

dixell

XJSETUP32



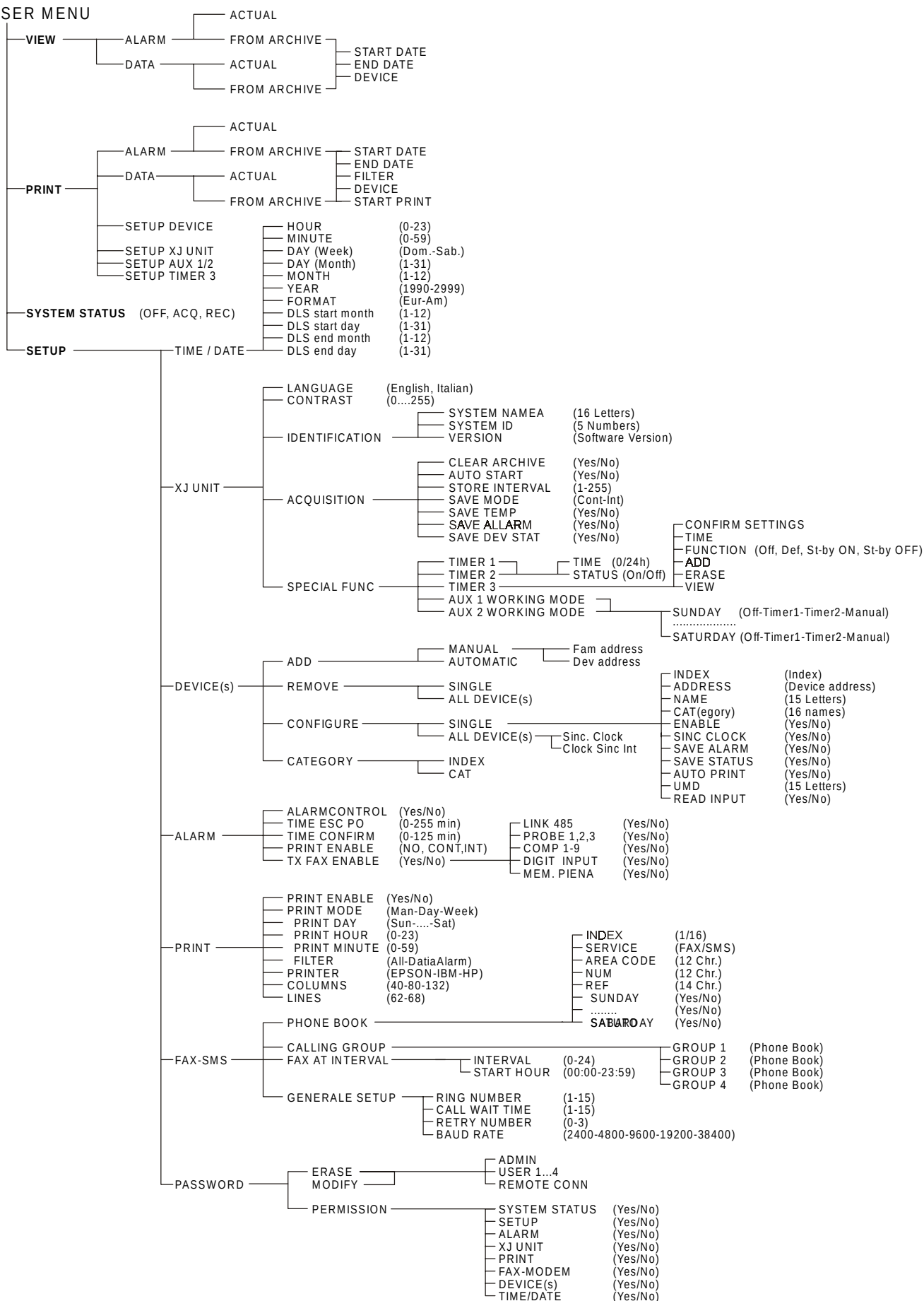
Software toolkit for XJ500

PARAMETER FLOW OF THE XJ500

MENU KEY

***** (password if enabled)

USER MENU



SHORTCUTS

Establish a LOCAL CONNECTION (3.1.1)

1. Connect the LAPLINK cable between the XJ500 and one of the RS232 port of your PC.
2. From the menu bar select <XJ – Connect>.
3. Select “Local” and then Click “OK”.
4. Wait until the XJ500 unit is linked.

DOWNLOAD the SETUP of the parameter programming from the XJ500 (4.1.1)

1. Establish a connection.
2. From the menu bar select <Setup – Read – From XJ>.
3. Type the name of the new file you are going to download in your PC and click “Open”.
4. Wait 20 seconds until the parameter values are downloaded.

LOAD the SETUP of the parameter programming from the PC (4.1.2)

1. From the menu bar select <Setup – Read – From File>.
2. Type the name of the new file you are going to download in your PC and click “Open”.
3. Wait 20 seconds until the parameter values are downloaded.

UPDATE the XJ500 with the new SETUP (4.1.3)

1. Establish a connection.
2. Load a setup of parameter programming.
3. From the menu bar select <Setup – Edit>.
4. Change the parameters values and click “OK”.
5. Select < Setup – WriteXJ” and click on “OK”.

DOWNLOAD the DATA of the Recordings from the XJ500 (6.1.1)

1. Establish the connection.
2. From the menu bar select <Archive – Select>.
3. Select “Download from the XJ” and click “Open”.
4. Wait the time necessary to download the data.

LOAD the DATA of the Recordings from the PC (6.1.2)

1. From the menu bar select <Archive – Select>.
2. Select “Open archive file from disk ” and click “Open”.
3. Wait some seconds to load the file from the PC.

SHOW the GRAPH of the Recordings (7)

1. Load an archive of data.
2. From the menu bar select <Display – Graphic Window>.
3. Select the recording period, the device and the information to show and click “OK”

SHOW the Table of the Recordings (8)

1. Load an archive of data.
2. From the menu bar select <Display – Table Data Window>.
3. Select the recording period, the device and the information to show and click “OK”

EXPORT the Data of the Recordings (6.3)

1. Load an archive of data.
2. From the menu bar select <Display – Export Archive Data>.
3. Select the recording period, the device and the information to show and click “OK”.

Parameter programming of the instruments (9)

1. Connect an XJ500.
2. From the menu bar select <Prog Table>.
3. Click the OPEN FILE PARAMETER key if you want to load a map from the PC.
4. Click one of the instruments showed in the list (if the XJ500 is connected) and click EDIT PARAMETER to load the parameter programming map of the selected device.

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1 SOFTWARE TOOLKIT

XJSETUP32 is a program running under Windows 95, 98 and NT created to help the User during the programming and the data management of a XJ500 system. The easy communication interface allows to download and display the whole parameter programming or the recorded data of a XJ500 unit.

A new parameter configuration can be updated and saved into the hard disk memory of the PC and then transferred to the XJ500 memory. This operation can also be made through modem call executed from a remote system.

The "XJ Archive" function allows the User to an easy management of the recorded data. In fact, the files containing temperatures, alarms and status information can be downloaded and saved into the PC.

The program can also change the parameter programming of the instruments whose driver is included into the program.

1.1 YEAR 2000 COMPLIANCE

The XJ500 unit is not affected by the date change of the new millennium. In any case check if your PC complies this.

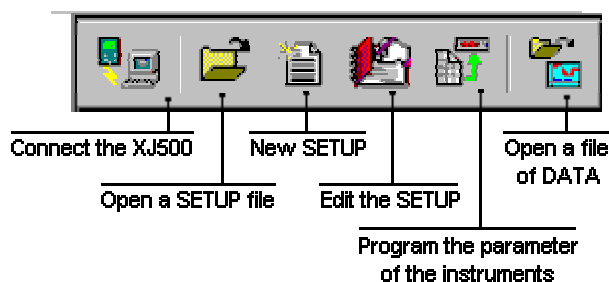
2 INSTALLATION

Insert the disk on the drive A and then from the "RUN" menu, type "A:\SETUP".

The install shield program will automatically setup the configuration parameters. The XJSETUP32 directory will be created under C:\PROGRAM FILES and the icon of the program will be available under the WINDOWS95 (PROGRAMS) menu. No other operation is necessary.

The installation can be executed only by using the original disks. The copy and paste of the program or the directory, will not run properly the program.

3 SETUP MANAGEMENT



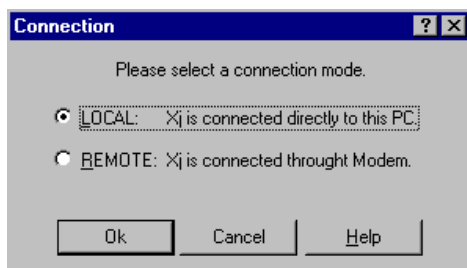
This program allows to download a setup from the XJ500 memory or to create a new one by using a standard XjsSetup.xls file recorded into the hard disk.

