

ACCESSORY

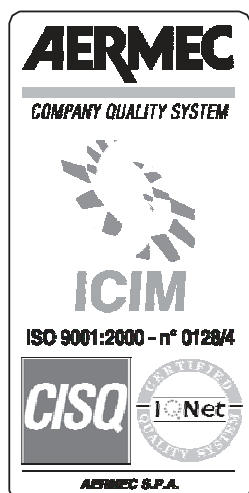
Installation and usage

Connection system with serial connection

Connection system with remote connection

Connection system with GSM modem connection

AERWEB30 Connection KIT



INSTALLATION AND USAGE

Dear customer,

Thank you for buying an AERMEC product. This product was designed based on our multiannual experience and on special engineering studies; it was built using very high quality materials and state-of-the-art technologies.

The product quality level is constantly monitored; this is why AERMEC products mean Safety, Quality and Reliability.

Any information could be modified anytime without prior notice with the purpose of improving this product.

**Thank you again.
AERMEC S.p.A**

PRODUCT DESCRIPTION

AERWEB is a control and monitoring system based on the “WEB server” technology. The server can send information to an external client, working in the same way as a normal Internet Web server. The only need is for the server to be equipped with an Internet browser such as Microsoft Explorer® o Netscape®. Web pages, including all information attached, are included in the server; the µc-Linux operating system ensures maximum efficiency and safety. The server can read, file and check all information coming from any device connected to the RS485 serial line. The communication protocol is Modbus-Rtu.

OPERATING FEATURES OF THE AERWEB ACCESSORY

- Monitoring, filing, management and recording of alarms for all connected devices. Management of alarms defined by the user; the possibility to use e-mail, fax or SMS messages ensures maximum flexibility.
- Interactive management of controls from and for devices
- Tabular programming.
- Graphic and tabular management of information stored during device operation.

MINIMUM SYSTEM REQUIREMENTS FOR THE PC CLIENT

In order to connect from a PC client, the PC client must meet the following minimum system requirements:

Windows 98® or later, Pentium II 300MHz with at least 64 MB RAM, Java Virtual Machine, Explorer 5.5 or later.

If needed, the CD- ROM includes the Java Virtual Machine distribution by Sun® Microsystems. Aermec S.p.a. cannot be held responsible for any kind of damage or loss of data caused by the installation of Java Virtual Machine.

CLIENT – SERVER CONNECTION POSSIBILITIES

The connection between the AERWEB device and a PC client can be managed using one of the following methods:

- Via Modem: point-to-point connection using the modem connected to AERWEB and the one equipped with the PC client;
- Via serial cable: direct connection to a PC using a serial cable.

The above mentioned connecting methods will be described separately in this manual.

CONTENTS OF THE AERWEB 30 KIT

- No 1 AerWeb30 device
- No 1 RS485 serial cable
- No 1 CD-ROM for installing data monitoring software.
- No 1 Installation and usage manual
- No 1 "Omega" guide, 35 mm
- No 1 Shielded, 2-pole cable, 1.5 m

CONTENTS OF THE GSM AERMODEM KIT

- No 1 GSM MODEM with mini CD-ROM
- No 1 Component for securing the device to the Omega guide
- No 1 GSM antenna with connection cable
- No 1 power supply cable with power-supply unit
- No 1 RS485 serial cable

CONTENTS OF THE AERMODEM KIT

No 1 Analog MODEM AERMODEM

No 1 “Omega” guide, 35 mm

No 1 Telephone cable

No 1 RS485 serial cable

No 1 Installation Instruction Sheet

NOTE

For each board connected to AERWEB 30, the board accessory AER485 is needed for GR3 boards and the AER485P2 accessory is needed for pCO2 boards



1. AERWEB30



2. AERMODEM



3. RS 485 CABLE



4. TELEPHONE CABLE



5. GSM AERMODEM



**6. AERMODEM
POWER SUPPLY**



7. GSM ANTENNA



8.AER485



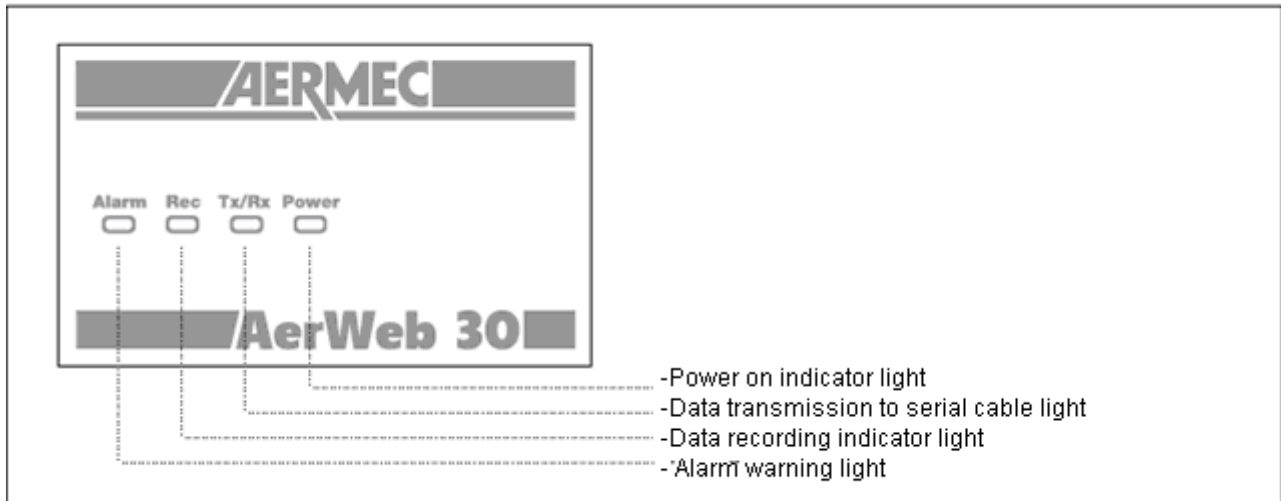
9. OMEGA GUIDE



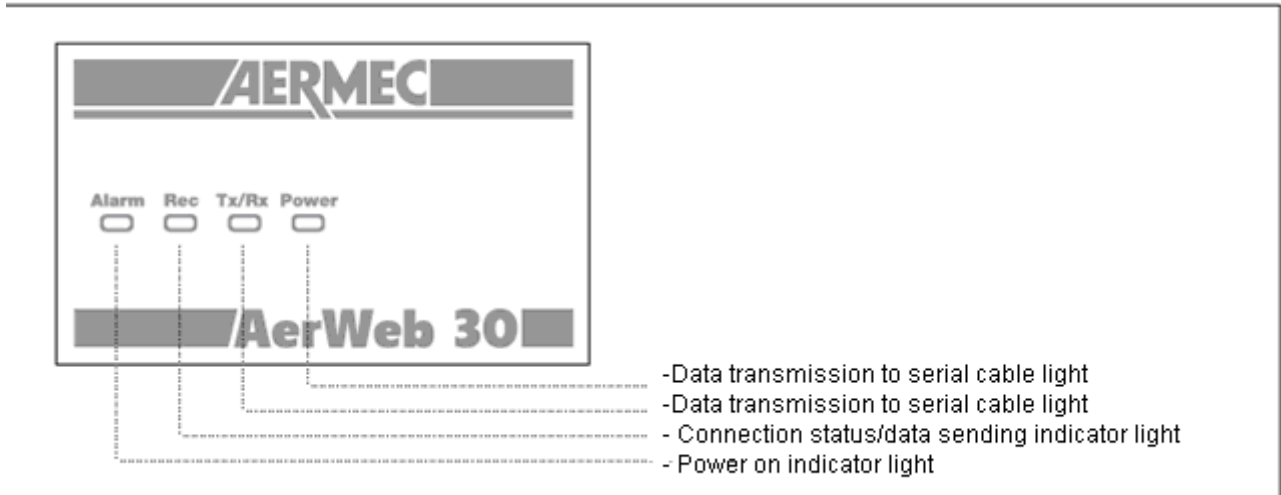
10.AER485P2

DEVICE INDICATOR LIGHTS

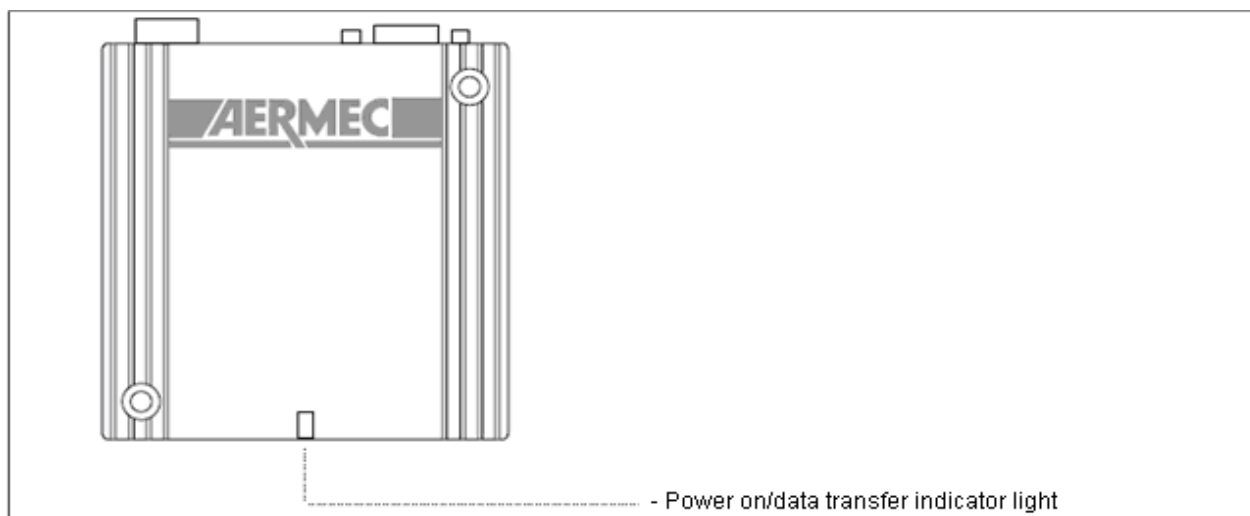
AERWEB 30 DEVICE INDICATOR LIGHTS



AER MODEM DEVICE INDICATOR LIGHTS

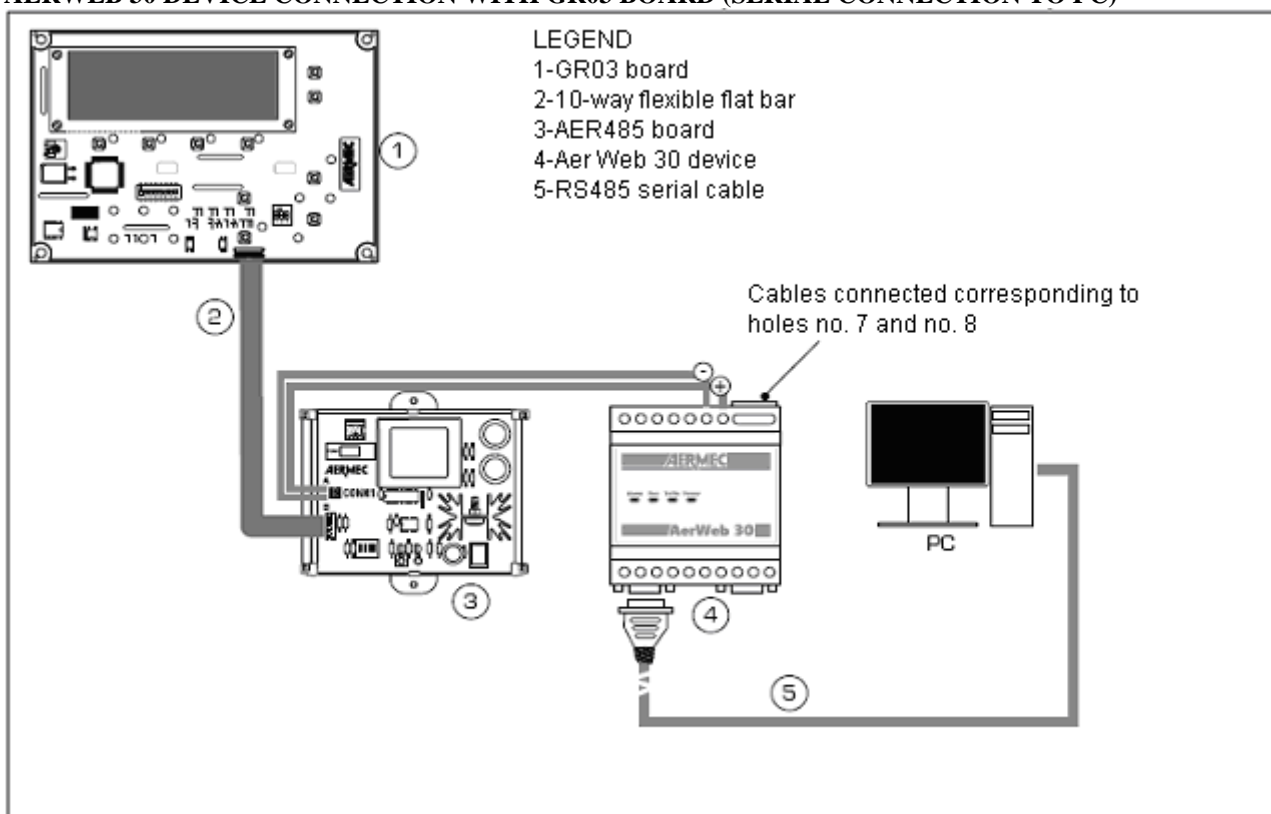


GSM AER MODEM DEVICE INDICATOR LIGHTS

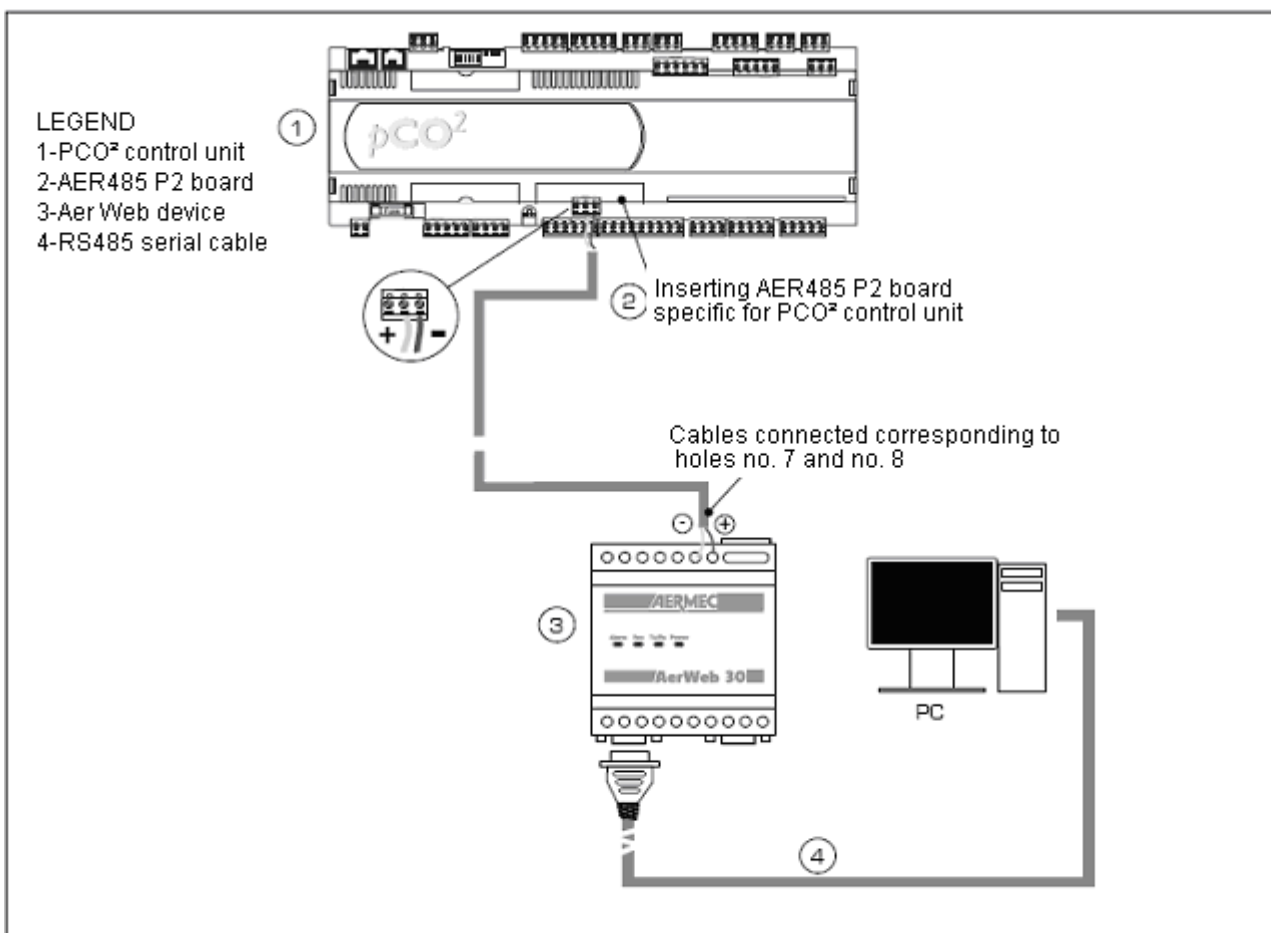


CONNECTIONS

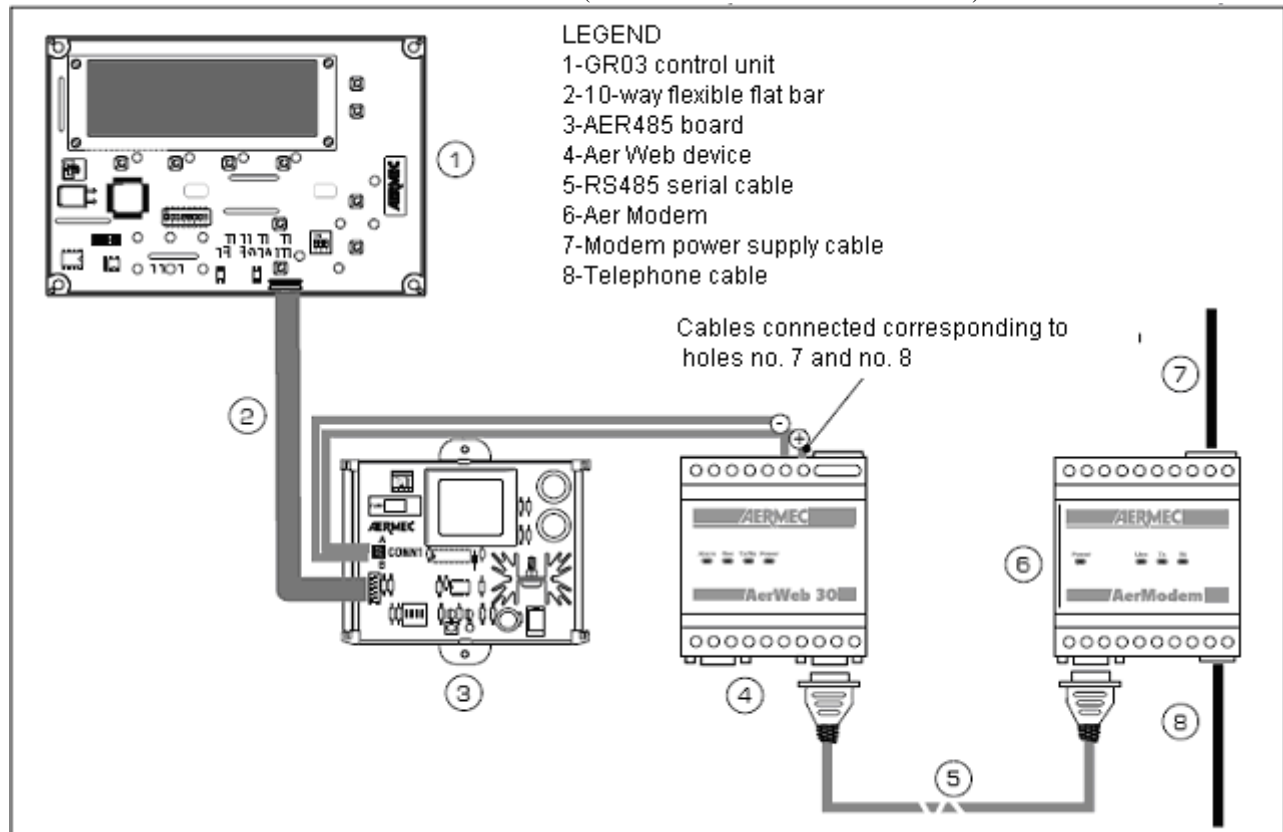
AERWEB 30 DEVICE CONNECTION WITH GR03 BOARD (SERIAL CONNECTION TO PC)



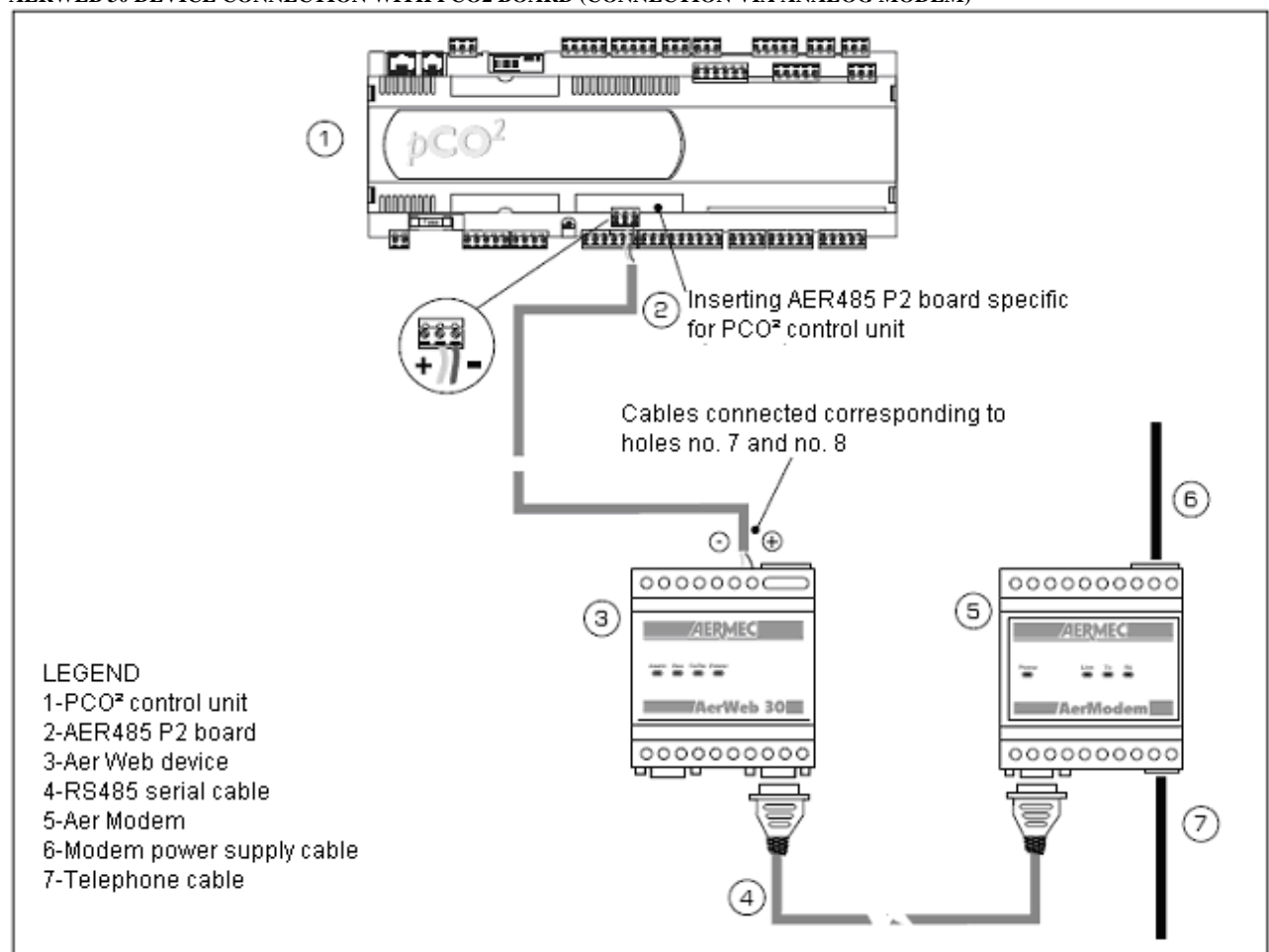
AERWEB 30 DEVICE CONNECTION WITH PCO2 BOARD (SERIAL CONNECTION TO PC)



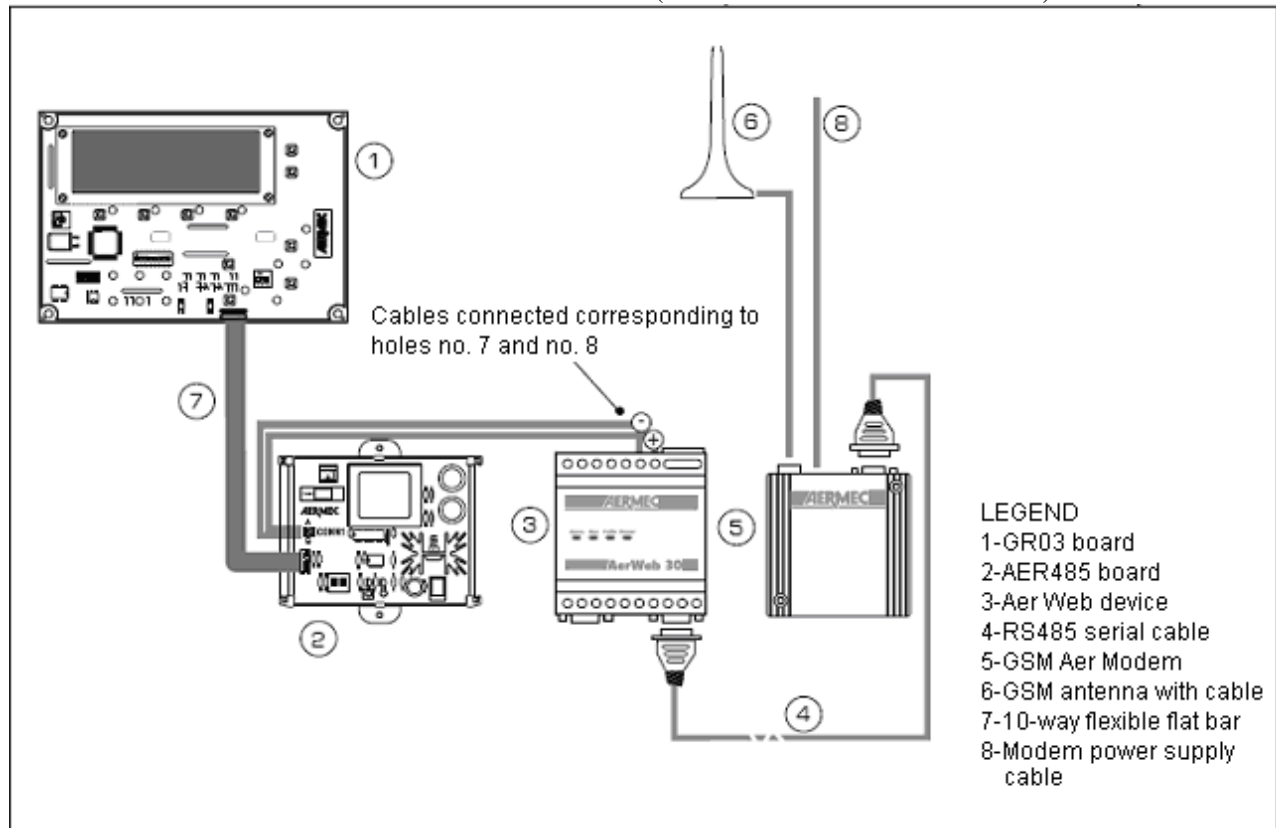
AERWEB 30 DEVICE CONNECTION WITH GR03 BOARD (CONNECTION VIA ANALOG MODEM)



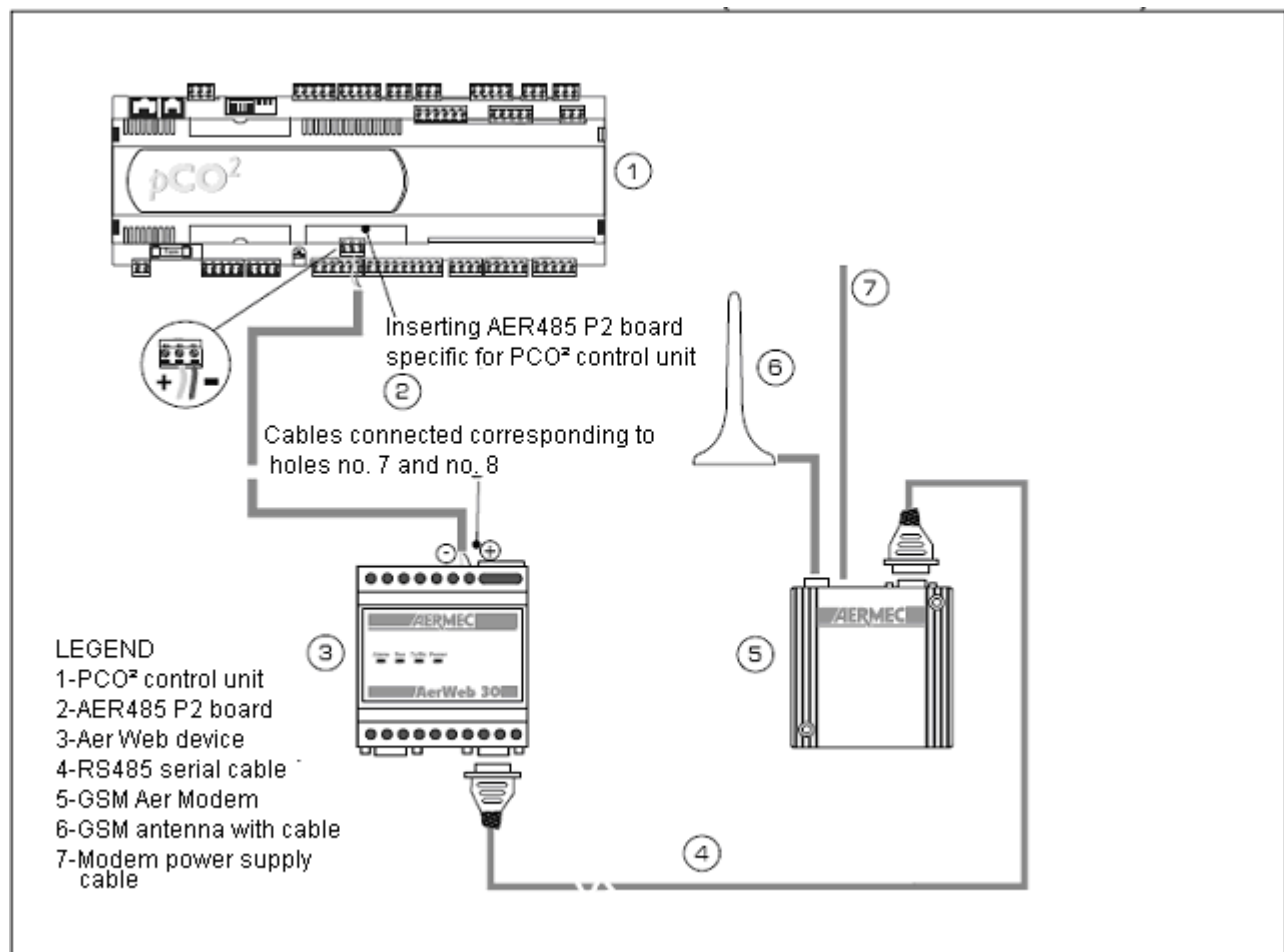
AERWEB 30 DEVICE CONNECTION WITH PCO2 BOARD (CONNECTION VIA ANALOG MODEM)



AERWEB 30 DEVICE CONNECTION WITH GR03 BOARD (CONNECTION VIA GSM MODEM)



AERWEB 30 DEVICE CONNECTION WITH PCO2 BOARD (CONNECCTION VIA GSM MODEM)



INSTALLING COMPONENTS

NOTE:

A maximum of 9 BOARDS can be connected to EACH single AERWEB 30. The RS485 line should reach all boards to be monitored. All telephone operators can provide SMS and DATA traffic; however, SIM Card enabling depends on the model and on the operator. Some SIM Cards provide VOICE and DATA traffic, while other SIM Cards provide only one of these two services at a time (VOICE or DATA).

