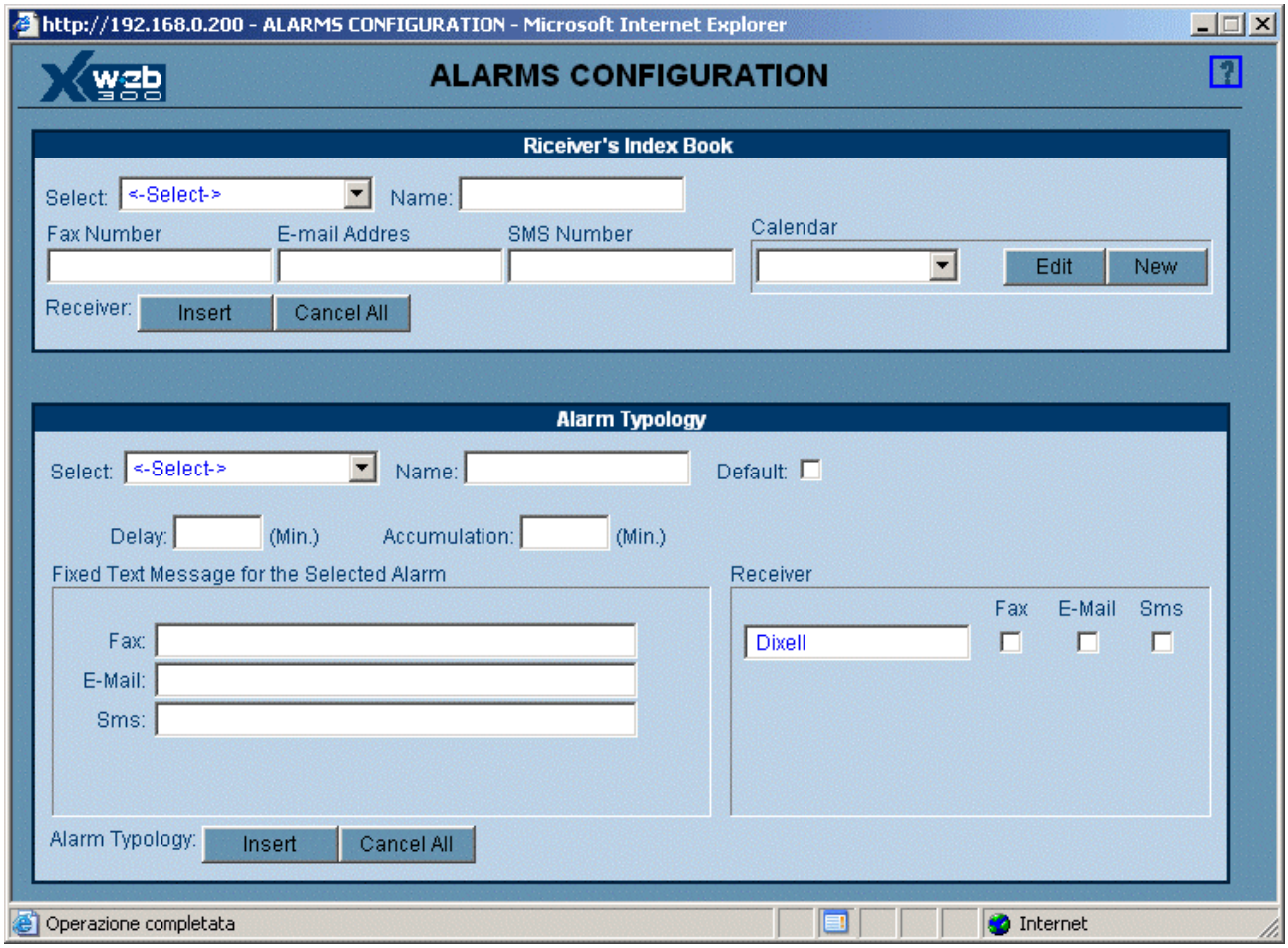
3.3.2.2 RECORDING INTERVAL

Define the recording intervals of the instruments to log the data into the archive. Up to 5 different time interval can be defined.
Eg: “Standard = 15min.”, “Fast = 3min.”.
XWEB 300 can define different log intervals for different instruments when the log frequency is not the same for all the instruments.

- **To insert a new item**
  Click into the field “Name” and insert the word or the words that more represents the application;
  The most common category should be set as “Default” by clicking into its box; It helps to save time for most part of the instruments.
  Only one “Default” can be selected for this category;
  Click “Insert” do include the new item into the list. Wait the screen refresh.
  The “ Default” one is checked on the right hand side.
- **To modify an existing item**
  Select the item from the “Selection” list;
  Change the “Name” description;
  Click the “ Default ” if necessary;
  Click on “Modify”. Wait the screen refresh.
- **To delete one of the item of the list**
  Select the item from the “Selection” list;
  Click on “Cancel”;
  Confirm the operation if necessary. Wait the screen refresh.
- **To reset all the items of the list**
  Click on “new”;
  Wait the screen refresh.
- **To delete all the items of the list**
  Click on “Cancel All”;
  Confirm the operation if necessary. Wait the screen refresh.

3.3.3 ALARMS

Setting up the alarm section is one of the most important part of the entire configuration procedure. The user is required to create a list of receivers and define all the alarm typologies to use later during the controllers setup.



3.3.3.1 RECEIVER'S INDEX BOOK

The list of the destinations contains the users (directors, maintenance personnel, assistance etc.) enabled to receive the alarm notification. Up to 5 different receivers can be defined.
The XWEB 300 is capable of transferring the alarm message through sms, e-mail and fax. Depending on the real alarm setup the user has decided to use, the message can arrive immediately or after an accumulation time. The delay time is intended to prevent massive messages sending. If an alarm last less its delay time XWEB 300 will not send it. This alarm is only stored inside the historical alarm archive.

- **To insert a new receiver**
  Click into the field "Name" and insert the appropriate word or words. Click on "Insert" to add this new value.
- **To change the setting**
  Click into Selection and find the desired item from the list.
  Click into the desired fields and change them with the appropriate values.
  Click on "Modify".
- **To delete an item**
  Select the user to delete.
  Click on "Cancel".

- **To delete all the items of the list**
  Click on “Cancel All”;
  Confirm the operation if necessary. Wait the screen refresh.
- **To reset the form**
  Click on “new”.

For each receiver the calendar function is also suitable to enable the alarm sending procedure only during certain period of time.

3.3.3.2 ALARM TYPOLOGY

The alarm typology is a list of alarm events designed by the user to describe the possible alarms that the instruments can generate.
In this way similar alarm events can be grouped together under a unique identification label, so high and low temperature alarms can be defined as “Temperature alarms” or the high and low pressure alarms belong to “Pressure alarm” identification. Up to 5 different alarms typology can be defined.

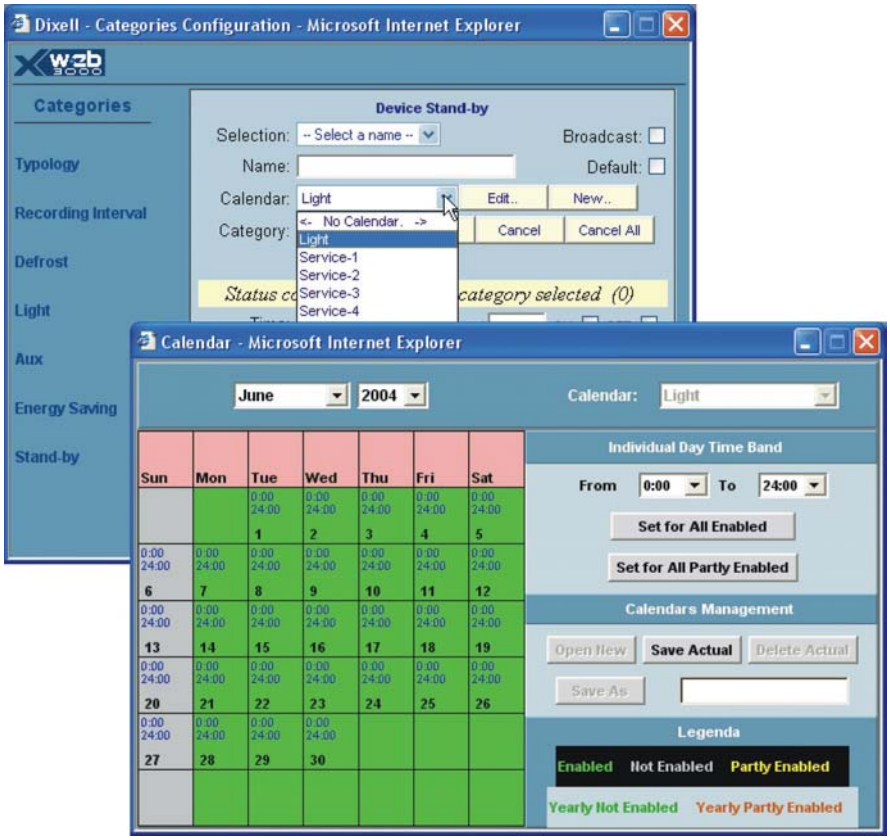
- **To insert a new typology**
  Click into the field “Name” and insert the appropriate word or words. Decide a proper delay and accumulation time. Write the fixed text message for e-mail, sms and fax. Check on “Receiver” box to which receiver this alarm has to be sent. Decide if this alarm is the default one.
  Click on “Insert” to add these new values.
- **To change the setting**
  Click into Selection and find the desired item from the list.
  Click into the desired fields and change them with the appropriate values.
  Click on “Modify”.
- **To delete an item**
  Select the user to delete.
  Click on “Cancel”.
- **To delete all the items of the list**
  Click on “Cancel All”;
  Confirm the operation if necessary. Wait the screen refresh.
- **To reset the form**
  Click on “new”.

3.3.4 CALENDAR FUNCTION

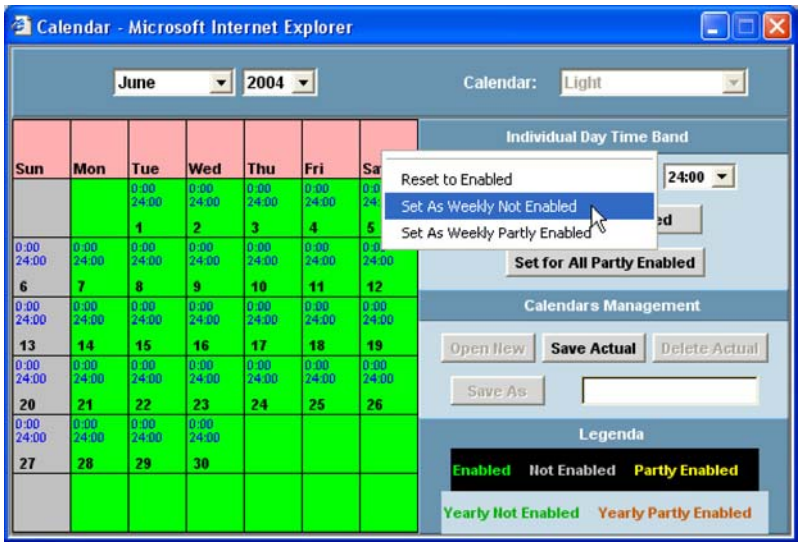
The Calendar function is used to define if a function or a single event is active or not in the selected period of time.
Therefore the Calendar is suitable to include/exclude certain period of the day, month or year when it has to interact with some XWEB 300 procedures or for instance if the maintenance personnel is working on the unit.
The resource (or any programmed procedure that the XWEB 300 has to follows) related to a Calendar is available “Enabled” only during the selected periods otherwise it is “Disabled” and it does not work.
The XWEB 300 use the Calendar as filter before activating the resource itself, if the resource is not Enabled in that period nothing happens.
The alarm procedure to inform an Assistance Centre or the light on function can be override by their appropriate Calendar programming.
The number of Calendars is not limited and each Calendar can manage more than one resource.
The Calendar is based on a weekly list extended for all the month, the tile colour shows the function related to that day

The day are divided in:
- Enabled → Green colour;
- Partly Enabled → Yellow colour;
- Disabled → Grey colour.