The following steps will help you to download modify and reload a XJ500 setup:

1. Connect the XJ500 to one of the RS232 outputs of the PC;
2. Establish a communication between the software and the XJ unit;
3. Download the setup information;
4. Modify the setup data;
5. Save the new setup into the XJ memory.



3.1.1 ESTABLISH A LOCAL COMMUNICATION



Start the XJSETUP32 program and establish a connection with the XJ500 as follow:

1. Connect the XJ unit to one of the RS232 serial port of the PC by using a LAP LINK cable (it can be ordered as optional). Then program finds by itself the right

way where the XJ500 is connected.

2. Click the first icon: CONNECT and the window showed on the left side will appears.
3. You will be required to select a LOCAL (XJ connect to the PC) or a REMOTE connection (executed through modem).
4. Click on LOCAL and then OK:

The program automatically starts detecting the XJ500 then it will appear a message indicating if the XJ unit has been found.

If the connection fails, be sure that the communication cable is a LAP LINK model.

The Lap Link is not a pin to pin cable, do not use it for the modem connection.

3.1.2 ESTABLISH A REMOTE CONNECTION

By selecting REMOTE, you will be requested to define the information of the system you are trying to connect:

The 'SERVICE' dialog box has a title bar with the word 'SERVICE'. It contains three text input fields: 'Area Code' with '0039', 'Tel Number' with '0090909591', and 'Reference' with 'SERVICE'. At the bottom are three buttons: 'Remove', 'Add', and 'Update'.

SET a new telephone number

1. the "Area code"
2. the "Telephone number"
3. the "Reference" name
4. the "Connection speed" (the default is 38400)
5. then push the "Add" key.

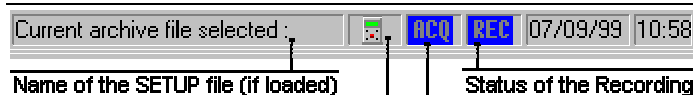
Start the communication

1. Select the number from the list
2. You must type the "PASSWORD" of 4 chars of the XJ500 you are going to connect
3. CMD commands are used only for special modem
4. Click on "CALL" key to start.

REMEMBER that the password is always necessary but it is never recorded.

If the connection often breaks down try to reduce the modem speed.

3.1.3 READING INFORMATION



Functioning status of the Xj500 or communication status of the modem

Status of the XJ500 Acquisition

On the low right side, the information bar shows, under ACQ and REC, the functioning status of the XJ500. By means of a double click with the mouse pointer, it is possible to stop both the Acquisition and the recording.

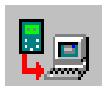
By means of a double click with the mouse pointer on the CURRENT ARCHIVE the name of the file will be highlighted.

4 READ THE XJ500 SETUP



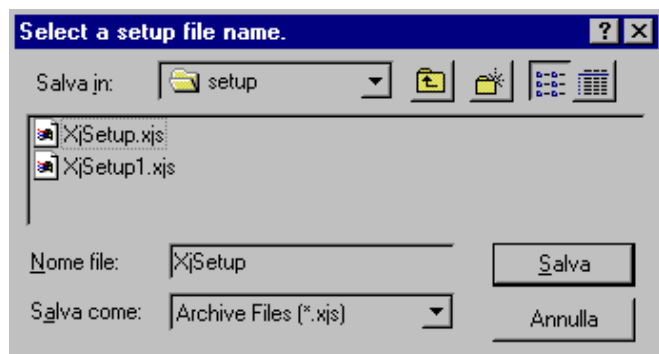
4.1.1 CONNECT THE XJ500

Click this icon, select LOCAL or REMOTE from the dialog window and then click OK. The program start finding by itself the Com port where the XJ500 is connected.



4.1.2 DOWNLOAD FROM THE XJ500

After establishing the XJ communication, the menu bar will appear this icon. Click on "READ SETUP" icon to download from the XJ500 The parameter programming. You are requested to save the new setup in a file into the hard disk of your PC, therefore type the file name and click on "Save":

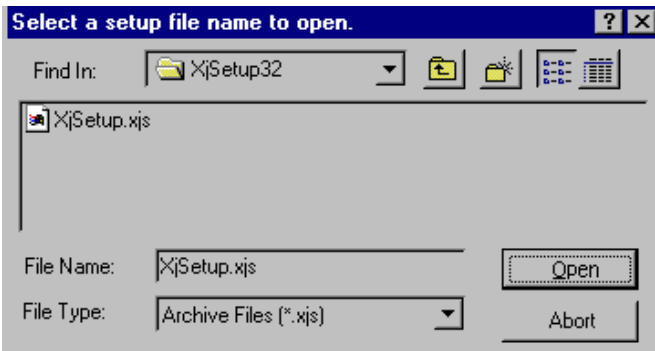


The download time of the parameters will take 20 seconds.



4.1.3 OPEN AN EXISTING SETUP

The XJSETUP32 allows to open and modify a setup file by clicking the folder icon, this operation can be executed also without connecting an XJ500.



Select the SETUP file from the list of the available items.



4.1.4 SHOW A SETUP FILE

When a setup file is already loaded, click on the "EDIT" icon to display the setup parameter actually loaded:



4.1.5 UPDATE THE XJ500 WITH THE NEW SETUP

After executing the changes, to update the XJ500 with the new setup click the above icon.

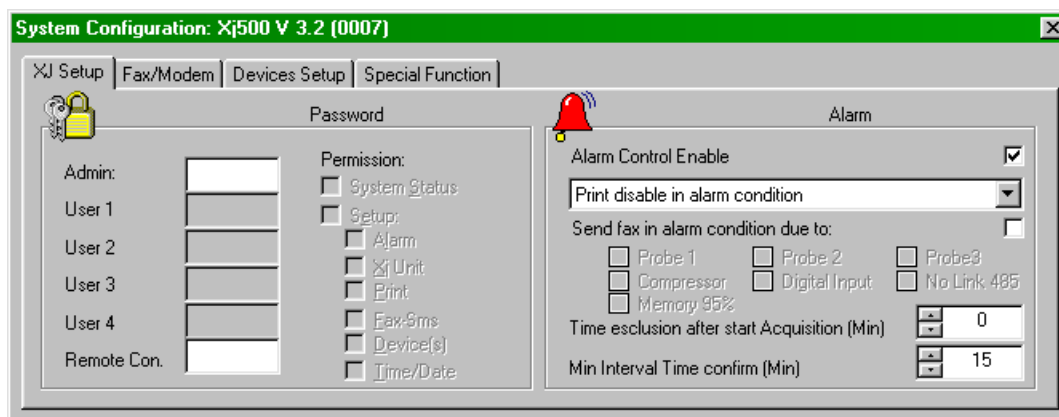


4.1.6 CREATE A NEW SETUP FILE

This icon allows to create an empty SETUP file with the default parameters value. This version of software offers the possibility of selecting between three different programming masks which corresponds with the software release of the XJ500 actually on the market. Before starting the new setup, you can verify the XJ500 version by clicking from the menu bar the <HELP – About XJSETUP32> element.

5 MODIFY THE SETUP

5.1 PASSWORD



5.1.1 PASSWORD

Each password name is made of 4 characters. first click inside the **Admin** box and type the administrator password name. Only after this operation the User passwords are activated.

Define the **User** password and then click the **Permission** boxes to enable the corresponding menu access.

The **Remote Connection** password must be typed to allows the access from a remote system.

5.1.2 ALARM

The whole alarm control can be enabled under "Alarm control enable".

The **alarm prints** can be selected among:

1. Print disabled in alarm condition;

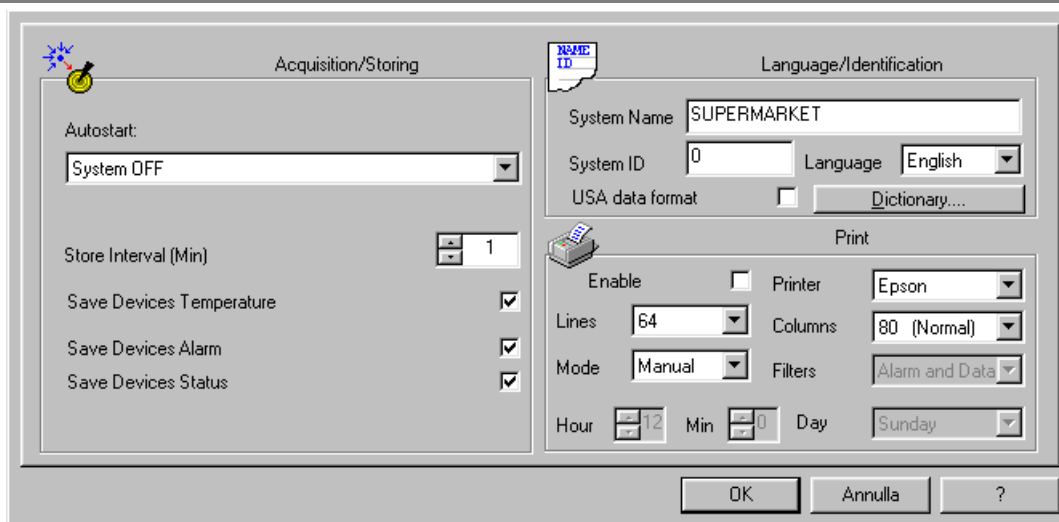
2. Print at interval mode in alarm condition (the XJ500 prints after the interval set by TIME CONFIRM);
3. Print continuously mode in alarm condition (the XJ500 prints immediately after the alarm event);

Send fax in alarm condition due to: Probe1, Probe2, Probe3, Compressor, Digital Input and No Link 485. It allows to send the fax only for the alarm condition enabled by the corresponding box.