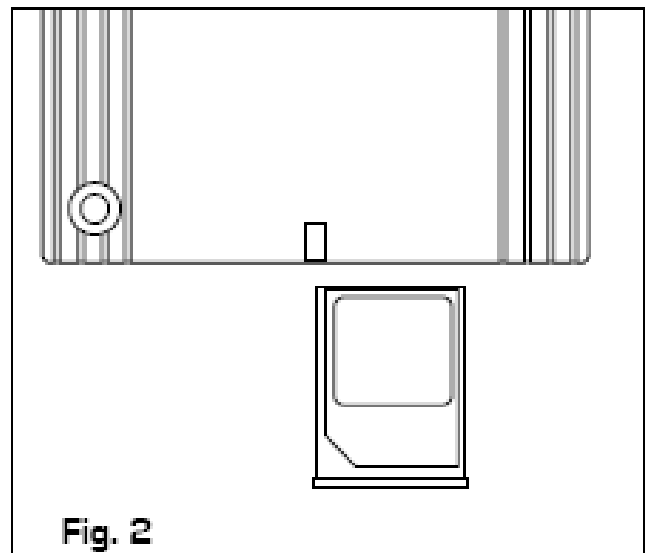
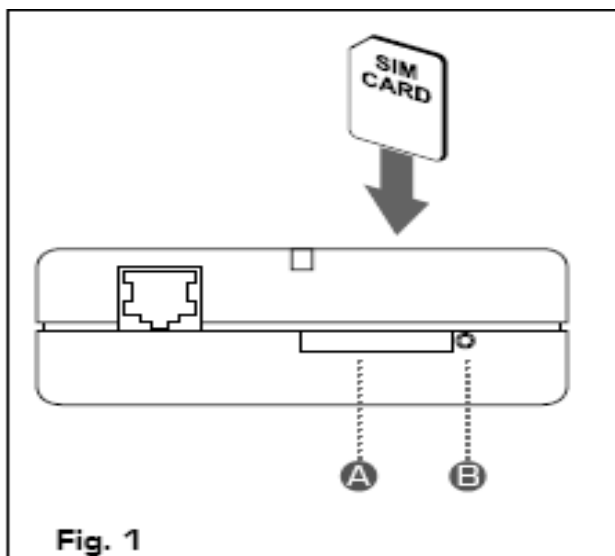
Contacting your telephone operator, you can get updated information regarding different SIM Card models available and request DATA traffic to be enabled on a SIM Card which does not provide this service, if possible.

PREPARING THE GSM MODEM

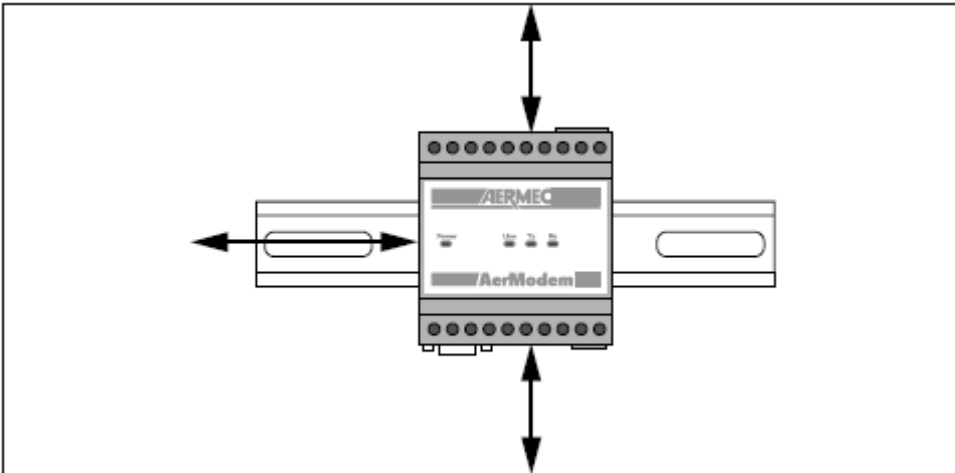
Before starting, insert a SIM Card in the GSM modem to make a connection with your telephone operator. The SIM Card should be enabled for SMS and DATA two-way transmission. We recommend contacting your local mobile phone operator for information regarding SIM Cards or telephone contracts enabled to such purpose.

INSERTING THE SIM CARD

When inserting the SIM Card, please refer to picture “1” showing the device lower side; use a sharp object to press the small “B” button and open the “A” compartment where the SIM Card will be inserted. Remove the tray and insert the SIM Card as shown in picture 2, keeping the electric contacts facing upwards. After that, carefully reinsert the tray in the modem.



INSTALLING THE MODEM ON GUIDES

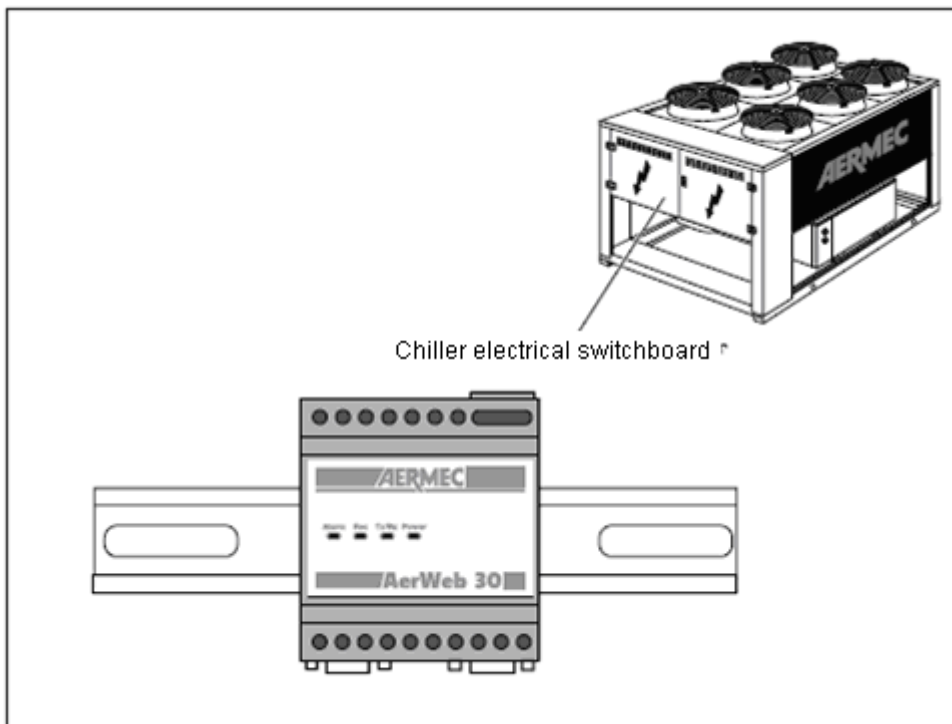


POSITIONING AND MOUNTING THE AERWEB30/AERMODEM KIT

The AerWeb30 and AerModem devices should be secured using the Omega guide. The Omega guide should be secured using two self-threading screws on the device electric compartment.

If missing, please make two holes of 3.3 mm on the above mentioned compartment.

If you need to install a GSM AERMODEM, the GSM antenna should be taken outside, in open field; the antenna is equipped with a magnet on its basis. We recommend positioning the antenna on the electrical switchboard side and eventually making a hole for the cable.



POSITION FOR MOUNTING THE AER 485/AER485 P2 BOARDS

The AER485 board should be installed in the device electrical compartment and secured using an “Omega” guide near the AERWEB30 device. The AER485P2 board should be connected inside the pCO2.

AUTOMATIC SERIAL CONNECTION

3.1 AUTOMATIC CONNECTION WITH SERIAL CABLE

This section describes how to automatically connect a PC client to the AERWEB device using a serial cable; use this procedure with all Microsoft® operating systems, excluding Windows 95 and NT.

NOTE

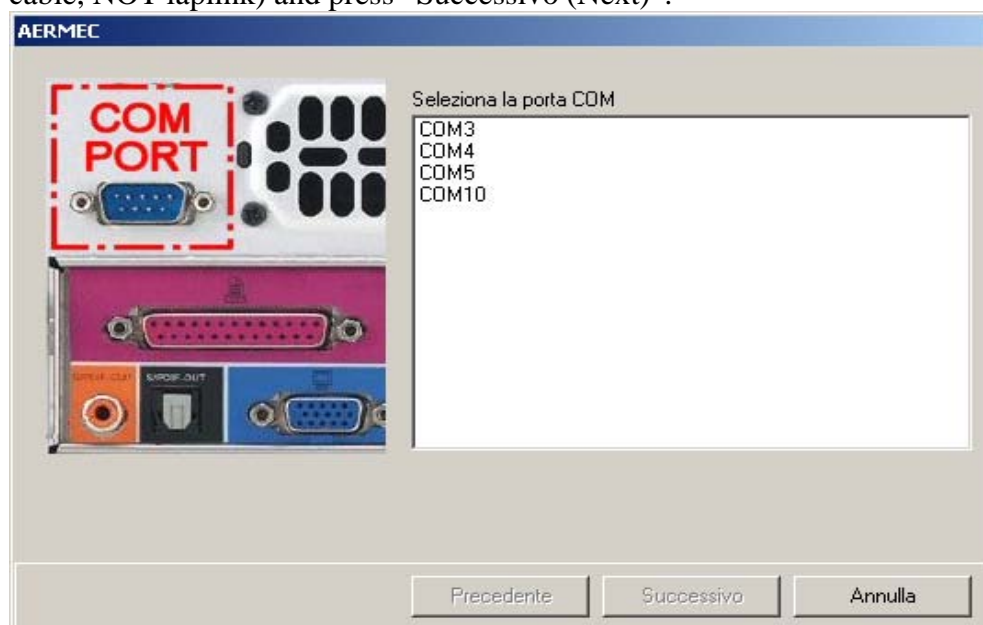
The connection with serial cable simulates the presence of a modem inside the computer client performing the connection. Please follow the following wizard step by step. You do not need a real modem for this connection; you just need a standard serial cable (supplied).

1) Insert the AERWEB CD-ROM supplied and go to the “Tools/Serial-link” section; select “SETUP.exe”.

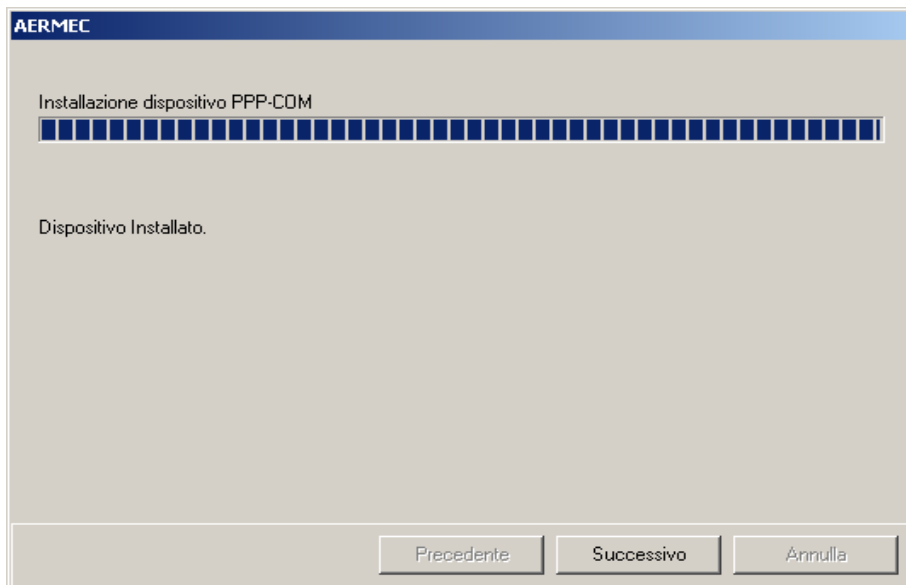
2) The following window will be displayed; press “Successivo (Next)”.



3) Select the serial port where the connection cable will be plugged (please use a standard serial cable, NOT laplink) and press “Successivo (Next)”.



- 4) Press the following logo again (if Windows testing is displayed); press “Continua (Continue)”.
- 5) “DISPOSITIVO INSTALLATO (DEVICE INSTALLED)” will be displayed. Press “Successivo (Next)” again.



- 6) When "PROCEDURA ESEGUITA CON SUCCESSO (PROCEDURE SUCCESSFULLY CONCLUDED)" is displayed, press "Fine (Done)".



- 7) At the end of the automatic connection procedure, the following icon will be displayed on the desktop. Double click this icon to connect to AERWEB30



Should the automatic connection procedure fail, please connect using a serial connection, as described on page ?

MODEM REMOTE CONNECTION

We recommend using a dedicated telephone line for this type of connection. Please use only the modem supplied by Aermec. Connect the modem to the serial port located on the back of the device using the cable supplied with the modem. Connect the modem to the telephone line using the cable supplied by the manufacturer; please verify if a telephone exchange is installed for accessing the external line. The connection procedure is divided into two stages. In the first stage a remote access connection on the PC is created. The second stage corresponds to the procedure which will be normally used for accessing web pages. Launch the remote access connection which will connect the PC to the AERWEB30 server through the telephone line; run the Internet Browser and digit `http : // 192.168.0100` on the address bar.

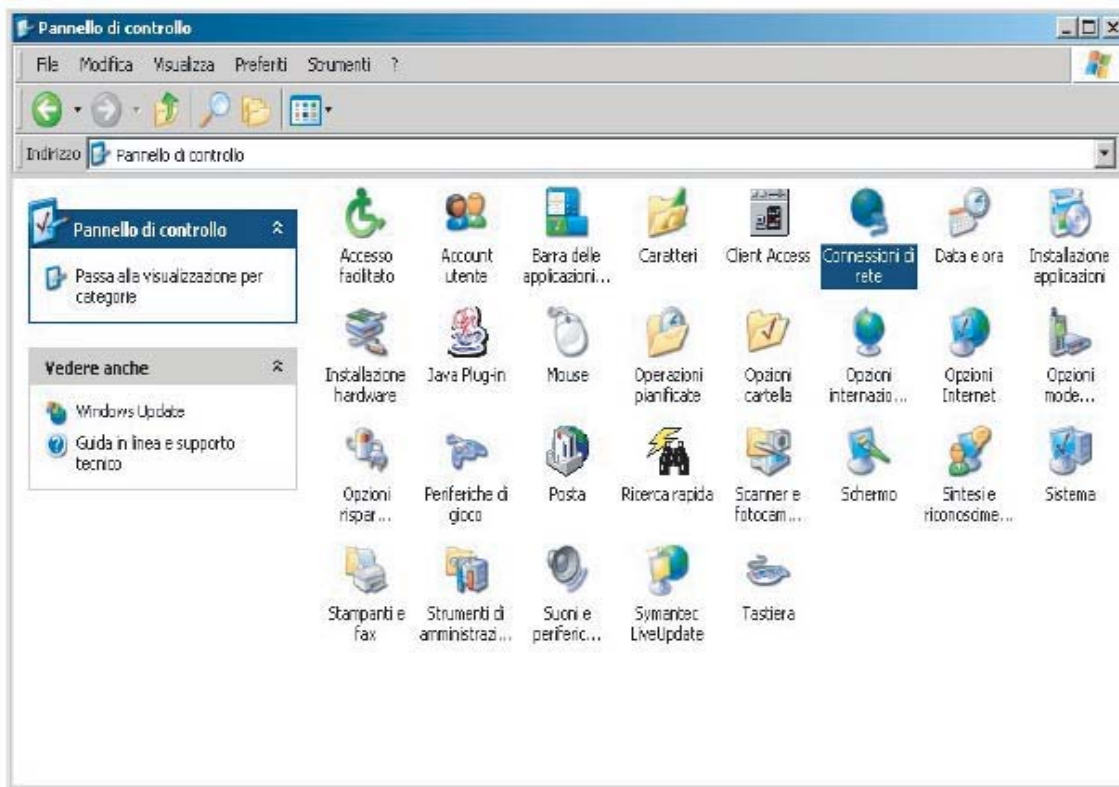
DIAL-UP CONNECTION FOR WINDOWS XP

Following is the set-up procedure to connect the PC client to the AERWEB device using a remote connection.

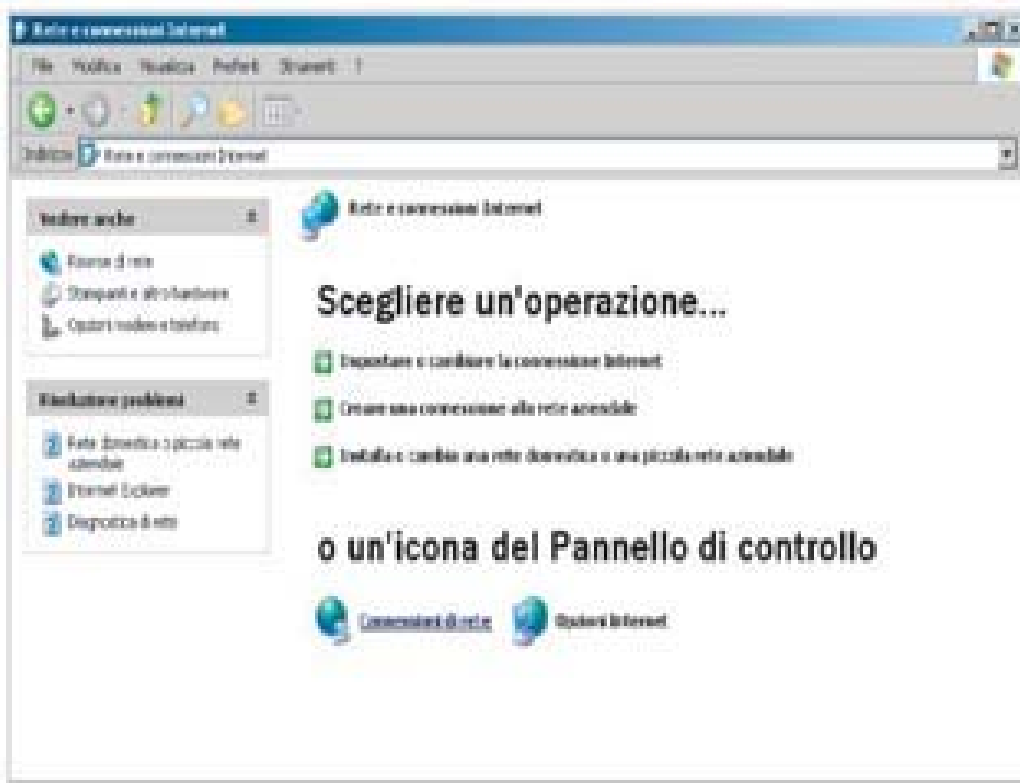
1) Please use the “New Connection Wizard” for creating the remote access connection. Open “Pannello di Controllo (Control Panel)” from the Start menu.



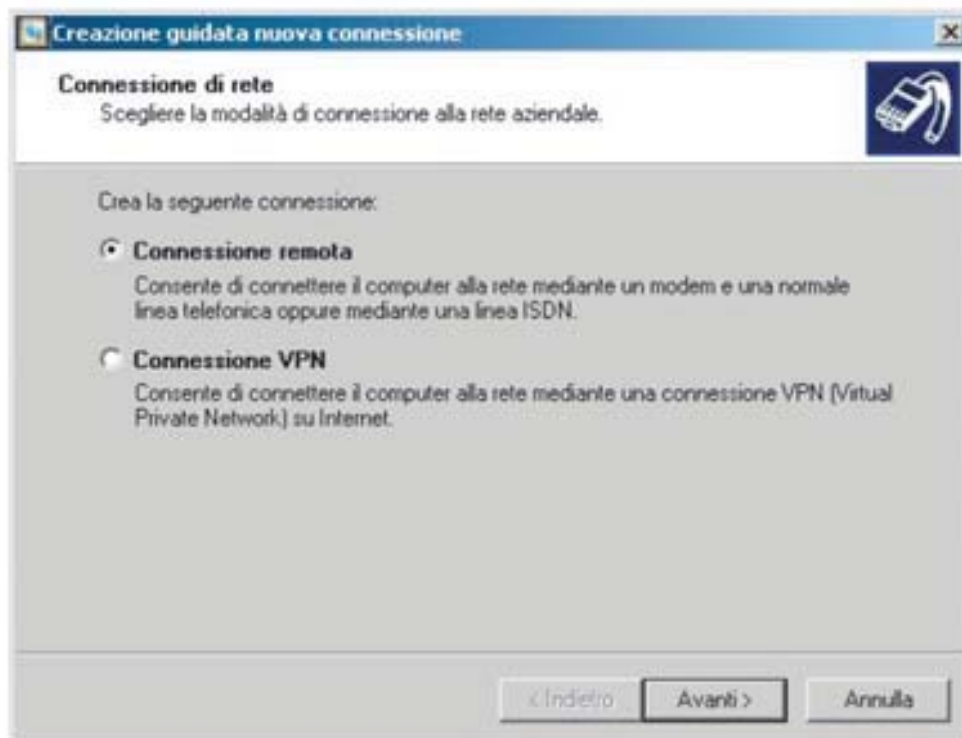
2) If the Control Panel Classic view is displayed, double click “Connessioni di rete (Network connections)”; if the Control Panel Category view is displayed, click “Rete e connessioni Internet (Networks and Internet Connections)”.