Disabled day represent the 24 ore where the resource is not active (eg holiday).
Enabled and Partly Enabled days can accept the period of activity of the resource.

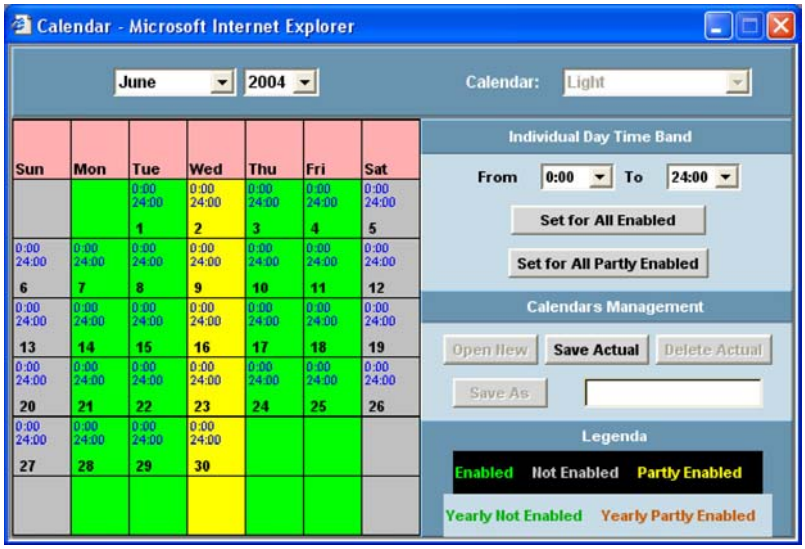


- **Setting the daily period activity for all the week**
  (Eg: define Saturday and Sunday as Disabled, Wednesday as Partly Enabled).
  Select the appropriate month:
  Point the mouse arrow on the rose tile “Saturday”.
  Click with the left button and then set the value as “Weekly not Enabled”. The tiles become Grey.

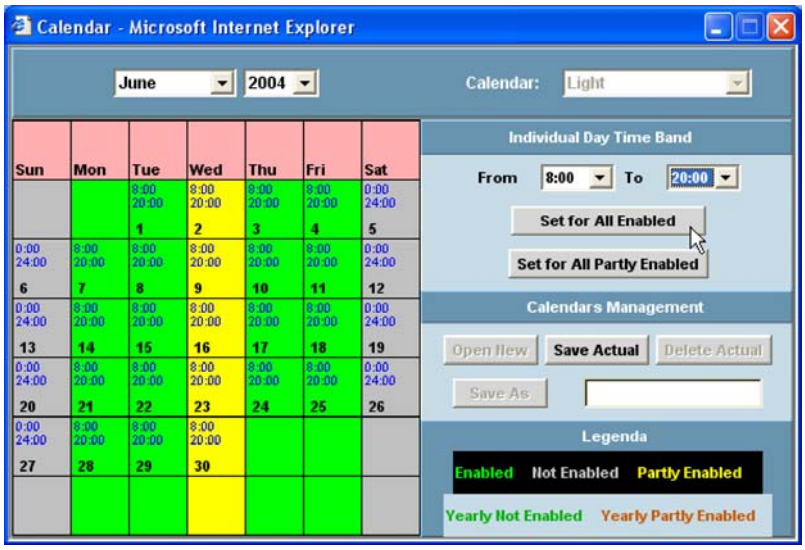


Repeat the operation for “Sunday”. The tiles become grey.

Click with the left button of the mouse on the rose tile “Wednesday” and select “Set As Weekly Partly Enabled”. The tiles become yellow.

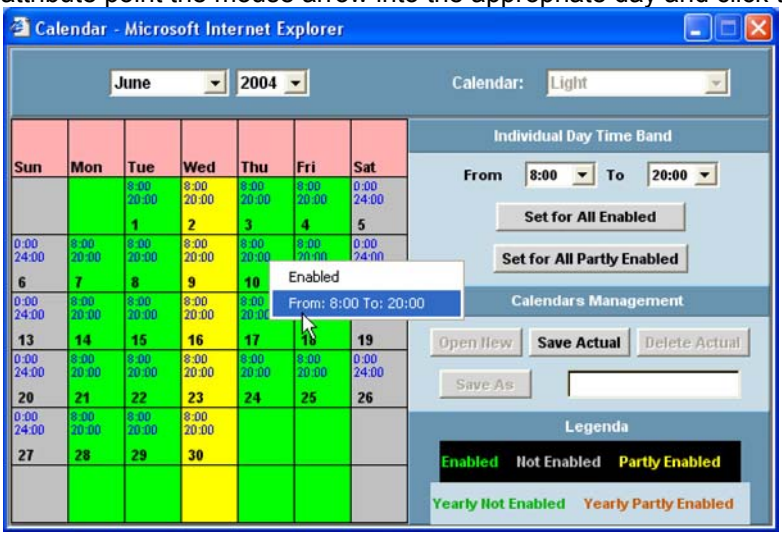


- **Define the period of activity of a day**
  (Eg: from 08:00 to 20:00 for Enabled day and from 08:00 to 13:00 for Partly Enabled).
  Under the “Individual Day Time Band” click into “From” and set 08:00 then click into “To” and set 20:00.
  Click on the button “Set for All Enabled” to active the new period for the Enabled day.

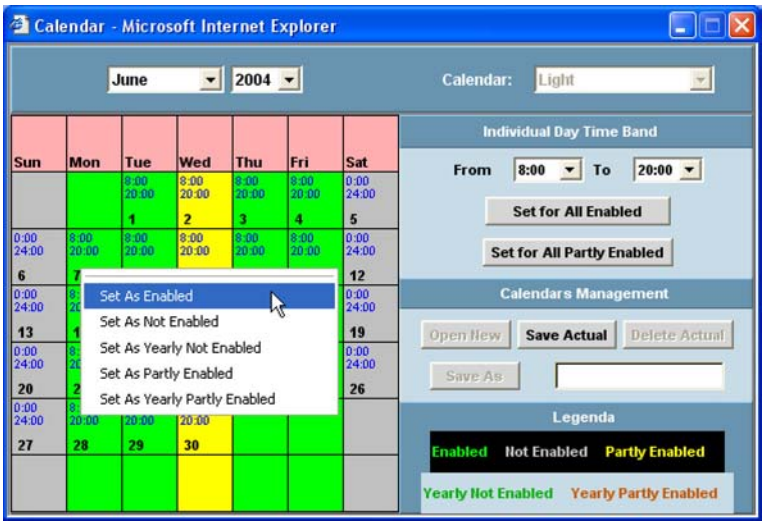


All the working days (Enabled) will follow the new times.
Repeat the same operation to define the new period for the Partly Enabled days but clicking on " Set for All Partly Enabled "

- **DAY ATTRIBUTE**
  To verify the day attribute point the mouse arrow into the appropriate day and click the right button.



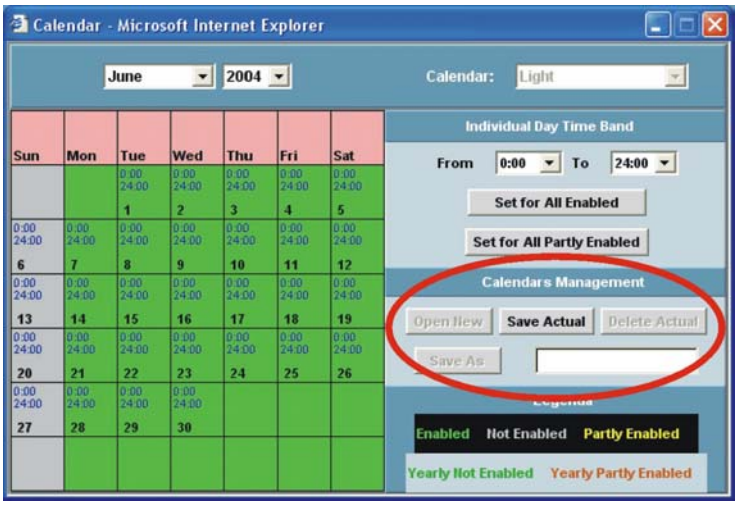
- **Single day setting**
  The attribute of a single day can be defined as follow:
  Point the mouse arrow into the appropriate day;
  Click on the left mouse button and select from the list the new attribute:
  Set As Enabled → Only that day as Enabled.
  Set As Not Enabled → Only that day as Not Enabled.
  Set As Yearly Not Enabled → Only that day as Enabled for all the years.
  Set As Partly Enabled → Only that day as Partly Enabled.
  Set As Yearly Partly Enabled → Only that day as Enabled for all the years.



- **Select a limited period of days**
  To define a common attribute only to some days.
  This allows to set a holiday period for one or more desired months of the year.

  - Point the mouse on the first day desired, click the left button.
  - Keeping the left button pushed move the pointer slightly through the next days to be included.
  - Release the mouse button and select the proper attribute, all the selected tiles will change into the new corresponding colour.

- **Calendar Management**
  Under this section the three button allows to save a new calendar format, load or delete it.



Open New: to create a new calendar. As default Sunday and Saturday are not enabled.
Save Actual: to save the new or modified calendar structure.
Delete Actual: to delete the displayed calendar.
Save As: to save the displayed calendar with a new appropriate name.

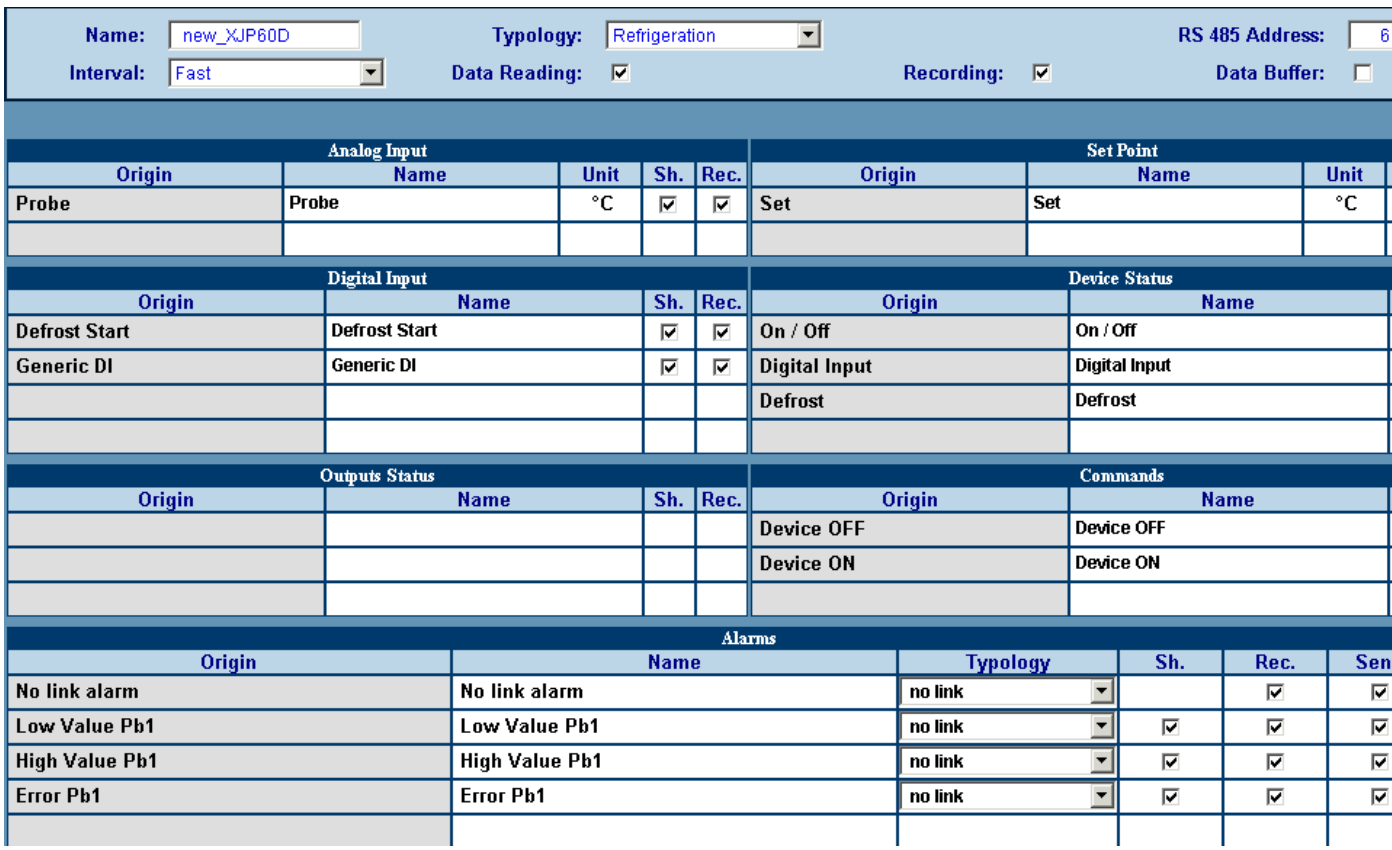
3.3.5 DEVICE CONFIGURATION

The configuration of the devices allows to assign the appropriate monitoring system attributes.
The configuration is subordinated to the manual or automatic search procedure to create a list of the available instruments.
For each kind of instrument the XWEB 300 will show only the peculiar information of the controller itself and the attributes of the available digital and analogue inputs of the instrument. Only this part of configuration admits the association of the categories previously defined such as the alarms, typologies and time recoding.
If during the configuration it is necessary to use a category to associate to a new feature of the instrument but the category it is not present, the user can step back into the Categories menu, create the new category and then restart with the device configuration.