Time exclusion after start Acquisition (0-255minutes) is the time delay to signal an alarm after activating Acquisition or the recording.

Min Interval Time confirm (1-255 minutes) is the interval time between two fax sending or two printings.

5.2 RECORDINGS and AUTOMATIC PRINTS



5.2.1 ACQUISITION / RECORDING

Autostart defines the behaviour after a power failure: SYSTEM OFF the unit restarts with the previous status before the power failure;

START ACQ the unit restarts in Acquisition mode;

START ACQ + REC the unit restarts in recording mode.

Store Interval is the sampling time, in minutes, of the recordings. The advised value is 15 minutes.

Storing device temperature, alarm, status by clicking these boxes the User can enable or disable the relative recordings of temperature, alarms and status of functioning of the devices.

5.2.2 AUTOMATIC PRINT FEATURES

1. Click the ENABLE box if you connect a printer;

2. Select the printer model from PRINTER

PRINTER MODELS (emulation driver)	
Epson	Epson compatible
IBM	IBM desk Jet compatible
HP	HP Laser compatible

3. For special type of paper select the number of rows (lines) and the width of the printing:

COLUMNS	APPLICATION
40	For small printer XJ50PR
80	Normal chars. (continuous forms)
132	Compress chars

4. The Automatic print type is selected under MODE:

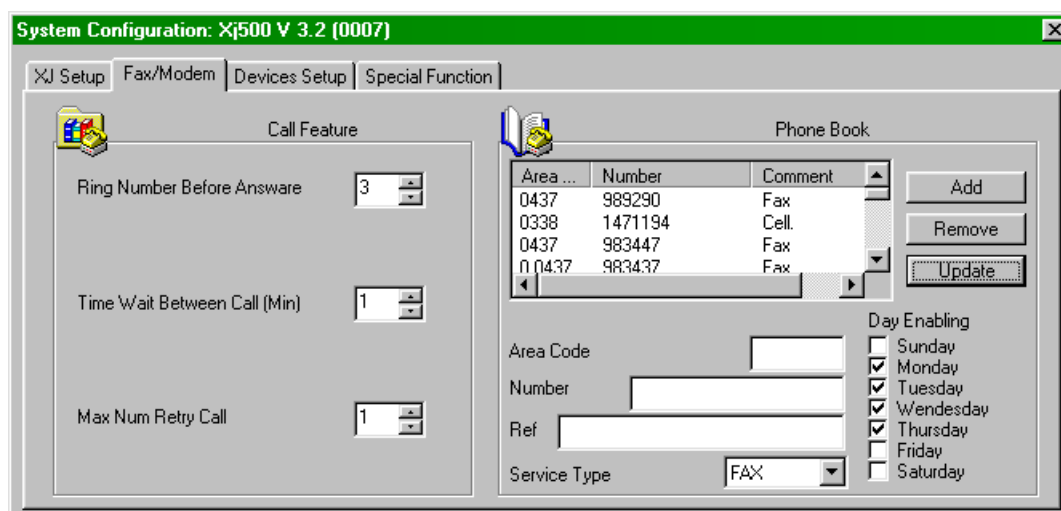
DAILY PRINT	
1. click on the Print Mode box and select "Daily"	
2. set the Hour and Min of the printing.	

WEEKLY PRINT	
1. click on the Print Mode box and select "Weekly"	
2. set the Hour and Min and Day of the printing.	

5. Under FILTER it is possible to select the data to print:

FILTERS	APPLICATION
ALL	Alarms and data
ALARM	only the alarm recordings
DATA	probe values and status of functioning

5.3 PHONE BOOK



5.3.1 CALL FEATURES

Defines the general features of the modem devices when it receives a call from a remote XJSETUP32 or when it is necessary to send a fax alarm.

RING NUMBER BEFORE ANSWER (0-15) defines the number of rings that the XJ500 must wait before receiving the communication from the remote system XJSETUP32.

TIME WAIT BETWEEN CALL (0-15 minutes) starts immediately after that the XJ500 has tried to send a fax without success. After this time the Xj500 will try to send the alarm fax.

MAX NUM RETRY CALL (0-15) is the maximum number of retries that the XJ500 execute with the same phone number.

5.3.2 PHONE BOOK

It is a list of 15 programmable phone numbers which can be used by the fax.

ADD A NEW NUMBER

1. Click first the "Area Code" to type area number.
2. Click "Number" to type the phone number.

3. Click on "Ref" and type the identification name.
4. Click on "Service Type" and choose whether the number is a FAX or SMS one.
5. Click on the box "Day enabling" to select the day enabled to receive the alarm message.
6. Click the "ADD" button to enclose the new number to the list.

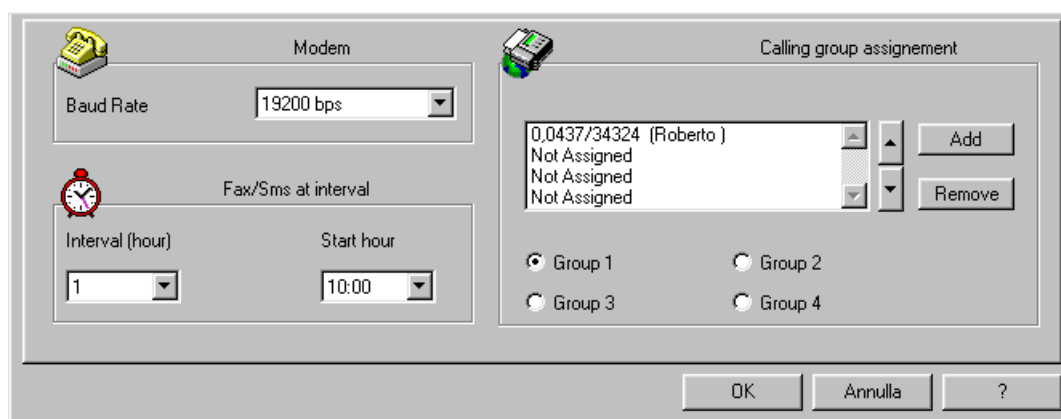
UPDATE AN EXISTING NUMBER

1. Select the item from the list under AREA
2. Change the data
3. Click the UPDATE button

REMOVE A NUMBER

1. Select the item from the list
2. Click the Remove button

5.4 MODEM / FAX



5.4.1 BAUD RATE

In this section the only parameter to set is the Baud Rate to choose the modem connection speed

5.4.2 FAX/SMS AT INTERVAL

In this section it is possible to enable the FAX/SMS at interval function. In the window "Interval (times)", select the length of the interval (in hours) between the dispatch of two periodic FAX/SMS or "OFF" to disable the service.

In the window "Start hour", select the time when do you want to start the dispatch of the periodic FAX/SMS.

5.4.3 CALLING GROUPS ASSIGNMENT

In this section the user can assign up to 4 numbers of the phone book for each of the 4 calling groups. In case of alarm XJ500 will send a message to every Fax/SMS number present in the group 1. If it's not possible to send the message to none of the numbers of the group 1 (the numbers are not valid or they are not enabled to the dispatch for that

specific day of the week), the system will try to send the message to the number present in group 2. If this is not possible too, it will pass to group 3 and so on.

To add a new number to the Fax list

1. Select the desired CALLING GROUP
2. Select a number from the PHONE BOOK
3. In the number list of the calling group, click one of the first "Not assigned" labels.
4. Click the Add button.

To erase a number from the Fax list

1. In the Phone Book list, click the number you want to delete
2. Click the Remove button

5.5 DEVICE SETUP

This window allows the User to configure the instrument name, the unit of measurement, the category and the recording features.

5.5.1 DESCRIPTION OF THE ITEMS

REMOVE: it deletes the selected instrument from the above list of devices.

ADD: it allows to insert a new instrument search through the XJ500 (if connected).

MODEL indicates the Dixell instrument type.

NAME indicates the referring name of the instrument.

***Ad1** must be equal to 0; **Ad2** indicates the standard serial addressing. For the instruments provided with ModBus you must consider that $Ad2 = Ad1$; the range is 1-247. The available range for instruments provided with Dixbus protocol is Ad2 from 0 to 94.