3 Click “Creare una connessione alla rete aziendale (Create a connection to the network at your workplace)”.

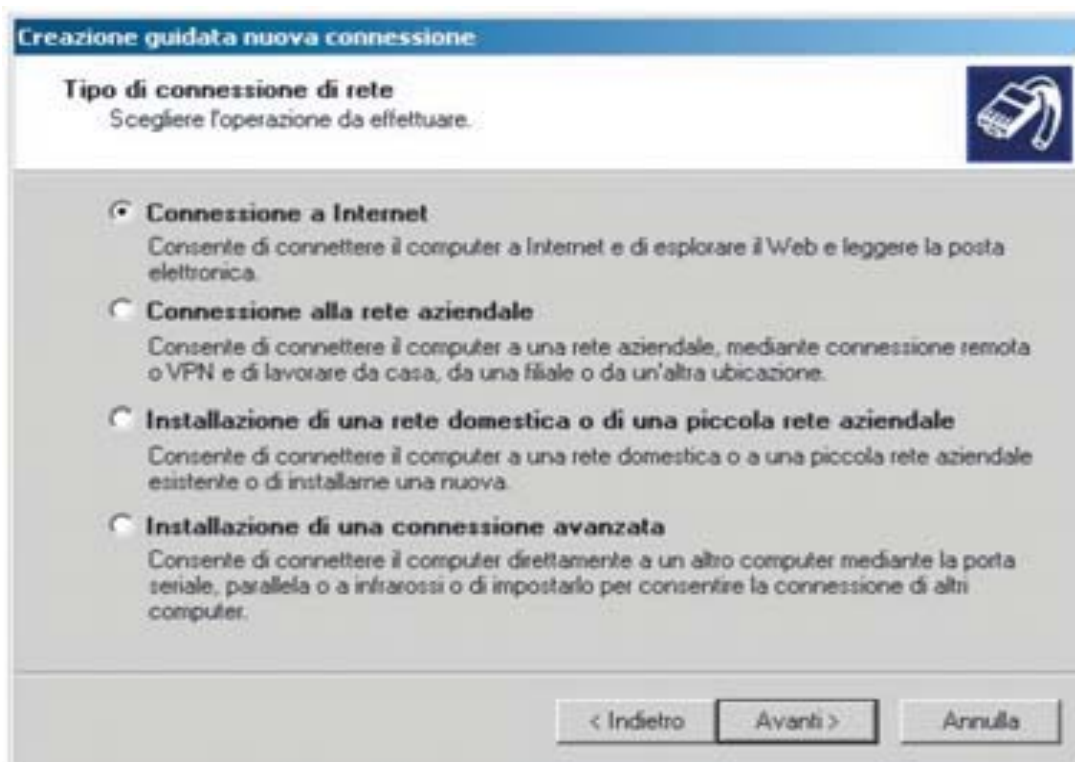


4 Select “Connessione remota (Remote Connection)” and press “Avanti (Next)”.

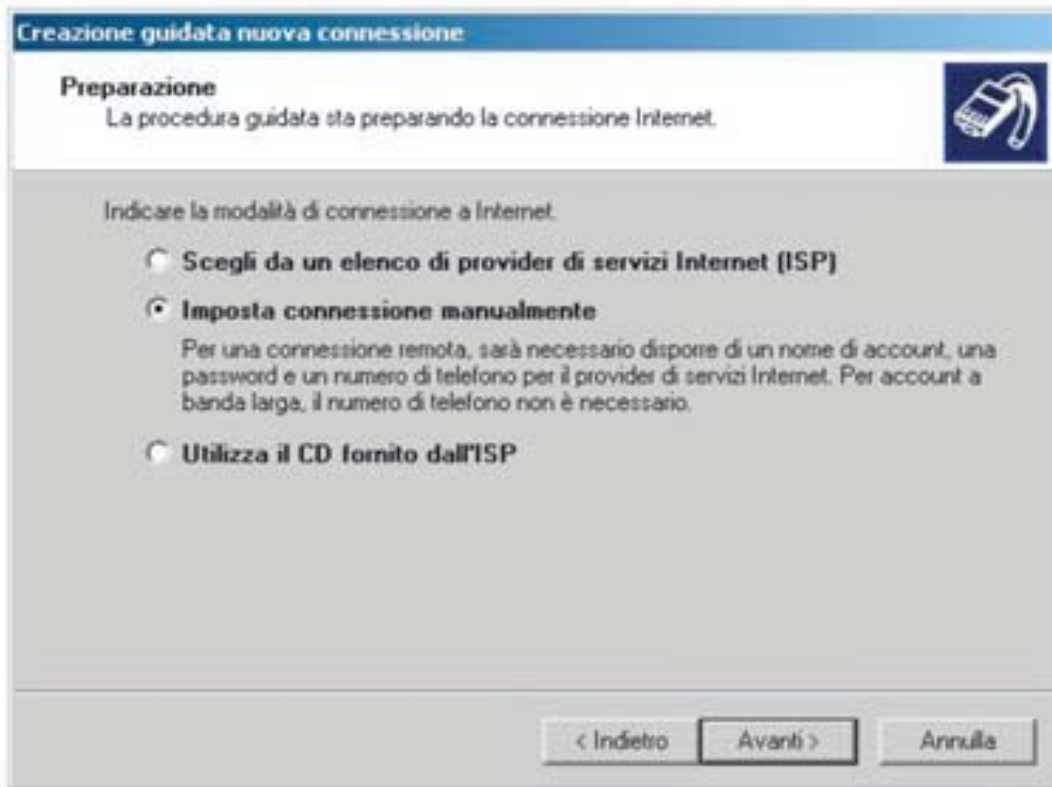




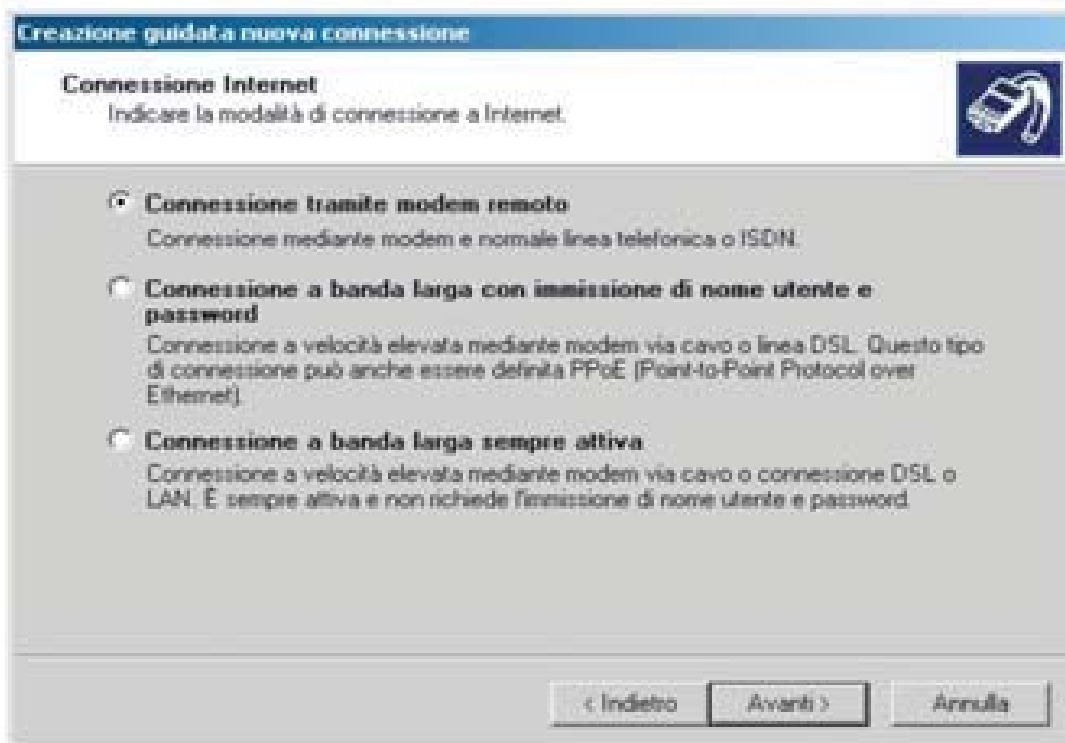
5) Click “Avanti (Next)”.



6) Select “Connessione a Internet (Connect to the Internet)” and click “Avanti (Next)”.



7) Select “Imposta connessione manualmente (Set up my connection manually)” and click “Avanti (Next)”.



8) Select “Connessione tramite modem remoto (Connect using a dial-up modem)” and click “Avanti (Next)”.

Creazione guidata nuova connessione

Nome connessione
Specificare il nome del servizio che fornisce la connessione Internet.

Innanzitutto, immettere il nome dell'ISP nello spazio sottostante.

Nome ISP

AERWEB 3000 DIRECT MODEM

Il nome inserito sarà il nome della connessione che si sta creando.

< Indietro **Avanti >** Annulla

9) Write “AERWEB 30 DIRECT MODEM” in the “Nome ISP (ISP Name)” field.

Creazione guidata nuova connessione

Numero telefonico da chiamare
Indicare il numero di telefono dell'ISP.

Digitare il numero di telefono di seguito.

Numero di telefono:

0,04379833

Per sapere se occorre includere un indicativo di località, comporre il numero di telefono. Il suono di un modem indica che il numero è corretto.

< Indietro **Avanti >** Annulla

10) Digit the telephone number of the line to which AERWEB is connected. If the number is 9833 and the dialling code is 0437, digit the following number: 04379833. If there is a telephone exchange and the number to digit for the external line is 0, digit: 0,04379833. After that, press “Avanti (Next)”.

Creazione guidata nuova connessione

Informazioni sull'account Internet
 È necessario disporre di un nome account e di una password per accedere all'account Internet.

Inviare un nome di account ISP e la relativa password, quindi prendere nota di tali informazioni e conservarle in un luogo sicuro. Se il nome di account o la password esistenti sono state dimenticate, contattare l'ISP.

Nome utente:

Password:

Conferma password:

☒ Utilizza questo nome di account e password per la connessione a Internet di tutti gli utenti

☐ Imposta questa connessione Internet come predefinita

☐ Abilita il firewall della connessione Internet per questa connessione

11) Use Aermec as Username and Password. Confirm the password and check the boxes as shown above.

Creazione guidata nuova connessione

Completamento della Creazione guidata nuova connessione

Sono state eseguite le operazioni necessarie per la creazione della seguente connessione:

XWEB 3000 DIRECT MODEM

- Condividi con tutti gli utenti del computer
- Utilizza lo stesso nome utente e password per tutti gli

La connessione verrà salvata nella cartella Connessioni di rete.

☒ Aggiungi collegamento a questa connessione sul desktop

Per creare la connessione e terminare la procedura guidata, scegliere Fine.

12) Create a shortcut on the desktop checking the corresponding box.



13) Manage the type of connection to be used each time you connect to the Internet. Open Explorer, “Strumenti (Tools)” menu, “Opzioni Internet (Internet Options)”. Fill in as shown in the window above. Make sure that the “default” connection is the one suggested by the operating system each time you connect to the Internet. Anyway, you can always connect manually double clicking the “AERWEB direct modem” icon in “Risorse di rete (My Network Places)”. At the end of the connection stage, open the browser and digit 192.168.0.100 in the address bar.

SET UP AND ACCESS

Please read the following notes before accessing AERWEB 30.

The user interface is the same for both connections, so there is no difference between the local connection via serial cable and the remote connection via modem.

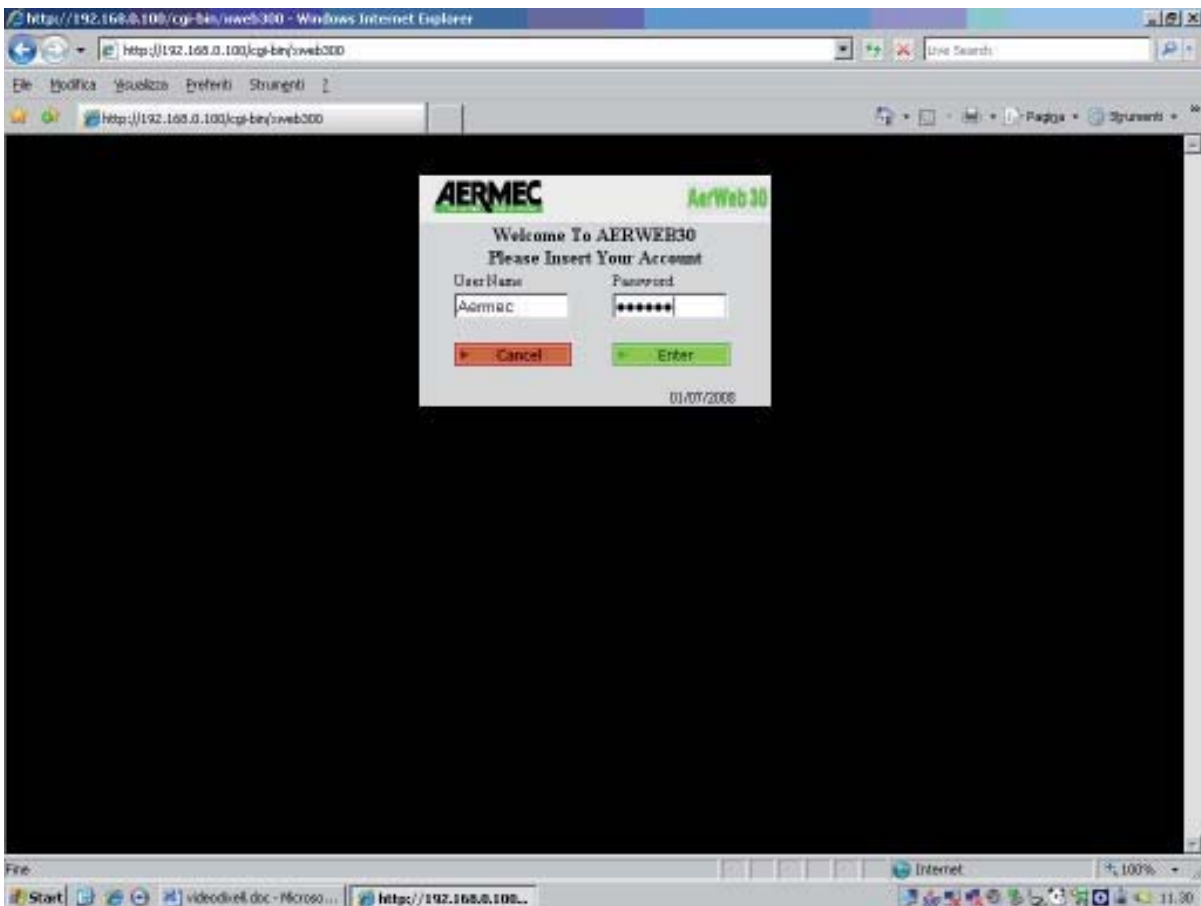
Please make sure that Java Virtual Machine is installed in the PC. Run the browser and load the address 192.168.0.100. As soon as the system is powered, the software loading process starts. The “Alarm” and “Power” leds blink for a few seconds. When the “Power” led stops blinking, the system is ready to accept an external connection. After turning on the device for the first time, the user has to set up AERWEB 30.

ACCESS

When the connection is active, please digit the default IP address in your browser address bar. The first window displayed asks for User Name and Password. By default, the system allows access using the following:

- User Name: Aermec
- Password: Aermec

Please consider changing the above mentioned access data, previously checking administrator privileges.



HOME PAGE

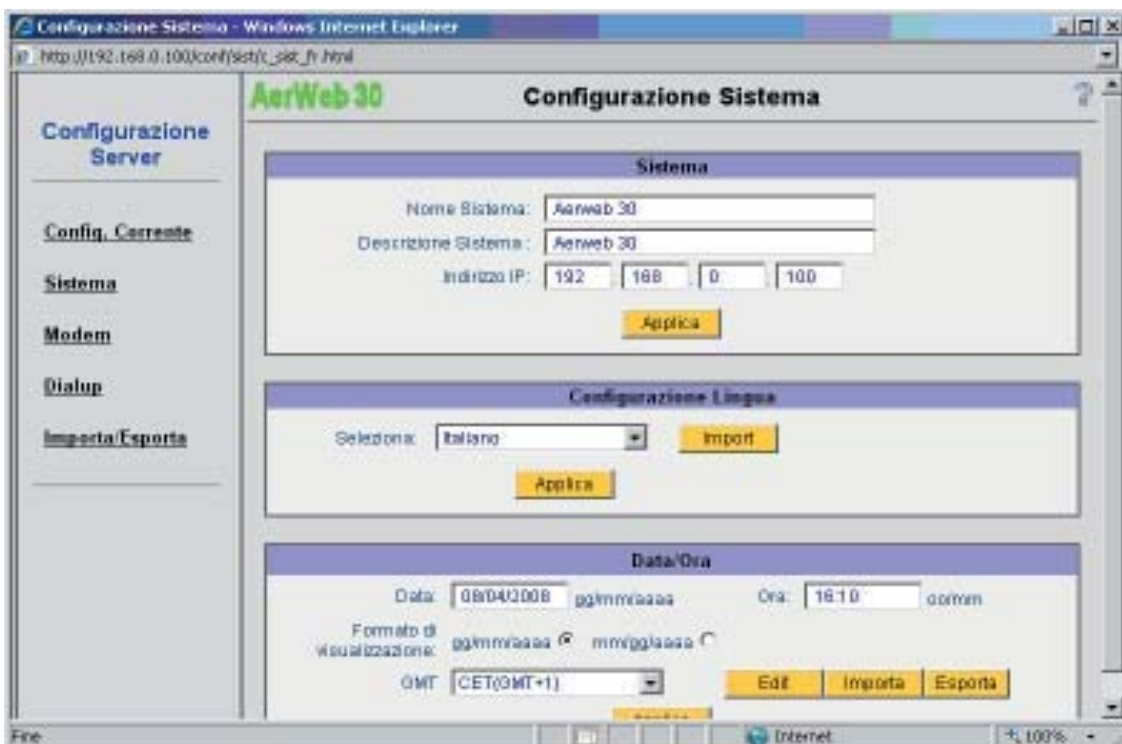
Based on the user privileges, the system can be fully accessed or accessed with some restrictions (i.e. some sections could not be displayed). The only user who can operate with no restrictions is the administrator.

AERWEB 30 SET UP

Click “Configurazione sistema (System set up)”;

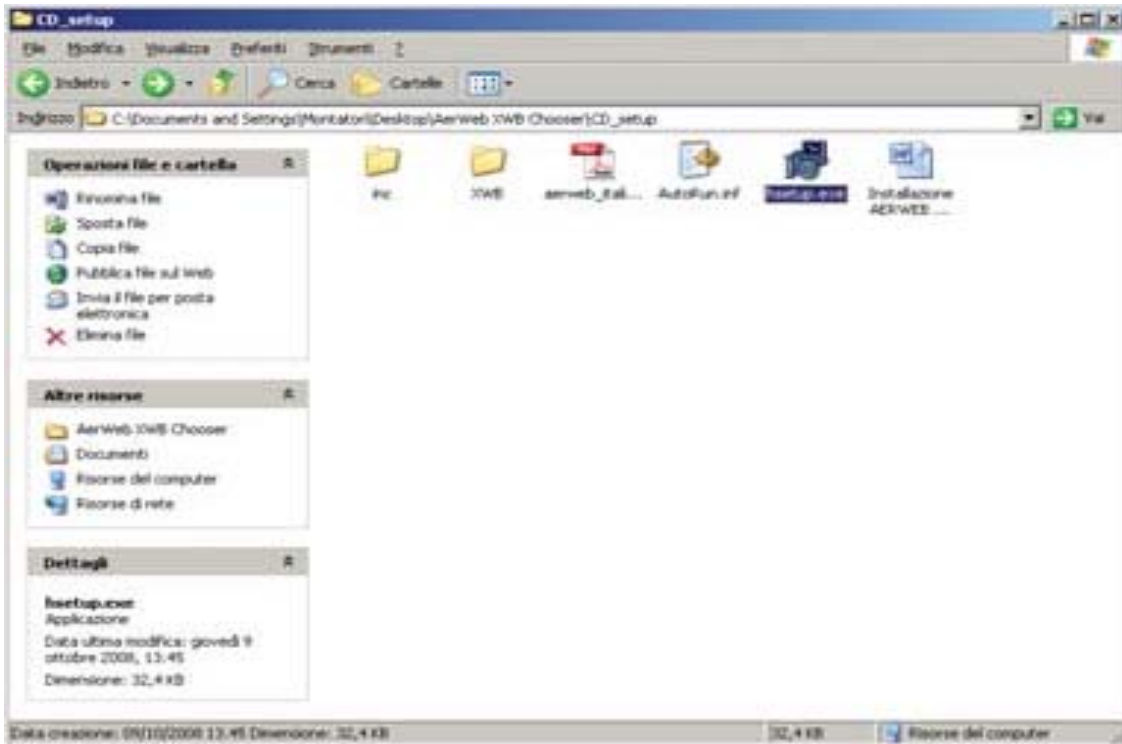
the “Configurazione corrente (Current set up)” window will be displayed, see below (picture 16).

Click “Sistema (System)” to set the system name, description and IP address. The default IP address is 192.168.0.100. The device is supplied with the English and Italian languages loaded. Please set the correct Time/Date; these values are very important because AERWEB 30 refers to them whenever sending an alarm.

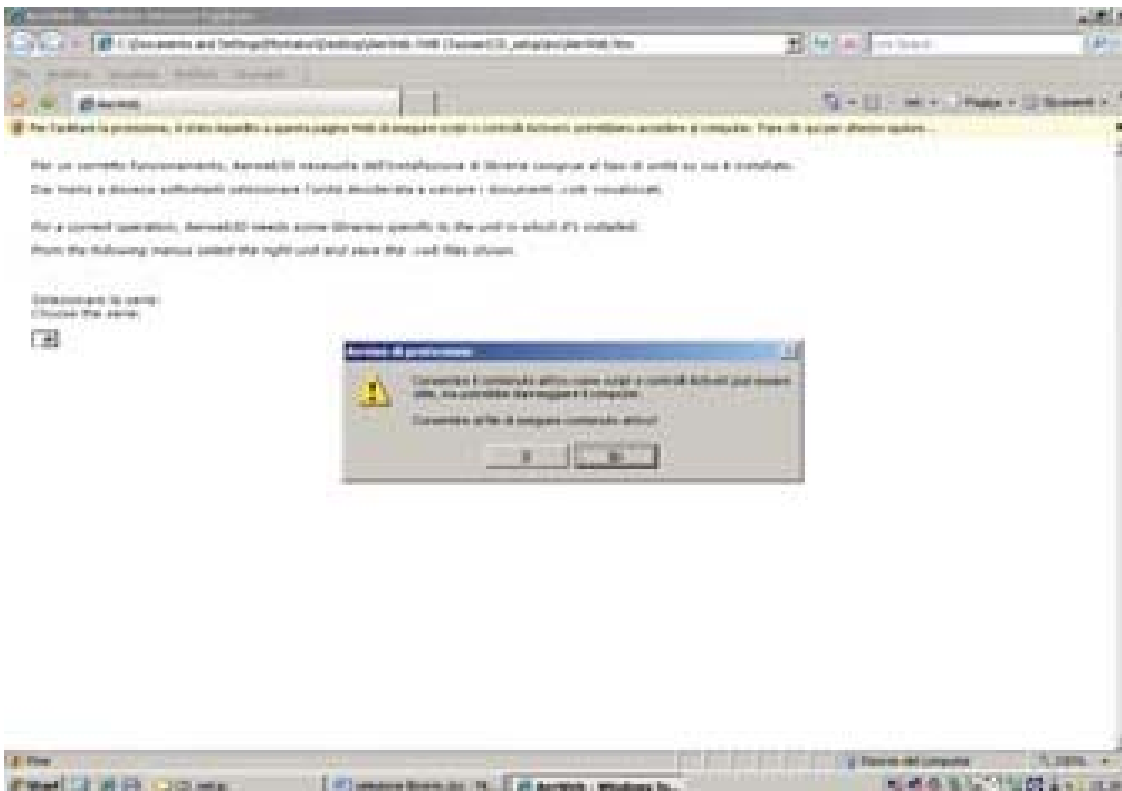


LIBRARY SECTION FOR AERWEB30

In order for AERWEB30 to work properly, you should install libraries suitable for the type of unit where AERWEB30 is installed. For example, if a heat pump unit is associated with a library “only cold”, it will be impossible to find the cycle inversion valve, the fluid probe, etc. Therefore, it is fundamental to pay careful attention when selecting the file, referring to the rating included. Click the “hsetup.exe” icon inside the supplied CD-ROM.



The following window will be displayed:

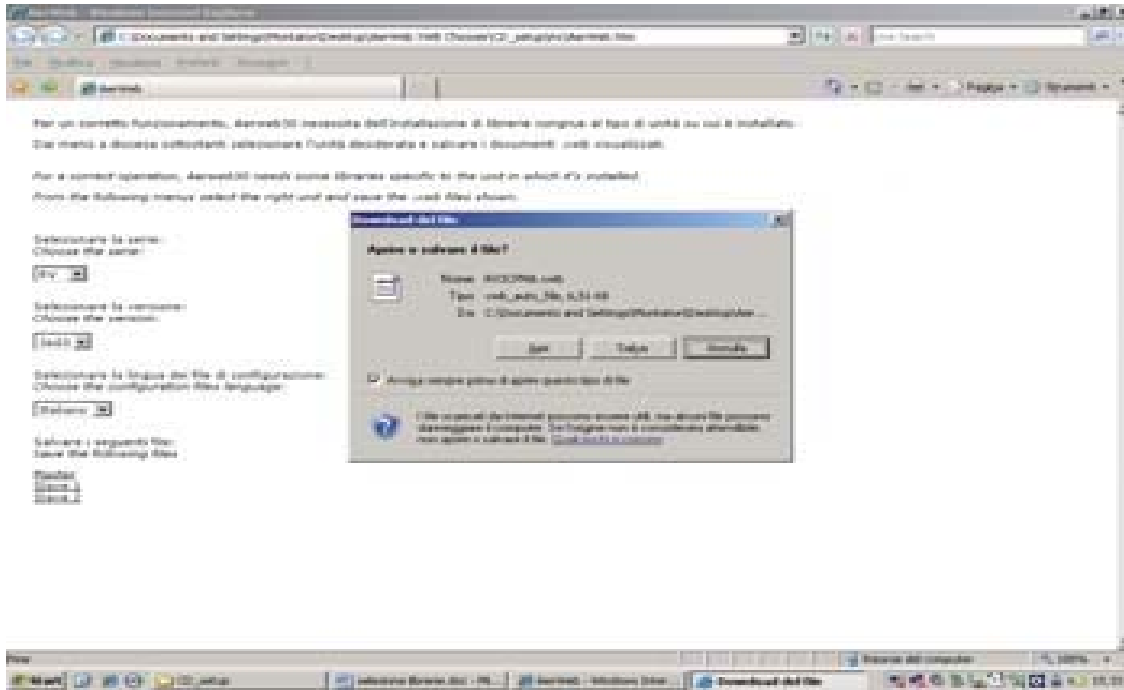


If necessary, unlock the Windows protection program. Follow the program step by step until automatically obtaining the library file to be saved.

Please note that you need to know the machine where the device will be installed.

Example 1:

As for screw compressor machines (PCO2 board), we need to know the circuit where the file will be saved (master, slave1, slave2)

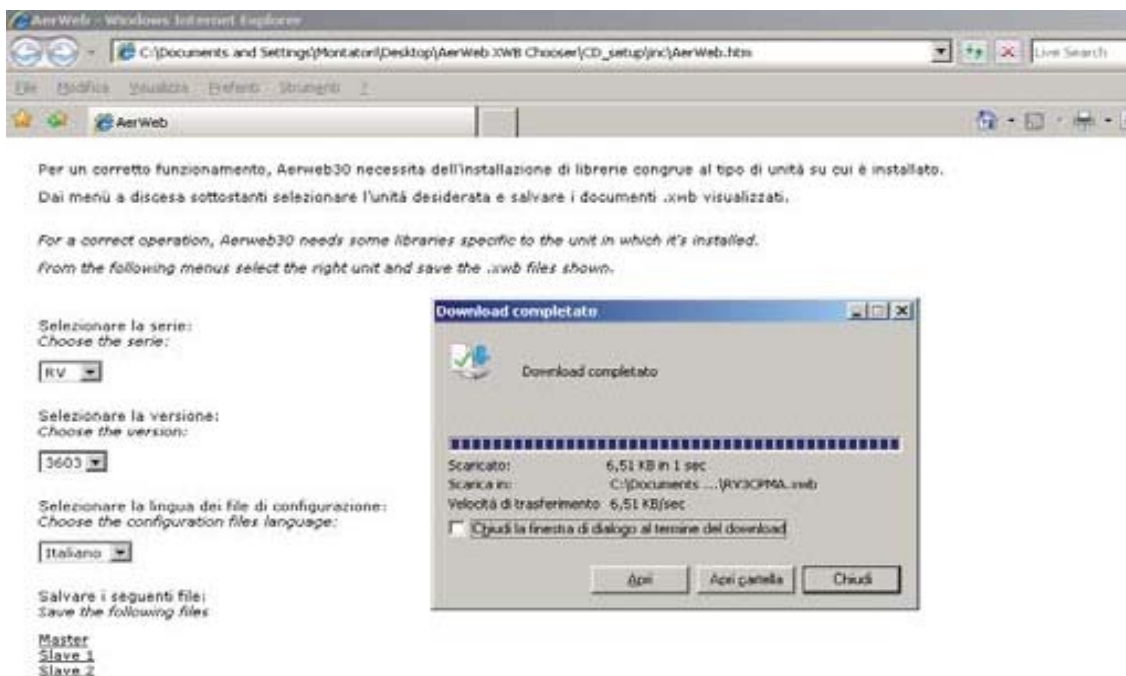
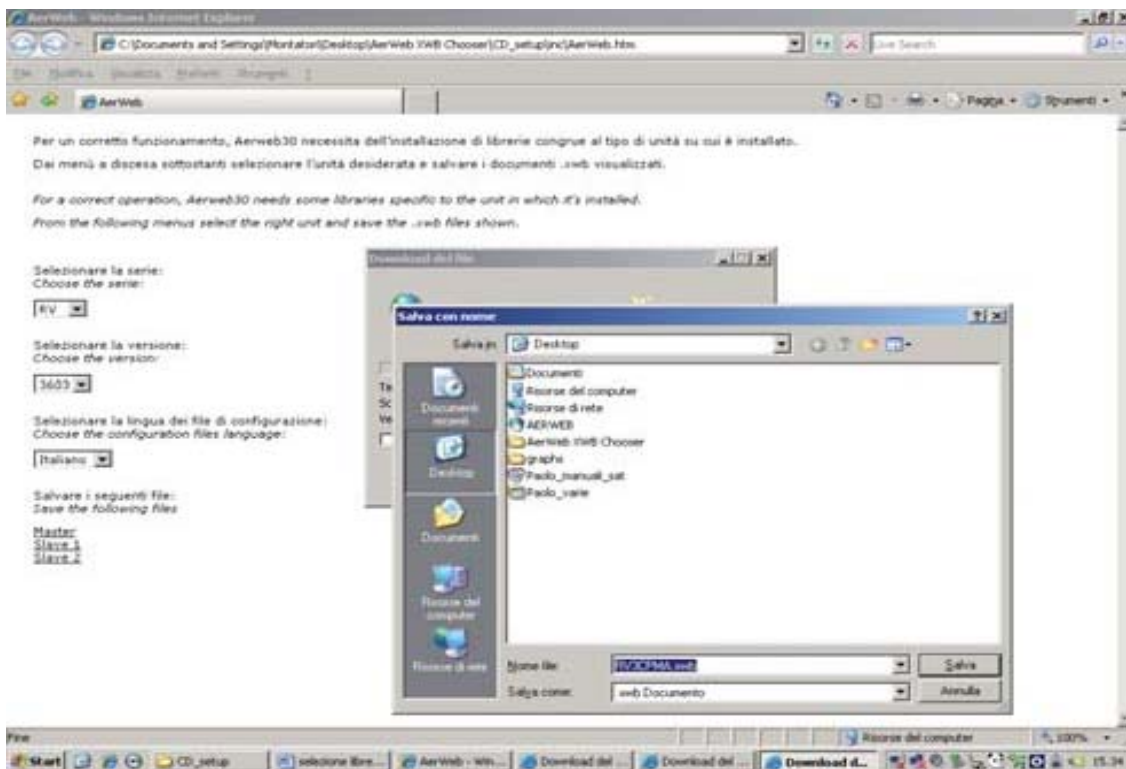


Example 2:

As for machines with GR3 board, you need to know how many water pumps are installed on the machine.