3.3.5.1 SELECT A DEVICE

Please go to “Configuration” -> “Devices” roll-down menu. This window will appear:

By using “Device” drop-down menu you can select which controllers to show.

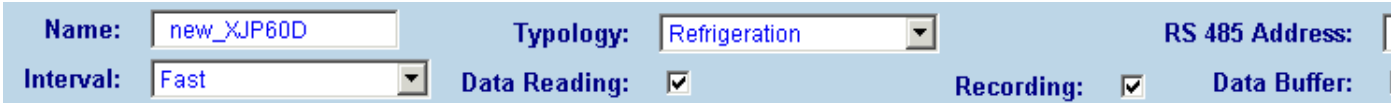


If the instrument has not been already renamed the identification name is: “New_Model-name” where:

- “New” means that the name has been assigned automatically by the system;
- “Model-name” define the instrument model.

Instead of “xxx_New_Model” the user can insert the new appropriate name for this instrument.

3.3.5.2 ASSIGN THE NAME OF THE CONTROLLER



After selecting the device, click into the “Name” field. Insert the new name such as “Frozen food_001”. Assign the proper sampling “Interval”, decide if you want to read and record data from this instrument by checking/unchecking “Data Reading” and “Recording” boxes.
“Data Buffer” is an useful function that stores with the maximum speed available lots of data values (regardless of sampling interval) when an alarm occurs. Ten minutes of data vlaues before and 5 after the alarm are recorded at maximum speed if “Data Buffer” box is checked.

Click “Modify” now or at the end of the whole configuration.

3.3.5.3 ASSIGN THE CATEGORY TO THE DEVICE “DEVICE CATEGORY SETUP”

Be sure of having selected the right instrument under the “Device” menu.
Depending on the instrument model there are different available categories to define the attributes of the instrument itself. If you do not find the right one maybe it is not defined or it is not available for that instrument. By itself XWEB 300, after the recognising procedure, assigns the default categories (if you checked the box in category window) to the devices connected to the RS 485. To change the category click inside the field and select the appropriate item.

Click “Modify” now or at the end of the whole configuration.

3.3.5.4 ASSIGN THE ALARM TYPOLOGY

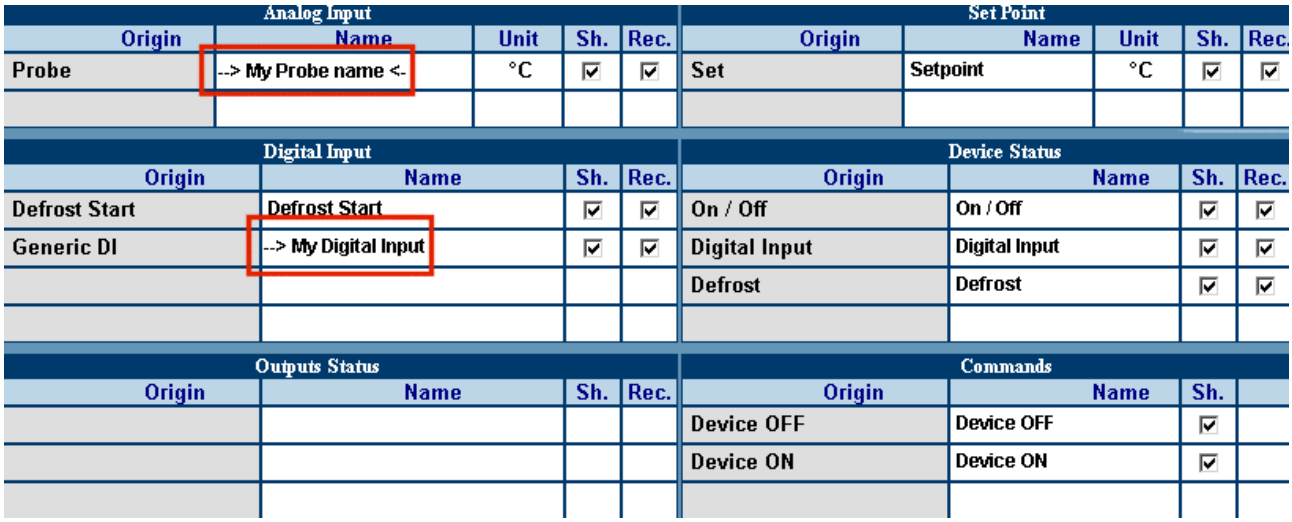
Alarms					
Origin	Name	Typology	Sh.	Rec.	Send
No link alarm	No link alarm	no link		☑	☑
Low Value Pb1	Low Value Pb1	Temperature Alarm	☑	☑	☑
High Value Pb1	High Value Pb1	Temperature Alarm	☑	☑	☑
Error Pb1	Error Pb1	Generic Alarm	☑	☑	☑

Be sure of having selected the right instrument under the “Device” menu.
ALARM ORIGIN: depending on the instrument model there are different available alarms, if you do not find the right one it means that it is not available for that instrument.
NAME: each alarm can be assigned with an appropriate label defined by the user, this label is also used when it is displayed by the system. Click inside the “Name” and modify it.
TIPOLOGY: links alarm type to the proper Alarm typology.
If you do not find the proper action in it, step back to the Alarms definition to insert the new features into a new alarm typology.
SH (Show): when it is enabled th alarm is showed in main page.
SND (Send): when it is enabled the alarm is sent by XWEB 300.
REC (Recording): when it is enabled the corresponding alarm is logged.

Click “Modify” now or at the end of the whole configuration.

3.3.5.5 DEFINE THE DIGITAL, ANALOGUE INPUTS AND THE STATUS

The middle area is dedicated to the analogue inputs (probe), setpoint, digital inputs, devices status, and commands assignments.



Analog Input				
Origin	Name	Unit	Sh.	Rec.
Probe	--> My Probe name <-	°C	☑	☑

Set Point				
Origin	Name	Unit	Sh.	Rec.
Set	Setpoint	°C	☑	☑

Digital Input			
Origin	Name	Sh.	Rec.
Defrost Start	Defrost Start	☑	☑
Generic DI	--> My Digital Input	☑	☑

Device Status			
Origin	Name	Sh.	Rec.
On / Off	On / Off	☑	☑
Digital Input	Digital Input	☑	☑
Defrost	Defrost	☑	☑

Outputs Status			
Origin	Name	Sh.	Rec.

Commands		
Origin	Name	Sh.
Device OFF	Device OFF	☑
Device ON	Device ON	☑

NAME: The first time each name is displayed by following the internal XWEB 300 archive of standard feature of the instruments. Each definition can be renamed when necessary to give the proper meaning. Beware of the difference between integer and decimal value. Instruments are factory preset to decimal point, so if you change this value to integer you need to make the same change inside XWEB 300. All default labels are intended as decimal, when you change to integer a postfix "-I" is shown. It may happen that you move to integer using advanced properties (see Appendix A), then coming back to label name and changing it without using "-I" you completely loose the information you are displaying integer. This may be a problem because when you come back to advanced section there is no more difference between decimal and integer.
To change a name simply click inside its field and modify it.
Unit: The analogue input is followed by the proper unit of measurement, change the unit by clicking in it then insert the new value. Beware that in this window you can change only the label of the unit of measurement. In Advanced section you can change the behaviour of the instrument (e.g. Celsius or Fahrenheit degree)
Sh.: when it is enabled the value is computed and displayed.
Rec.: when it is enabled the value is logged.

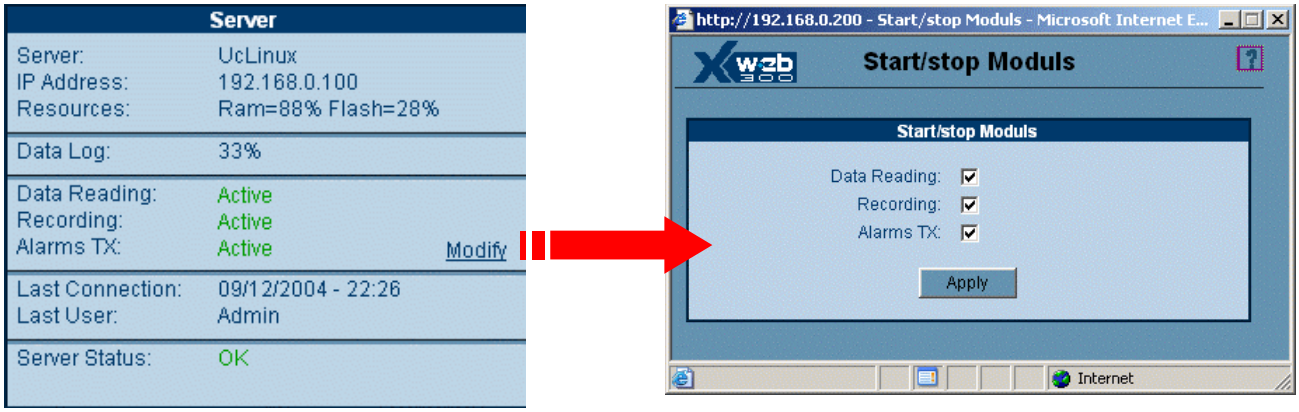
Click "Confirm" now or at the end of the whole configuration.

- **Delete one device from the list**
  Stop acquisitions. Select the instrument to delete.
  Click on "Cancel" in "Action" menu.
- **Advanced function**
  The "Advanced" key allows to reach another configuration area dedicated to the instrument setup.
  This area is very dangerous because this configuration defines important features that can badly affect the unit if not properly set.

  Take care of this advise and ask authorised personnel before trying any kind of setting.
  You can find more complete information in Appendix A.

3.4 STARTING MONITORING DATA

At this point it is possible to start the server. Click on “Modify”. This new window will appear



Check/uncheck the proper action and push “Apply”.

Data reading:	XWEB 300 will only read data coming from RS 485.
Recording:	XWEB 300 will record data coming from RS 485.
Alarms TX:	XWEB 300 will send alarms coming from controllers.