ENABLE RS485 allows the serial communication with the XJ.

CATEGORY defines the category at which the instrument belongs.

INCLUDE IN AUTOMATIC PRINT allows to add the instrument to the automatic print routine.

SAVE ALARM enables the alarm recording.

SAVE STATUS enables the recording of the functioning status of the instrument.

SAVE INPUT 1..3 enables the recording of the corresponding input probe (normally called Pb1 = probe1, Pb2 = Probe 2 and Pb3 = Probe 3).

MEASURE UNIT defines the measurement unit of the probe value displayed recorded.

SYNCHRONIZE CLOCK DEVICE includes the instrument, only if provided with the clock, to be updated with the XJ500 clock.

*This is necessary for the ModBus network. Dixell instruments

5.5.2 ADD A NEW DEVICE TO THE SETUP

Click the Add button, if there is an XJ500 connected:

Search a single instrument

1. Click the SINGLE ADDRESS box.
2. Set the Ad1 and Ad2 parameters.
3. Click the START button.
4. If the instrument is present and properly programmed, you will find it in the list showed on the right side of this window. The search is concluded.

Search the instruments

1. Click the MULTIPLE ADDRESS box.
2. Set the START searching addresses (0 and 0 in this example).
3. Set the END searching addresses (14 and 14 in this example).
4. Click the START button.
5. You will find a counter that shows the increasing address value of the search. When this counter will reach the END address the search is finished.
6. In the list showed on the right side of this window you will find all the instruments detected. The search is concluded.

5.5.3 ADD THE SAME DEVICE TO THE SETUP

This function allows to add a new instrument compatible with existing devices of the showed setup, without having the XJ500 connected. The new instrument that will be connected must have the same characteristic of the original copy in order to avoid wrong operation during the table programming.

5.6 CATEGORIES AND CLOCK SYNCHRONISM

The screenshot shows the XJSETUP32 software interface. It is divided into two main panels. The left panel, titled 'Setup Category', contains a list box labeled 'List Name' with the following items: 'Low temp', 'Frozen', 'Comp room', 'Vegetable', 'Meat', and 'Cheese'. The 'Low temp' item is selected. To the right of the list box are two buttons: 'Remove' and 'Update'. Below the list box is a text field containing 'Low temp'. The right panel, titled 'All Devices', contains two settings. The first is 'Clock Sincronization Enable' with a checked checkbox. The second is 'Clock Sincronization Interval' with a spinner box set to '1'.

5.6.1 SETUP CATEGORY

This is a list of 16 names that can be used to define the application field of the instrument itself:

To MODIFY one of the names
1. Select one item from the list
2. Change the name under the box with the description
3. Click the UPDATE button.

To REMOVE one name from the list

1. Click one item from the list
2. Click the REMOVE button.

5.6.2 ALL DEVICES

Under this menu the User can activate the CLOCK SYNCHRONISM between the XJ500 and all the instruments provided with the internal clock.

The interval time is expressed in hours eg: with the configuration showed in the above picture, the XJ500 sends a click signal to synchronise the clock of all the instrument, each 1 hour.

6 RUN TIME

The Run Time window allows the user to have in real time on the screen all the data related to the measured temperatures, to the alarms and to the states of all the instruments connected to the XJ500. For each instrument are also displayed the model, the serial address and the category of affiliation.

Device Parameters Setup

Device:	P1	P2	P3	Category:	Model:	Address:
NoName_0_1	-22,0 °C			Celle Bt	XJP60D	001
NoName_0_2	1,3 °C			Celle Bt	XJP60D	002
NoName_0_3	-20,1 °C			Frigoriferi	XJP60D	003
NoName_0_4	-19,7 °C			Celle Bt	XJP60D	004
NoName_0_5	-20,2 °C			Celle Bt	XJP60D	005
NoName_0_6	2,2 °C			Celle Bt	XJP60D	006
NoName_0_7	1,3 °C			Celle Bt	XJP60D	007
NoName_0_8	-20,9 °C			Celle Bt	XJP60D	008
NoName_0_9	-19,5 °C			Celle Bt	XJP60D	009
NoName_0_10	-21,8 °C			Celle Bt	XJP60D	010
NoName_0_11	0,7 °C			Celle Bt	XJP60D	011
NoName_0_12	-21,4 °C			Celle Bt	XJP60D	012
NoName_0_13	1,2 °C	-22,2 °C		Banchi	XR160C	013
NoName_0_14	-6,3 °C			Banchi	XR120C	014
NoName_0_21	No Attivo			Centrale	XJA50D	021
NoName_0_22	No Attivo			Centrale	XJA50D	022
NoName_0_23	Attivo			Centrale	XJA50D	023
NoName_0_24	No Attivo			Centrale	XJA50D	024

6.1 INSTRUMENTS ALARM AND STATUS

6.1.1 INSTRUMENTS STATUS

In the left part of the window they are represented, by means of indicators, the status of the instruments connected to XJ500; they are, in left order toward right: On/Off status (green), Defrost status active/not active (yellow), auxiliary output (blue), light output (orange) and alarm (red). If the indicator is black, it means that the relative state is not active; if the indicator is not present (AUX and light outputs) it means that that particular tool is not endowed with an auxiliary output or light one.

Acting on buttons situated in the lower part of the window it is possible to directly act on the selected tool:

- On/Off to turn on or off the instrument
- Def starts a manual defrost cycle
- Aux operates the auxiliary output (if available)
- Light turns on and off the light output (if available)

6.1.2 SET POINT MODIFICATION

By means of the SET button a window which display the Set Point of the selected instrument is displayed. In this windows is also possible to change instrument's set point.

- 1) Select the desired instrument
- 2) Click on SET button
- 3) Write the new Set Point value on the window
- 4) Confirm the operation with "Confirm" button

6.1.3 ACTUAL AND HISTORICAL ALARMS

In the Run Time window are immediately visualised, through the red indicator, those instruments that are in alarm condition. If the alarm is relative to one of the probes of the instrument, the value of that probe assume different colours according to the type of alarm: it will become red in case of high temperature alarm, blue in case of low temperature alarm or the writing "Err" will be visualised in case of probe failure.

Clicking on the button "Act Alarms" a window containing the details of all the instruments that are in alarm will appear. In this window are displayed the devices and the relevant alarms.

On the button "Act Alarms" is present a red light indicator which can assume 3 states:

- OFF there are no instruments in alarm
- ON flashing there are some tools in alarm and from the last time when the window has been visualised it is present at least a new alarm.
- ON fixed there are some tools in alarm and from the last time when the window has been visualised, any new alarm it is not present.

Clicking on the button "Hyst Alarm" is possible to visualise the alarms history of the selected instrument

6.1.4 CATEGORIES

Using "Category" button is possible to activate a visualisation filter which allows to display on the screen only the instruments belonging to the desired category (or to the desired categories).

6.2 Table of the parameter programming of the instruments

From the Run Time window, by means of the "PARAM" button, it is possible to read, modify and save the parameter configuration of each instrument connected to the RS485 line. This operation is executed when the unit is connected and linked to the program.

TO EXECUTE THIS OPERATION THE PROGRAM WILL STOP THE RECORDING OF THE XJ500 FOR WHOLE THE DURATION OF THE OPERATION. THE RECORDINGS WILL BE RESTORED AT THE END OF THE PROGRAMMING.

Device Parameters Setup: Milk Cabinet1 - Normal Temp - XR570C - Address:008 012					
	Label	Original Value	New Value	Limits	Parameters description
Parameter column	SEt	26,0	26,0	-50,0 / 50,0	SetPoint
	Hy	2,0	2,0	0,5 / 50,0	Differential
	LS	-25,0	-25,0	-50,0 / 50,0	Minimum set point
Value read from the instrument	US	50,0	50,0	-50,0 / 50,0	Maximum set point
	AC	1	1	0 / 30	Anti-short cycle delay (min)
		0	0	0 / 30	Output activation delay at start up (min)
Column where the User can change the value	ALC	Relative	Relative	Relative-Absolute	Set point alarm configuration
	ALU	1,0	1,0	-50,0 / 50,0	MAXIMUM temperature alarm
	ALL	1,5	1,5	-50,0 / 50,0	Minimum temperature alarm
	ALd	0	0	0 / 255	Temperature alarm delay (min)
	dAD	0,0	0,0	0,0 / 23,5	Delay of temperature alarm at start-up
	EdA	30	30	0 / 255	Alarm delay at the end of defrost (min)
Range of the parameter value			3	0 / 24	Compressor ON time during fast freezing (hours)
	dAF	2,0	2,0	0,0 / 23,5	Defrost delay after freezing
	IdF	6	6	1 / 99	Interval between defrost cycle (hours)
	MdF	15	15	0 / 255	Maximum lenght for defrost (min)
	SdF	0,0	0,0	-30,0 / 30,0	Set point for SMARTFROST
				-50,0 / 50,0	Defrost termination temperature
	dFd	Start	Start	Real-Start-Set-Defrost	Temperature displayed during defrost
	dAd	30	30	0 / 255	MAX display delay after defrost (min)
All Load Map Save Map Send Send To... Find... Exit					
To select the parameters by type of function To load a parameter map from the PC To save a parameter map into the PC memory To update an instrument with the current programming map To update the compatible instruments with the current programming To find all the parameters having a common word					

6.2.1 CHANGE A PARAMETER VALUE

1. Click the parameter under the "New Value" column;
2. Push Enter key from the keyboard of the PC;
3. Type the new value or select it from the proposed menu;
4. Push ENTER key to confirm.
5. The new value will be marked with green colour.