Choose where to save the file in your computer, then save it.



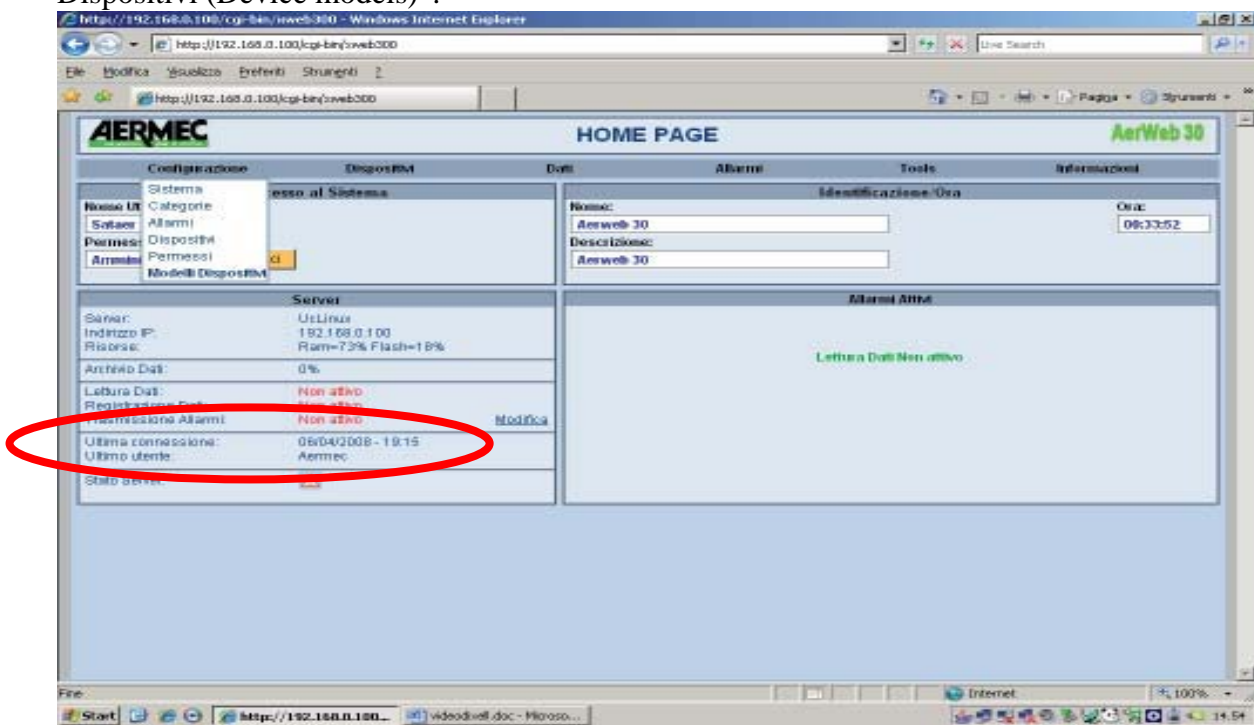
Now you have obtained the file you need (.xwb), which is ready to be installed on AERWEB30

INSTALLING LIBRARIES ON AERWEB30

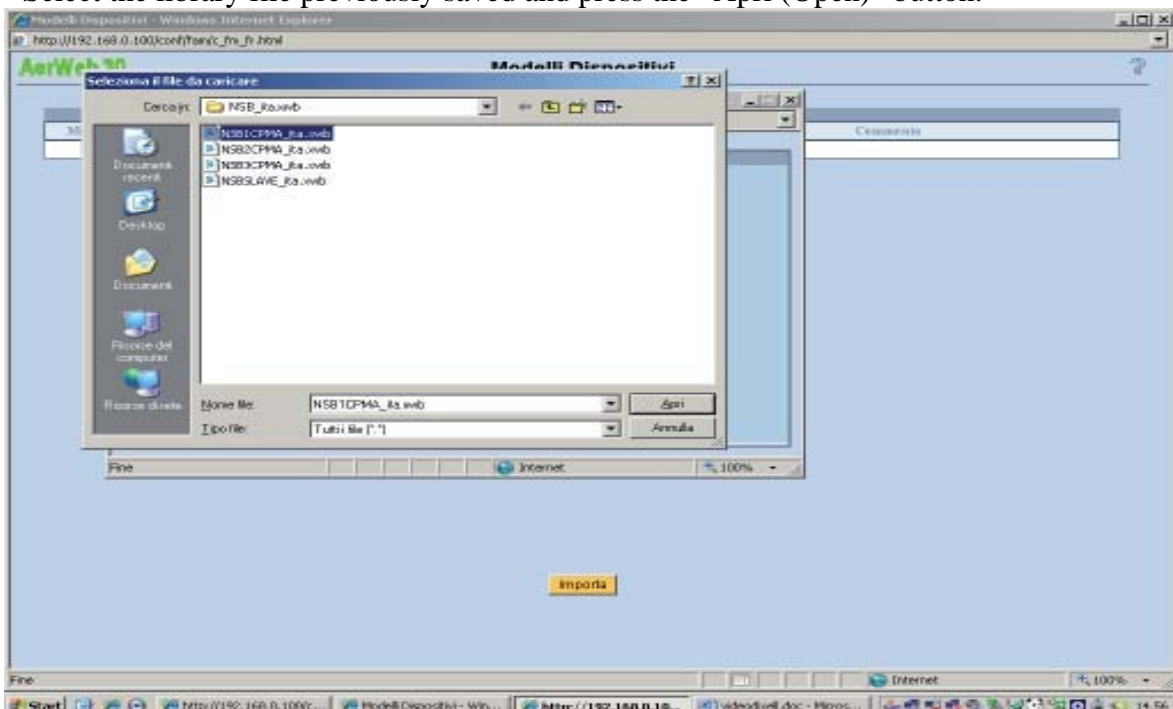
WARNING

DURING THIS STAGE, PLEASE MAKE SURE THAT AERWEB30 IS NOT ACTIVE; PLEASE REFER TO “LETTURA DATI (DATA READING)” AND “REGISTRAZIONE DATI (DATA RECORDING)” IN THE FOLLOWING PICTURE.

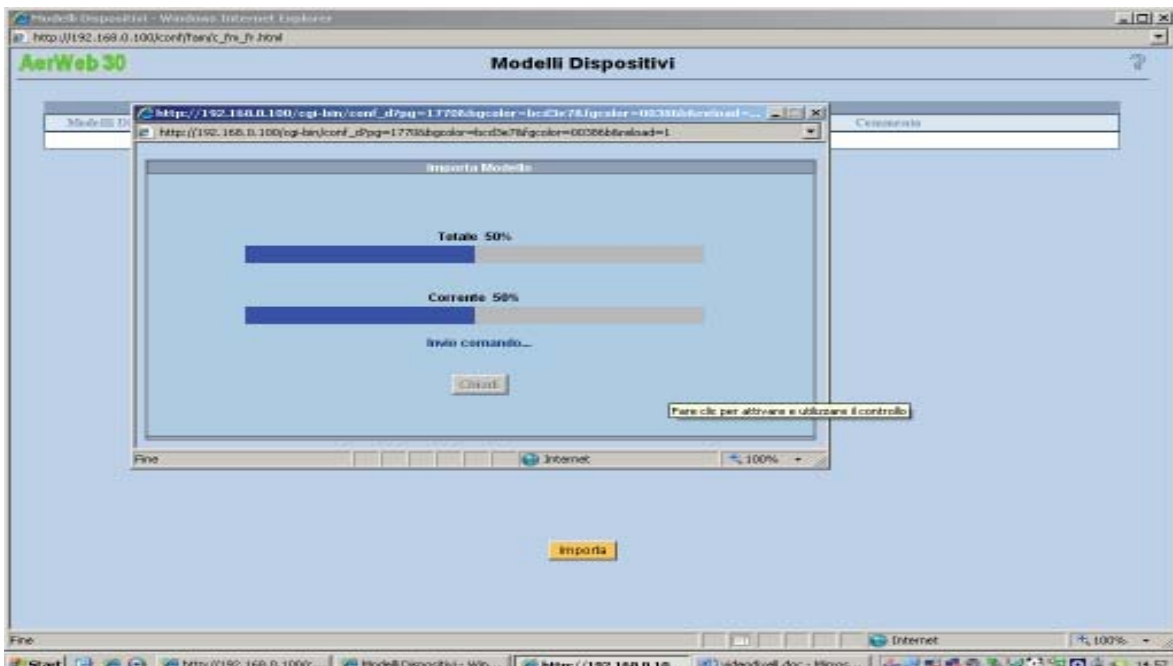
Open the set up menu using the button on the top left corner of the initial screen and click “Modelli Dispositivi (Device models)”.



- Click the “Importa (Import)” button.
- Select the library file previously saved and press the “Apri (Open)” button.

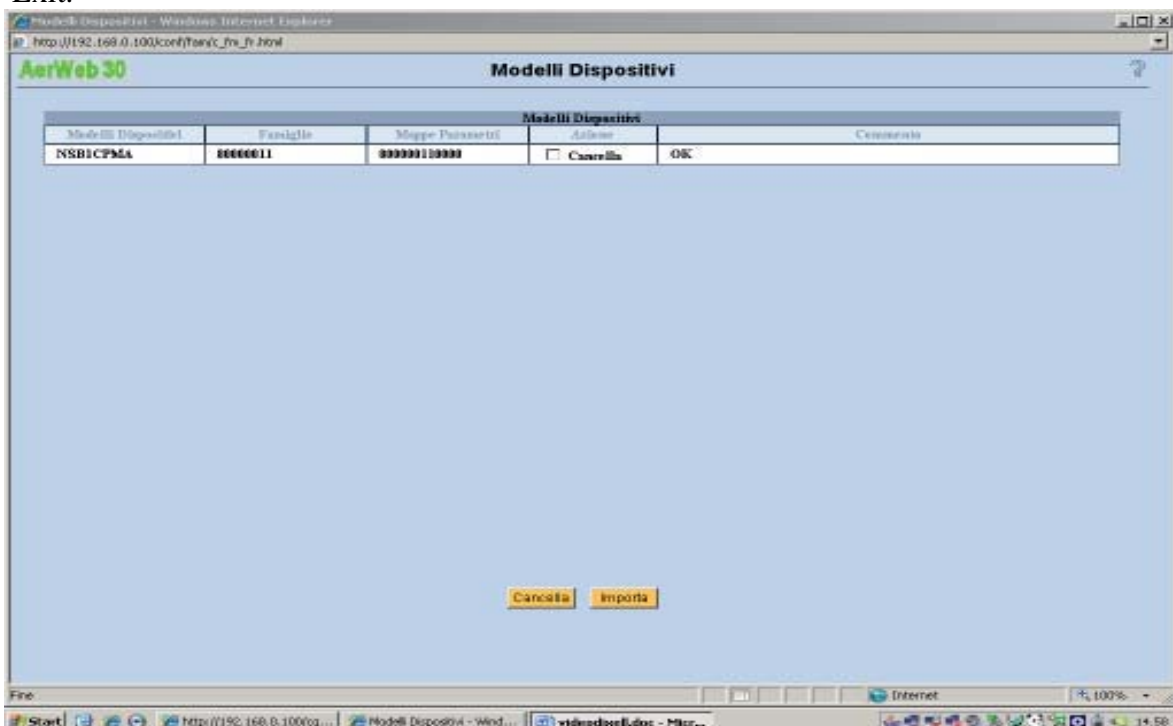


- The installation program is launched; progress is shown in the progress bars .



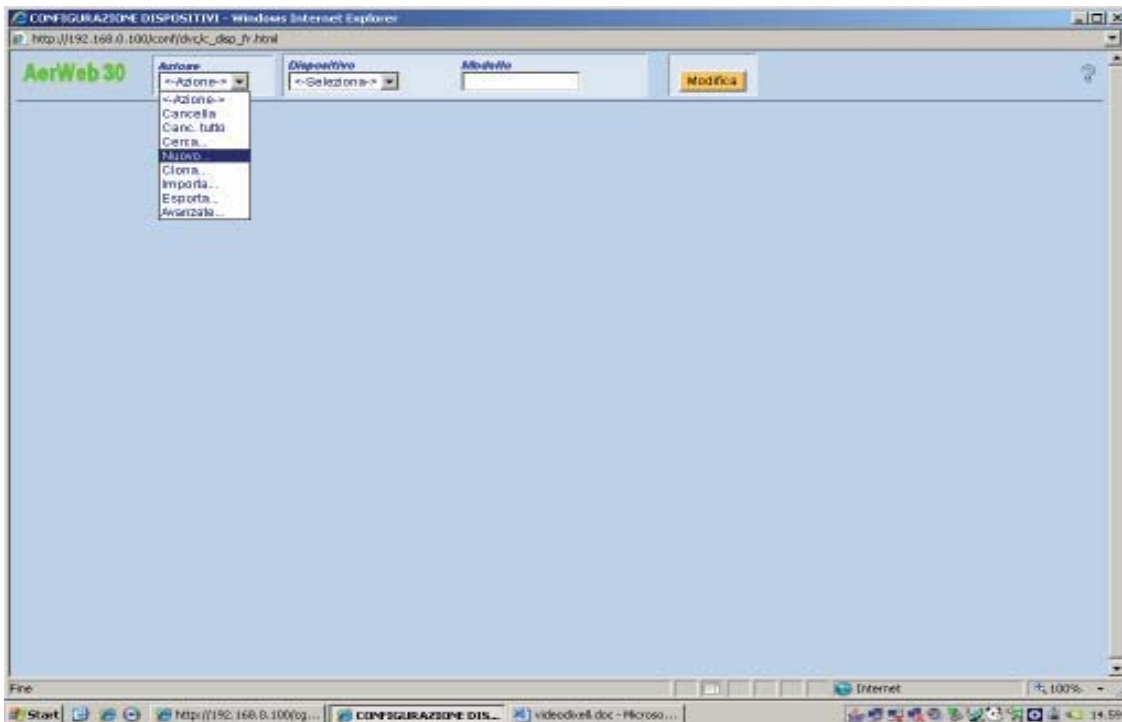
At the end, press “Chiudi (Close)”. The file name of the file that you just installed, together with its identification data (family, parameter map and model) will be displayed in the table.

Exit.



Exit.

- Return to the “Configurazione (Set up)” menu and click “Dispositivi (Devices)”.
- On the top left corner you will see the “Azione (Action)” box. Open it and click “Nuovo (New)”.



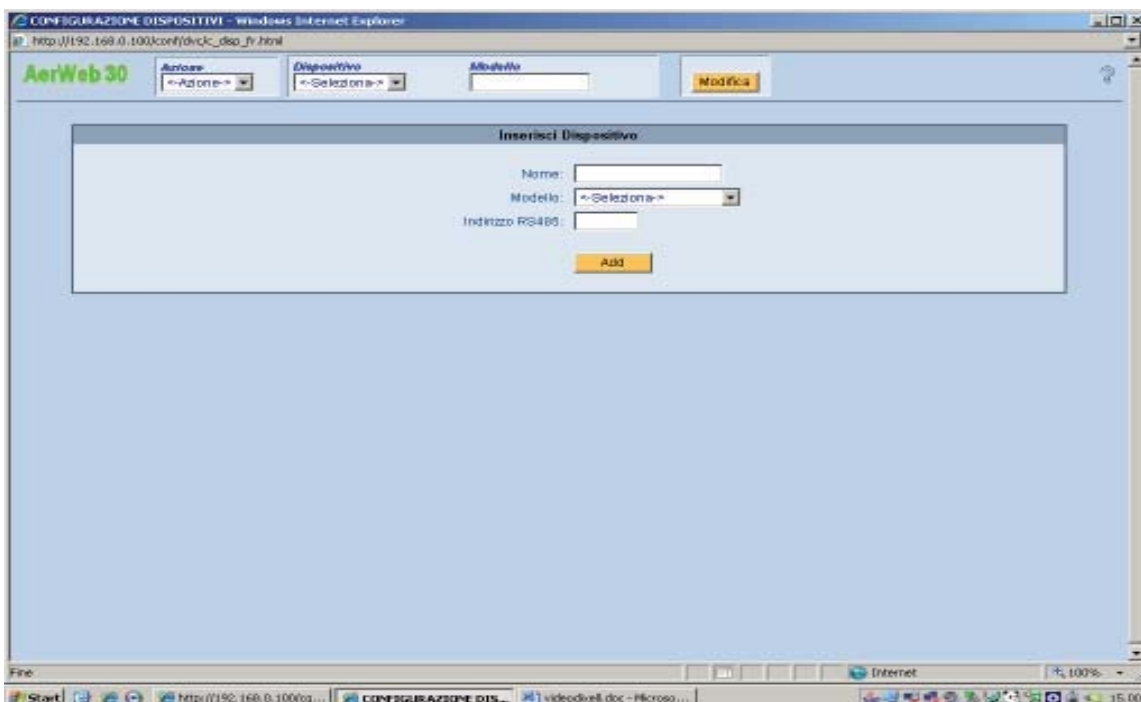
Enter the machine name, the model name (the file previously loaded) and the address assigned to the board in the window displayed.

Press the "Add" button.

As for the GR3 board, the address is provided in the set up of the dip-switch with 8 positions on the display.

As for pCO2 boards, open the "Prog." menu, go to the "Indirizzo seriale per supervisore (Serial address for supervisor)" screen, digit the desired address (1 to 256) and always set the baud rate to 9600.

If more than one library is installed on the AERWEB 30, please pay careful attention to the address in order to avoid overlapping.



A window with a general recap of all Aerweb30 parameters regarding the unit is displayed. You can modify the parameter names and the recording times.

(The recording time defines a series of entries; the recording interval which will be associated with a device corresponds to the above mentioned series of entries.

Example: “Standard = 15 min.”, “Fast = 3 min.”.

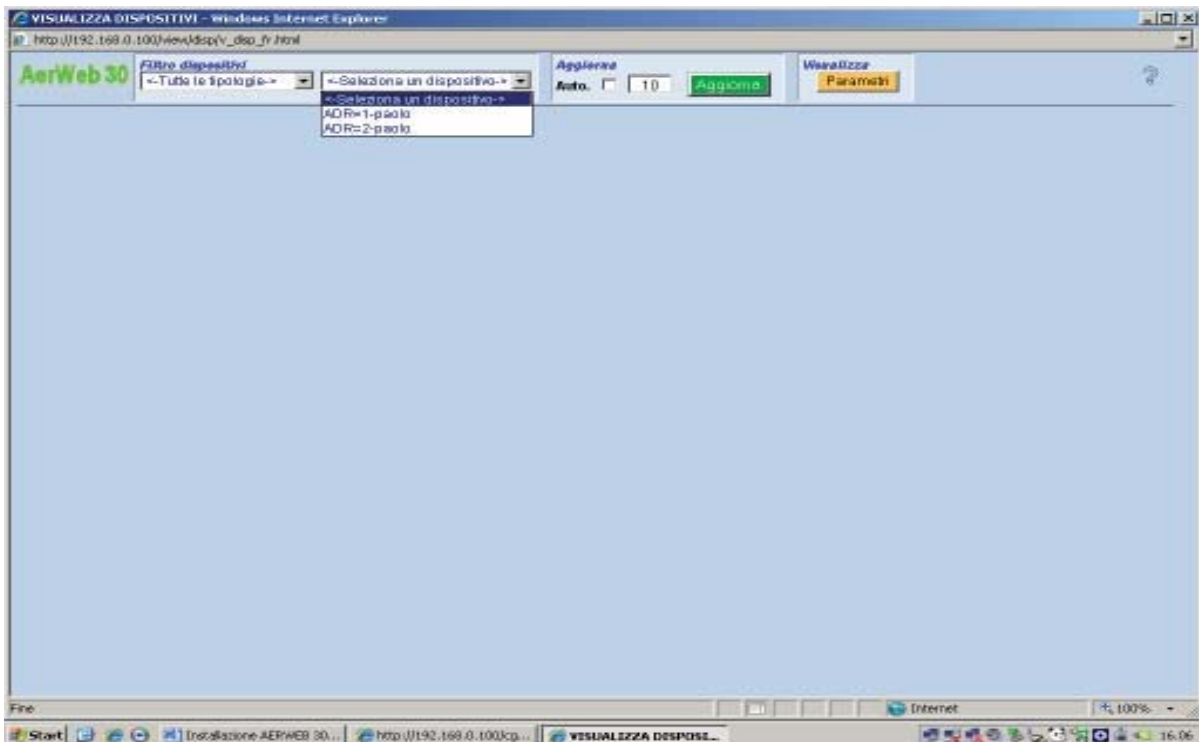
You can define up to 5 recording intervals).

Exit.

Now you are ready to monitor the chiller.

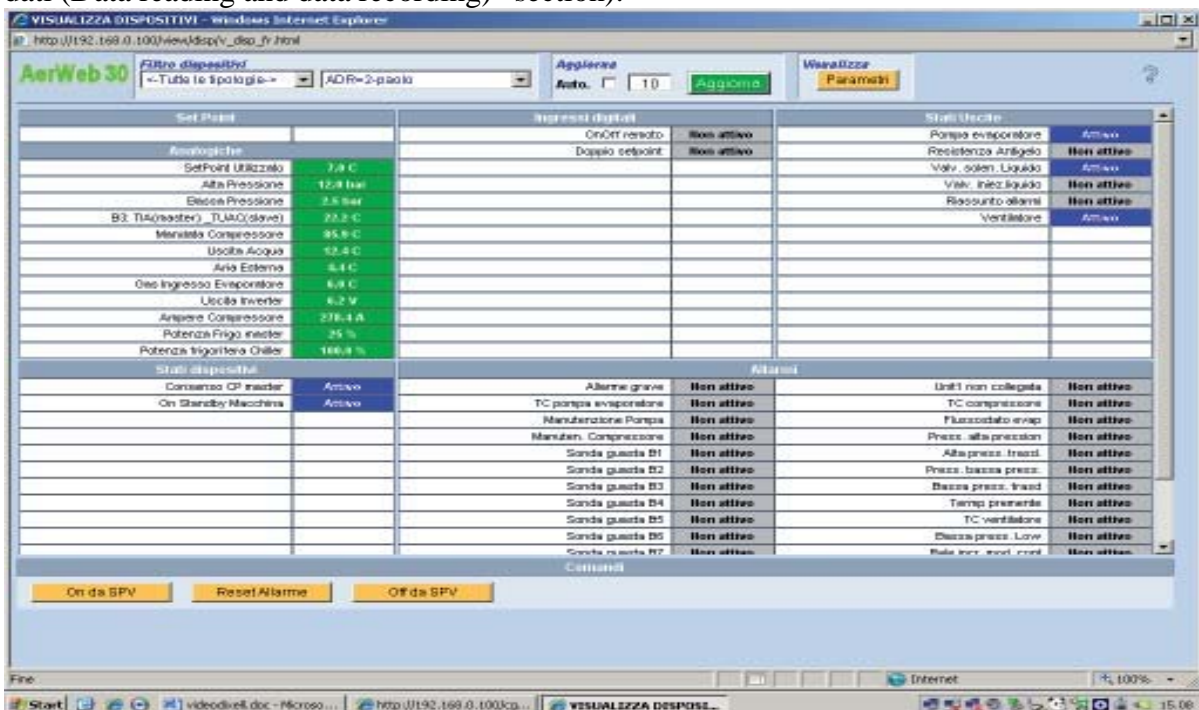
-Open the “Dispositivi (Device)” menu from the Home page and click the “Visualizza (Show)” button.

Click “Seleziona un dispositivo (Select a device)”; all the boards that have been set up will be displayed (you can connect up to 9 devices to AERWEB30). Please select the device to be checked.



AERWEB30 will now connect and all machine operating data will become available.

If you are using AERWEB 30 alone as a data-logger, please modify the serial connection status with board, activating it (you can do this on the Home page, from the “Lettura dati e registrazione dati (Data reading and data recording)” section).



You will need to repeat all operations done until now (selecting as well as installing) for each board to be added to the device.

SETTING UP THE MODEM

Click “Modem” and select the modem which is currently in use. If you want to use the GSM modem together with the option for sending SMS messages, activate the corresponding option. AERWEB 30 uses the modem for sending e-mails, fax and SMS messages. The modem can also set up the remote connection.

The screenshot shows two sections of a web interface. The top section, titled "Select Modem", has a "Modem:" dropdown menu set to "Digicom Botticelli" and an "Apply" button. The bottom section, titled "Modem Configuration", has a "Select:" dropdown menu also set to "Digicom Botticelli". It includes a "Name:" text field with "Digicom Botticelli", an "SMS En." checkbox which is unchecked, and a "Rings N. before Answering:" text field with the value "1". There is also a "Script:" text field containing the AT command string "AT&FE0&C1&D2V1S0=0:OK1'AT87=60S30=0LOW". An "Apply" button is at the bottom of this section.

SETTING UP THE DIAL UP CONNECTION

Click “Dial up” to set the Internet connection for sending e-mails. In order to do this, you need a valid Internet account. If you don’t have an SMTP server, please leave this field empty. In this case, AERWEB 30 will try to send the e-mail directly to the recipient. Not all ISPs (Internet Service Providers) support this sending option. For this reason, we recommend using an SMTP server, if possible.

The screenshot shows a web interface titled "Provider". It contains several input fields: "Provider:" with "My ISP", "Email Address:" with "email@my-site.com", "User Name:" with "my-account", "Password:" with masked dots, "Telephon N.:" with "555-123456", and "SMTP Server:" with "mail.my-site.com". An "Apply" button is located at the bottom center of the form.

PERMANENT LOCAL CONNECTION

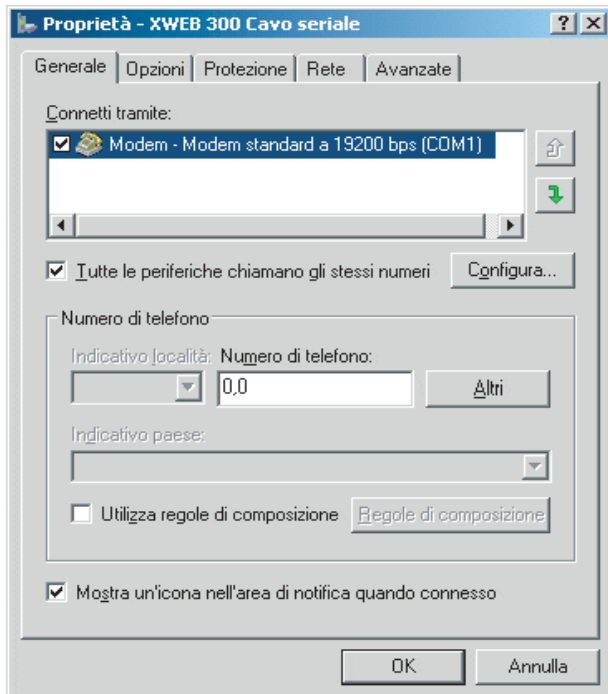
AERWEB 30 can also be used as a permanent local connection via serial cable. With this operating mode, whenever an alarm is generated, the local connection will be automatically deactivated and priority will be given to the modem. Local access will be disabled during the whole period in which the modem sends alarms. Depending on the operating system used, you can set connection options for automatic reconnection. After having set the local connection again, you will not need to input User Name and Password again. However, if, during a local working session, AERWEB 30 receives a remote connection request, priority is given to the modem again and the local connection is interrupted. After this interruption, User Name and Password will have to be input again. If you don’t log in again, an error message will be displayed (see below).



SETTING UP AUTOMATIC REDIALLING

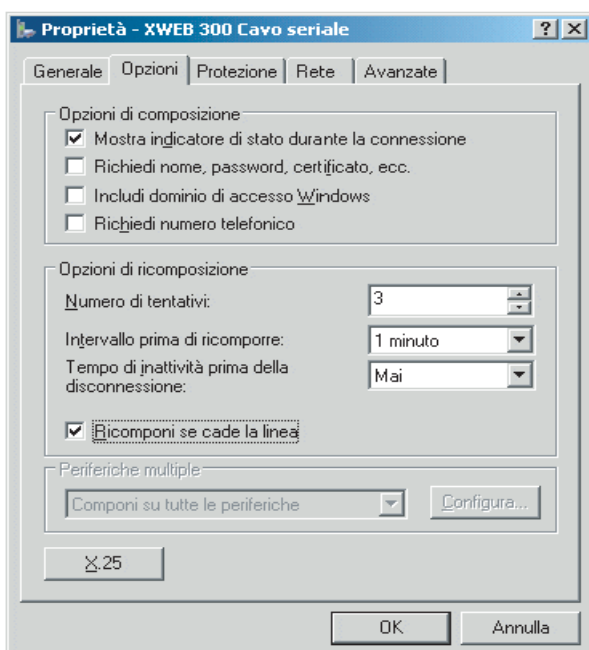
Please refer to the following procedure for setting up automatic connection in Windows XP:

- 1) Right click the “Risorse di rete (My Network Places)” icon and select "Proprietà (Properties)".
- 2) Right click the AERWEB 30 Serial Cable icon and select “Proprietà (Properties)”. After that, select the “Opzioni (Options)” tab.