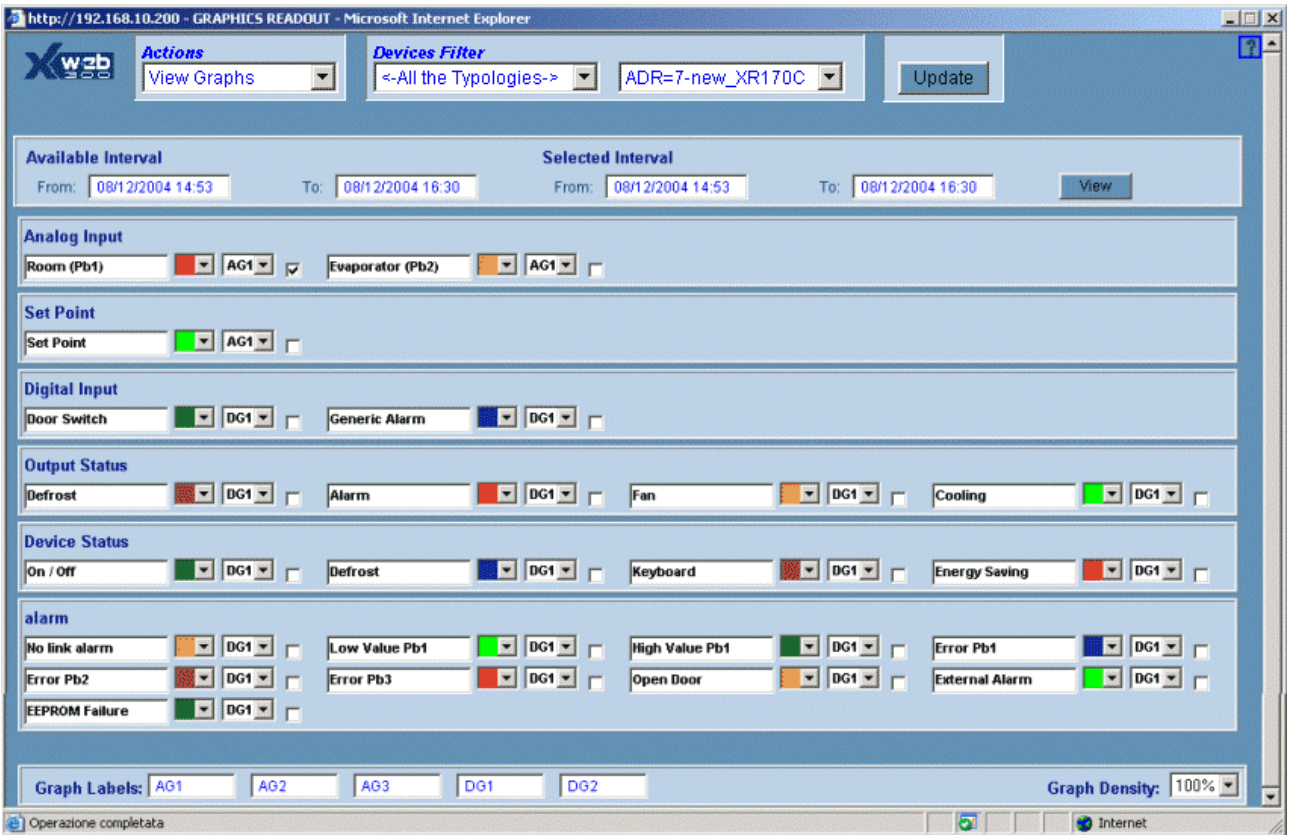
3.5 XWEB 300 ARCHIVES

You can access data information from the roll-down menu “Data” -> “Graphs”.

Graphs is a file containing all the instrument data recording, the time interval used for these recordings is defined into the category “Recording interval”.
This archive grows time by time depending on the number of instruments and it can become very large occupying the available memory contained into the server.

3.5.1 DISPLAY THE GRAPHS

With “Data” menu you can access Graphs section, then select the desired controller from the filter lists of the Device typology. After selecting the controller, the screen will show all the available data which the instrument is provided with.



The first information about the archive shows into “Available Interval” the first and the last recording date, while the “Select Interval” includes the period you can decided to show.
If necessary, modify the Select Interval period.
Longer is the time interval to show, longer the loading time needed to show the data graph.
For a first analysis select a time period not so wide but centred on the target of your interest, this ensure higher graph precision. You can also act on “Graph Density” parameters to decide if you need all data samples. This feature is very useful if you are connected via modem at a slow speed.

You have many rows: Analog Input – Setpoint – Digital Input – Output Status – Devices Staus - Alarm.
The number of the rows depends on the controller type.
For each of them you can graphs as many values as you want. The only limitation is 3 analog values and 2 digital ones.

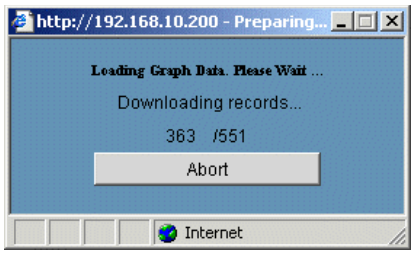
For each selection is possible to decide the colour of the line that will be represented.
It is also possible to group the analogue inputs into a unique graph or to display them into separated ones. For example if you want to display all data using only one graph, select for each value AG1 from the roll-down menu, then in “Graph labels” write some words reminding you the meaning of the graphs. On the other side if you want to display the values in different graphs, you have to chose AG1 for the first values, AG2 for the second and AG3 for the third.
Remember that each graph can be renamed by the user with an appropriate name into the corresponding “Graph Labels” situated into the low side of the page.

Before clicking the command “View” it is possible to define the graph density to decide the resolution of the lines and recordings. Select the box “ Graph Density”.
Higher is the value of this parameter better will be the graph resolution, but longer the downloading time from the XWEB 300.

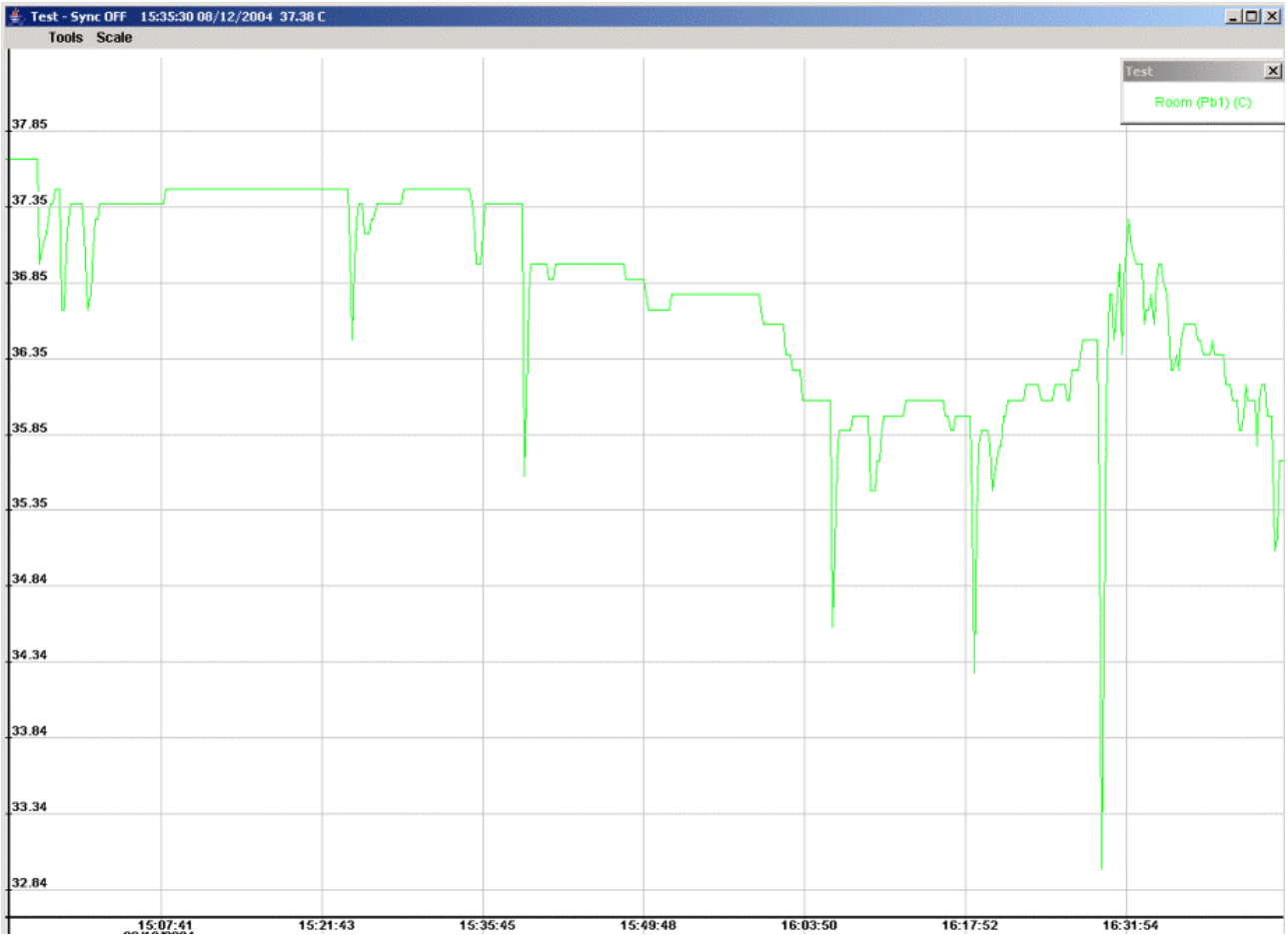
Now Click on “View” to start the transferring process of data from the XWEB 300 to your PC.
The displaying structure is based on a Java Applet and the Java Virtual Machine program installed into the remote PC that computes the data coming from the XWEB 300.
Depending on the Virtual Machine version installed a message to accept the term of use will appear during the operation.

Dixell S.p.a.. guarantees that the software is free from viruses and the request can be accepted.

The counter signals shows the status of the data you are downloading



At the end you will see the graph.

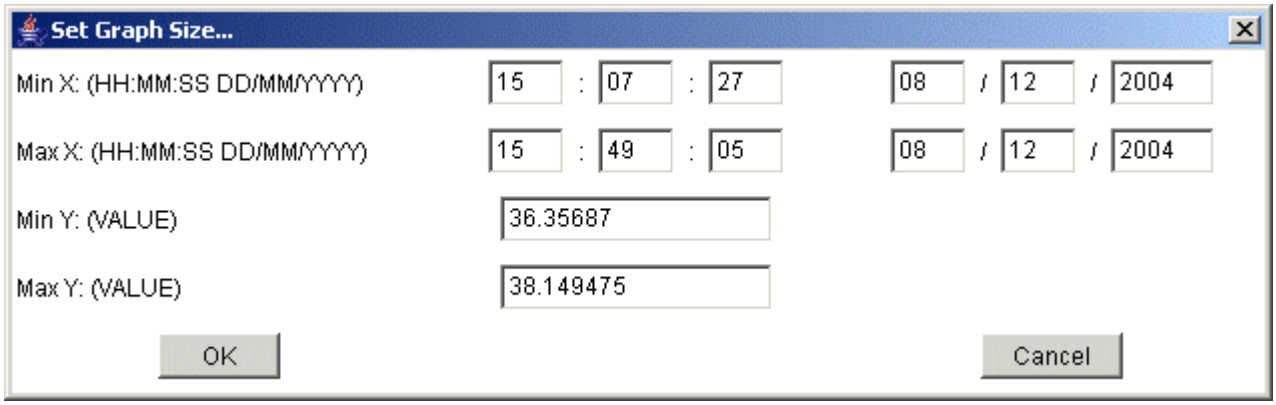


- **Zoom in/out procedures**
  Before executing the zoom it is necessary, if there is more than a graph displayed, to select the desired graph.
  Click, with the left button of the mouse, into the top bar of the information of graph itself.
  To zoom in you just have to keep pressed to left mouse button.
  To zoom out you just have to keep pressed to right mouse button

- **Zoom into an area**
  To enhance the portion of a displayed graph click and keep pressed the left button of the mouse on the hypothetical top-left corner of the area to zoom.
  Than drag the mouse down to the low right corner to complete the window to zoom. If the selected area have not the proper dimensions click one time outside the area itself to abort the zoom, then repeat the operation to select the area to zoom.
  Otherwise, if you click one time with the left button inside the selected area, immediately this area will be zoomed to the borders of the graph.