6.2.2 "SEND" COMMAND

The SEND command updates the selected instrument with the displayed parameters:

1. When the new programming is finished, click "SEND" key to update the instrument.
2. Confirm that you want to proceed with the update by clicking "Yes".

IMPORTANT NOTE

After receiving the new programming, the instrument will be automatically reset to allow a proper parameter reloading. In case of big compressors it is advisable to set the Power on delay parameter of the instrument itself.

If you push EXIT key and then from the previous menu, you select the same instrument again, under the "Original Value" column all the data changed and updated, will be marked with the blue colour to remember the User which is the old value of the parameter.

6.2.3 "SEND TO" COMMAND

The SEND TO command can update the selected compatible instruments with the showed parameter map :

- 1) Click the "SEND TO" button;
- 2) Click YES to proceed;
- 3) Select the devices to update;
- 4) Click OK to confirm.

IMPORTANT NOTE

After receiving the new programming, the instruments will be automatically reset to allow a proper parameter reloading. In case of big compressors it is advisable to set the Power on delay parameter of the instrument itself.

6.2.4 "LOAD" AND "SAVE" COMMANDS

These buttons allow to save and load the original or the modified programming maps, in order to be used for different applications and saving time during the setup operations. Remember that it is not possible to load and send a parameter map which not corresponds with the software release of the instrument selected.

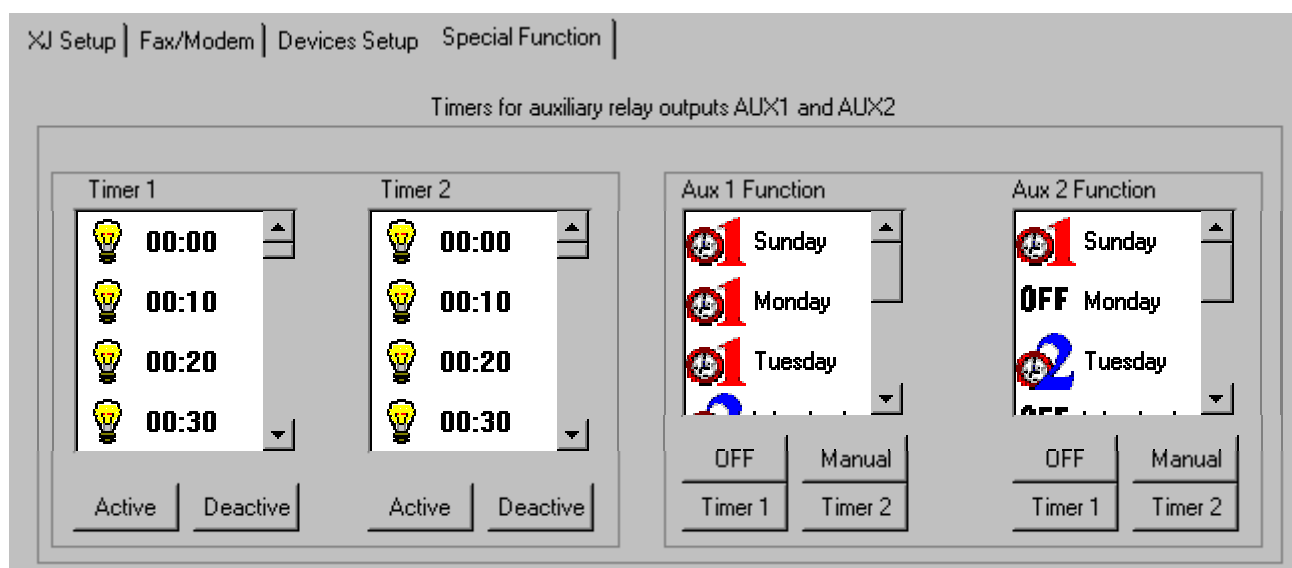
IMPORTANT NOTE FOR THE MAP MANAGEMENT

It is important to save the map with a recognisable name even after several months. Eg: Milk090698 (name and date of the operation). It is further important to create a folder identified by the application or the User name.

Each instrument version is described by a driver. This driver contain the identification data for the programming map. If you connect new instrument to an old installation you may find that the instrument map can not be loaded because the driver is not present. You can request the updated driver or find them in our web site under a protected area.

7 SPECIAL FUNCTION

Under this menu the User can program the Timer 1 and 2 to control the auxiliary relay, the synchronised defrost and the stand-by function.



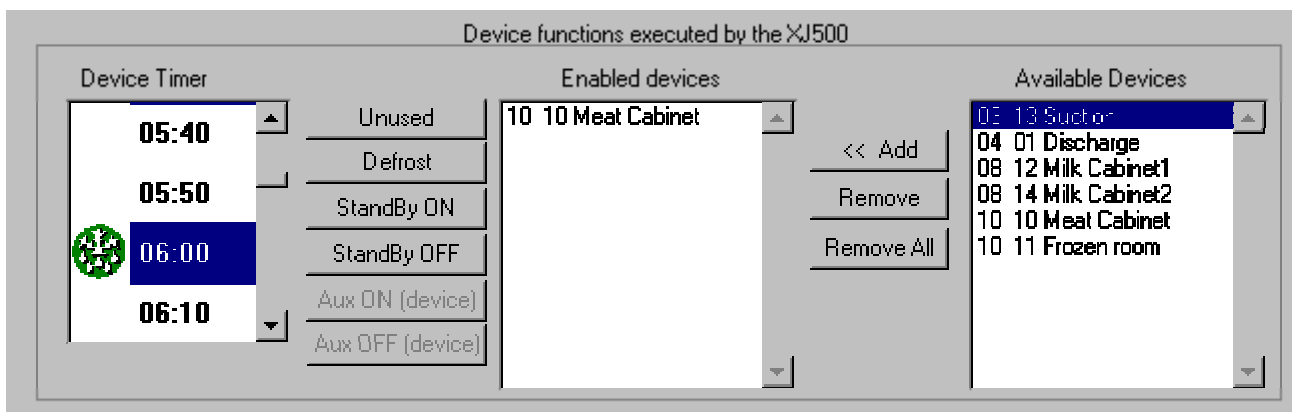
7.1.1 AUXILIARY RELAY

This menu offers the possibility of defining for both the auxiliary relays, a daily ON/OFF cycle based on the Timer 1 and 2 and controlled by the XJ500 clock.

Supposing that you have to turn on the light of the shop from the 08:00 (08:00 am) until 12:30 (00:30 pm) O'clock in the morning and from 16 to 20 O'clock in the afternoon from Monday to Saturday by using the relay AUX 2:

- 1) Move the cursor of Timer 1 until 08:00 appears;
- 2) Click the time 08:00 and keep the mouse button pushed;
- 3) Move down the mouse pointer until 11:50 appears;
- 4) Release the mouse button at 11:50 and then click on the ACTIVE button;
- 5) A lamp icon will indicate that during the selected time the relay output is ON.
- 6) Move the cursor of Timer 1 until 16:00 appears;
- 7) Click on the time 08:00 and keep the right button pushed;
- 8) Move down the mouse pointer until 19:50 appears;
- 9) Release the right mouse button; then click on the ACTIVE button;
- 10) Now look at AUX 2 FUNCTION;
- 11) Select Sunday and click on the OFF button;
- 12) Select Monday to Saturday and then click on the Timer 2 function.

7.2 DEVICE TIMER



7.2.1 SYNCHRONISED DEFROST

The synchronised defrost executes a programmed defrost cycle for one or more instruments. This function is based on the Real Time Clock of the XJ500 and allows to keep under control the whole defrost system simply by sending the defrost impulse to all that instruments included in the "Enabled devices" list. If for any reason, the communication between the XJ500 and the devices is lost, each instrument will automatically run its independent defrost cycle. Supposing that at 06:00 in the morning two of the available instruments of the setup have to execute a defrost:

- 1) Under the "Device Timer" window, move the cursor and select the 06:00 time value;
- 2) Click on DEFROST button and the defrost icon will appear on the left;
- 3) From the "Available Device" list, select the instrument(s) that have to defrost at this time;
- 4) Push "<< ADD" button to activate the function.

7.2.2 SERVICE STAND-BY

The Device timer also allows to set a time duration during which the XJ500 does not compute the temperature values and the alarm conditions of the selected instrument; this function is called "STAND-BY".