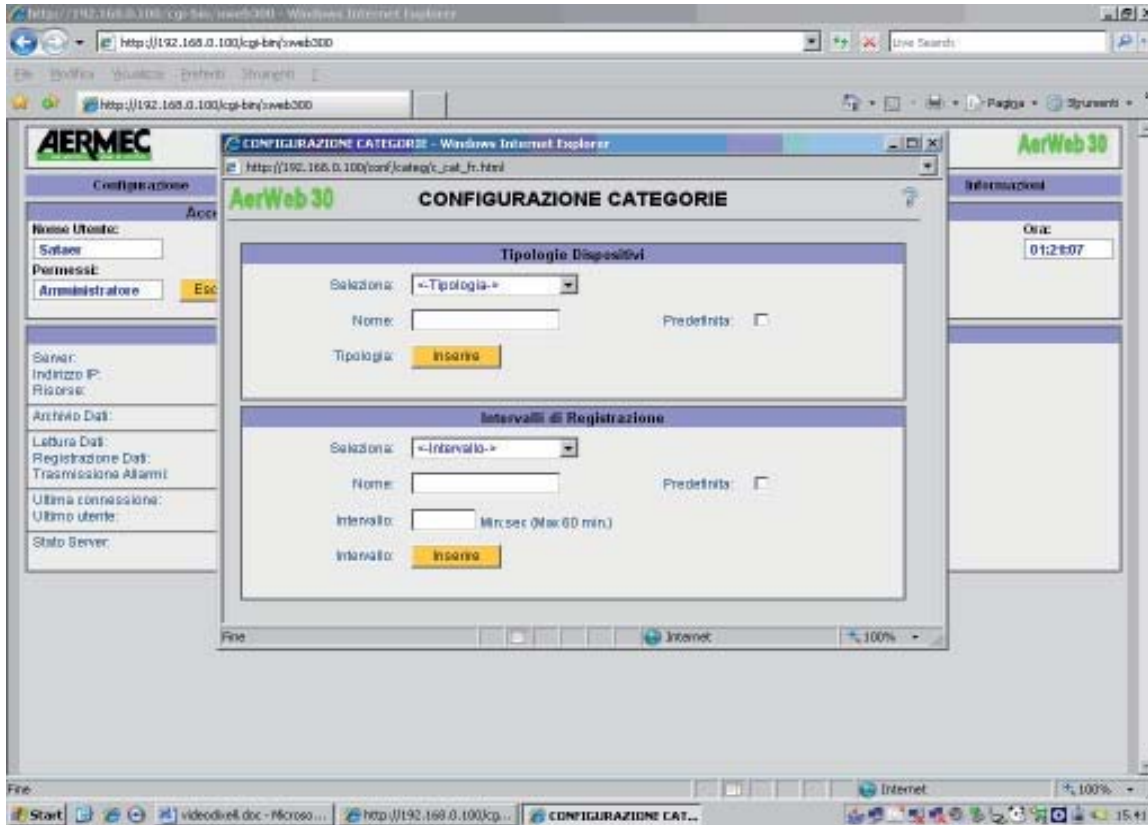
3) Set parameters as needed in the “Proprietà (Properties)” window:

- “Numero tentativi (Redial attempts):”.
- “Intervallo prima di ricomporre (Time between redial attempts):”.
- “Tempo di inattività prima della disconnessione (Idle time before hanging up):”.
- “Ricomponi se cade la linea (Redial if line is dropped)”.



CATEGORIES

This function can be used for managing devices, associating options and features specified in the “Categorie (Categories)” database. After that, in the “Configurazione Dispositivi (Device set up)” stage, each device can be associated with a specific entry chosen from specific device categories. For many categories, an entry can be set as the "Default" entry, so that such entry is automatically used for each device when associated.



TPOLOGIES

This software identifies some categories related to typologies of the client where the device is installed; up to 5 categories can be specified.

To input a new entry:

- 1) Go to the "Nome (Name)" field and input the desired entry.
- 2) For setting this entry as the default entry when associating a category to the devices, check the "Default" box.

To modify an existing entry:

- 1) Select the entry to be modified from the “Selezione (Selection)” list;
- 2) Modify the entry in the “Nome (Name)” field;

For modifying this entry and making it the default entry when associating a category to the devices, check the "Default" box and press “Modifica (Modify)”.

To delete an entry from the list:

- 1) Select the entry to be deleted from the “Selezione (Selection)” list;
- 2) Press “Cancella (Delete)”;
- 3) Confirm on the deletion confirmation box.

To reset the list:

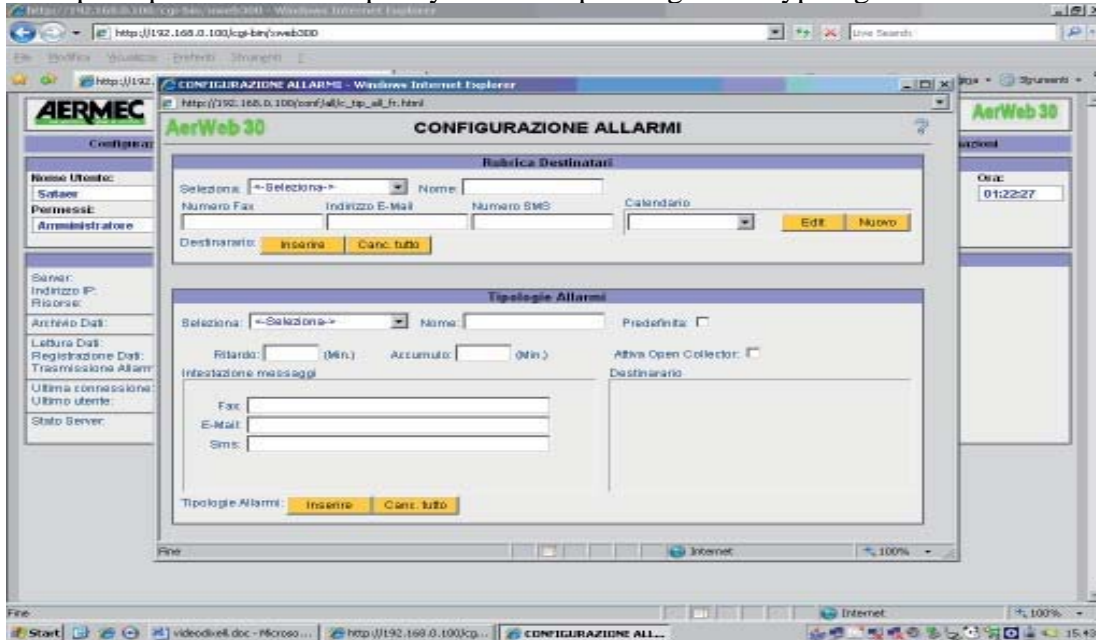
Press “New”;

To delete all entries

- 1) Press “Cancella All (Delete All)”;
- 2) Confirm on the deletion confirmation box.

ALARMS

Setting alarms is one of the most important stages of the setting up procedure. The user has to create a recipient phonebook and specify the corresponding alarm typologies.



RECIPIENT PHONEBOOK

Here you can specify if the alarm message should be sent to a mobile phone, to a fax or to a computer. This system allows receiving an SMS message on a mobile phone, a fax or an email regarding the alarm generated by the machine.

The “Rubrica Destinatari (Recipient Phonebook)” contains all recipients enabled to receive alarms. Up to 5 recipients can be specified.

AERWEB 30 can transfer alarms via SMS message, e-mail and fax.

AERMODEM can send fax and e-mails.

AERMODEM GSM can only send SMS messages.

To input a new entry

- 1) Go to the "Nome (Name)" field and input the desired entry.
- 2) Press “Inserire (Input)”.

To modify settings

- 1) Choose the user whose settings you want to modify.
- 2) Digit the new values or status in the appropriate fields.
- 3) Press “Modifica (Modify)”.

To delete a user

- 1) Choose the user to be deleted.
- 2) Press “Cancella (Delete)”.

To delete all users from the list

- 1) Press “Cancella (Delete)”.

To reset all entries

- 1) Press “New”.

NOTE

Each user can be associated to a calendar, if needed.

ALARM TYPOLOGIES

The alarm typologies are a list of entries chosen by the user that can be associated with different cases of alarm; they allow to group together alarms with similar features. Alarm typologies can be useful to group alarms such as: Temperature, Pressure, No-Link, etc. Difference among typologies can be further specified adding details such as: High Temperature, Low Temperature, High Pressure, Low Pressure, etc. The user can also customize the accuracy for different cases of alarm. Up to 5 different alarm typologies can be specified. Based on the effective setting chosen by the user, alarms can be sent immediately or after a specific accumulation time. “Ritardo (Delay)” is used to avoid sending a large number of messages. If an alarm lasts less than the value specified for “Ritardo (Delay)”, such alarm will only be registered in the system History but it will not be sent to the recipient. After the "Accumulo (Accumulation)" interval has lapsed, the alarm is sent.

To input a new alarm typology:

- 1) Click “Nome (Name)” and input the relevant text.
- 2) Set the “Ritardo (Delay)” and “Accumulo (Accumulation)” values.
- 3) Input the text for the e-mail, SMS message and/or fax.
- 4) Check the name of the corresponding “Destinatario (Recipient)”. If necessary, set the default value.

To modify an existing alarm typology:

- 1) Select the corresponding entry in the “Selezione (Selection)” box.
- 2) Modify the desired fields.
- 3) Press the “Modifica (Modify)” button.

To delete an existing alarm typology:

- 1) Select the corresponding entry in the “Selezione (Selection)” box.
- 2) Press the “Cancella (Delete)” button.

To delete all entries from the list

- 1) Press “Cancella (Delete)”.

To reset all entries:

Press “New”.

To activate the “Open Collector” output:

- 1) Check the corresponding field. When an alarm is active, the Open collector will switch its status.

WARNING

The Open Collector needs external power, 12V DC on PIN 5 (please refer to the sticker). The maximum output current is 50mA.

START RECORDING

Now the general set up is complete and you can activate the data reading/recording options for data coming from the RS485 serial line. Click “Modifica (Modify)”.

Select/deselect the desired options and press “Applica (Apply)”:

The image shows two side-by-side screenshots of the AERWEB 30 configuration interface. The left screenshot shows the 'Server' status with fields for Server, Indirizzo IP, Risorse, Archivio Dati, Lettura Dati, Registrazione Dati, TX Allarmi, Ultima connessione, Ultimo utente, and Stato Server. The right screenshot shows the 'Start/stop Moduli' settings with checkboxes for Lettura Dati, Registrazione Dati, and TX Allarmi, and an 'Applica' button. A red arrow points from the 'Modifica (Modify)' button in the left screenshot to the 'Applica (Apply)' button in the right screenshot.

Data reading:	AERWEB 30 only reads data from the RS 485 line
Data recording:	AERWEB 30 records data from the RS 485 line
Alarm TX:	AERWEB 30 sends alarms from the RS 485 line

AERWEB30 is now ready to work in the default way using the libraries preset by Aermec. In case of different needs, you can customize this device referring to the instructions in the following pages.

MANUAL SERIAL CONNECTION

LOCAL CONNECTION WITH SERIAL CABLE.

This section describes the manual connection of a PC client to the AERWEB device via serial cable; this procedure can be used with the Microsoft® Windows XP operating systems.

NOTE

The connection via serial cable simulates the presence of a modem inside the computer client connected. Please follow the following procedure step by step. This connection does not need a real modem; a standard serial cable (supplied) is enough.

- 1) Double click the “Risorse del computer (My Computer)” icon.



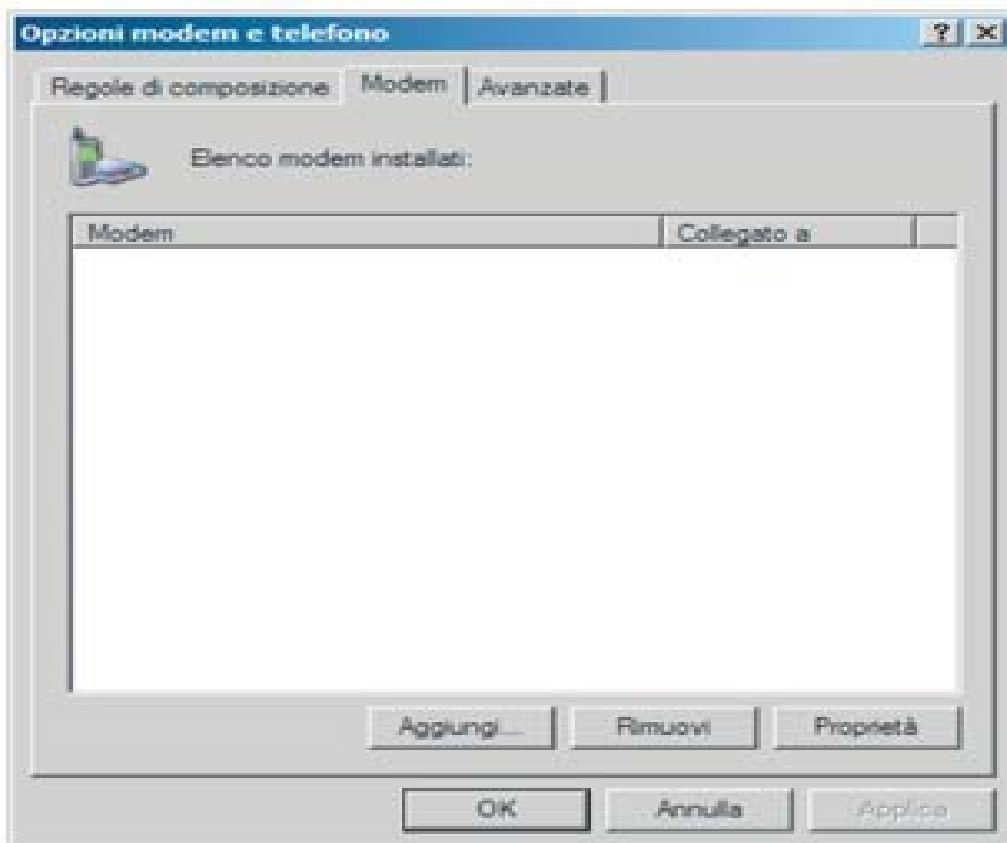
- 2) Now double click the “Pannello di controllo (Control Panel)” icon. If this icon is not displayed, use the link on the left.



3) Select “Opzioni modem e telefono (Phone and Modem Options)”.
This launches the wizard for installing a new modem.



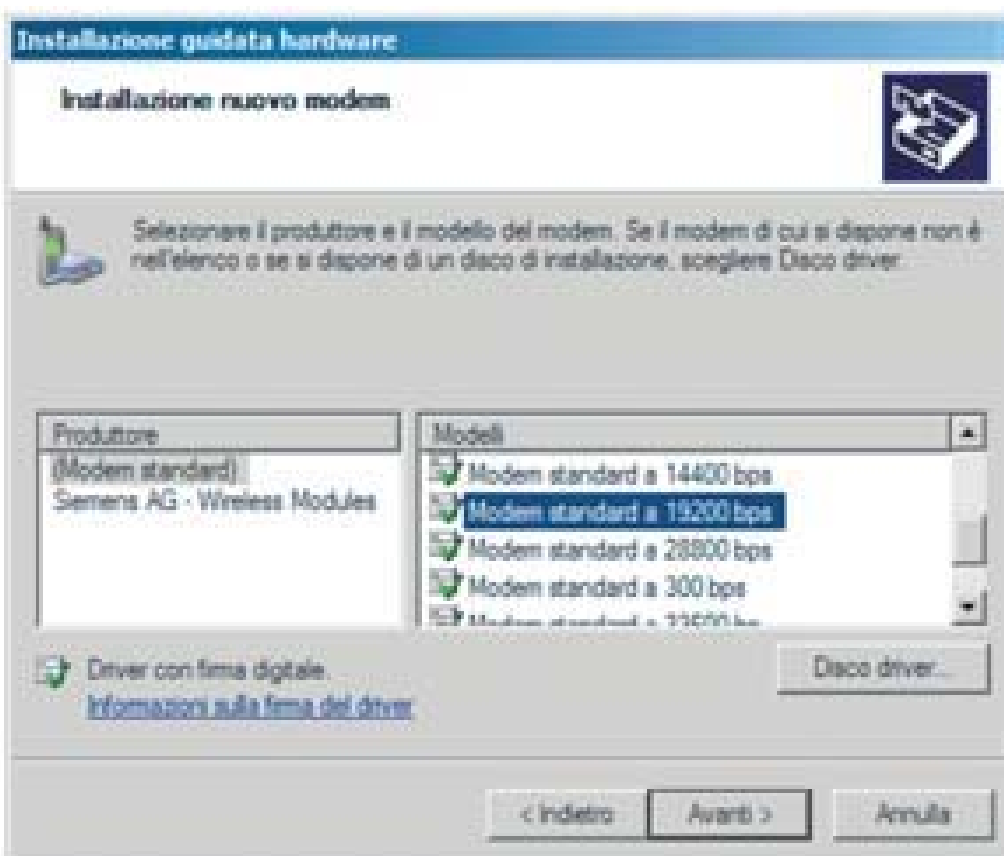
4) Open “Modem” and press “Aggiungi (Add)...”.



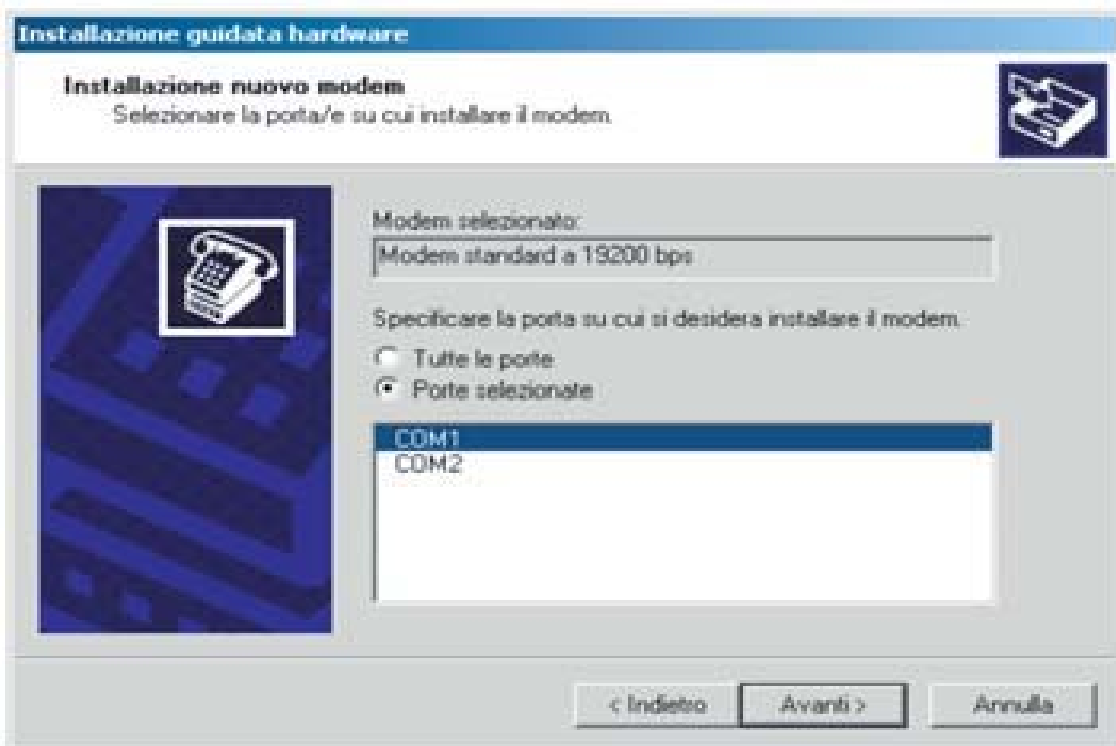
5) Check the "Non rilevare il modem: verrà... (Don't detect my modem: I will select....)" box and press "Avanti (Next)".



6) Use the following image as a reference for setting the different fields; after setting, press "Avanti (Next)".



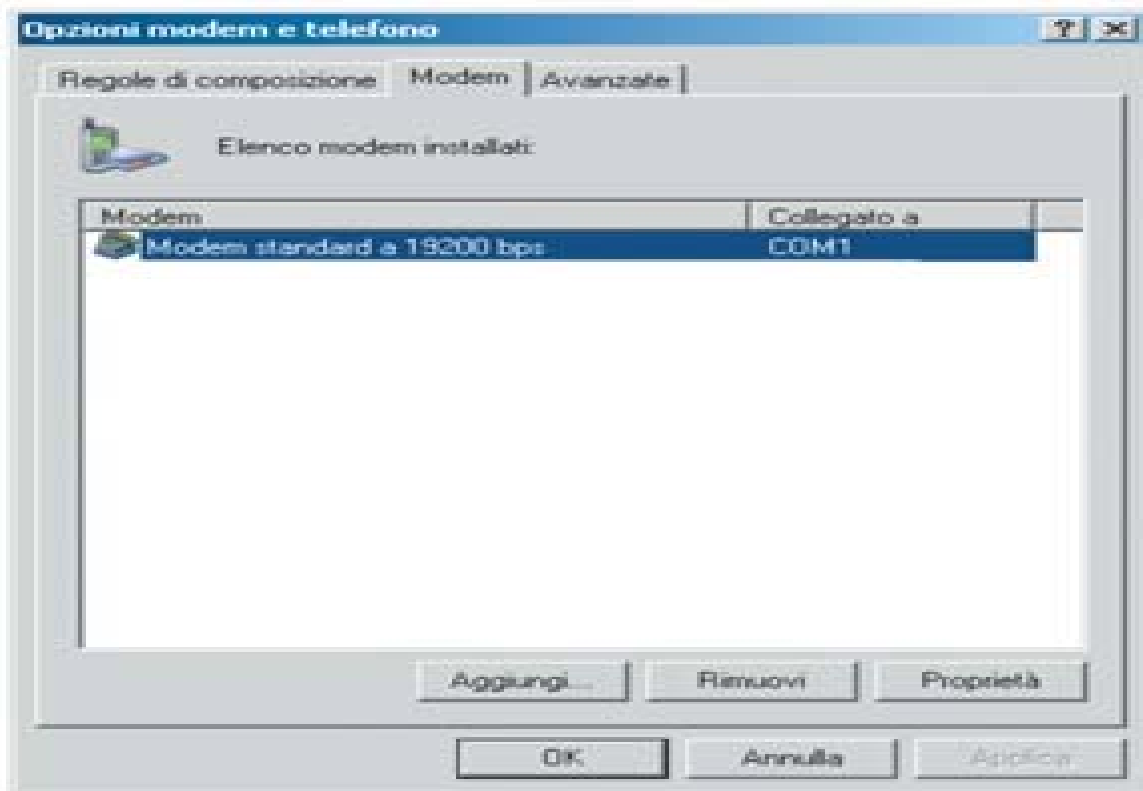
7) Select the serial port where the cable will be connected and press “Avanti (Next)”.



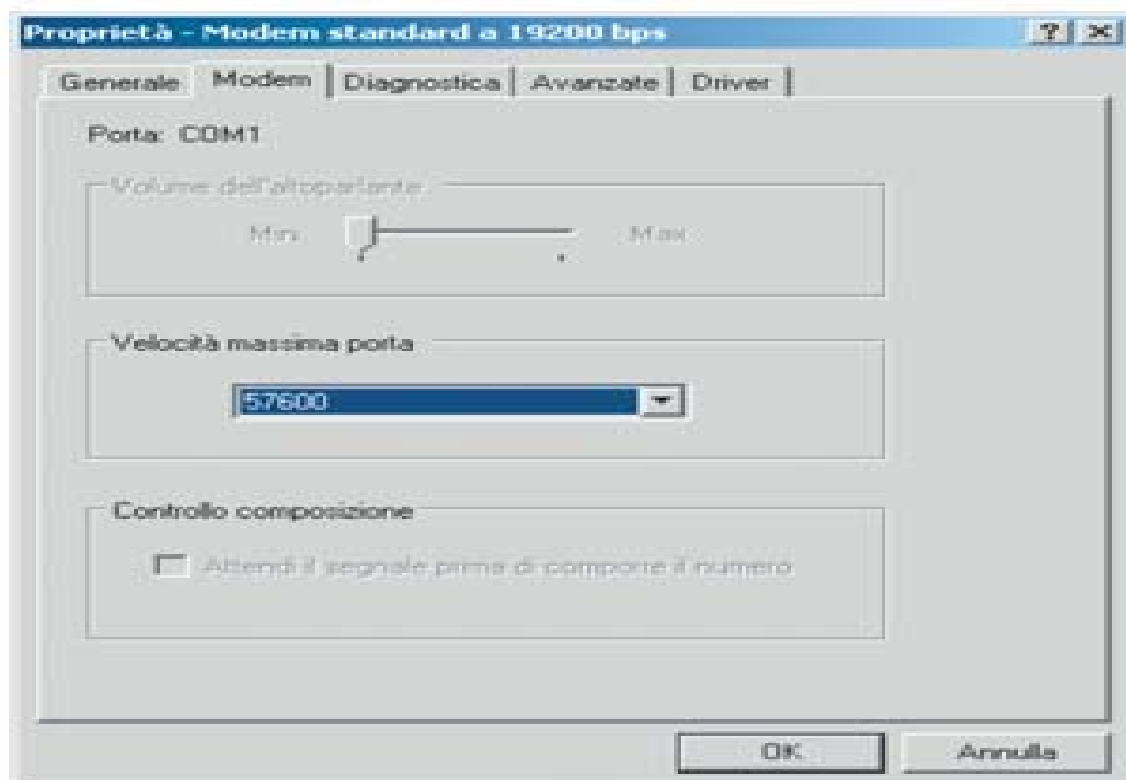
8) Press “Fine (Done)” to conclude the modem installation wizard.



9) Select the modem you just installed as shown in the picture below and press "Proprietà (Properties)".



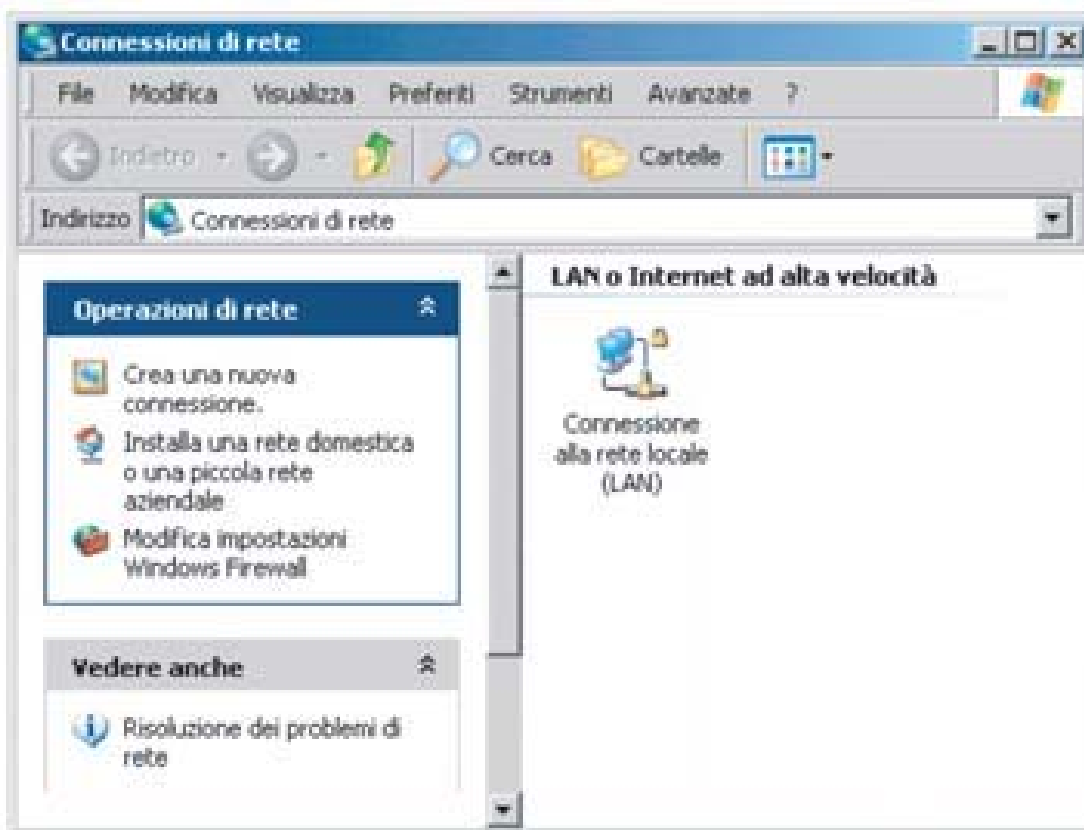
10) Check that 57600 is set for “Velocità massima (Maximum speed)”. In several cases we observed anomalies in the operating system, which automatically resets an incorrect value after the parameter has been set correctly.