- **Back to the original size**
  To resize the graph to its original dimension select from the “Scale” menu the “Reset Size” option.

- **Manual Scale**
  The first time the graph is displayed with an “auto scale” function defined by highest and lowest peek and the whole interval time selected.
  Do define a personal scale of the graph view select from the “Scale” menu the “Manual Size” item.
  The next windows will show the X and Y scale limits that the user can adapt to his requirement.



- **Graph Synchronism**
  When a instrument information are displayed into 2 or more graphs, all the horizontal time axes are synchronised together.
  By zooming only one of the graphs the result is that the other are no more synchronised with the new time base.
  To keep all the graph synchronised you can use the “Sync” function from tools menu
  Select it for each graph that has to be included into the synchronism function, then zoom into one of them. You can notice that all time axes are now synchronized

- **Graph info**
  The graph information area is immediately displayed with the graph itself.
  If necessary move or drag it where it does not cover part of the interested area.
  To close the information window click on its crossed button.
  To make it appear again select “Legenda” from the “Tools” menu.

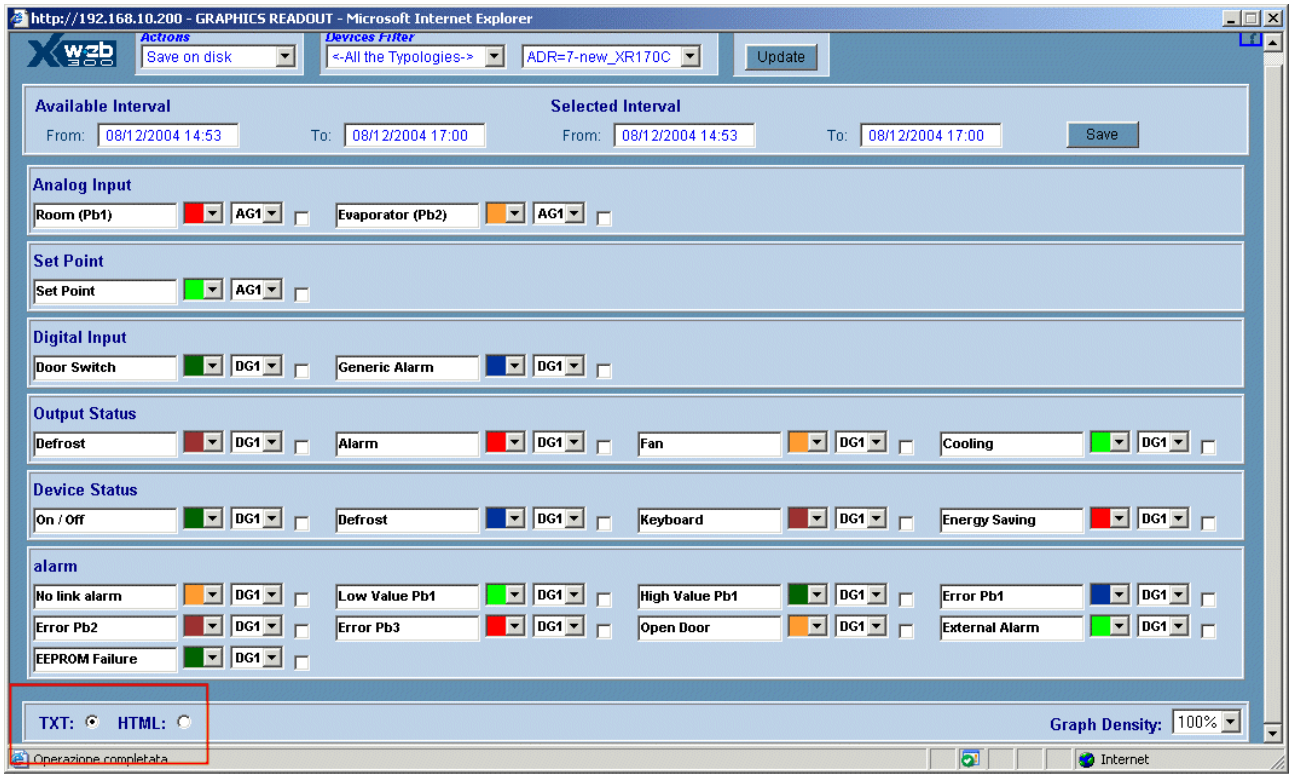
- **Save a graph format**
  This function provides to save the data of the displayed graph into the hard disk of the client computer connected to XWEB 300.
  To start the operation select “Save” from the “Tools” menu.
  After that you can proceed by using the typical saving method of Windows operative system, remember to assign a proper name and origin of the data. On the bottom left side of the window ypou can decide which data format to save: text (TXT) or html.

- **Load a graph**
  Chose this option to load a graph previously saved.

- **Print a graph**
  To print a graph on the printer of the client PC or on another net printer, select “Print” from the “Tools” menu, the follow the typical Windows structure.

3.5.2 EXPORTING DATA

It is possible to export data in TXT format or in HTML one. The user has to chose “Save on disk” in the “Action” menu. The standard window for graph is displayed. This time once all the wanted values are checked, select which format you want to export (red rectangular area in the following image) and push “Save” button.


http://192.168.10.200 - GRAPHICS READOUT - Microsoft Internet Explorer
Actions
Save on disk
Devices Filter
<-All the Typologies->
ADR=7-new_XR170C
Update
Available Interval
From: 08/12/2004 14:53
To: 08/12/2004 17:00
Selected Interval
From: 08/12/2004 14:53
To: 08/12/2004 17:00
Save
Analog Input
Room (Pb1)
AG1
Evaporator (Pb2)
AG1
Set Point
Set Point
AG1
Digital Input
Door Switch
DG1
Generic Alarm
DG1
Output Status
Defrost
DG1
Alarm
DG1
Fan
DG1
Cooling
DG1
Device Status
On / Off
DG1
Defrost
DG1
Keyboard
DG1
Energy Saving
DG1
alarm
No link alarm
DG1
Low Value Pb1
DG1
High Value Pb1
DG1
Error Pb1
DG1
Error Pb2
DG1
Error Pb3
DG1
Open Door
DG1
External Alarm
DG1
EEPROM Failure
DG1
TXT:
HTML:
Graph Density:
100%
Operazione completata
Internet

What follows is an example of formatted TXT file:

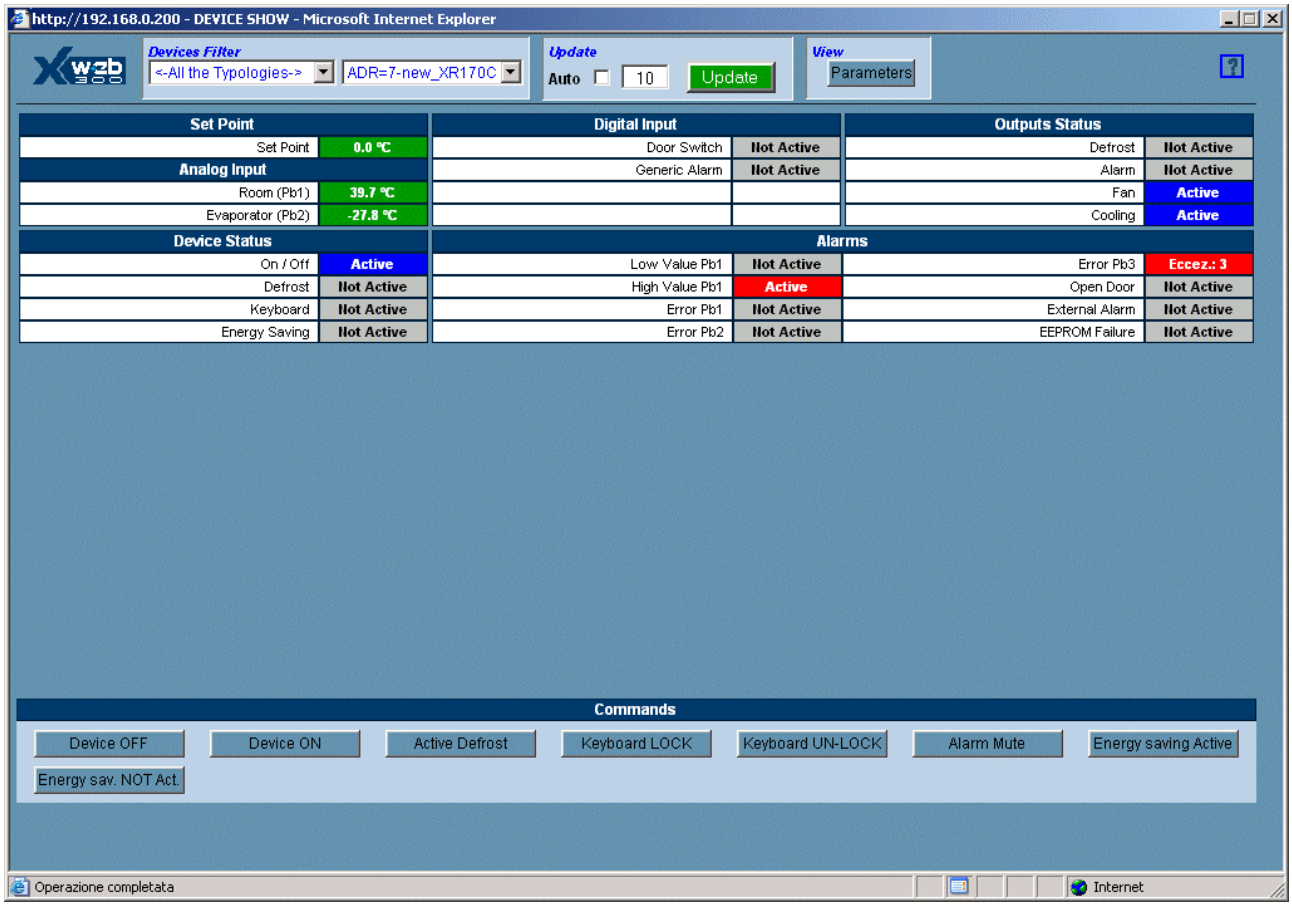
```
08/12/2004 - 17:06
Name: XWEB 300
Description: XWEB300 Developing System
Device: new_XR170C
RS 485 Address: 7
Time  Room (Pb1) (°C)
08/12/2004 14.53.39    37.7
08/12/2004 14.53.51   37.7
08/12/2004 14.54.03   37.7
08/12/2004 14.54.15   37.7
08/12/2004 14.54.27   37.7
08/12/2004 14.54.39   37.7
08/12/2004 14.54.51   37.7
08/12/2004 14.55.03   37.7
08/12/2004 14.55.15   37.7
08/12/2004 14.55.27   37.7
08/12/2004 14.55.39   37.7
08/12/2004 14.55.51   37.7
08/12/2004 14.56.03   37.7
08/12/2004 14.56.15   37.7
08/12/2004 14.56.27   37.7
08/12/2004 14.56.39   37.7
08/12/2004 14.56.51   37.7
08/12/2004 14.57.03   37.0
08/12/2004 14.57.15   37.1
08/12/2004 14.57.34   37.2
08/12/2004 14.57.46   37.3
08/12/2004 14.57.58   37.4
08/12/2004 14.58.10   37.4
08/12/2004 14.58.22   37.5
08/12/2004 14.58.34   37.5
08/12/2004 14.58.46   37.5
08/12/2004 14.58.58   36.7
08/12/2004 14.59.10   36.7
08/12/2004 14.59.22   37.1
08/12/2004 14.59.34   37.3
08/12/2004 14.59.46   37.4
08/12/2004 14.59.58   37.4
08/12/2004 15.00.10   37.4
```

3.5.3 DATA SHOW

Click on “Devices” -> “View” to show all the data corresponding to a selected controller. You will be informed about probe values, digital inputs, device status and alarms.

- **How to select a device and show the data**

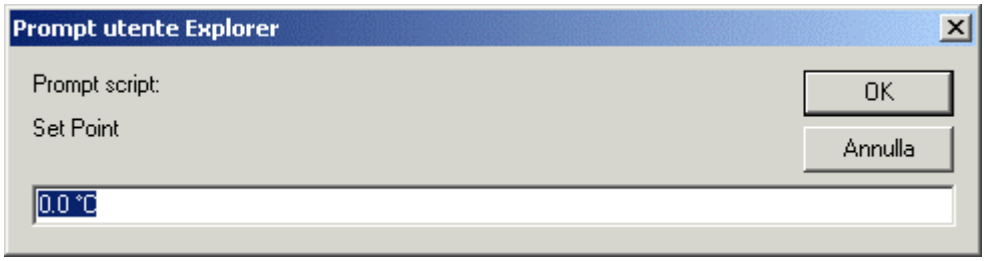
The devices can be selected using the “Devices filters” in order to reduce the number of items of the search.
From the “Device Typology” roll down menu select the category to which the instruments belong to. Then, under the “Select a device” menu select the instrument you are interested in.
After some seconds the whole situation of the instrument will be loaded and displayed. The information are divided in horizontal rows such as analogue inputs, digital inputs, output status, alarms, commands. A grey label means a function not active.



Remember that you are looking at a static page therefore the instrument information are loaded and displayed then there are no more data coming from the server.
The screen refresh with the new data can be executed automatically by selecting the “Auto” box and decide the updating interval by clicking into the time box on the right side.
Click on “Update” button to update the window with manual procedure.

- **Change set point function**
  You can change on the fly the set point value by clicking inside the current value box.

A window will appear, asking you the new value, confirm the new set point clicking OK button.

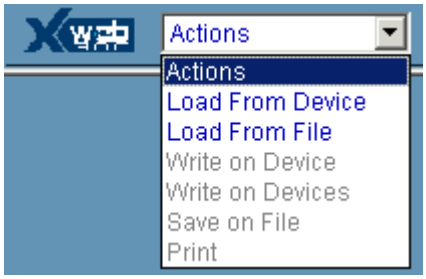


- **Commands**
  The last stripe of information contains the available commands for that instrument. Take care of the operations you make with commands.
  Click on the interested function button, after sending the command the information of the new status will be automatically updated and displayed.

3.5.4 PARAMETERS

The Parameter function allows management of the parameters of a selected device, you can display or modified them.

Click on “Devices” -> “Parameters” menu.
From the “Actions” select one of the following functions:



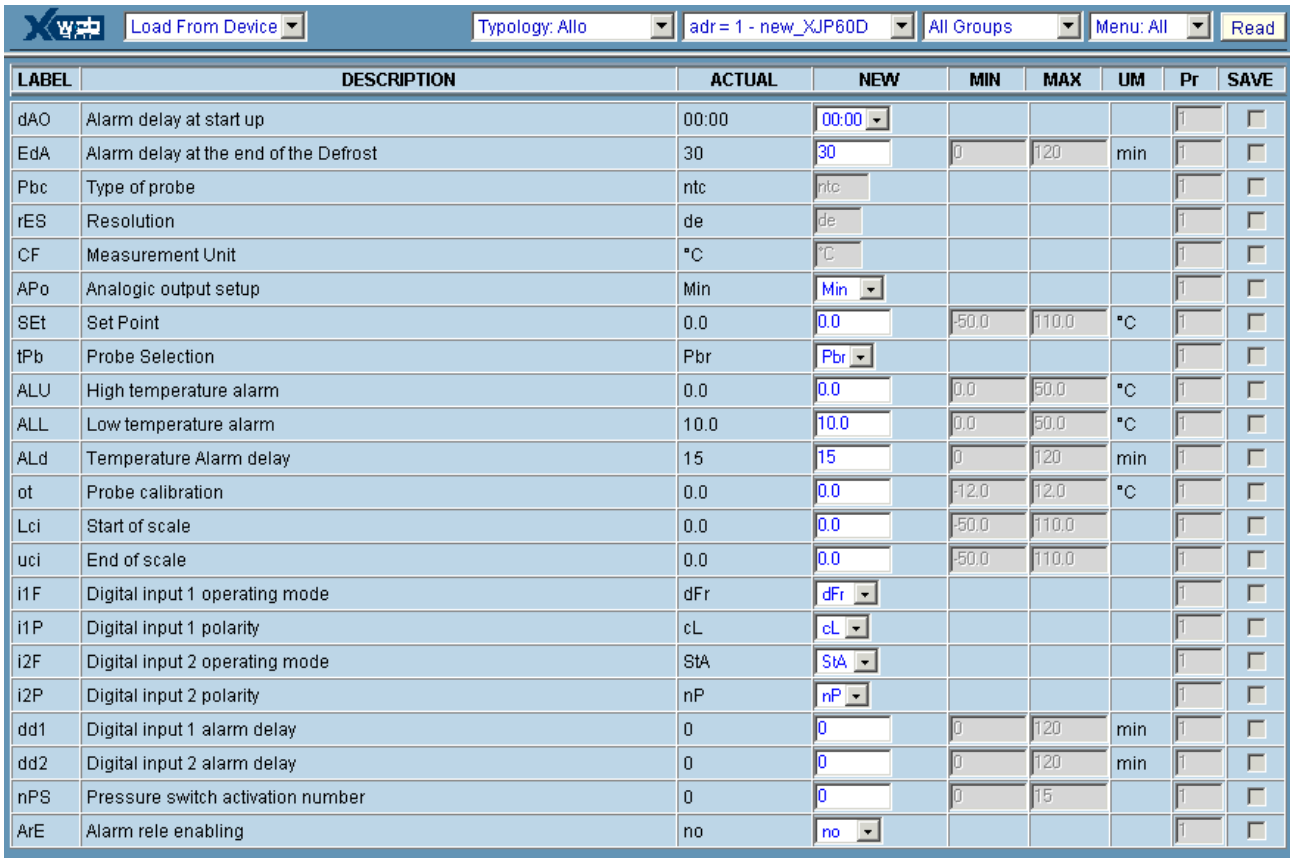
Load from Device: • to load and display the parameters from a device;
Load from File: • to load and display the parameters from the Hard Disk of the Client PC
Write on Device: • to updated the displayed parameters into the selected device;
Write on Devices: • to updated the displayed parameters into the selected devices
Save on File: • to save the displayed parameters into the Hard Disk of the Client PC.
Print: • to print the displayed parameters.

To show the parameters of a device select “load from device“ from the “action” menu:
Use the filter mask to limits the range of the device selection:

Device Typology: • To filter among the different typologies (“All” includes all the instrument);
Select a Device: • To select the desired instrument;
Select a Group: • To defines only a limited group of parameters to load;
Select “Menu”: • To defines which is the parameter level to use (Pr1, Pr2, All).

After filling the filter mask, click on “Read” button to load the parameter from the instrument to the client pc.

The loading time depends on the number of parameter selected.



LABEL	DESCRIPTION	ACTUAL	NEW	MIN	MAX	UM	Pr	SAVE
dAO	Alarm delay at start up	00:00	00:00				1	
EdA	Alarm delay at the end of the Defrost	30	30	0	120	min	1	
Pbc	Type of probe	ntc	ntc				1	
rES	Resolution	de	de				1	
CF	Measurement Unit	°C	°C				1	
APo	Analogic output setup	Min	Min				1	
SEt	Set Point	0.0	0.0	-50.0	110.0	°C	1	
tPb	Probe Selection	Pbr	Pbr				1	
ALU	High temperature alarm	0.0	0.0	0.0	50.0	°C	1	
ALL	Low temperature alarm	10.0	10.0	0.0	50.0	°C	1	
ALd	Temperature Alarm delay	15	15	0	120	min	1	
ot	Probe calibration	0.0	0.0	-12.0	12.0	°C	1	
Lci	Start of scale	0.0	0.0	-50.0	110.0		1	
uci	End of scale	0.0	0.0	-50.0	110.0		1	
i1F	Digital input 1 operating mode	dFr	dFr				1	
i1P	Digital input 1 polarity	cL	cL				1	
i2F	Digital input 2 operating mode	StA	StA				1	
i2P	Digital input 2 polarity	nP	nP				1	
dd1	Digital input 1 alarm delay	0	0	0	120	min	1	
dd2	Digital input 2 alarm delay	0	0	0	120	min	1	
nPS	Pressure switch activation number	0	0	0	15		1	
ArE	Alarm rele enabling	no	no				1	

The parameter table is defined by this columns:

Label: The parameter label as described into the instruction manual of the instrument itself;
Description: Description of the parameter function;
Actual: Actual value of the parameter loaded from the instrument;
New: New value of the parameter decided by the user;
Min /Max: Minimum and maximum limits available for that parameter;
UM: Unit of measurement;
Pr: Parameter level of the parameter itself;
Save: Selection box to enable the parameter saving.

- **To change a parameter value**
  To insert the desired value of a parameter click into New box.
  Depending on the kind of parameter, it is possible to insert the value or select it from a drop-down list of available values.
  To confirm the new value introduced click the mouse outside the “New” box area.
  It is not allowed to set a value exceeding the minimum and maximum limits. In any case a wrong value is signalled with violet background colour of the box itself.
  The user can change one or more parameters before sending back the new list.

- **To change the programming level**
  Select 1 level or 2 level under the Pr column.

- **To send the new parameter map to the instrument**
  After modifying the parameters, select “Write on Device” from the “Action” menu.
  To confirm the operation click on the Ok button into the message box.

- **To send the new parameter map to the instruments**

The displayed parameter map can be sent to many compatible devices.
Select “Write on Devices” from the “Action” menu.
The message box will show all the compatible instruments with that map.
Select which instruments are included (or “All”).
Click on the “Write” button to start the procedure.
A warning box will appear reminding you how many parameters you are changing.
Each writing operation is described into the message box.
At the end of the operation a conclusive report will be showed.

- **To save the parameter in your Client PC**
  The parameter can be saved into the hard disk of the Client PC, reloaded and used for other parameter programming.
  With a displayed parameter list, click on “Save on File” from the “Action” menu.
  Select the “Save” box to include the interested parameters.
  Click on the “Save” button situated in the top right position.
  Click on “Save All” button to save the complete list.
  Some operative system installed into the Client PC can require to “Save” before proceeding.
  From the next message box insert the name of the parameter map and then click on “Save”.

- **To load a parameter map saved into your Client pc**
  Click on “Load from File” from the “Action” menu.
  Use the find button to search among the files of the message box.
  Click on find or insert the file name including the path. These system always proposes the last folder used during the last saving.
  Confirm the name of the file to load.
  Click on “Upload” to proceed.

- **To print the displayed map**
  Click on “Print” from the “Action” menu.
  Use the message box to select the print properties.
  Confirm the printing to proceed.

3.6 ALARM MENÙ

3.6.1 HYSTORICAL ALARMS

This function shows you all the alarm events detected from the XWEB 300 system. It is also possible to setup a search filter.

- **Alarm view and filters**
  To enter the alarm view, click on “Alarm” -> “Historical” menu.
  The Device Alarm Page is divided onto 3 main section: Actions, Device filter and Alarm filter.

The “Alarm Filter” defines which alarm level and which kind of alarm to search.
The “Device Filter” defines the typology and the name of the instrument to search.
The “Action” menu allows the user to decide what action to start: Save on disk in html format, view in the current window or print alarm.
The system automatically loads all the alarm. The user can filter which one wants to view using “Actual” or “Last” and insert the number of days back to show.
The alarm description is displayed in table format.

Adr	Dev. Name	Alarm Typology	Alarm Name	Start	Stop	Ending
7	new_XR170C	no link	High Value Pb1	08/12/2004 17:39:24	08/12/2004 18:22:15	Auto
7	new_XR170C	no link	High Value Pb1	08/12/2004 14:53:28	08/12/2004 16:39:43	Auto
1	new_XJP60D	no link	High Value Pb1	08/12/2004 14:53:23		Active
1	pippo	System Alarm	No link alarm	07/12/2004 16:54:49	07/12/2004 16:55:44	Stop ACQ
1	pippo	System Alarm	No link alarm	07/12/2004 16:27:26	07/12/2004 16:41:58	Stop ACQ
1	pippo	System Alarm	No link alarm	07/12/2004 15:57:21	07/12/2004 16:13:48	Stop ACQ
1	pippo	System Alarm	No link alarm	07/12/2004 15:30:05	07/12/2004 15:45:44	Syst. Rest.

Beware to the status of an alarm:

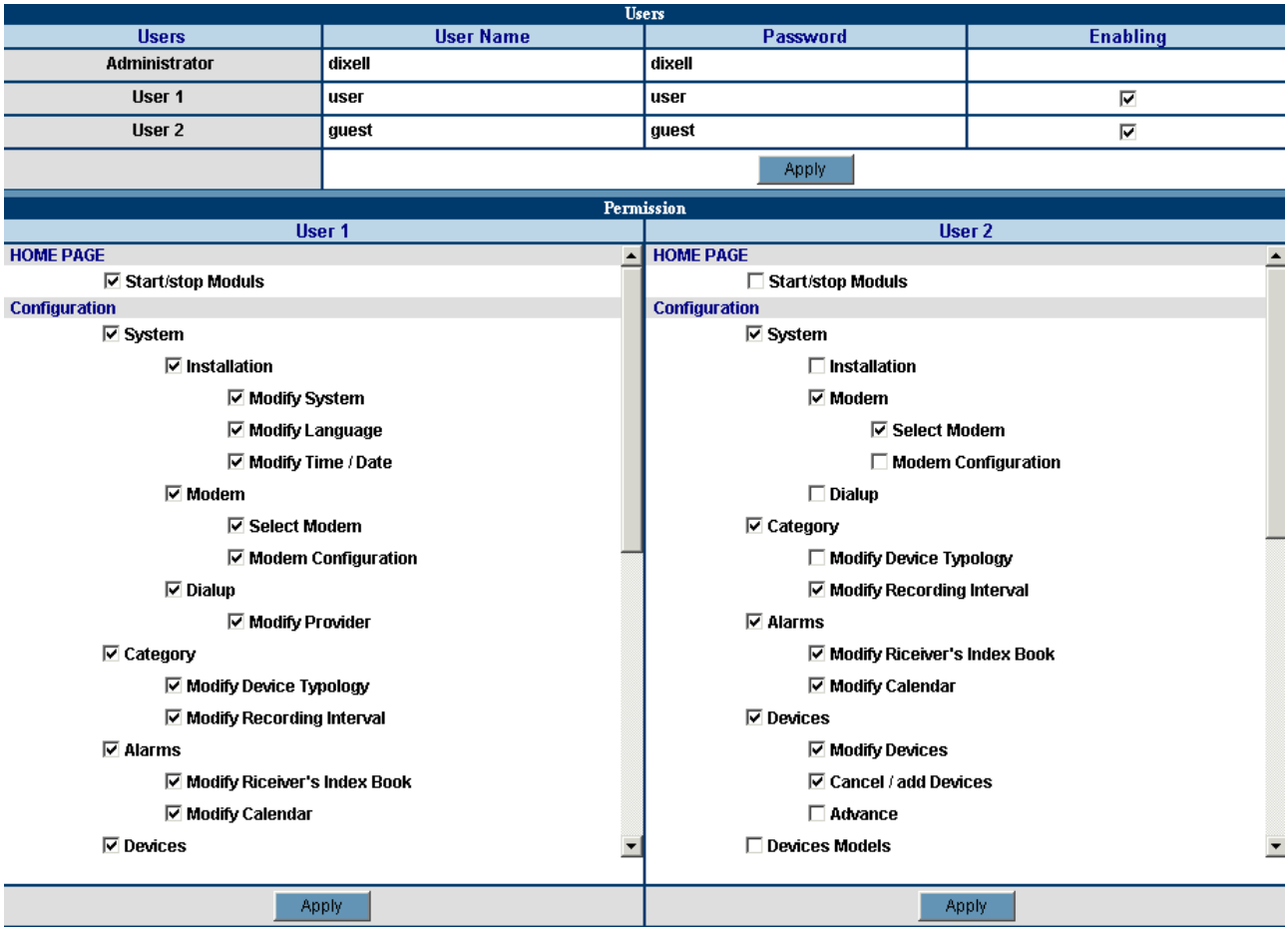
Active (To column): Alarm is still active
Auto (ending column): Alarm stopped automatically. It means that alarm event is now ended.
Stop Acq. (ending column): Someone has stopped the recording activity
Restart (ending column): System has been rebooted by someone/something.

- **Actual view of a device included into the alarm list**
  The user could be interested in having more and deep information about the actual situation of an instrument with an active alarm that is included into the alarm list.
  That's why if you click on the description of the instrument itself the XWEB 300 will load a snapshot page showing all the controller information.

- **Print the alarm list**
  Select the "Print" from the "Action" menu situated on the left corner of the alarm page under the Dixell logo.
  Use the structure of the operative system of your client PC to select and configure the printer then proceed with the printing.

3.7 PERMISSIONS

From the “Configuration” menu you can access “Users”. This section is one of the most important to preserve the correct functioning of the unit. You can setup up to 3 users account and grant them the permission to interact with the XWEB 300. Permissions are a powerful tool to avoid accidental system damage and security holes.
We strongly suggest you to create a user with read only privileges and another one with the ability to change system behaviour. The third user must be the administrator who should be the only one to be able to interact with critical system behaviour, such as alarm setup menu or devices add/delete etc.
To modify an existing user you just have to put the correct name and password (by clicking inside the box), then push on “Apply” button. Default configuration is one Administrator (dixell) and two users (user and guest). These two users are factory not enabled.



To allow a user to interact with the unit, please assign him correct rights. To do this check/uncheck the proper permission. At the end of the procedure you have to confirm the changes by clicking on “apply” button.

3.7.1 MANAGING THE USERS

You can interact with a user in 3 different ways:

- Setting-up permission.
- Disabling the user (Enabling check box on the top right corner).
- Modify account and password

3.8 TOOLS SECTION

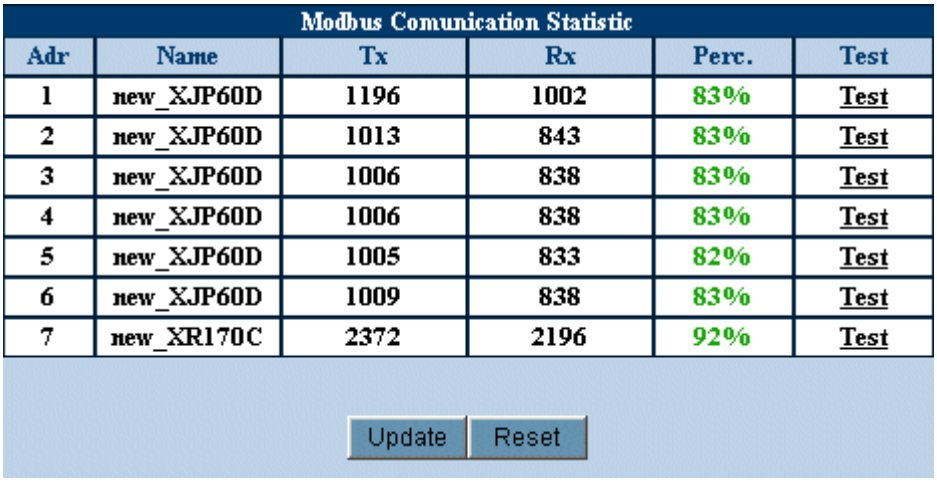
XWEB 300 has a complete set of useful tools to help the user managing in the best way both the monitoring unit and the controllers connected on the RS 485. Click on “Tools” menu to start using it.

3.8.1 DATA LOG STATUS

One of the most important tools is the “Data log Status”. This window give you important information concerning the available amount of memory reserved to store data values. Value “Log” followed by a percentage is the amount of used memory at the present moment. XWEB 300 will give you a forecast expressed in days/hours on the duration of the stored data starting back from the last recorded value. The archive is in FIFO format, so the first data (the oldest one) is also the first to be overwritten. To enlarge this recording time you can decide which values you really need to store. To do this please click on “Configuration” -> “Devices” roll-down menu and select a controller. At this point uncheck all the value you do no want to record. In the following example DI “Defrost Start” is shown but not recorded.

3.8.2 RS 485 TEST

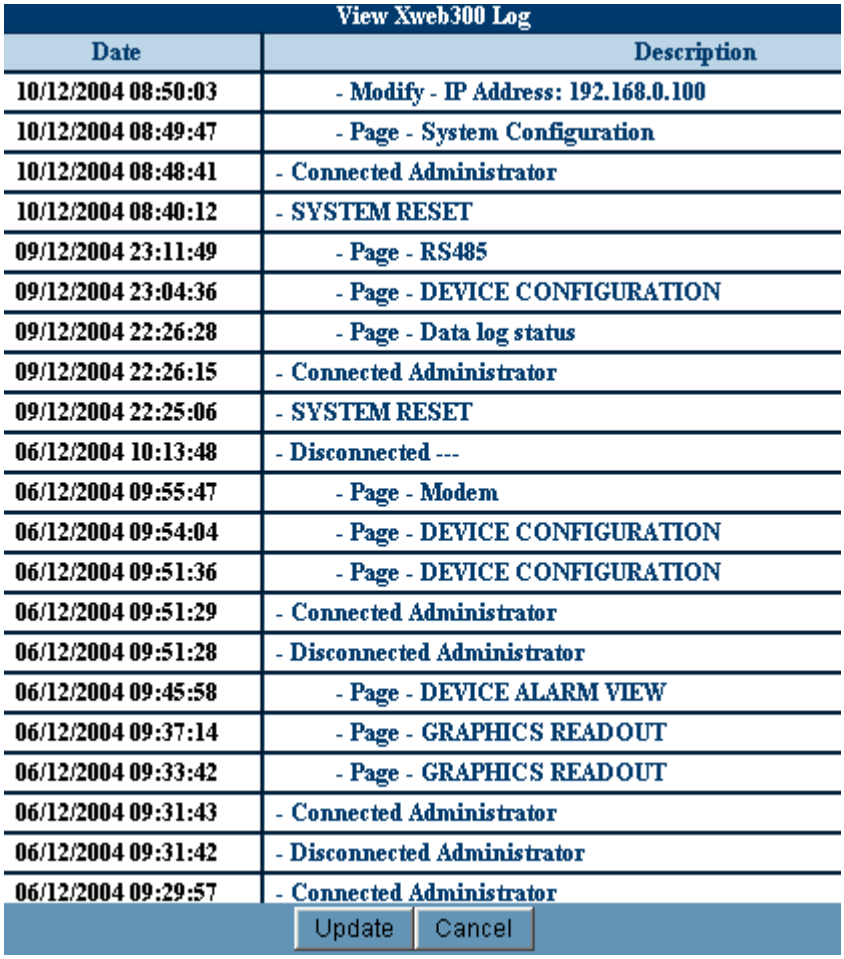
It is possible to make a test on the RS 485 line. Click on “RS 485”. The following window will appear:



By clicking on “Test” XWEB 300 starts sending data packet to the selected controller. Depending on the number of sent back packet the percentage is shown in 3 different colours: red (bad connection), yellow (average connection) and green (good connection). This tool is useful to discover problem on the RS 485 wiring.

3.8.3 SERVER LOG

This tool allow you to monitor all the XWEB 300 activity. The report is in FIFO format and show you date and action type. All the most important actions are monitored, errors are displayed in red. Beware that “Cancel” button delete all entries in the log.



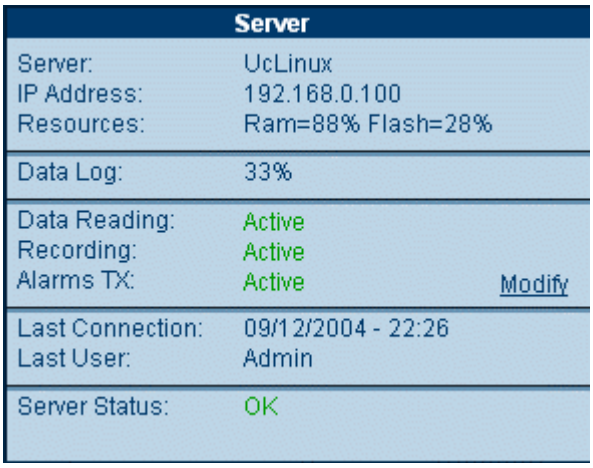
View Xweb300 Log

Date	Description
10/12/2004 08:50:03	- Modify - IP Address: 192.168.0.100
10/12/2004 08:49:47	- Page - System Configuration
10/12/2004 08:48:41	- Connected Administrator
10/12/2004 08:40:12	- SYSTEM RESET
09/12/2004 23:11:49	- Page - RS485
09/12/2004 23:04:36	- Page - DEVICE CONFIGURATION
09/12/2004 22:26:28	- Page - Data log status
09/12/2004 22:26:15	- Connected Administrator
09/12/2004 22:25:06	- SYSTEM RESET
06/12/2004 10:13:48	- Disconnected ---
06/12/2004 09:55:47	- Page - Modem
06/12/2004 09:54:04	- Page - DEVICE CONFIGURATION
06/12/2004 09:51:36	- Page - DEVICE CONFIGURATION
06/12/2004 09:51:29	- Connected Administrator
06/12/2004 09:51:28	- Disconnected Administrator
06/12/2004 09:45:58	- Page - DEVICE ALARM VIEW
06/12/2004 09:37:14	- Page - GRAPHICS READOUT
06/12/2004 09:33:42	- Page - GRAPHICS READOUT
06/12/2004 09:31:43	- Connected Administrator
06/12/2004 09:31:42	- Disconnected Administrator
06/12/2004 09:29:57	- Connected Administrator

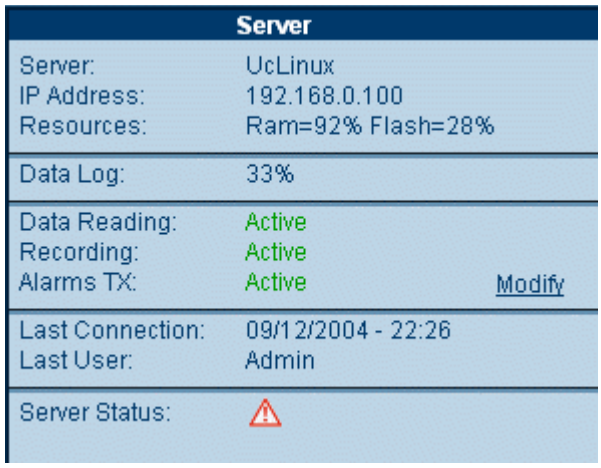
Update Cancel

3.8.4 SERVER STATUS

Click on “Tools” -> “ServerStatus”. This windows give you important information about the XWEB 300 status. If there is some errors, they will be displayed in this section. The user can access this windows also from the home page. The label “Server Status” show you the current status. If there is an error a small icon will appear. By clicking on it a report windows will appear.



Server without errors



Server with errors

3.8.5 MESSAGE STATUS

click on “Tools” -> “Message status”. This windows show you the status queue of all messages that have to be sent by XWEB 300. If the server did not succeed in sending a message, an error is shown.

3.9 SYSTEM UPDATE

One of the most important feature of XWEB 300 is the possibility to update the system via serial cable or via modem connection. Update procedure can be managed only by the administrator. This user has to click on “Information” -> “Update” menu. Standard browsing windows will appear. Chose the proper file and push “open”. This procedure may take as long as 5-10 minutes. During this period the system stops its monitoring functions. Dixell S.p.a. will provide you new software release when available.

4 SAFETY AND ALLOWED USE

Please read carefully what follows. Your security may depends on the respect of these simple rules. We strongly suggest you, to prevent damage to the unit, paying attention to each sentence.

- Remember to protect both yourself and the computer from electrical hazards. The XWEB 300 should remain turned off until you are finished connecting all electrical devices.
- Before giving the power supply, read the Technical Specification to be sure of the supply voltage you are going to connect.
- The appliance should be connected to a power supply only of the type described in the instruction manual or as marked on the appliance. If you are not sure of the type of power supply to your installation site, consult your appliance dealer or local power company.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- The appliance may not function properly if used at extremely low, or freezing temperatures. The ideal ambient temperature is above +5°C (41°F).
- The appliance should be situated away from heat sources such as radiators, heat registers etc.
- Care should be taken so that objects do not fall and liquid is not spilled into the enclosure through openings.
- Never remove the enclosure. If the internal parts are touched accidentally, a serious electric shock might occur.
- Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzine, etc. to clean the cabinet. Use a clean dry cloth.
- The user should not attempt to service the appliance beyond that described in the instruction manual. All other servicing should be referred to qualified service personnel.

4.1 SYSTEM SPECIFICATION

General	
Dimensions (standard 4 DIN format)	68 (w) x 84 (h) x 62 (d) (mm)
Power Supply	230 VAC 50~60Hz.
Power Consumption	3 W
Enviromental Safe	
Temperature range	Above +0°C – 60°C (32°F – 104°F)

5 APPENDIX

Appendix A: DEVICE ADVANCED SECTION

Appendix B: GLOSSARY

Appendix C: SUPPORTED INSTRUMENTS

Appendix D: ACCESSORIES

Appendix A: DEVICE ADVANCED SECTION

In this section we describe how you can customize your device regardless its factory setup. We will point out only the main sections, without describing each fields in deep. Please notice that the page is divided in many rows. Each of them customizes a particular function of the device itself.
To access this section please stop data reading/recording, then go to "Configuration"->"Devices" roll-down menu. Here with selection "Actions" roll-down menu choose "Advanced", then with "Devices" choose the proper controller.
"Analog Input" section shows you all the analog input that a device can use. These values can be displayed in decimal or integer values, of course you have to choose the same unit of measurement for both the XWEB and the instrument. The suffix "-I" means you want to display integer, default value is decimal. The same for Celsius and Fahrenheit degree. The suffix "-F" means Fahrenheit degree.

Warning: the integer/decimal or °C/°F configuration have to be chosen according to the real setting of the instruments.

Analog Input			Set Point		
Name	Vis.	Order	Name	Vis.	Order
Probe	☑	0	Set	☑	0
Probe(Int - °F)	☐	0	Set (°F)	☐	0
			Set (Int)	☐	0

"Digital Input" row need particular attention. The values you find here are the factory defaults, so if you have made modifications to the device setup, you are requested to apply the same modifications in this menu. This is very important because all the values stored inside XWEB 300 devices section must be the same as the ones stored inside the EEPROM of the instrument. A common error for example is to modify "Generic Alarm" to some other values inside the instrument, than leave the value marked inside Advanced section. XWEB 300 will send you an alarm every time the switch changes status, even if it is not a generic alarm.

Digital Input		
Name	Vis.	Order
Defrost Start	☑	0
Generic DI	☑	0
Generic Alarm	☐	0
Generic DI	☐	0
Defrost Start	☐	0
Generic Alarm	☐	0

"Device Status" section allows you to customize your instruments, of course the same values have to be set both on XWEB 300 and the instruments themselves.

Device Status		
Name	Vis.	Order
On / Off	☑	0
Digital Input	☑	0
Defrost	☑	0

"Commands" row is very important. You have to mark same values that you have marked before in the other section. In order to give Xweb 300 the possibility to send commands to the instruments. This is necessary because for example if you have changed "Generic Alarm" to "Ausiliary" in "digital Resources" section, then you have to mark "Aux on" and "Aux off" in "Commands" section to be able to turn on/off the output by

means of the XWEB 300. Of course you have to do this kind of changes every time you have made some modifications to the controllers.

Appendix B: GLOSSARY

C

Cable - Transmission medium of copper wire or optical fiber wrapped in a protective cover.
Client/Server - A networking system in which one or more file servers (Server) provide services; such as network management, application and centralized data storage for workstations (Clients).
CSMA/CD - Carrier Sense Multiple Access Collision Detection is a network access method in which devices that are ready to transmit data first check the channel for a carrier. If no carrier is sensed, a device can transmit. If two devices transmit at once, a collision occurs and each computer backs off and waits a random amount of time before attempting to retransmit. This is the access method used by Ethernet.
Coaxial Cable - Cable consisting of a single copper conductor in the center surrounded by a plastic layer for insulation and a braided metal outer shield.
Concentrator - A device that provides a central connection point for cables from workstations, servers, and peripherals. Most concentrators contain the ability to amplify the electrical signal they receive.

E

E-mail - An electronic mail message sent from a host computer to a remote computer.
End User - Refers to the human executing applications on the workstation.

F

File Server - A computer connected to the network that contains primary files/applications and shares them as requested with the other computers on the network. If the file server is dedicated for that purpose only, it is connected to a client/server network. An example of a client/server network is Novell Netware. All the computers connected to a peer-to-peer network are capable of being the file server. Two examples of peer-to-peer networks are LANtastic and Windows for Workgroups.

I

ISP (Internet Service Provider) - Company that provide access to internet

M

Modem (Modulator/Demodulator) - Devices that convert digital and analog signals. Modems allow computer data (digital) to be transmitted over voice-grade telephone lines (analog).

P

PCMCIA - An expansion slot found in many laptop computers.
Point-to-Point - A direct link between two objects in a network.
Ports - A connection point for a cable.
Protocol -A formal description of a set of rules and conventions that govern how devices on a network exchange information.

R

RAM (Random Access Memory) - The working memory of a computer where data and programs are temporarily stored. RAM only holds information when the computer is on.

S

Speed of Data Transfer - The rate at which information travels through a network, usually measured in megabits per second.

W

Workstation - A computer connected to a network at which users interact with software stored on the network.

Appendix C: SUPPORTED INSTRUMENTS

THIS REALEASE OF XWEB 300 SUPPORTS THE FOLLOWING DIXELL FAMILY INSTRUMENTS. PLEASE TAKE A LOOK TO THE RELEASE NUMBER OF THE DEVICE. YOU CAN VERIFY IT WITH REL. PERAMETER OR READING IT ON THE BACK STICKER OF THE INSTRUMENTS ITSELF. OTHER RELEASE VERSIONS ARE COMING SOON.

FAMILY NAME	*RELEASE VERSION*	*INSTRUMENT TYPE*	*INSTRUMENT TYPE*
XR 100/500/700	**2.0**	XR110C	XR120D
		XR120C	XR130D
		XR130C	XR140D
		XR140C	XR160D
		XR150C	XR170D
		XR160C	XR530D
		XR170C	XR563D
		XR570C	XR570D
		XR572C	
		XR530C	
		XR172C	
	1.0	XR775C	
		XR745C	
XC400-600	**2.0**	XC650C	
		XC642C	
		XC640C	
		XC440C	
XT100-200	**1.2**	XA100C	
		XT110C	
		XT111C	
		XT120C	
		XT121C	
		XT130C	
		XT131C	
		XT141C	
		XT210C	
		XT211C	
		XT220C	
		XT221C	
XJ	**1.4**	XJA50D	
		XJP30D	
		XJP60D	
ICHILL	**1.5**	IC110C	
		IC111C	
		IC120C	
		IC121C	

Appendix D: ACCESSORIES

TYPE	DESCRIPTION	COMMERCIAL NAME	HOT-TO ORDER
MODEM	Analog SERIAL modem, PDA compatible, 56kbps (ex ModemXJ500 – analog modem kit)	BOTTICELLI WEB	MODEM/S/01
CABLE	Cable 9F-9M poles for PC connection. 1,8 mt.	###	CAB/SW 9-9

NOTES

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