For example a display cabinet is not used during the night time because the food is stocked in another cold room. Suppose that this cabinet from the 20:00 (08:00 pm) to 08:00 (08:00 am) will be in stand-by, therefore:

- 1) select the time 20:00 (08:00 pm);
- 2) click on Stand-by ON;
- 3) select the instrument under available device and click "<< Add";
- 4) select the time 08:00 (08:00 am);
- 5) click on Stand-by OFF;
- 6) select the same instrument under available device and click "<< Add".

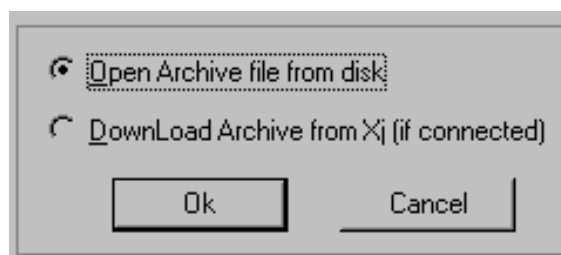
8 DATA MANAGEMENT

This section concerns the management of the recorded data downloaded from the XJ500 memory or from an existing file.

8.1 Select the source of the data

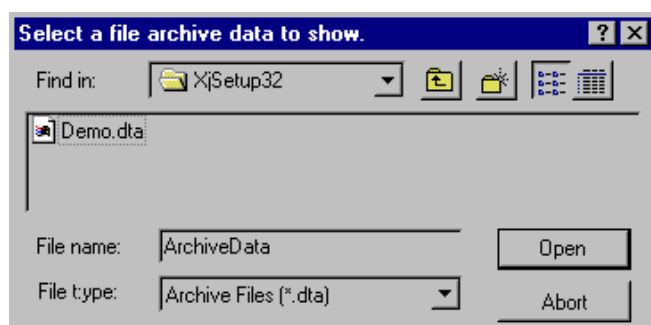
By clicking on this icon the User can load an archive of data in order to show it on the display as table or graph formats.

The data can be selected from two sources: the memory of your PC or the XJ500 connected:



8.1.1 LOAD THE DATA FROM THE PC

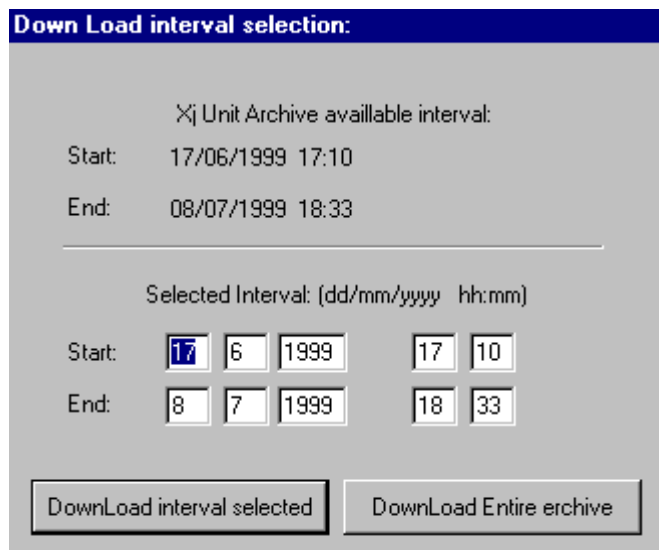
If you select "Open archive file from disk", click the archive name from the following windows and then click "Open":



8.1.2 DOWNLOAD THE DATA FROM THE XJ500 MEMORY

If you select the "Download from the XJ500 unit", you will be required to type the new archive name that you are going to download, then click on "Open".

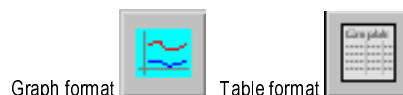
With the following option it is possible to download the entire archive of data or, by selecting the "Start Date" and the "End Date", just a part of it :



Then program will start to download the data from the XJ500, the duration depends on the number of recorded data (the maximum download speed is 38400 bit/s).

8.2 Data editing

When the file is completely loaded, to display the data in graph or table format by clicking one of the following icon (See next chapters):



8.3 Data exporting

This option allows to export the loaded file into a ".txt" format file which can be displayed with a standard text editor or can be converted in ".xls" Excel format:

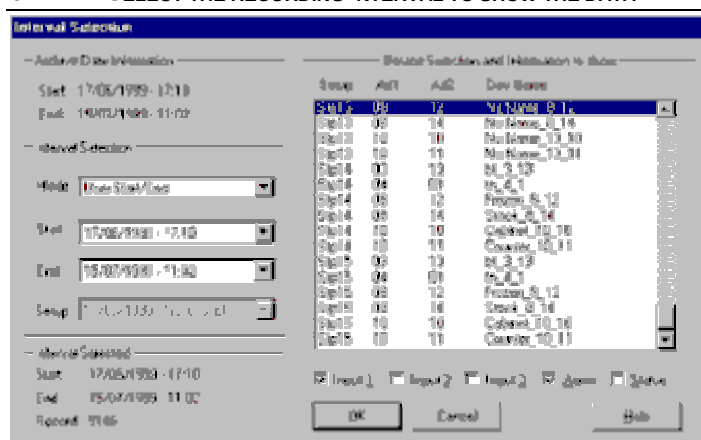
IMPORTANT NOTE

If you are working with the release 1.51 or 1.52 the data recorded will not include the recording of the compressor status.

9 GRAPH EDITING

This options allows to display the behaviour of the probe values with the corresponding alarms and the functioning status in graph format. The data can be computed from the whole recording, through a selection of a defined period of time or by setup order.

9.1.1 SELECT THE RECORDING INTERVAL TO SHOW THE DATA



1. Select "Mode = USER START/END" to set manually the Start date and the End date of the period you want to display.
2. Select "Mode = BY SETUP" to search among the different setup configurations executed during the XJ500 life.

SELECT THE INSTRUMENT

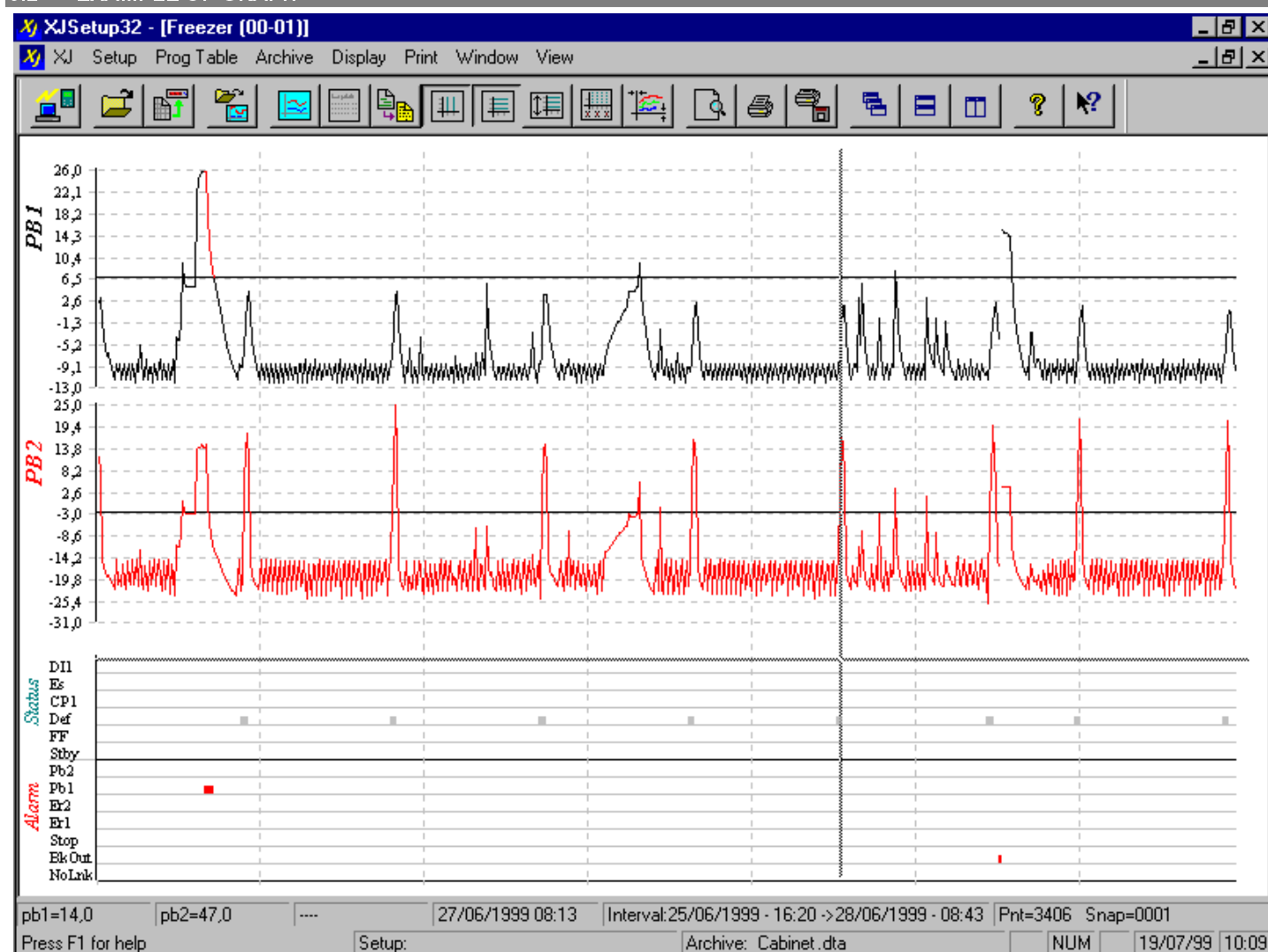
After selecting the time period as the above description, on the right side, the User must select one of the available instruments.