11) Press OK until all windows are closed. Look for the “Risorse di rete (My Network Places)” icon on the desktop and right click it, then select "Proprietà (Properties)".



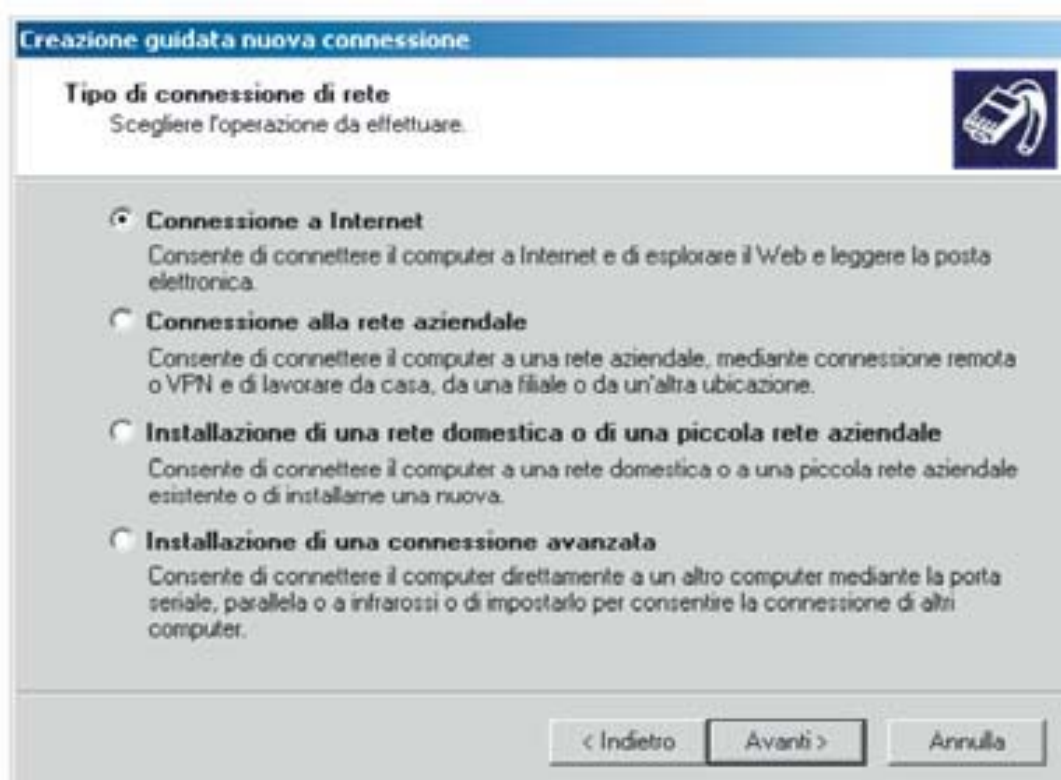
12) Click “Crea una nuova connessione (Create a new connection)”. This will launch an automatic wizard for creating a dial-up connection.



13) This will launch an automatic wizard for creating a dial-up connection. Press “Avanti (Next)”.



14) Select “Connessione a Internet (Connect to the Internet)” and press “Avanti (Next)”.



15) Select “Imposta connessione manualmente (Set up my connection manually)” and press “Avanti (Next)”.



16) Select “Connessione tramite modem remoto (Connect using a dial-up modem)” and press “Avanti (Next)”.



17) Digit “AERWEB30 cavo seriale (AERWEB30 serial cable)” in the “Nome ISP (ISP Name)” screen. Press “Avanti (Next)”.

Creazione guidata nuova connessione

Nome connessione
Specificare il nome del servizio che fornisce la connessione Internet.

Immettere il nome dell'ISP nello spazio sottostante.

Nome ISP

AERWEB 300 cavo seriale

Il nome immesso sarà il nome della connessione che si sta creando.

< Indietro Avanti > Annulla

18) Digit 123 in the “Numero di telefono (Phone Number to Dial)” screen. The phone number is a dummy number, since the modem and the phone line are only simulated. Press “Avanti (Next)”.

Creazione guidata nuova connessione

Numero telefonico da chiamare
Indicare il numero di telefono dell'ISP.

Digitare il numero di telefono di seguito.

Numero di telefono:

123

Per sapere se occorre includere un indicativo di località, comporre il numero di telefono. Il suono di un modem indica che il numero è corretto.

< Indietro Avanti > Annulla

19) Digit Aermec as User Name and Password.

Check the boxes as shown in the picture below. Press “Avanti (Next)”.

The screenshot shows the first step of the 'Creazione guidata nuova connessione' (New Connection Wizard) window. The title bar reads 'Creazione guidata nuova connessione'. The main heading is 'Informazioni sull'account Internet'. Below it, a note states: 'È necessario disporre di un nome account e di una password per accedere all'account Internet.' To the right is a small icon of a computer mouse. The instructions read: 'Immettere un nome di account ISP e la relativa password, quindi prendere nota di tali informazioni e conservarle in un luogo sicuro. Se il nome di account o la password esistenti sono state dimenticate, contattare l'ISP.' There are three input fields: 'Nome utente:' with the text 'daxel', 'Password:' with eight dots, and 'Conferma password:' with eight dots. Below these are two checkboxes: the first is checked and labeled 'Utilizza questo nome di account e password per la connessione a internet di tutti gli utenti'; the second is unchecked and labeled 'Imposta questa connessione Internet come predefinita'. At the bottom are three buttons: '< Indietro', 'Avanti >', and 'Annulla'.

20) The procedure is now complete. Check the “Aggiungi collegamento... (Add a shortcut to this connection...)” box and press "Fine (Done)".

The screenshot shows the second step of the 'Creazione guidata nuova connessione' (New Connection Wizard) window. The title bar reads 'Creazione guidata nuova connessione'. The main heading is 'Completamento della Creazione guidata nuova connessione'. On the left is a large blue graphic of a globe with a computer mouse icon. The text states: 'Sono state eseguite le operazioni necessarie per la creazione della seguente connessione:'. Below this, the connection name is 'XWEB 300 cavo seriale 2', followed by two bullet points: '• Condividi con tutti gli utenti del computer' and '• Utilizza lo stesso nome utente e password per tutti gli'. Below this, it says: 'La connessione verrà salvata nella cartella Connessioni di rete.' There is a checked checkbox labeled 'Aggiungi collegamento a questa connessione sul desktop'. At the bottom, it says: 'Per creare la connessione e terminare la procedura guidata, scegliere Fine.' At the bottom are three buttons: '< Indietro', 'Fine', and 'Annulla'.

21) The following window is displayed on the desktop. **DO NOT PRESS “COMPONI (DIAL)”**, press “Proprietà (Properties)”.



22) Press “Configura (Configure)” and make sure that the values correspond to the ones shown in the picture below.
Press “OK”.



23) Open the “Opzioni (Options)” tab and set the fields as shown in the picture below:



Press “OK” and go back to the connection window.

When you want to connect to AERWEB30, launch the connection you just created.

Wait until the procedure is successfully completed and digit the default IP address **192.168.0.100** in the address bar.

You can also use the icon on the desktop:



CALENDAR FUNCTION

The Calendar function is used for setting specific activity or inactivity intervals for a specific resource or event. You can create customized calendars for people as well as for specific system functions. The resources associated with a calendar will be made available only on the days and in the time periods marked as “Enabled”; as for the “Not Enabled” days, the resource will never be activated or called. When the system has to activate a resource which is associated with a calendar, it will check first that such resource is available, which means that the time in which the system wants to call is included in the profile preset as Enabled. If the resource is enabled, the system will call it, otherwise not. This applies, for example, for calls to a Help Centre associated to a specific calendar and for calls to the “Lights on” function, which will be associated with a different calendar. You can create as many calendars as you need. Each calendar can be associated with one or more resources. Each calendar works on a sheet, on a weekly basis for each month; each “Day” box is associated to a specific colour, based on the setting of that day.

Days can be set as follows:

- Enabled days - green box;
- Partly-enabled days – yellow box;
- Not Enabled days – grey box.

On the “Not enabled” days, the resource will not be made available for 24 hours. As for “Enabled” and “Partly enabled” days, you can set the times in which the resource will be available.

Calendar - Microsoft Internet Explorer

June 2004

Calendar: Light

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		0:00 24:00	0:00 24:00	0:00 24:00	0:00 24:00	0:00 24:00
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Individual Day Time Band

From 0:00 To 24:00

Set for All Enabled

Set for All Partly Enabled

Calendar Management

Open New Save Actual Delete Actual

Save As

Legend

Enabled Not Enabled Partly Enabled

Yearly Not Enabled Yearly Partly Enabled

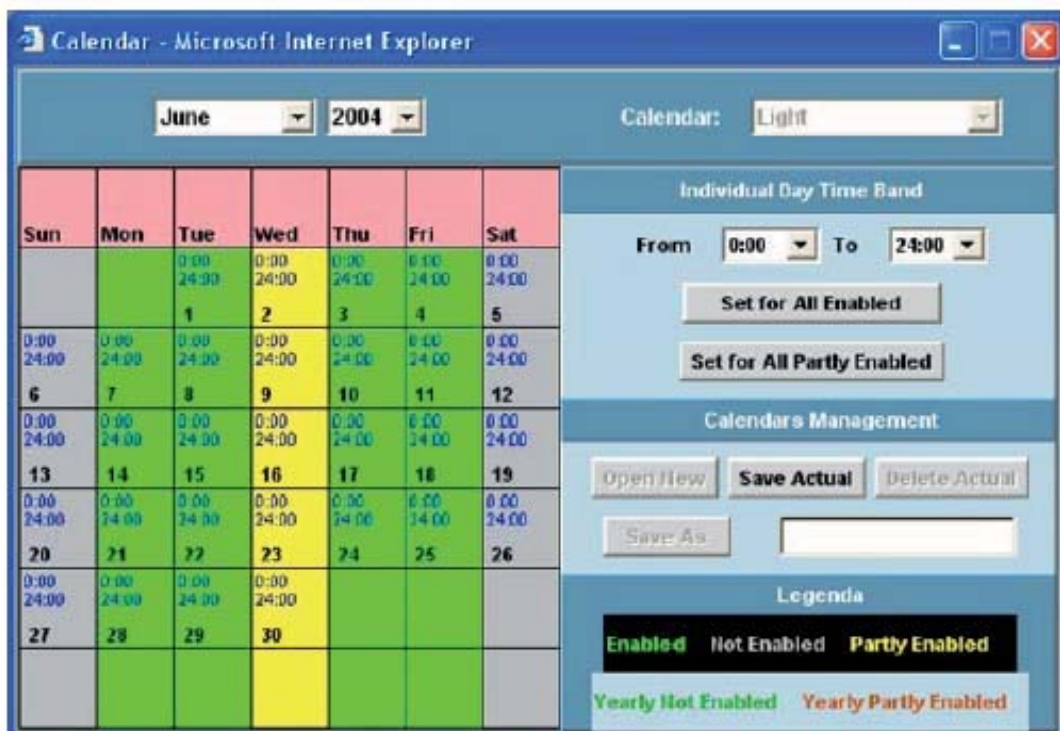
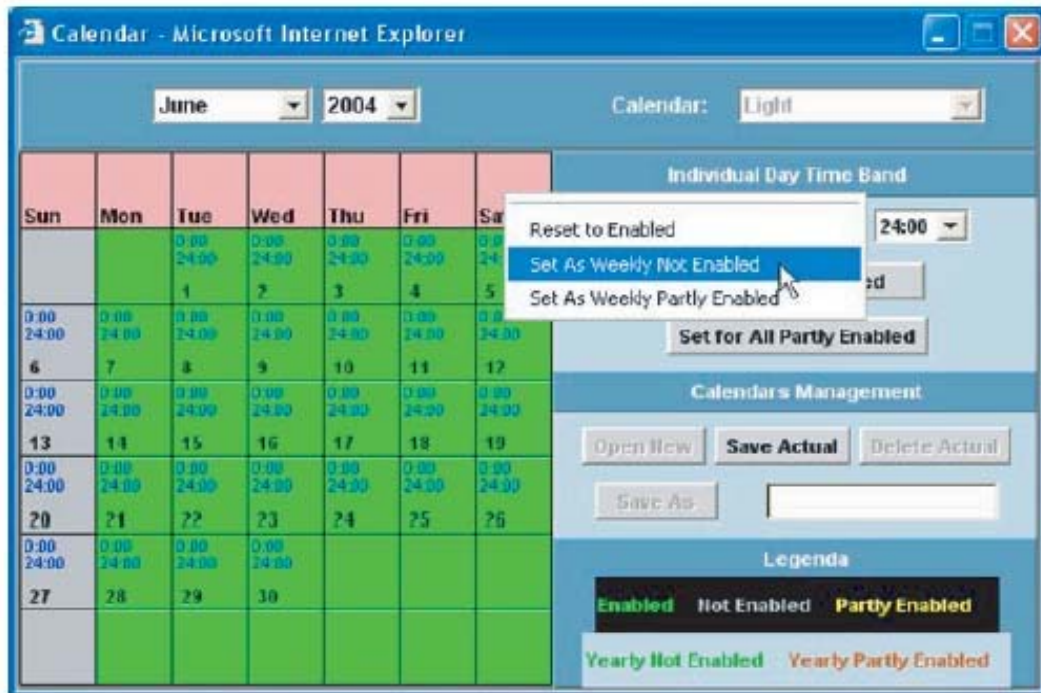
Setting a typical repetitive week

(Example: setting Saturday and Sunday as always disabled and Wednesday partly enabled).

- 1) Select a random month.
- 2) Point the mouse on the “Saturday” pink box on the first top row.
- 3) Left click with the mouse and choose "Imposta a non abilitato settimanale (Set As Weekly Not Enabled)".

Do the same operation for “Sunday”.

Do the same operation for “Wednesday” but choose “Set As Weekly Partly Enabled”. The correspondent boxes become grey and yellow respectively, for all months and all years.



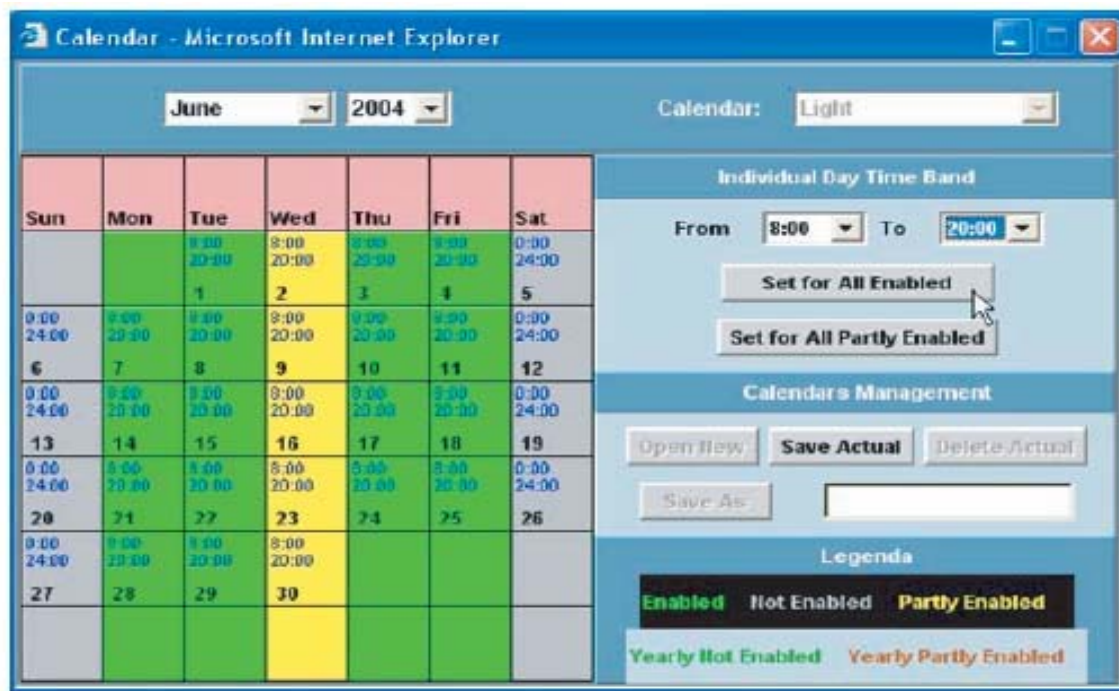
Setting the enabling interval for enabled and partly enabled days

(Example: specify the enabling interval 08:00 to 20:00 for enabled days and 08:00 to 13:00 for partly enabled days).

1) On the top right box, “Individual Day Time Band”, set the “From” box at 08:00 and the “To” box at 20:00.

2) Press the “Set for All Enabled” button.

This sets the above mentioned enabling interval for all working days. Repeat the same operations for partly enabled days and at the end press the “Set for All Partly Enabled” button.



Viewing daily options

In order to view the options set for every single day, point the mouse on the corresponding box and right click.



Setting/modifying each single day

You can change settings for each single day at any time:

- 1) Point the mouse on the desired day box;
- 2) Left click and choose the desired setting:

Set As Enabled: sets only this day as Enabled.

Set As Not Enabled: sets only this day as Not enabled.

Set As Yearly Not Enabled: sets this day as always Not Enabled for all years.

Set As Partly Enabled: sets only this day as Partly Enabled.

Set As Yearly Partly Enabled: sets this day as always Partly Enabled for all years.

Setting a series of days

You can select a series of following days and set the same option.

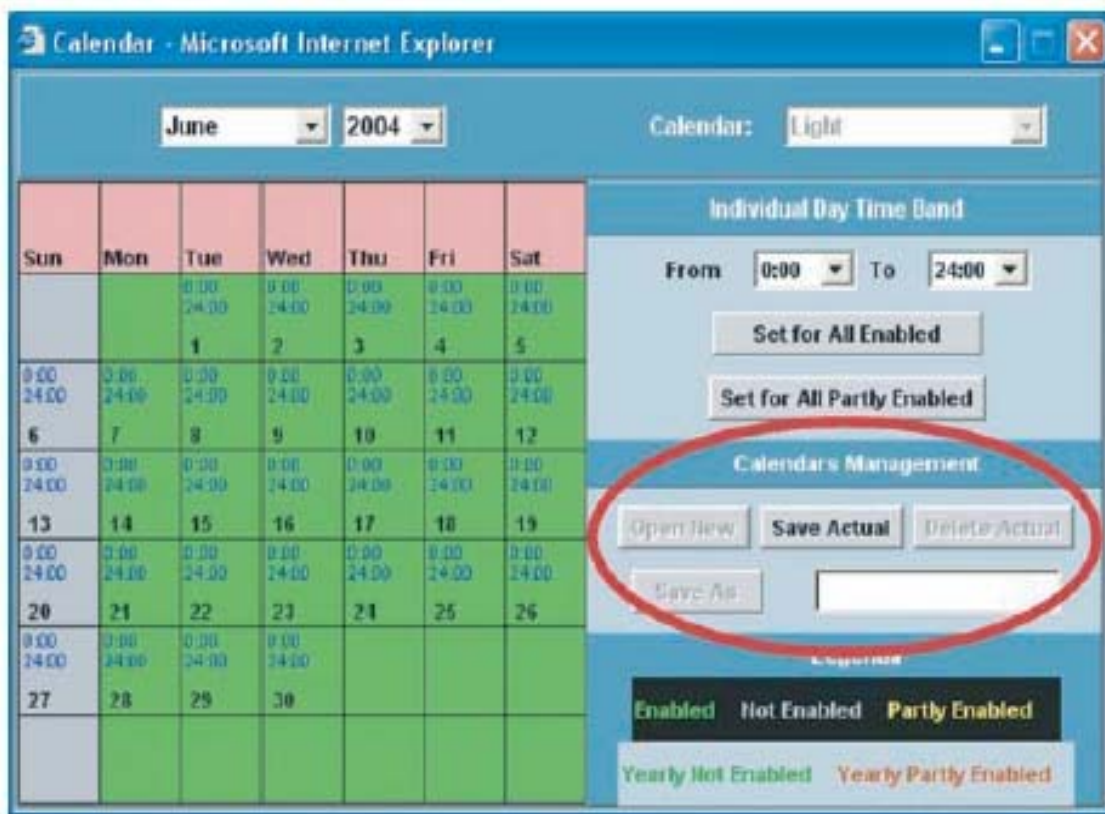
For example, you can specify a holiday period for any month during the year:

- 1) Point the mouse on the first day of the period and, left clicking with the mouse, scroll until the last day of the period, then release the button.
- 2) Choose the option for the selected period. All boxes of this period will be coloured accordingly.



Managing the Calendar

The buttons for managing the calendar are the ones in the corresponding box (picture 72) in the bottom right corner.



Open New: opens a new calendar. By default, all Saturdays and Sundays are set as holidays.

Save Actual: saves the currently displayed calendar, including any changes made.

Delete Actual: deletes the calendar displayed from the system calendar list.

Save As: allows you to save the calendar displayed with a name chosen by the User.

VIEWING AND MANAGING DEVICES

SETTING UP DEVICES

In the Device Set up stage, you can associate specific options and functions to each device installed in the System. Please make sure that all controllers connected to the RS485 line have been detected. As for the selected device, AERWEB 30 will display only such options (categories, alarms, inputs, etc.) associated to that specific device. Moreover, this window allows you to associate the previously created device categories and Alarm Typologies to a device. The options to be assigned to analog and digital inputs are made available in this windows as well. If a category entry is not available or if you want to assign a new one to a specific device, the corresponding window can be re-opened and the new input can be made.

FIRST DEVICE SETTINGS

Click “Nome (Name)” and modify the corresponding values as needed. Assign the reading speed selecting an entry from the “Intervallo (Interval)” menu. Decide if this device shall be used only for reading data (check the “Lettura Dati (Data reading)” box) or also for recording data (check the “Registrazione Dati (Data Recording)” box).

“Data Buffer” is a very useful function when an alarm is generated: the system records data transmitted from the RS485 line at the maximum speed available for 10 minutes before and 5 minutes after the alarm. This means that, even if the “Interval” value is set to 5 minutes and the average serial line inquiry time is set to around ten seconds, AERWEB 30 will store data for 15 minutes (before and after the alarm) with a much higher frequency, using more storage space in the system. In order to save the changes made so far, press the “Modifica (Modify)” button.

CONFIGURAZIONE DISPOSITIVI - Windows Internet Explorer
http://192.168.0.100/conf/disck_dsp_fr.html

AerWeb 30 Autosave: No Dispositivo: ADR-1-pasto Modello: NSB1 CPMA Modifica

Nome: pasto Tipologia: Refrigeration Indirizzo RS485: 1
Intervallo: Slow Lettura Dati: [checked] Registrazione Dati: [checked] Data Buffer: [unchecked]

Analogiche					Set Point				
Origine	Nome	Unita	Vis.	Reg.	Origine	Nome	Unita	Vis.	Reg.
SetPoint Utilizzato	SetPoint Utilizzato	C	[checked]	[checked]					
Alta Pressione	Alta Pressione	bar	[checked]	[checked]					
Bassa Pressione	Bassa Pressione	bar	[checked]	[checked]					
B3: TIA(master)_TUAC(slave)	B3: TIA(master)_TUAC(slave)	C	[checked]	[checked]					
Mandata Compressore	Mandata Compressore	C	[checked]	[checked]					
Uscita Acqua	Uscita Acqua	C	[checked]	[checked]					
Aria Esterna	Aria Esterna	C	[checked]	[checked]					
Gas Ingresso Evaporatore	Gas Ingresso Evaporatore	C	[checked]	[checked]					
Uscita Inverter	Uscita Inverter	V	[checked]	[checked]					
Ampere Compressore	Ampere Compressore	A	[checked]	[checked]					
Potenza Frigo master	Potenza Frigo master	%	[checked]	[checked]					
Potenza frigorifera Chiller	Potenza frigorifera Chiller	%	[checked]	[checked]					

Ingressi digitali				Uscite digitali			
Origine	Nome	Vis.	Reg.	Origine	Nome	Vis.	Reg.
OnOff remote	OnOff remote	[checked]	[checked]	Consenso CP master	Consenso CP master	[checked]	[checked]
Doppio setpoint	Doppio setpoint	[checked]	[checked]	On Standby Macchina	On Standby Macchina	[checked]	[checked]

Uscite analogiche			Comandi		
Origine	Nome	Vis.	Origine	Nome	Vis.

ASSIGNING CATEGORIES TO DEVICES

After having selected a device, you can associate previously created categories to it. For example, in the previous paragraph the device was associated with the correct value for "Intervallo (Interval)". In the set up page there are 3 menus for assigning a category to a device: "Intervallo (Interval)", "Tipologia (Typology)" and "Tipologia (Typology)" for the alarm section. The user should now find all information needed in these menus. If this is not the case, please go back to the corresponding page and input any missing entry.

ASSIGNING ALARM TYPOLOGIES

If you haven't done it already, select the desired device from the list. Only alarms that can be generated from the source device selected are automatically displayed in the corresponding windows. Each alarm can be associated with a tag, which will be displayed together with the alarm name on all screens. Select the desired Alarm Typology, so that all actions of the alarm associated with the Alarm Typology assigned correspond to the alarm. If there is no Alarm Typology suitable for the selected alarm, go back to the "Allarmi (Alarms)" window and create a new Alarm Typology with the features you need.

ORIGINE (SOURCE): based on the device model, you can manage different alarms; if the desired alarm is not displayed, this means that such alarm is not available for that specific device.

NOME (NAME): each alarm can be associated with a customized user caption. The system will display this caption whenever the alarm is generated.

TIPOLOGIA (TYPOLOGY): link to the corresponding "Tipologie Allarmi (Alarm Typologies)".

VIS. (SH) (visualizza - show): if enabled, it displays the relevant quantity.

REG. (REC) (registra - record): if enabled, alarms are recorded.

Alarms					
Origin	Name	Typology	Sh.	Rec.	Send
No link alarm	No link alarm	no link		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Low Value Pb1	Low Value Pb1	Temperature Alarm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
High Value Pb1	High Value Pb1	Temperature Alarm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Error Pb1	Error Pb1	Generic Alarm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

SETTING DIGITAL INPUTS, OUTPUTS AND DEVICE STATUS

The central section can be used to customize analog and digital inputs and the device operating status.

NOME (NAME): when displayed for the first time, each device is associated with the standard values stored in the AWEB 30 database. Users can rename captions simply clicking on them and assigning them the name they find more appropriate. Please pay careful attention to the difference between whole and decimal values. Decimal resolution is the factory setting for all devices; if you modify this value and set the whole resolution, please make sure to make the same change in AERWEB 30. All captions use decimal values.

Analog Input					Set Point				
Origin	Name	Unit	Sh.	Rec.	Origin	Name	Unit	Sh.	Rec.
Probe	...> My Probe name <..	°C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Set	Setpoint	°C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Digital Input					Device Status				
Origin	Name		Sh.	Rec.	Origin	Name		Sh.	Rec.
Defrost Start	Defrost Start		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	On / Off	On / Off		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Generic DI	...> My Digital Input		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Digital Input	Digital Input		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
					Defrost	Defrost		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Outputs Status					Commands				
Origin	Name		Sh.	Rec.	Origin	Name		Sh.	Rec.
					Device OFF	Device OFF		<input checked="" type="checkbox"/>	
					Device ON	Device ON		<input checked="" type="checkbox"/>	

VIEWING A DEVICE

1) Click “Dispositivi (Devices)” -> “Visualizza (View)” to choose the controller to be displayed. AERWEB 30 will show all the device quantities.