The "Stp" column indicates at which setup group the instruments belongs (in this example there has been three different setup STP1, STP2 and STP3).

Select which are the data to display and click "OK" :

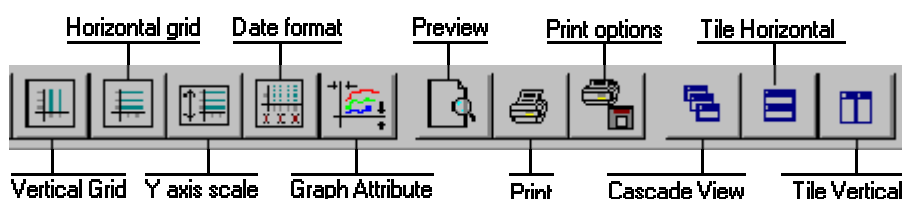
☒ Input 1 ☐ Input 2 ☐ Input 3 ☒ Alarm

9.2 EXAMPLE OF GRAPH



Where the line is interrupted there has been a communication loss (No link) or a Black-out event.
REMEMBER that the resolution of the graph depends on the TIME INTERVAL parameter.

9.2.1 ICONS OF THE OPTION BAR



VERTICAL GRID enables/disables the vertical grid.

HORIZONTAL GRID enables/disables the horizontal grid.

Y AXIS SCALE allows to change the value of the Y axis. This option is useful when it is necessary to compare two different graphs having a different Y scale.

DATE FORMAT allows to print the graph based on the full date DD:MM:YY or just with the Week/YY format.

GRAPH COLOURS allows to modify the colour of the objects included into the graph to adapt the layout in order to obtain an easier read-out or print.

Under the graph setup window it is possible to change:

the colour and the thickness of the curves;

the background colour;

the colour and the thickness of the grid;

the colour of the alarm and status lines;

the axis thickness

PREVIEW allows to shows the graph layout before the printing.

PRINT executes the print command.

PRINT OPTIONS defines the printer setup. For example if the graph information are too small set the resolution of the printer from 600 to 300 dpi.

CASCADE VIEW is used to recognise the number of graph areas open.

TILE HORIZONTAL is used to compare the different graph areas horizontally.

TILE VERTICAL is used to compare different graph areas vertically.

9.3 File Information Bar

Probe Values		Recording date/time	Archive interval time actually showed	Recording number	Snap value
Pb1=35.0	Pb2=26.0	27/06/1999 10:27	Interval: 24/06/1999 - 21:42 -> 29/06/1999 - 14:42	Pnt=5927	Snap=0001
Press F1 for		Setup: MARKET.xls	Archive: MARKETDATA.dta	MA NUM	03/08/99 09:56
Name of the Setup loaded		Name of the graph file loaded			

By moving the mouse pointer inside the graph area, the probe and the time/date values are showed in the File information bar positioned in the low side of the graph.

Pb1..Pb3 determine the value of the three probes and the recording date read by the position of the mouse pointer. The probe value is showed only if the probe has been previously selected and recorded.

RECORDING DATE/TIME corresponds to the date and time of the recording values of Pb1, Pb2, Pb3 and selected by the mouse pointer.

The **INTERVAL** label defines the start and the end date of the archive loaded.

PNT determines the number of points recorded.

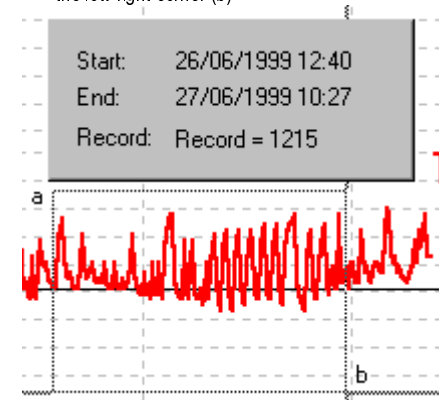
SETUP shows the setup file actually loaded while

ARCHIVE shows the file of data you are looking at.

9.3.1 ZOOM

To "ZOOM IN"

1. click the left button of the mouse to the top left corner of the area to enlarge (a)
2. keeping the left button clicked, move the pointer to the low right corner (b)



3. leave the mouse button.

During this operation a window will show the start date, the end date and the number of recording selected during the zoom operation.

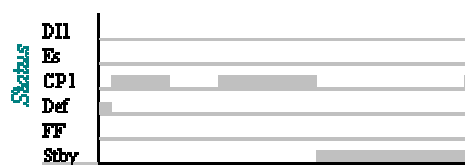
9.3.2 ZOOM OUT

To zoom out the picture, simply click the right key of the mouse.

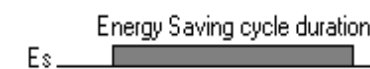
9.3.3 SNAP

After a zooming, the **SNAP** function allows the User to scroll left or right the graph. This operation is simply executed with the Left and Right arrows of the keyboard. To increase or decrease the snap step use the Up and Down arrows.

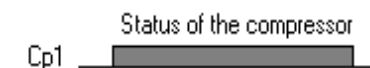
9.4 Status of functioning



"Stat" determines a digital input activation.



"E s" determines the duration of the Energy Saving function.



"Cp1" determines the status of the compressor output. When using the XC models, the labels can be from Cp1 up to Cp6.



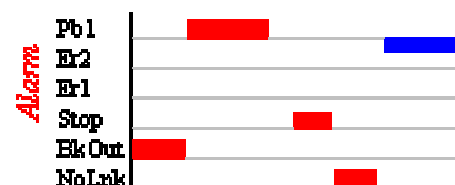
"Def" determines the time period of the defrost function.

"FF" determines the continuous cycle period.



"Stby" determines the time duration of the stand-by period of an instrument. During this time no recordings and alarm are not managed.

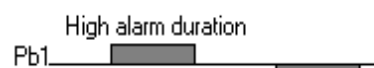
9.4.1 ALARMS



Digital Input alarm status



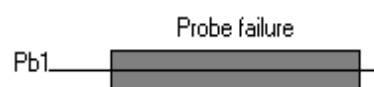
"DI" determines the alarm status of the digital input.



Low alarm duration

"Pb1..Pb3" determines the high or low alarms referred to the probe (Normally Pb1 = room, Pb2 = Evaporator, Pb3 = Insert or condenser probe).

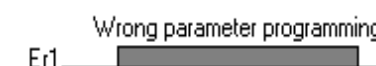
All the instrument which are not provided with the evaporator and the third probe, will be showed without Pb1 and Pb2 labels.



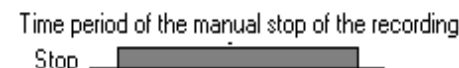
When one of the instrument probes is broken and the display shows the "P1", "P2" or "P3" alarm messages.



"Er2" determines the duration of the Real Time Clock alarm of an instrument.



"Er1" determines the duration of a wrong parameter programming.



"Stop" determines the time period of the manual stop of the recordings executed by the User from the keyboard or from the modem connection.



"BkOut" determines the duration of a power failure (black out).



"NoLnk" determines the duration of a no link (This is a communication alarm).

REMEMBER that all the information are displayed with a precision determined by the sampling time value programmed under the parameter STORE INTERVAL.

10 TABLE FORMAT

Interval Selection

Archive Date Information
Start: 27/01/1999 - 12:22
End: 06/07/1999 - 18:30

Interval Selection
Mode: User Start/End
Start: 27/01/1999 - 12:22
End: 06/07/1999 - 18:30
Setup: 27/01/1999 - 12:22 Stp1

Interval Selected
Start: 27/01/1999 - 12:22
End: 06/07/1999 - 18:30
Record: 38629

Device selection and Information to show

Setup	Ad1	Ad2	Dev Name
Stp17	02	01	Unit #2
Stp17	02	02	Unit #3
Stp18	00	01	Freezer
Stp18	00	02	Produce
Stp18	00	03	Beer/Beverage
Stp18	00	04	Bread Fridge
Stp19	00	01	Freezer
Stp19	00	02	Produce
Stp19	00	03	Beer/Beverage
Stp19	00	04	Bread Fridge
Stp19	00	05	No Name
Stp20	00	01	Freezer
Stp20	00	02	Produce
Stp20	00	03	Beer/Beverage
Stp20	00	04	Bread Fridge
Stp20	00	05	Skin Fridge

☒ Input 1 ☐ Input 2 ☐ Input 3 ☒ Alarm ☐ Status

OK Cancel Help

After loading an archive file, by clicking the Edit Table icon the User is allowed to select the data to show in table format:

The XJ500 also records unexpected events that may happens during the recording such as the power fail, manual stop of the recordings, no link etc. All of them will be recorded and showed by the corresponding message under the ALARM column.

- Select "Mode = USER START/END" to set manually the Start date and the End date of the period that you want to display.
- Select "Mode = BY SETUP" if you want to search among the different setup configurations the one you are interested in.

Date and time of the sampling	Name of the instrument	Functioning status
Step (00-02)		
Date - Time	PB1	PB2 STATUS ALARM
21/01/1999 - 12:03	6.2	no data Def
21/01/1999 - 12:04 Stop Rec		
21/01/1999 - 12:13	NoLnk	NoLnk NoLnk
21/01/1999 - 12:13 Stop Rec		
21/01/1999 - 12:13	6.2	no data [PB1]
21/01/1999 - 12:15	6.3	no data [PB1]
21/01/1999 - 12:17	6.3	no data [PB1]

The events recorded here can be:
1) Manual Stop of the recordings
2) Setup change

Red = high alarm
Bleu = low alarm

CP1 = Compressor
Def = Defrost
CC = Fast Freeze
ES = Energy Saving

Stby = Stand-by
NoLnk = no link
Bkout = Black-out

Alarm message

- After selecting the time period as the above description, on the right side the User must select one of the available instruments, the "Stp" label indicates at which setup group the instruments belongs (in this example there has been three different setup STP1, STP2 and STP3). Select which are the data to display and click "OK".

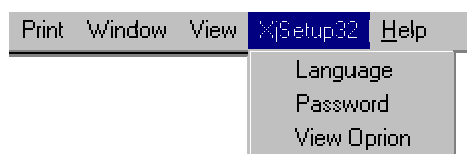
If you are trying to load big interval time the program will display a warning message in to inform you that it will take some minutes to compute the data. If this period is too long push the ESC key from the PC keyboard and re-select a shorter interval time of recordings from the previous menu.

10.1.1 READ-OUT INFORMATION

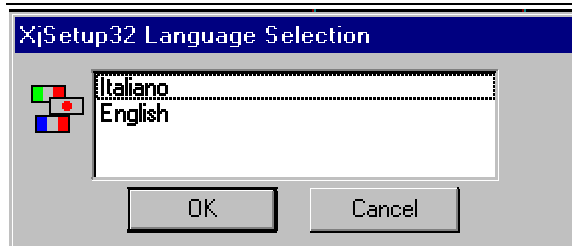
The table can display the probe value of Pb1, Pb2 or Pb3 if they are enabled to be recorded. It is easy to recognise the different changes of the status.

11 XJSETUP32 OPTIONS

The Menu Bar contains all the commands executed by the Icon Bar. For example the User can open an archive by clicking the XXXX icon or selecting Open Archive from the Menu Bar. By clicking the XJSETUP32 element from the Menu Bar (on the right side), the User is allowed to change some of the features of the program itself:



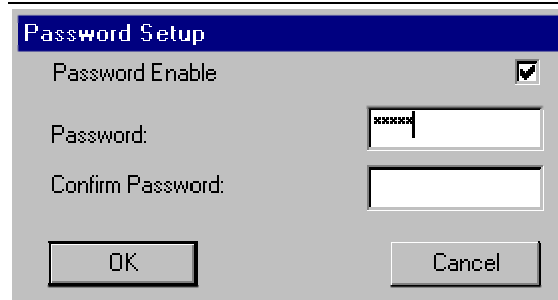
11.1.1 LANGUAGE



Select the language and then click OK, then the program will be automatically shut down and re-started to load the new selection.

If the required language is not present in the list, ask for the updated library. By the end of 1999 the available item will be: Italian, English, Spanish, French, Portuguese, German and Dutch.

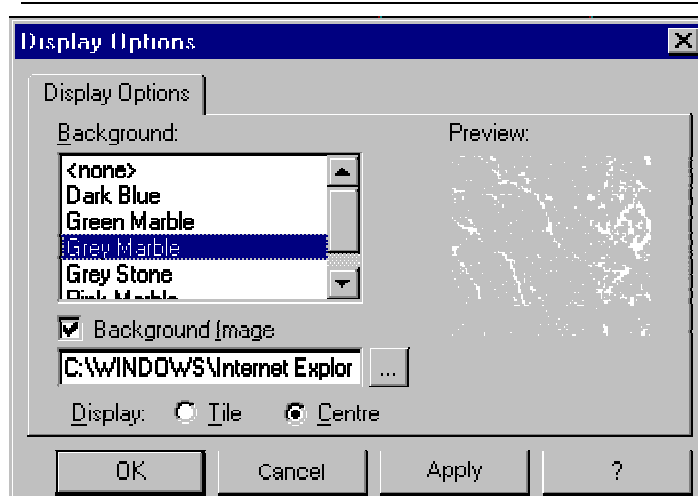
11.1.2 PASSWORD



Under this menu the User can limit the free access to the program through a password. To add a new password click the Password Enable box, type the pass name under Password, type the same pass name in Confirm Password and click OK to confirm.

To disable the password click the Password Enable box and then OK.

11.1.3 VIEW OPTION



Display Option allows to select the background colours of the XJSETUP32 window or load an image from the hard disk.

12 SOFTWARE UPDATING

This operation can be executed only by ordering the updating files, and it supports the change from the 1.51 or 1.52 versions to the 2.00 referred to this manual.

WARNING!

After starting this operation any interference with the updating process is strictly forbidden.

Do not play with the XJ500 or with the PC keyboards until the end process message appears.

This operation can be carried out both through Local and Remote connection. If you want to proceed with the software updating through modem connection be sure that the communication is not disturbed.

To start the operation select, under the Menu bar, the <XJ - Update Software> element.

13 TROUBLESHOOTING LIST

CONNECTION	PROBLEM	TIP
The NO SYSTEM FOUND or the ERROR READ ARCHIVE DATA LENGTH messages appear.	1. The LAP-LINK cable is not properly connected. 2. You are not using a LAP-LINK cable.	1. Check the connections. 2. Check the LAP-LINK cable type that must be a 9 pin Female - Female.
It is impossible to connect the XJ500 through the modem.	1. The phone number is wrong. 2. The access password is wrong. 3. The line is not free. 4. Your modem is off. 5. The other modem is off.	1. Check the phone number. 2. Check the password value. 3. Retry the connection after some minutes. 4. If your modem is off the program will signal it. 5. If the help continuously shows "WAITING CARRIER" your modem is waiting the answer from the other modem not from the XJ500 unit.
The communication through the modem is executed but it often breaks down.	1. The phone line is over loaded. 2. The baud Rate speed between the XJ500 and the XJSETUP32 is not the same. 3. The modem can not support a speed Baud Rate lower than 38400.	1. Retry the connection after some time. 2. Start from 38400 and then try to decrease the speed rate. 3. Some ISDN line need a minimum speed that could be not supported by the modem.

PARAMETER PRG.	PROBLEM	TIP
The parameter map of the instrument you are searching for, can not be showed.	1. The instrument is too old and is not compatible (before November 1998). 2. The instrument is a new model and there isn't the descriptive driver. 3. There is a NO-LINK alarm.	1. Change the instrument with a compatible one. 2. You can request the updated driver or find them in our website under a protected area. 3. Check the origin of the no-link.

DOWNLOAD SETUP	PROBLEM	TIP
The ERROR READ message appears on the screen.	The communication between the XJSETUP32 and the XJ500 is broken down.	Check the connection.
The SYSTEM CONFIGURATION window is not complete with all the parameters of the XJ500.	The XJ500 version is older than this program and does not allow to use some functions.	You can update the XJ500 software (CAP11) with the last software release or accept to work with the available parameters.

DOWNLOAD DATA	PROBLEM	TIP
The ERROR SYSTEM NOT LINKED message appears on the video.	The Xj500 is not linked with the XJSETUP32.	Check the connection cable.
The NO DATA AVAILABLE ON XJ SYSTEM appears on video.	There are no recordings inside the XJ500 memory.	Start the recordings.

PRINTS	PROBLEM	TIP
The name of the system, the date and time are too small.	The print out is set for 600 dpi.	Click the PRINT OPTION icon and set the print property to 300 dpi.
The print out is not legible.	The graph features are not the best for the printer type you are using.	Set the GRAPH SETUP to adapt the colours and thickness of the lines and the grid.



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