Set Point		Ingressi digitali		Stati Usate	
Acustiche		On/Off remoto	Non attivo	Pompa evaporatore	Attivo
SetPoint Utilizzato	7.0 °C	Doppio setpoint	Non attivo	Resistenza Antigelo	Non attivo
Alta Pressione	12.4 bar			Valv. aden. Liquido	Attivo
Bassa Pressione	2.5 bar			Valv. iniez. liquido	Non attivo
B3: TUA(master) TUA(Glave)	22.2 °C			Riscontro allarmi	Non attivo
Manif. Compressore	35.9 °C			Ventilatore	Attivo
Uscita Acqua	17.4 °C				
Aria Esterna	4.1 °C				
Gas Ingresso Evaporatore	4.0 °C				
Uscita Inverter	6.2 V				
Ampere Compressore	216.4 A				
Potenza Frigo inverter	25 %				
Potenza frigorifero Chiller	100.0 %				
Stati disponibili		Allarmi			
Consenso CP master	Attivo	Alarme grave	Non attivo	Unit non collegata	Non attivo
On Standby Macchina	Attivo	TC pompa evaporatore	Non attivo	TC compressore	Non attivo
		Manif. Compressore	Non attivo	Flussobato evap	Non attivo
		Sonda guardia B1	Non attivo	Press. alta press. in	Non attivo
		Sonda guardia B2	Non attivo	Alta press. invec.	Non attivo
		Sonda guardia B3	Non attivo	Press. bassa press.	Non attivo
		Sonda guardia B4	Non attivo	Bassa press. invec.	Non attivo
		Sonda guardia B5	Non attivo	Temp. premante	Non attivo
		Sonda guardia B6	Non attivo	TC ventilatore	Non attivo
		Sonda guardia B7	Non attivo	Bassa press. Low	Non attivo
				Rule not work cond	Non attivo

Selecting a device

Use the “Filtro Dispositivi (Device Filter)” menu. The page with data regarding the selected device is displayed. The first top section is divided into bands referring to typical device quantities. This is a “static” page, since the values shown are the ones recorded when the page is open. You can update such data checking the "Auto" box; in this way, the page will be updated using the value set in the box next to it. You can also press the "Aggiorna (Update)" button any time.



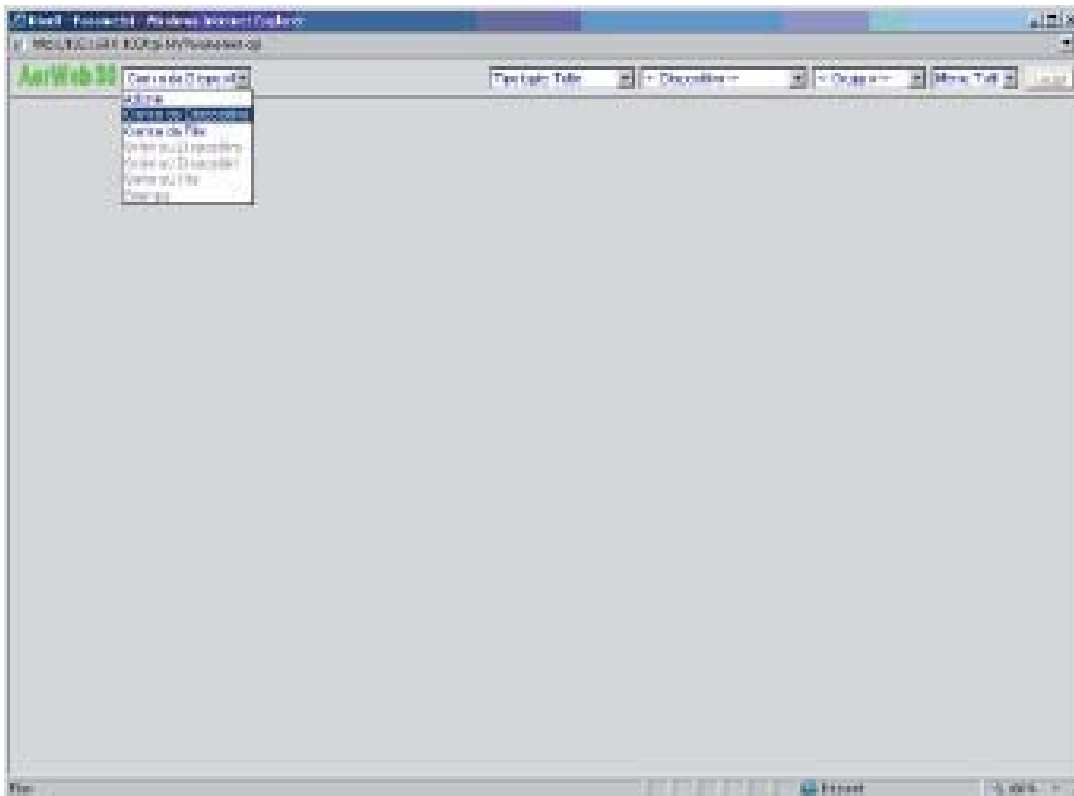
Controls

The selected device controls are shown in the bottom section of the page; these controls can be selected and activated on the device itself. The page boxes update automatically showing the new device status.



PARAMETERS

The “Parametri (Parameters)” function is used to manage parameters associated with device operation. From the “Home Page”, select “Parametri (Parameters)” from the “Dispositivi (Devices)” menu. Click “Carica dispositivo (Load device)”.



Carica da Dispositivo (Upload from a Device): • uploads parameters from a device;
Carica da file (Upload from a file): uploads parameters from a file saved in the user PC hard disc;
Scrivi su Dispositivo (Write on Device): • writes new parameters on the device;
Scrivi su Dispositivi (Write on Devices): • writes new parameters on compatible devices;
Salva su File (Save as File): saves parameters in a file in the user PC hard disc;
Stampa (Print): prints the parameter list.

Use the following criteria to filter parameters:

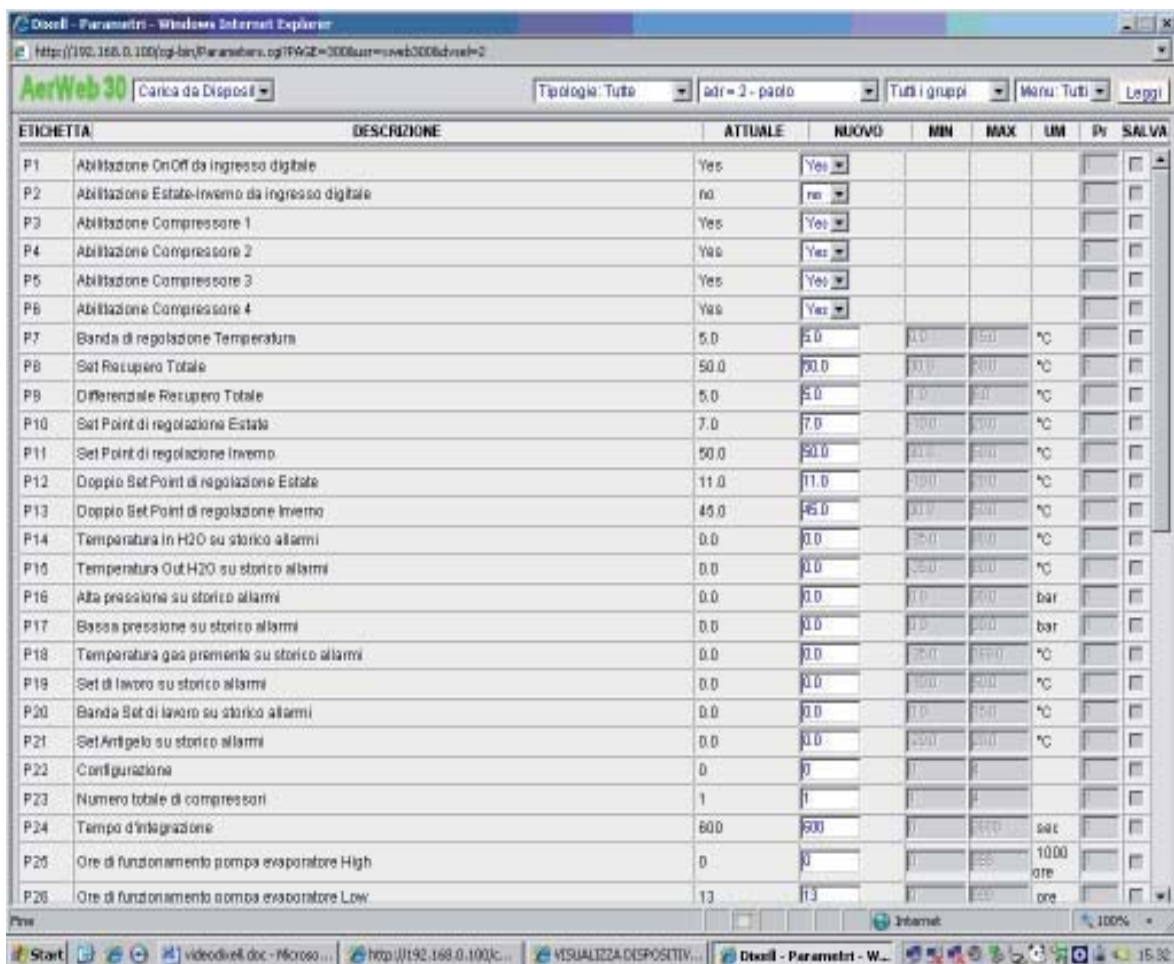
Tipologie (Typologies): to filter by category (“All” includes all devices);

Dispositivo (Device): to select the desired device;

Gruppo (Group): to load only a specific parameter group;

Menu tutti (All menu): • to upload a specific programming level (Pr1, Pr2, All)

Press the “Read” button to load the parameter page. Loading time depends on the number of parameters and the connection speed.



ETICHETTA	DESCRIZIONE	ATTUALE	NUOVO	MIN	MAX	UM	Pr	SALVA
P1	Abilitazione On/Off da ingresso digitale	Yes	Yes					
P2	Abilitazione Estate-Inverno da ingresso digitale	no	no					
P3	Abilitazione Compressore 1	Yes	Yes					
P4	Abilitazione Compressore 2	Yes	Yes					
P5	Abilitazione Compressore 3	Yes	Yes					
P6	Abilitazione Compressore 4	Yes	Yes					
P7	Banda di regolazione Temperatura	5.0	5.0	1.0	50.0	°C		
P8	Set Recupero Totale	50.0	50.0	1.0	50.0	°C		
P8	Differenziale Recupero Totale	5.0	5.0	1.0	50.0	°C		
P10	Set Point di regolazione Estate	7.0	7.0	1.0	50.0	°C		
P11	Set Point di regolazione Inverno	50.0	50.0	1.0	50.0	°C		
P12	Doppio Set Point di regolazione Estate	11.0	11.0	1.0	50.0	°C		
P13	Doppio Set Point di regolazione Inverno	45.0	45.0	1.0	50.0	°C		
P14	Temperatura In H2O su storico allarmi	0.0	0.0	1.0	50.0	°C		
P16	Temperatura Out H2O su storico allarmi	0.0	0.0	1.0	50.0	°C		
P16	Alta pressione su storico allarmi	0.0	0.0	1.0	50.0	bar		
P17	Bassa pressione su storico allarmi	0.0	0.0	1.0	50.0	bar		
P18	Temperatura gas prementia su storico allarmi	0.0	0.0	1.0	50.0	°C		
P19	Set di lavoro su storico allarmi	0.0	0.0	1.0	50.0	°C		
P20	Banda Set di lavoro su storico allarmi	0.0	0.0	1.0	50.0	°C		
P21	Set Antigelo su storico allarmi	0.0	0.0	1.0	50.0	°C		
P22	Configurazione	0	0					
P23	Numero totale di compressori	1	1					
P24	Tempo d'integrazione	600	600			sec		
P25	Ore di funzionamento pompa evaporatore High	0	0			1000 ore		
P26	Ore di funzionamento pompa evaporatore Low	13	13			ore		

The parameter window includes the following columns:

Etichetta (Tag): parameter description;

Descrizione (Description): parameter function description;

Attuale (Current): current parameter value;

Nuovo (New): new value which can be set by the user;

Min /Max: parameter interval allowed;

Min /Max: parameter interval allowed;
UM: unit of measurement;
Pr: parameter programming level;
Salva (Save): to select the parameter to save.

Modifying a parameter

Input the desired value in the “New” column. Based on the type of parameter, you can select the value from a scroll-down menu. Confirm the new value clicking outside the “New” area. You cannot input a value above the standard parameter limits; doing this, an error message is displayed and the value is highlighted in red. You can modify more than one parameter at once.

Modifying the programming level

Modify this value in the “Pr” column.

Saving new parameters for a device

- 1) Select “Write on Device” from the “Action” menu;
- 2) Confirm the operation pressing “OK”.

Saving parameters

Parameters can be saved on the user PC hard disc and they can be used on other devices.

- 1) Open an active parameter window, press the ”Action” menu and select “Save on File”.
- 2) Check the fields you want to save on the ”Save” column.
- 3) Press “Save” on the top left corner.
- 4) Press “Save All” to save all parameters.

The procedure to follow is the one normally used to save a file in Windows.

ALARM MENU

ALARM HISTORY

This function can be used to view the alarm history stored in AERWEB30.

Viewing and searching alarms

On the Home Page, select “Allarmi (Alarms)” and then “Archivio (Library)”.

This page is divided into 3 main sections.

“**Filtro Dispositivi (Device Filter)**” defines the group and device to search.

“**Filtro allarmi (Alarm Filter)**” defines the alarm typology to search.

“**Azione (Action)**” menu can be used to choose an action:

Saving in the hard disc in HTML format, displaying in the current window or printing alarms.

AERWEB 30 automatically loads all alarms and the user can use filters.

Values for the “Fine (End)” column:

Attivo (Active): alarm still active

Auto: alarm automatically stopped and not active anymore.

Stop Lett. (Stop reading): monitoring stopped by a user.

Riavv. Sist. (Restart sys.): system restarting

Visualizza Archivio Allarmi - Windows Internet Explorer

http://192.168.0.100/view/ahv_all_fr.html

AerWeb 30

Azione: Visualizza [Aggiorna]

Filtro dispositivi: Tipologia: <-Tutte le tipologie-> Dispositivo: <-Tutti i dispositivi->

Filtro allarmi: Tipologia: <-Tutte le tipologie-> ☐ Solo Attivi ☐ Ultimi: 7 Giorni

Id	Nome Disp.	Tipologia allarmi	Nome allarme	Da	A	Stato
2	peolo	System Alarm	No link alarm	04/04/2008 11:42:08		Attivo
1	peolo	System Alarm	No link alarm	04/04/2008 11:42:08	06/04/2008 12:18:21	Auto
2	peolo2	System Alarm	No link alarm	04/04/2008 11:51:06	06/04/2008 18:56:09	Riservio Stabara
1	peolo1	System Alarm	No link alarm	04/04/2008 16:57:28	06/04/2008 18:56:09	Riservio Stabara
2	peolo2	System Alarm	Falso descr. mod. cont.	04/04/2008 16:53:22	04/04/2008 18:53:31	Auto
1	peolo1	System Alarm	Riservio allarmi 2	04/04/2008 16:53:18	04/04/2008 18:53:27	Auto
1	peolo1	System Alarm	Riservio allarmi 2	04/04/2008 16:51:28	04/04/2008 18:51:37	Auto
2	peolo2	System Alarm	TC compressione	04/04/2008 18:55:55	04/04/2008 18:21:04	Auto
1	peolo1	System Alarm	Riservio allarmi 2	04/04/2008 18:18:45	04/04/2008 18:21:00	Auto
1	peolo1	System Alarm	Alta press. trend.	04/04/2008 18:10:10	04/04/2008 18:12:10	Auto
1	peolo1	System Alarm	TC compressione	04/04/2008 10:44:58	04/04/2008 10:48:05	Auto
2	peolo2	System Alarm	Press. alta pressioni	04/04/2008 10:36:23	04/04/2008 10:43:10	Auto
1	peolo1	System Alarm	Riservio allarmi 2	04/04/2008 10:35:10	04/04/2008 10:43:18	Auto
2	peolo2	System Alarm	Trasformatore AMP	04/04/2008 10:02:58	04/04/2008 10:03:49	Auto
1	peolo1	System Alarm	Riservio allarmi 2	04/04/2008 10:02:55	04/04/2008 10:03:54	Auto
2	peolo2	System Alarm	Trasformatore AMP	04/04/2008 09:56:25	04/04/2008 09:56:09	Auto
1	peolo1	System Alarm	Riservio allarmi 2	04/04/2008 09:56:21	04/04/2008 09:56:09	Auto
2	peolo2	System Alarm	No link alarm	04/04/2008 09:54:06	04/04/2008 09:56:07	Auto
1	peolo1	System Alarm	No link alarm	04/04/2008 09:54:06	04/04/2008 09:56:12	Auto
2	peolo2	System Alarm	Trasformatore AMP	04/04/2008 09:52:38	04/04/2008 09:54:09	No Link
1	peolo1	System Alarm	Riservio allarmi 2	04/04/2008 09:22:36	04/04/2008 09:54:04	No Link

File: Internet 100%

Device status from the alarm history page

If you want more detailed information regarding the device that generated an alarm, click on the device name; the “Visualizza (View)” window will be displayed, showing all values recorded when the alarm was generated. For an overview of the current system status, load the “Visualizza (View)” window using the menu on the Home Page.

Printing the alarm list

Select “Stampa (Print)” from the “Azione (Action)” menu.

The file is printed from the user PC using any printer connected to the PC. Follow the Windows printing procedure.

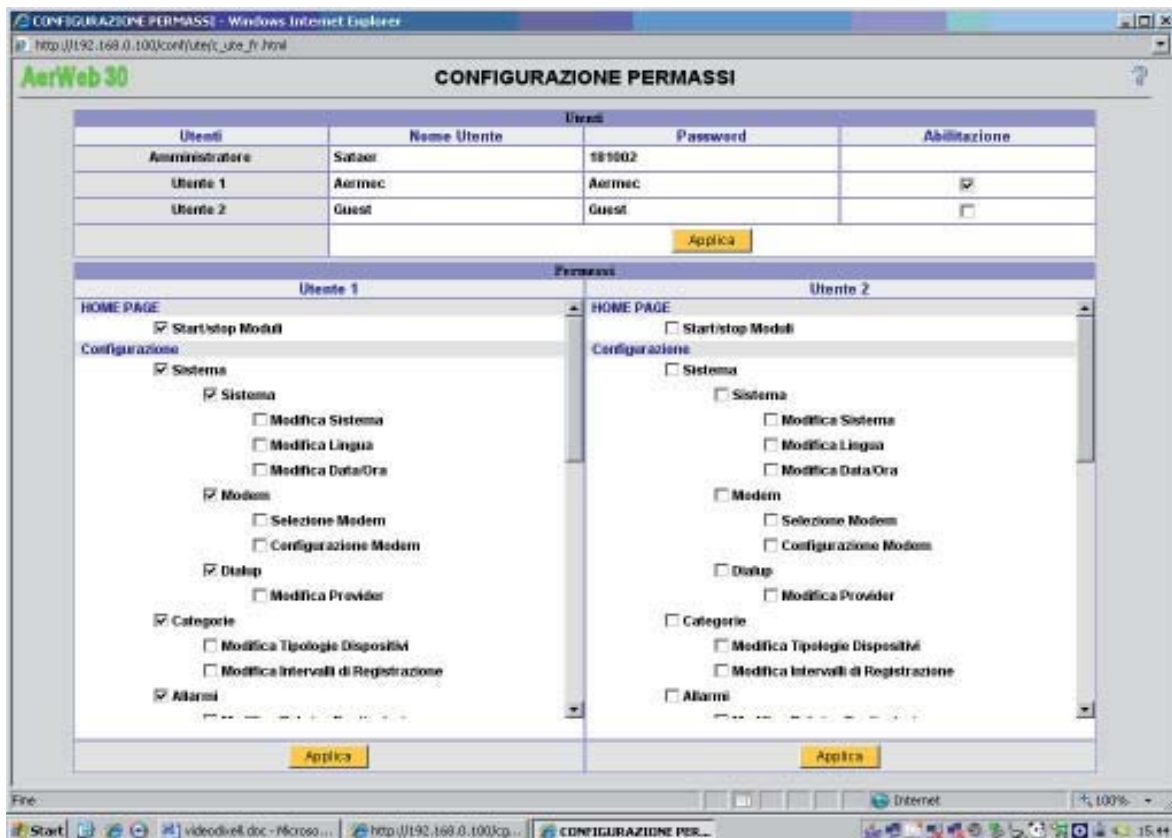
MANAGING ACCESS AUTHORIZATION TO AERWEB 30

Select “Configurazione (Set up)” from the Home Page, then select “Permessi (Authorizations)”. This is one of the most important sections in order to ensure that AERWEB 30 works correctly. You can create up to 3 users and grant or deny them the possibility to interact with the monitoring system.

We recommend creating a user authorized to only read system data and another user authorized to modify the system as well. A third user, the administrator, should be the only user enabled to interact with fundamental system sections such as managing alarms and devices, etc.

When powered on for the first time, AERWEB 30 is set up to accept an administrator user and two standard users. If you want to change these settings, click the “Nome Utente (User Name)” and “Password” fields and change them as needed.

Press “Applica (Apply)”.



In order to authorize or deny access to specific system areas, check or uncheck the corresponding fields on the “Permessi (Authorizations)” window. Press “Applica (Apply)”.

MANAGING USERS

You can interact with a user in 3 different ways:

Granting/denying access privileges.

Disabling a user (“Enabling” control box).

Changing User Name and Password.

TOOLS SECTION

AERWEB 30 is equipped with a complete set of programs to help the user with server maintenance and when searching potential connection problems on the RS 485 line.

LIBRARY STATUS

You can use this window to obtain important information on how long libraries are stored in the system internal memory. The method used is the FIFO code (first stored data is deleted first); this means that, when the available memory is full, older data is dynamically overwritten by newer data. In order to change the library storage period, you can modify quantities or storage speed. The bigger the quantity, the quicker will be the data acquisition interval and the shorter will be the library duration. Please note that the system does not stop working when the memory is full, since older data is overwritten. Users can download data any time using the “Data/Grafici (Data/Graphs)” menu.

Value	Meaning	Unit of measurement
Library	System memory used	Percentage
First data	First data available	Date and time
Last data	Last data available	Date and time
Estimated Library duration	How many days after storing the last data can be managed by the Library.	Date and time
Minimum recording interval	Minimum time required by the system to search all devices connected to the RS 485 line.	Minutes/seconds
Buffer duration	Alarm buffer size.	Minutes/seconds



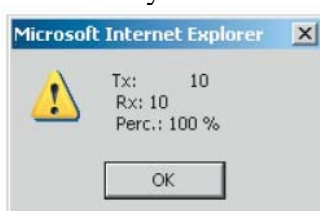
RS 485 TEST

You can carry out a diagnostic test on the RS 485 serial connection to check its status. Select “RS 485”; the following window will be displayed.

Statistica di comunicazione su RS485					
Adr	Nome	Tx	Rx	Perc.	Test
1	new_XJP60D	34619	34610	99%	<u>Test</u>

Aggiorna Reset

Clicking “Test”, AERWEB 30 briefly checks the RS485 line exchanging data packets with the device analyzed. If the test is positive, the following results will be displayed:



EVENTS LIBRARY

In this window you can check events and activities for each user authorized to access AERWEB 30. The library is in FIFO format and it shows activities carried out by each user in a hierarchic way. Pressing “Cancella (Delete)” the library is emptied and pressing “Aggiorna (Update)” the library is updated in real time.

Visualizza archivio eventi	
Data	Descrizione
23/01/2005 21:31:44	- Connesso Amministratore
23/01/2005 21:31:43	- Disconnesso Utente 1
23/01/2005 21:31:09	- Pagina - VISUALIZZA DISPOSITIVI - new_XJP60D
23/01/2005 21:30:56	- Pagina - VISUALIZZA DISPOSITIVI
23/01/2005 21:30:43	- Connesso Utente 1
23/01/2005 21:30:42	- Disconnesso Amministratore
23/01/2005 21:29:16	- Connesso Amministratore
23/01/2005 21:29:15	- Disconnesso Utente 1
23/01/2005 21:28:35	- Connesso Utente 1
23/01/2005 21:28:34	- Disconnesso Amministratore
23/01/2005 21:27:55	- Connesso Amministratore
23/01/2005 21:27:54	- Disconnesso Utente 1
23/01/2005 21:27:28	- Connesso Utente 1
23/01/2005 21:27:27	- Disconnesso Amministratore
23/01/2005 21:14:04	- Pagina - CONFIGURAZIONE DISPOSITIVI
23/01/2005 21:13:42	- Pagina - Stato Archivio
23/01/2005 21:13:23	- Start - Registrazione Dati
23/01/2005 21:13:22	- Start - Lettura Dati
23/01/2005 21:13:14	- Pagina - Start/stop Moduli
23/01/2005 21:13:01	- Cancella - Intervalli di Registrazione: 1 min
23/01/2005 21:12:47	- Pagina - CONFIGURAZIONE CATEGORIE
<input type="button" value="Aggiorna"/> <input type="button" value="Cancella"/>	

SERVER STATUS

Select “Stato Server (Server Status)”. This window displays any error message from AERWEB 30. You can access this section in a quick way from the Home Page as well.

If there is a small red warning sign icon next to “Stato Server (Server Status)”, just click on it to access the corresponding section.

Server		Server	
Server:	UcLinux	Server:	UcLinux
Indirizzo IP:	192.168.0.100	Indirizzo IP:	192.168.0.100
Risorse:	Ram=96% Flash=25% Sistema: 0%	Risorse:	Ram=96% Flash=25% Sistema: 0%
Archivio Dati:	0%	Archivio Dati:	0%
Lettura Dati:	Attivo	Lettura Dati:	Attivo
Registrazione Dati:	Attivo	Registrazione Dati:	Attivo
TX Allarmi:	Attivo Modifica	TX Allarmi:	Attivo Modifica
Ultima connessione:	23/01/2005 - 21:30	Ultima connessione:	23/01/2005 - 21:30
Ultimo utente:	user	Ultimo utente:	user
Stato Server:	OK	Stato Server:	

Operation without errors

Error status

MESSAGES STATUS

In this section you can check the alarm message sending status.

If any message has not been sent correctly, here you will find the reason and the current status of the unsent message. The system automatically tries to send the message again, should the first sending fail.

Stato messaggi						
Tipo	Tipologia	Destinatario	Start	N tentativi	Ultimo errore	Cancella
Nessun messaggio da spedire						
Aggiorna						

INFORMATION MENU

SYSTEM VERSION

On the Information menu, click “About”:

The example below shows that the system version is version 2.0



UPDATING THE SYSTEM

An important feature of AERWEB 30 is the possibility to update it via modem or serial cable. This procedure can be activated by the administrator only.

From the Home Page, select the “Informazioni (Information)” menu, then select “System Update”.

In order to carry out the update, Java Virtual Machine should be installed in the PC used.

During the update procedure, which could require a few minutes, the system stops the RS 485 monitoring process.

GRAPHS

GRAPHS WITH AERWEB 30

Access this section from the “Data” -> “Grafici” (“Data” -> “Graphs”) menu.

Based on the value set for “Intervallo (Interval)”, the system stores values from RS 485. Please note that these “graphic libraries” will increase in size, slowly using more and more system memory.

VIEWING GRAPHS

Select “Grafici (Graphs)” from the “Data” menu.

Select the desired device using the “Filtro dispositivi (Device Filter)” list and selecting the specific device from the list.

The window will automatically update showing typical quantities for the device selected. The first field displayed is “Intervallo disponibile (Available Interval)”, showing the whole history library available; the second field is “Intervallo selezionato (Selected Interval)”, that can be used to select only a specific interval to be displayed on the graph.

The bigger the interval to be displayed, the more the time required to create the graph. For a first brief analysis, please select an interval for the period needed.

In this way you can view samples in an accurate way.

If needed, you can use the “Densità Grafico (Graph Density)” parameter to reduce samples used when creating the graph. In this way you can reduce the time needed for creating the graph (useful when connecting via modem), although the accuracy will be reduced as well.

There are 3 areas available to manage quantities to be displayed:

- Analog (analog probe inputs)
- Device Status (status of the device)
- Device Output (outputs of the device).

The system can manage up to 3 analog quantities (AG1 – AG2 – AG3) and two digital quantities (DG1 – DG2).

You can choose the colour of the line for each value to be displayed in the graph; moreover, several compatible quantities can be displayed in the same graph or separated.

Use the scroll-down menu to choose one of the following values: AG1, AG2, AG3, DG1 e DG2.

The maximum number of graphs is 5; there are no limitations to the number of quantities that can be displayed on the graph.

In order to choose the graph accuracy, use the “Densità Grafico (Graph Density)” parameter; a higher density corresponds to a longer download time.

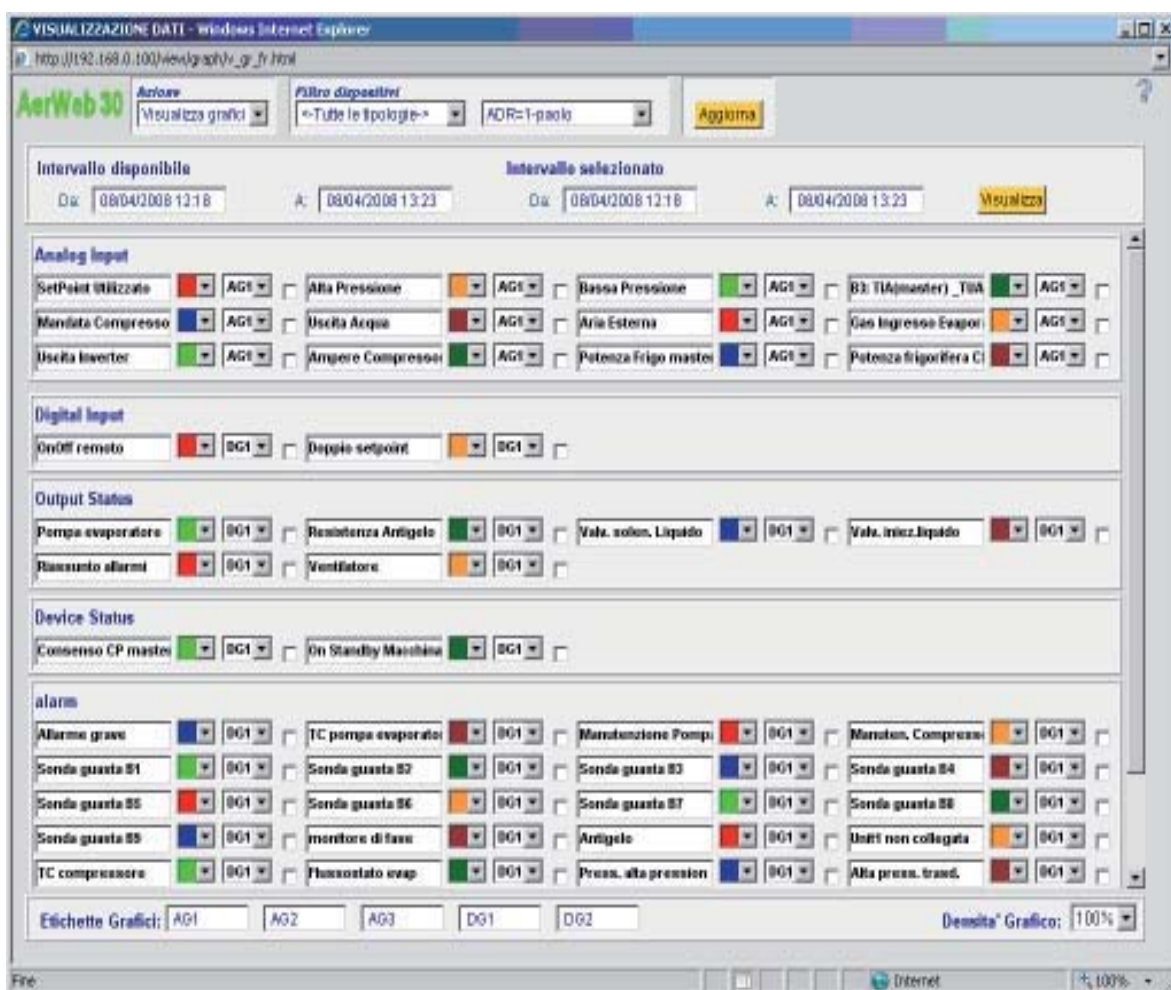
Pressing the “View” button, the graph displaying procedure starts.

The graphic part is based on a Java Applet, which needs Java Virtual Machine correctly installed on the user PC to work properly.

Based on the software version, a message will be displayed to confirm that the user accepts the software usage terms.

Aermec S.p.a. ensures that the software is free from viruses; carry on pressing OK.

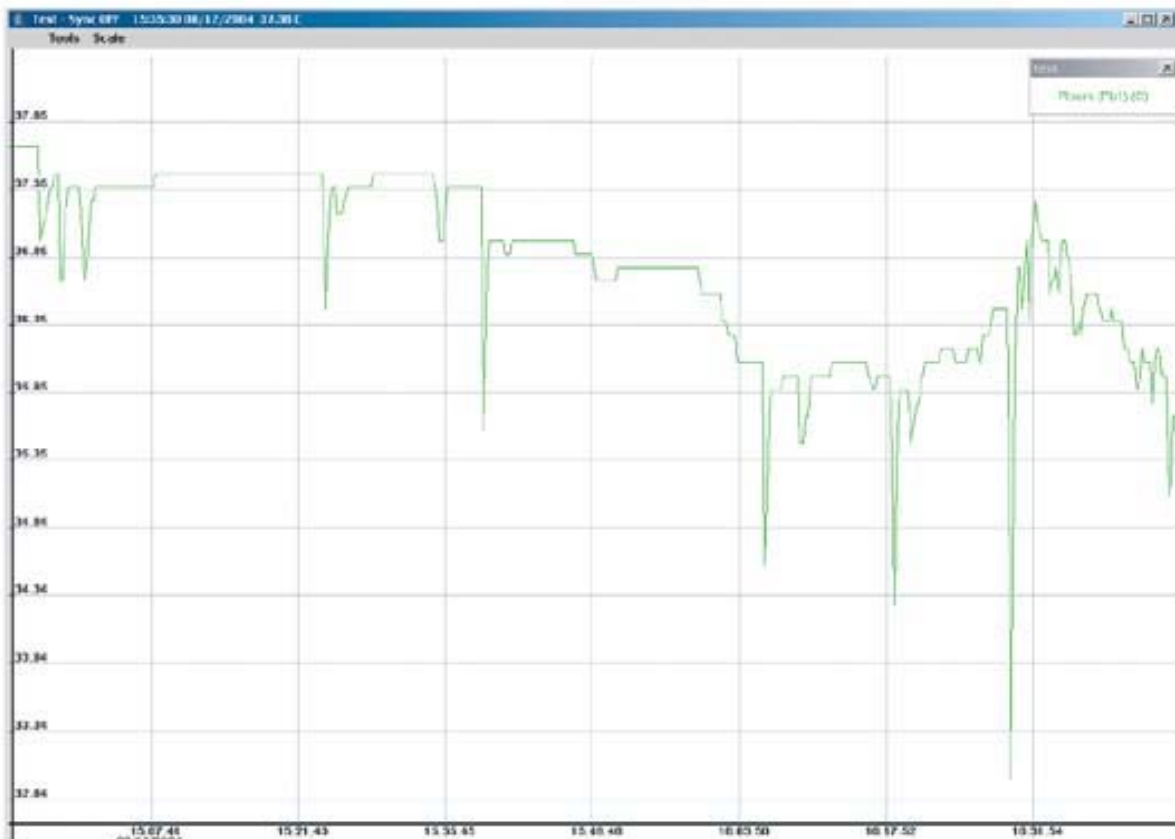
While downloading data, you can check the progress in the following window. At the end, the graph will be displayed.



Zoom in/out

Before zooming, select the graph you want to zoom (if more than one graph is displayed).

Left click on the graph bar. To zoom in, keep the mouse left button pressed. To zoom out, keep the mouse right button pressed.



Zooming one area

Make sure you selected the desired graph clicking on the header bar.

Point the mouse on the graph and, keeping the mouse left button pressed, circle the desired area with a rectangle. If the size of the area selected is not appropriate, click with the mouse outside the area and repeat the operation.

Left click inside the selected rectangle to activate the zoom.

Resetting the original scale

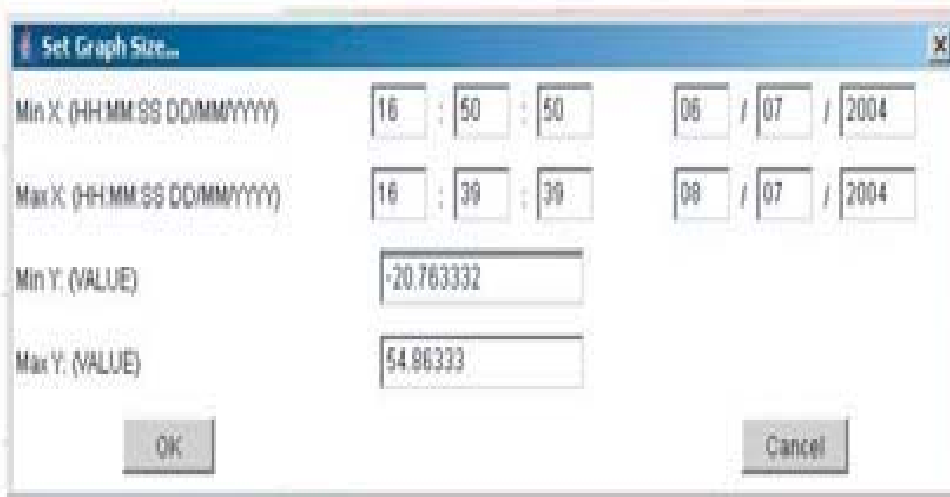
Select "Reset Size" from the "Scale" menu.



Manual scale

Axis are automatically scaled so as to represent the whole selected time interval and the minimum and maximum values for the quantity selected. In order to customize the scale, choose "Manual Size" from the "Scale" menu.

You can set the X and Y values in the window that will be displayed.

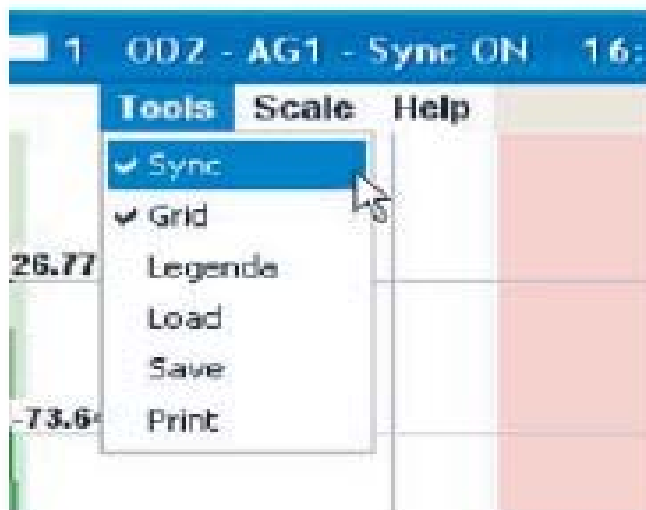


Synchronizing graphs

When information related to one device is displayed in two graphs, axis are automatically synchronized. If the user zooms in, the system adapts the scale to the new size, losing its uniformity with other graphs.

To use a single scale for all graphs displayed, check "Sync" in the "Tools" menu. Repeat this operation for all graphs you intend to keep synchronized.

Each time you zoom, the graphs will be synchronized with one another.



Legend

The graph legend is automatically displayed at the top left corner.

If the legend is covering an important area, you can move it or close it as you would do with a standard Windows box. To activate the Legend again, select it from the "Tools" menu.

Saving a graph

Use this function to save the current graph on the user PC hard disc. Select “Save” from the “Tools” menu.

Please use the standard procedure used for saving a file in Windows.

On the bottom left corner of the window there is a dialog box where you can choose the format for saving the file: test (TXT) or Web page (HTML).

Loading a saved graph

Use this function to load a graph previously saved on the user PC hard disc. Select “Load” from the “Tools” menu.

This is the standard procedure used for loading a file in Windows.

Printing a graph

Use this function to print a graph on the user PC local printer.

Select “Print” from the “Tools” menu.

This is the standard procedure used for printing a file in Windows.

Deleting the graph library

Select “Canc. Arch. Dati (Delete Data Library)” from the “Azione (Action)” menu.

Warning: deleting data from the library frees up system memory; however, this operation is non-reversible.

Background colours

The graph background colours depend on the system status.

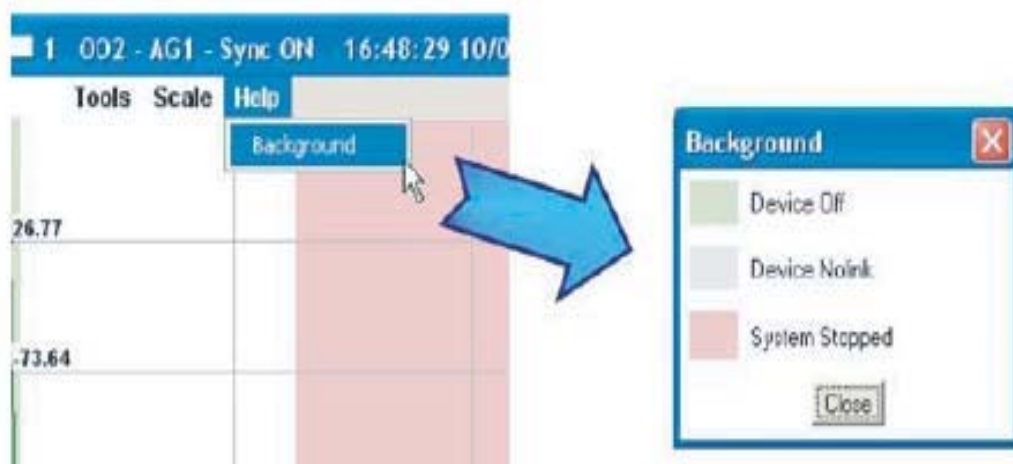
White indicates normal operation.

Green indicates that the device is Off.

Grey indicates that the device is in No-link status

Pink indicates that data capture is stopped.

Select “Help” from the ”Help” menu.



EXPORTING DATA

As mentioned in the previous paragraph, you can export data from AERWEB 30 to a PC.

You can export data in text format (TXT) as well as Web page format (HTML). Select “Salva su disco (Save to disc)” and refer to the picture for operating details.

Example of data saved in text format:

```
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
```

DELETING DATA

To delete all data stored, open the “Dati” -> “Grafici” (Data” -> “Graphs)” menu. Select “Canc. archivio dati (Delete data library)” from the “Azione (Action)” menu.

Please be careful, since this operation will delete all data stored in the devices and is non reversible.

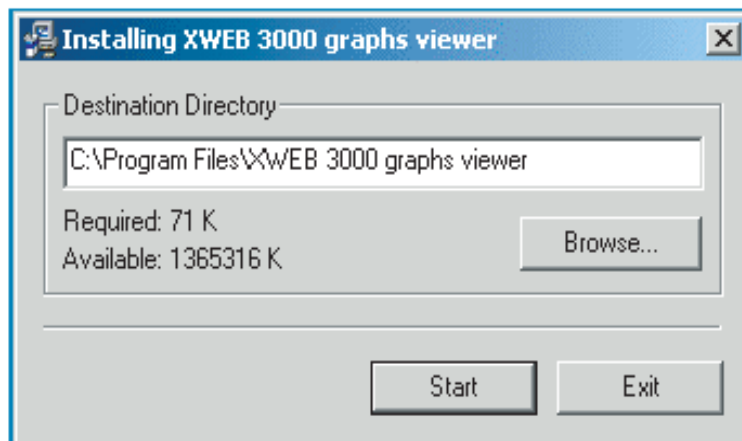
VIEWING GRAPHS FROM PC

You can view graphs even if you are not connected to an AERWEB30 system. Before doing this you need to save a graph on your PC.

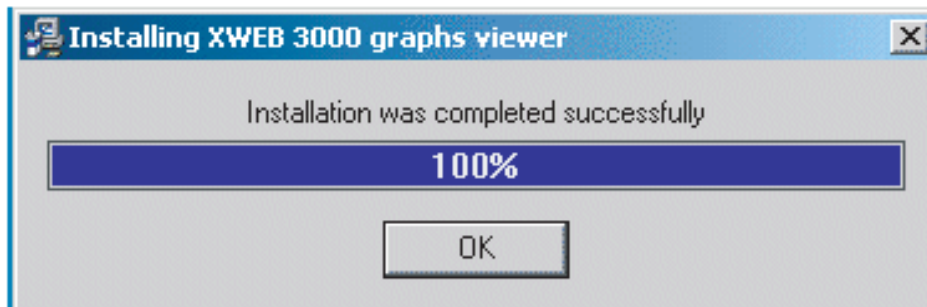
If you are trying to display a graph on a local PC for the first time, you need to install a software included in the CD-ROM supplied with the device.

Insert the CD-ROM and press “Graph viewer” in the “Programmi accessori (Accessory programs)” section.

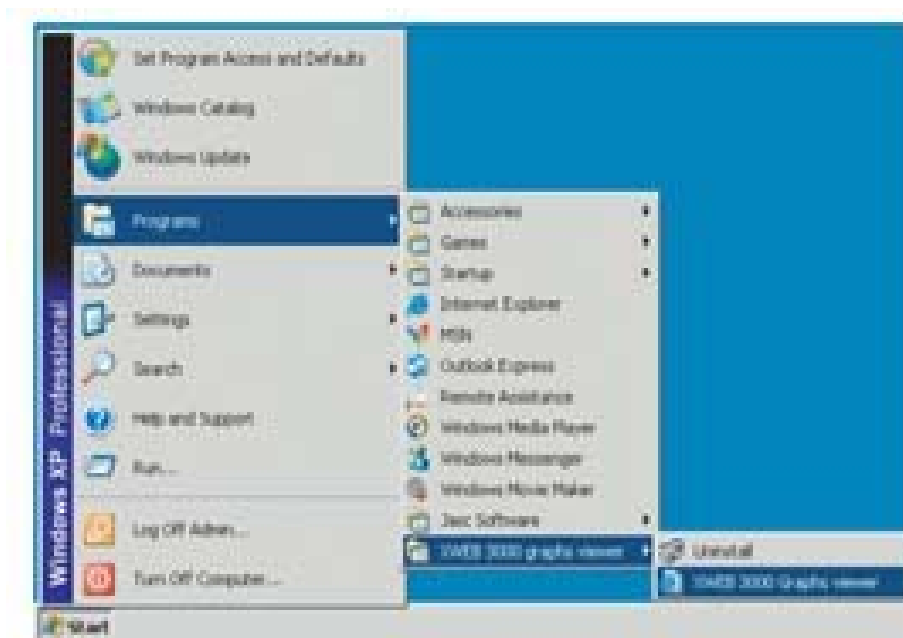
Confirm the software installation path pressing “Start”.



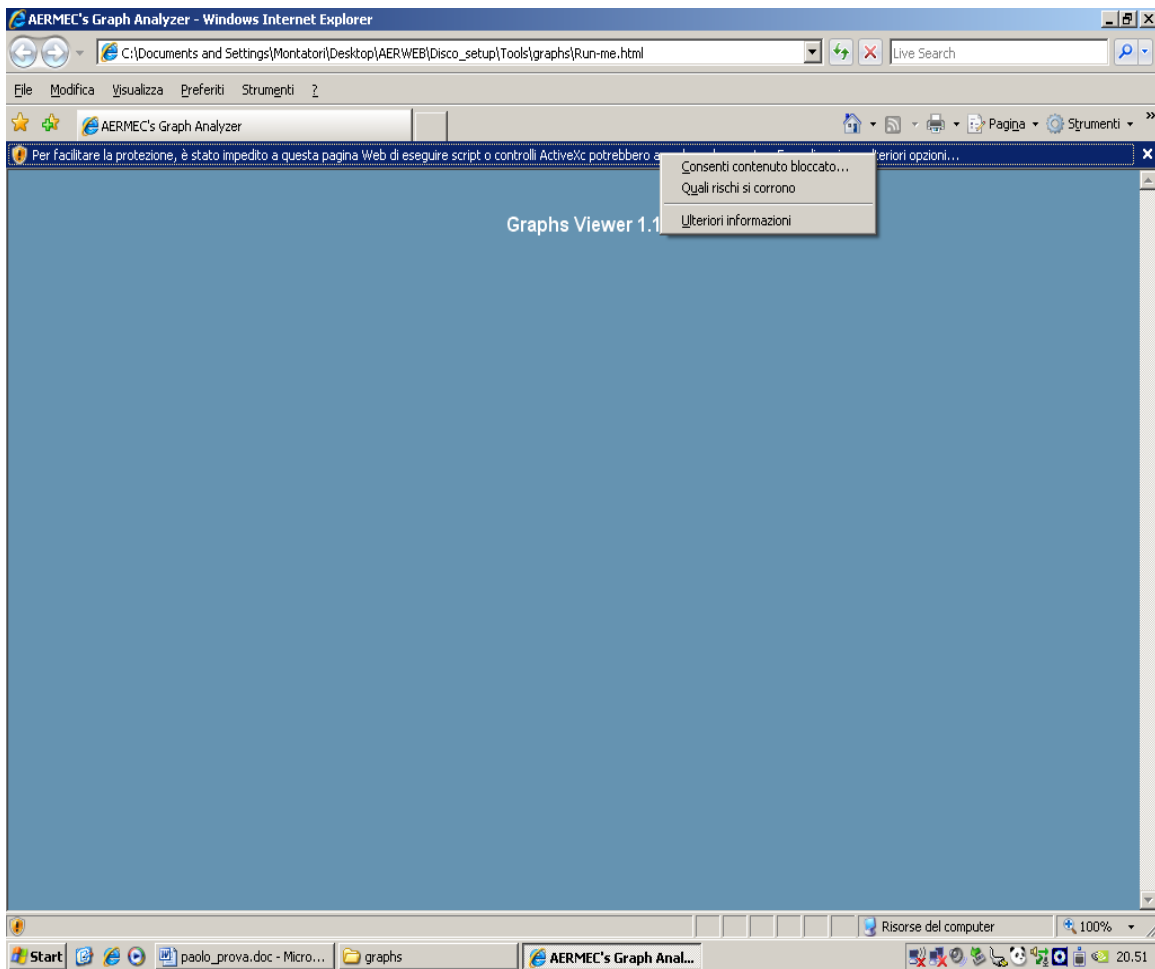
At the end of the procedure, the following window will be displayed:



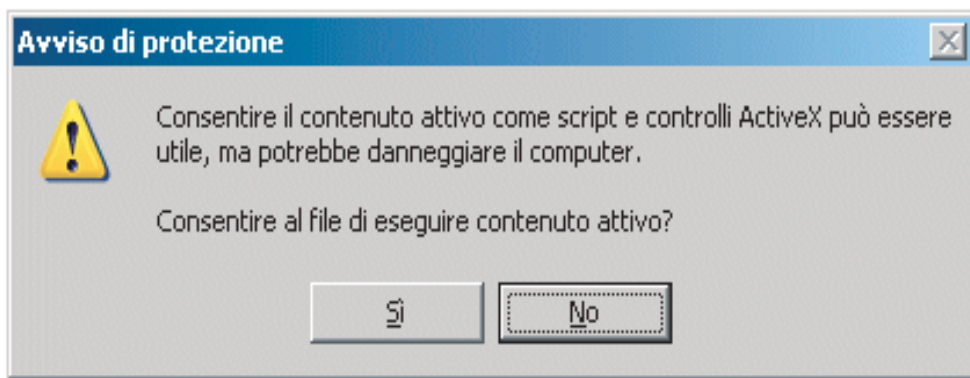
Now you will be able to run the program from the PC "Start" menu, through "AERWEB30 graphs viewer":



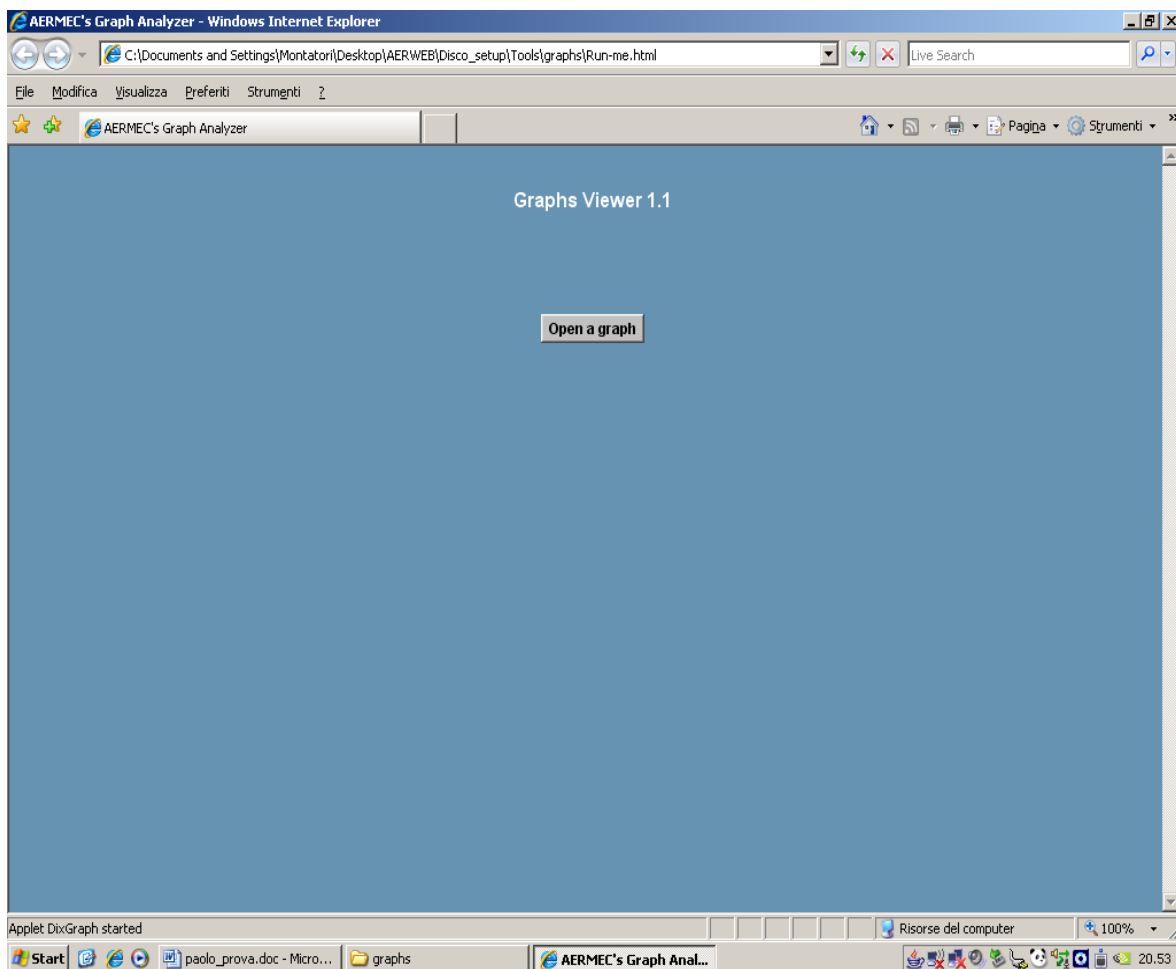
Based on the PC security settings (the following example refers to Windows XP Service Pack 2), you might need to authorize the software running operation.



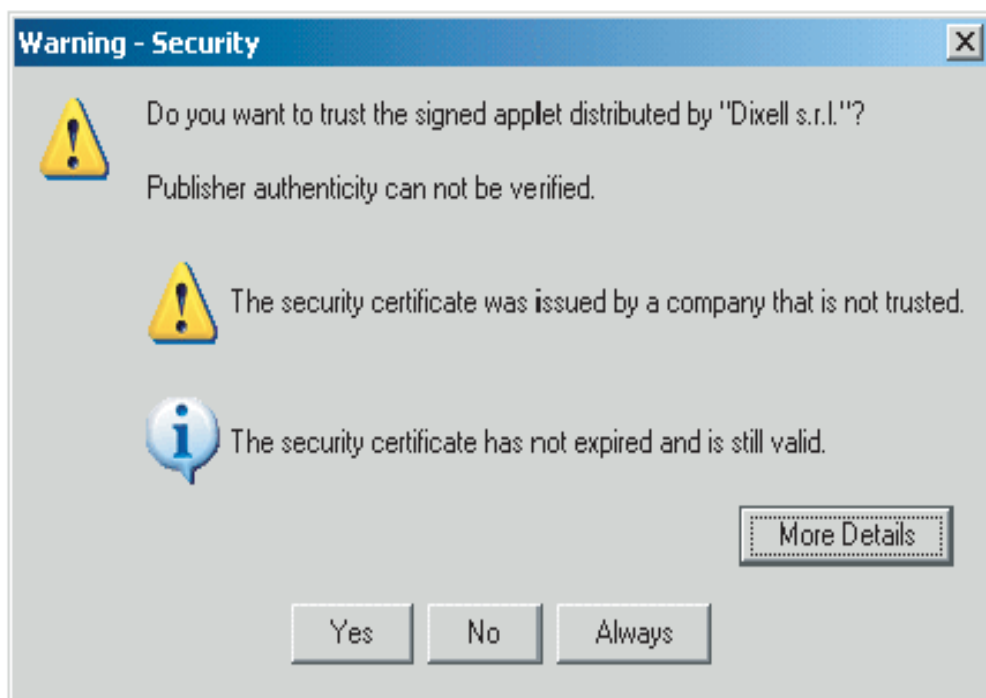
Right click the header bar and authorize the software running operation. Answer “Sì” (Yes) to the following question.



At the end, the following window is displayed:



Press “Open a graph”, confirm that Java Virtual Machine is running and search the graph previously saved on your PC.



Use the Windows standard window to load the above mentioned file:

