



## INSTALLATION GUIDE



WARNING:



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

WARNING:



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

WARNING:



This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

## INDEX

1	CHECK LIST .....	6
2	TO DO LIST.....	7
3	RS 485 CONNECTION.....	8
3.1	The TTL output.....	11
3.2	Serial address of the instruments .....	11
4	HOW TO CONNECT XWEB 500.....	12
4.1	MODEM CONNECTION (“or point to point connection”) ..	12
5	Intranet / ethernet connection.....	27



# 1 CHECK LIST

The XWEB 500 server unit.

One power cord for power supply connection.

One USB cable for PC connection.

Quick reference manual (Fast installation).

One CD Rom containing the Operating manual and software



## 2 TO DO LIST

Check if the power supply line matches the XWEB 500 specification (90~264 VAC 50~60Hz.).

Connect the serial line RS 485 with the adapter provided.

Plug-in RJ 45 network cable (not provided).

### 3 RS 485 CONNECTION

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

Follow these important instructions :

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

Make sure of the wire polarities when screwing them into the instrument terminals.

The cable must have 2 or 3 wires with shield, minimum section 0,5mm<sup>2</sup> (eg. the BELDEN 8772).

From the XWEB 500 position the cable reaches all the instrument positions.

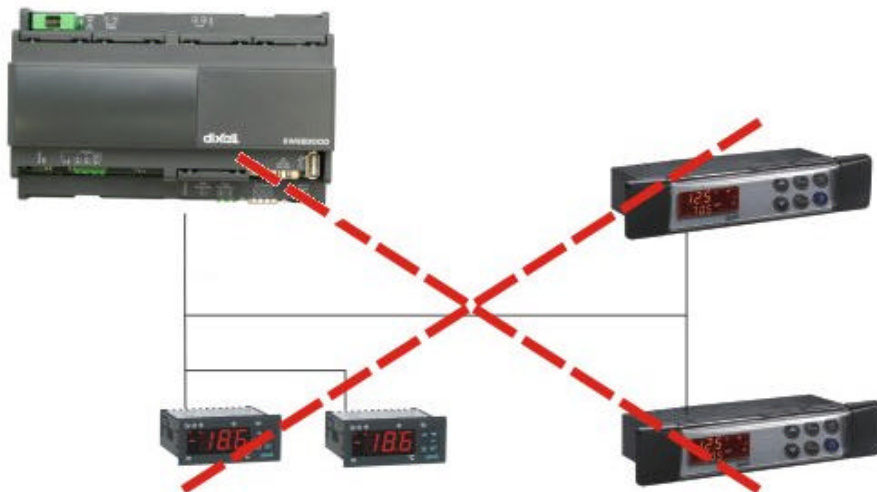
Do not execute loops or derivations:



Right connection:



Wrong connection:



Always keep the serial cable away from power cables.  
Always keep the serial cable away from Electro-magnetic or frequency sources.

Do not connect shield to ground.

Do not connect the “**Gnd (ground)**” terminal.

Remember to draw a map of the line. This will help you to find errors if something is wrong.

The instrument with RS485 have “+” and “-“ terminals, respect the polarity.

To keep the line balanced it is necessary a 100 Ohm resistor at the end of the line (you can use the RS 485+ and RS 485- terminals of the last instrument connected).

### 3.1 The TTL output

The instrument with RS485 on board does not need any kind of external interface module. For instruments with an external interface: keep the TTL cable away from power cables or frequency sources.

The XJ485 external interface must be connected with a TTL cable to the instrument with TTL compatibility.

### 3.2 Serial address of the instruments

Each instrument must be defined by its unique address.

Check the address into the **Adr** parameter value of each instruments. Take reference to the instruction manual of the instrument itself to find the right procedure to enter the programming and set the value.

The easiest way to work with the category functions is to set the addresses progressively for similar groups of instruments which have the same application.

## **4 HOW TO CONNECT XWEB 500**

It is possible to connect to XWEB 500 whether via USB cable or via Ethernet cable.

### **4.1 MODEM CONNECTION (“or point to point connection”)**

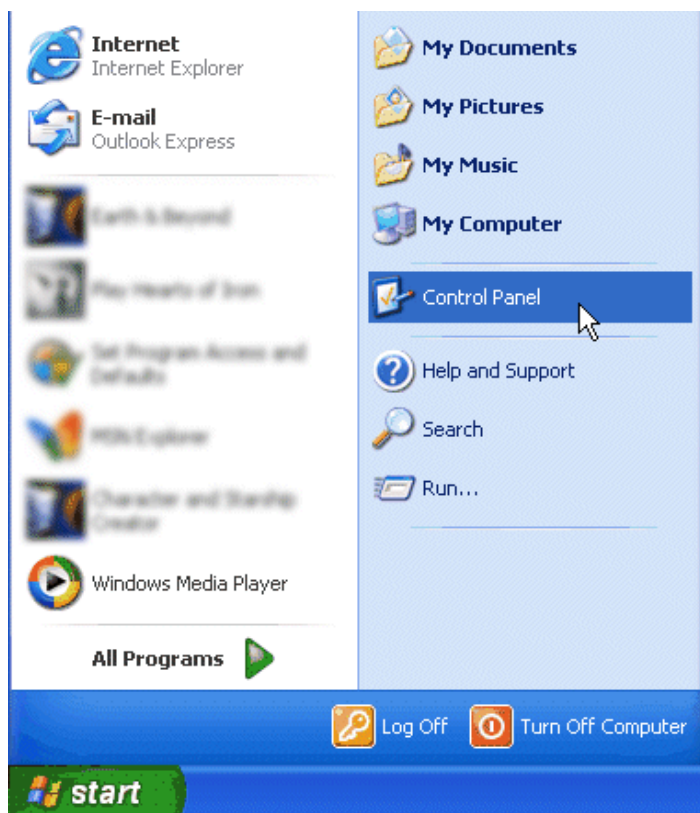
It represents the most common method where the LAN (intranet / Ethernet / internet) is not available.

It is strongly advised to use a dedicated telephone line.

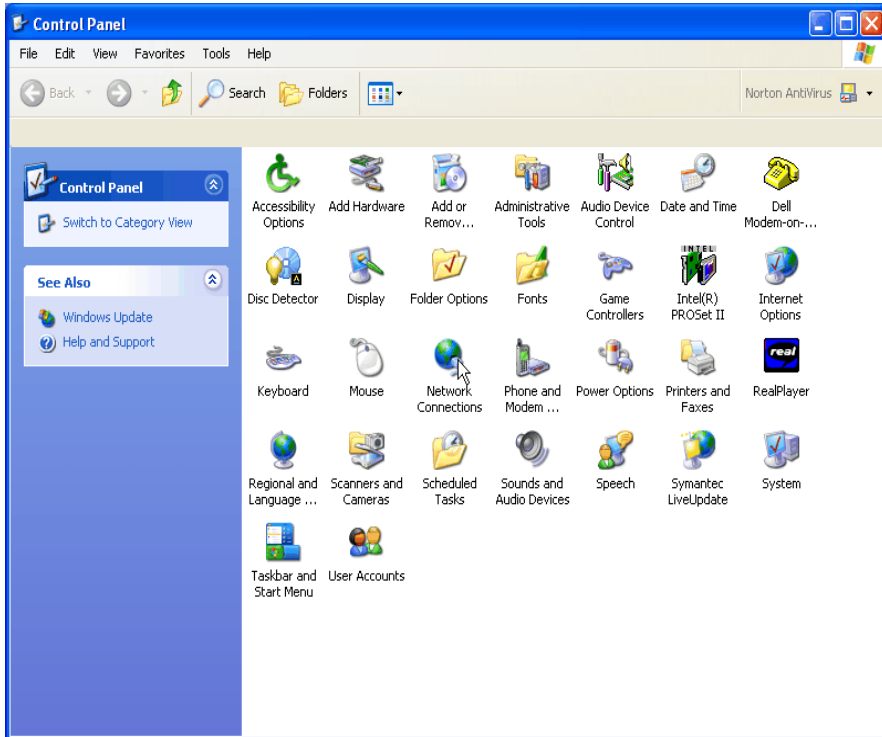
**IMPORTANT:** Use exclusively modem devices approved by Dixell. Remember that many modems are not compatible with Linux. The list of compatible models can be found under the menu: Configuration – System - Modem.

In Windows XP, you will use the "New Connection Wizard".

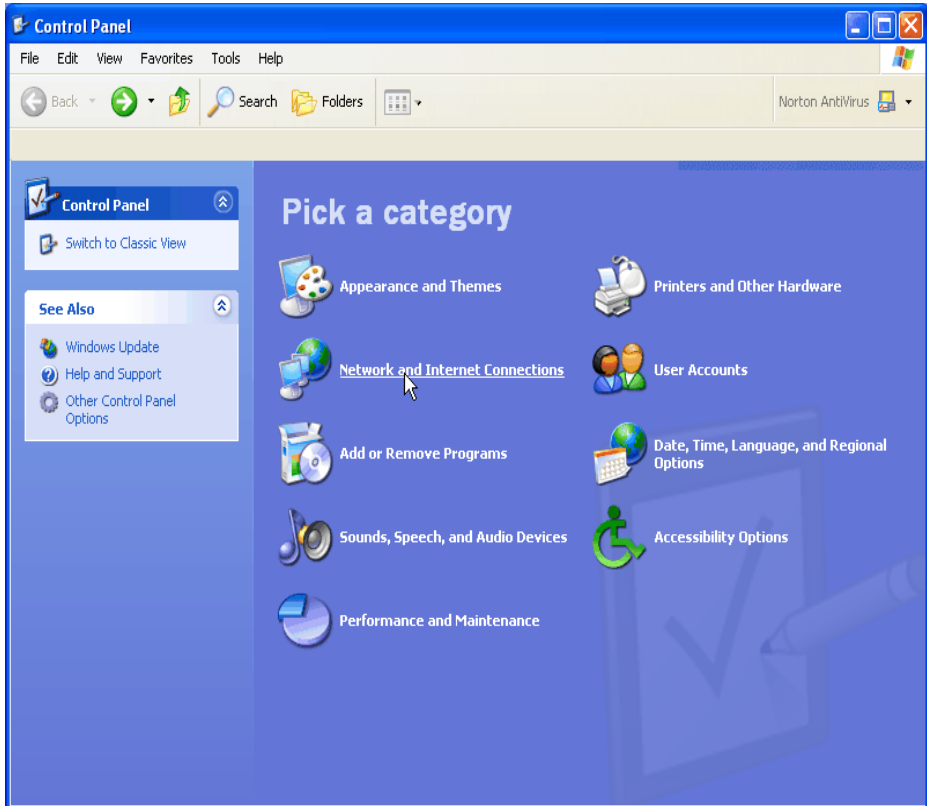
1. From the Start menu, select Control Panel.

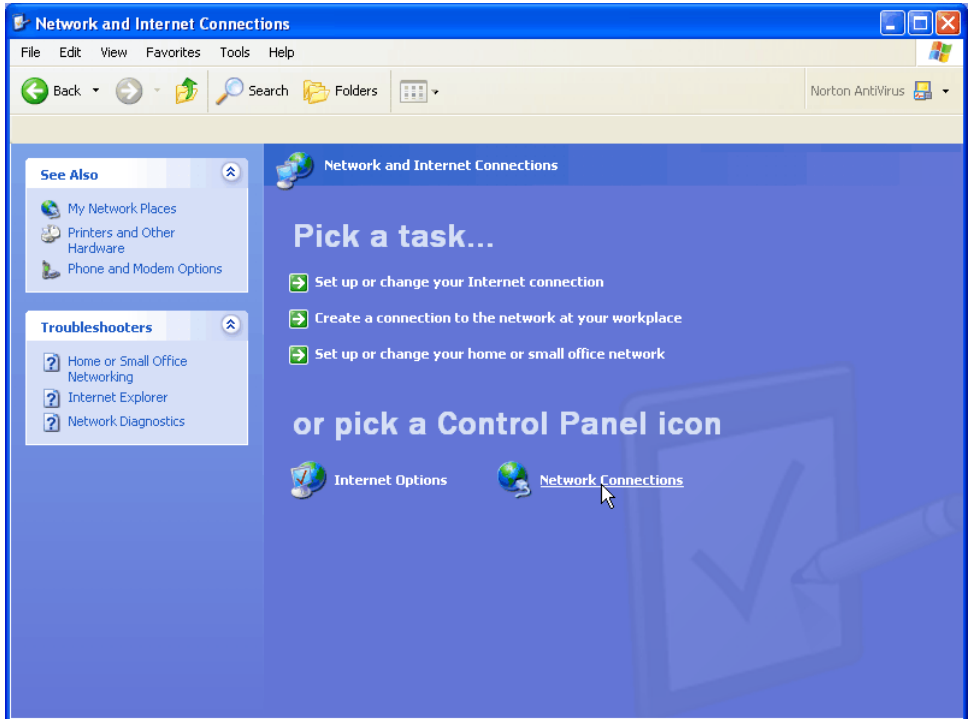


2. If Control Panel is set for "Classic View", double-click on the Network Connections icon.



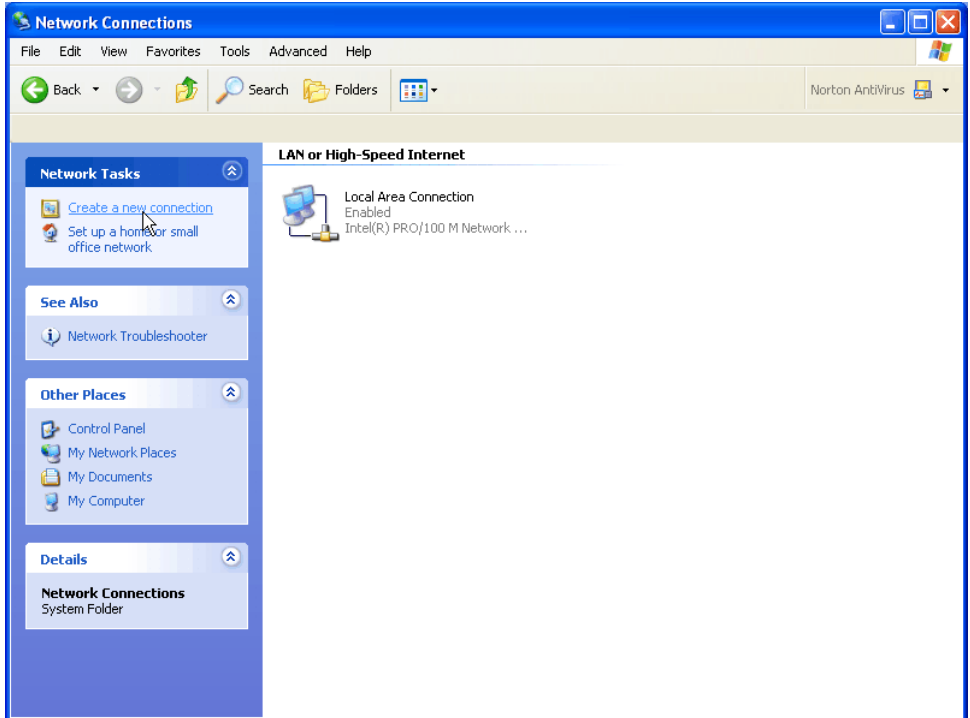
3. If Control Panel is set for "Category View", select the "Network and Internet Connections" category, then double-click on the Network Connections icon.





4. Under Network Tasks, select "Create a new connection".



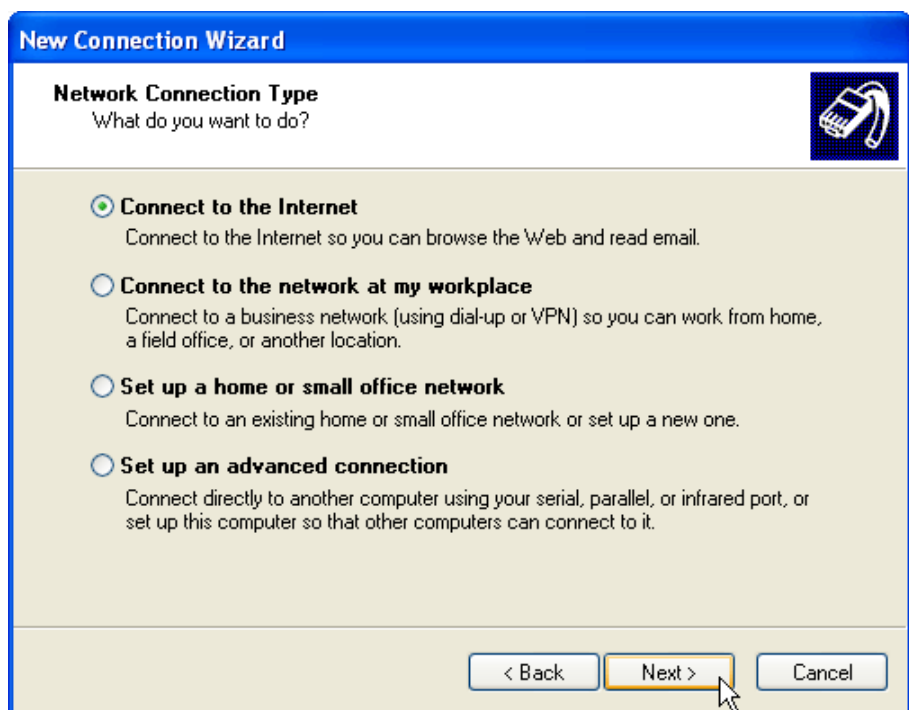


5. Click "Next".

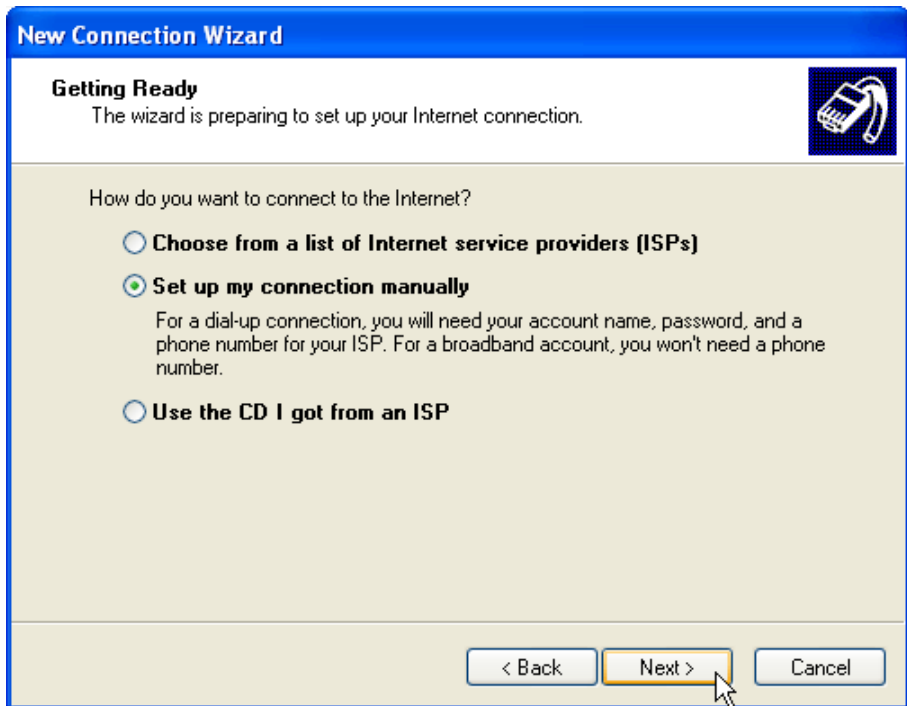


6. Click "Next" at the bottom of this page to continue with the setup instructions.

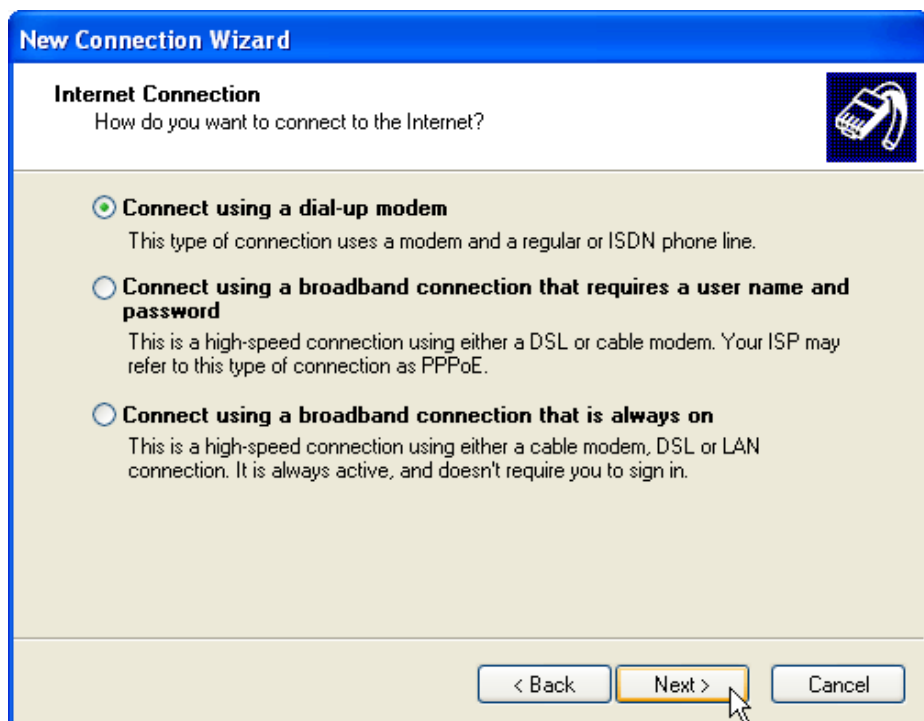
7. Select "Connect to the Internet" and click "Next".



8. Select "Set up my connection manually" and click "Next".




9. Select "Connect using a dialup modem" and click "Next".



10. Type "XWEB 500 DIRECT MODEM" in the ISP Name box and click "Next".

**New Connection Wizard**

**Connection Name**  
What is the name of the service that provides your Internet connection?



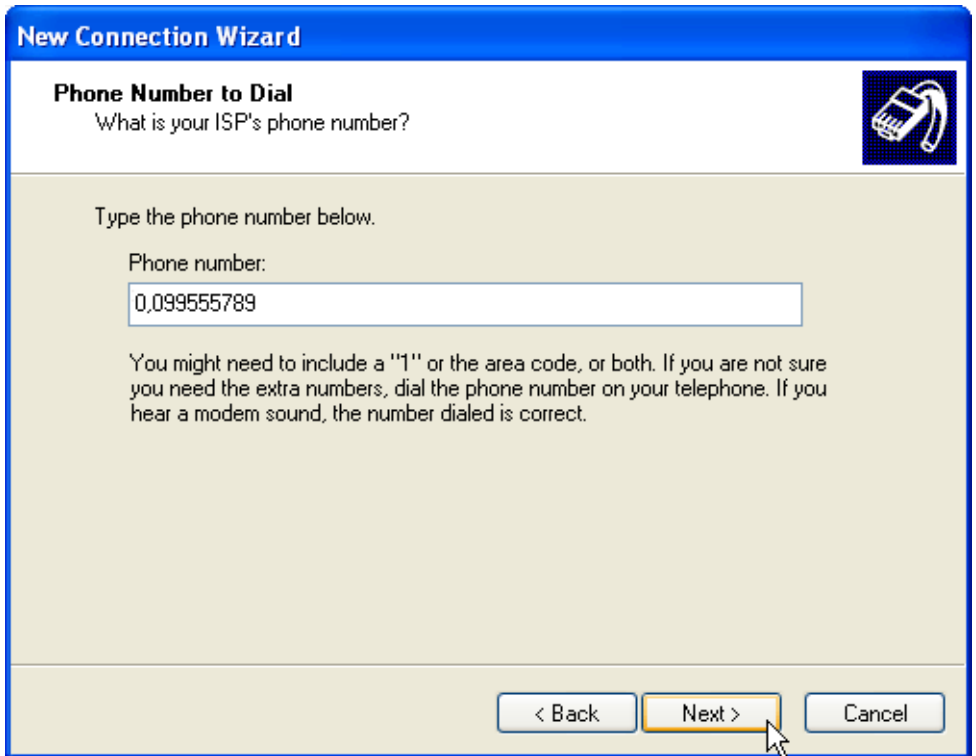
Type the name of your ISP in the following box.

ISP Name

The name you type here will be the name of the connection you are creating.

< Back   Next >   Cancel

11. Type the access number in the Phone Number box. E.G: If telephone number is 555789 and area code is 099, put this Telephone number: 099555789.  
If there is a switching machine and you have to dial a digit to get the line ( 0 or 9 for example, it depends on the switching machine), put this telephone number: 0, 099555789 or 9, 099555789. Click "Next".



**New Connection Wizard**

**Phone Number to Dial**  
What is your ISP's phone number?

Type the phone number below.

Phone number:

You might need to include a "1" or the area code, or both. If you are not sure you need the extra numbers, dial the phone number on your telephone. If you hear a modem sound, the number dialed is correct.

< Back   Next >   Cancel

12. Type dialup account name `dixell` in the User Name box. Type dialup password `dixell` in the Password and Confirm Password boxes. We recommend that you check the first 2 checkboxes, but not the 3rd box which turns on the Internet Connection Firewall. Click "Next".

**New Connection Wizard**

**Internet Account Information** 

You will need an account name and password to sign in to your Internet account.

Type an ISP account name and password, then write down this information and store it in a safe place. (If you have forgotten an existing account name or password, contact your ISP.)

User name:

Password:

Confirm password:

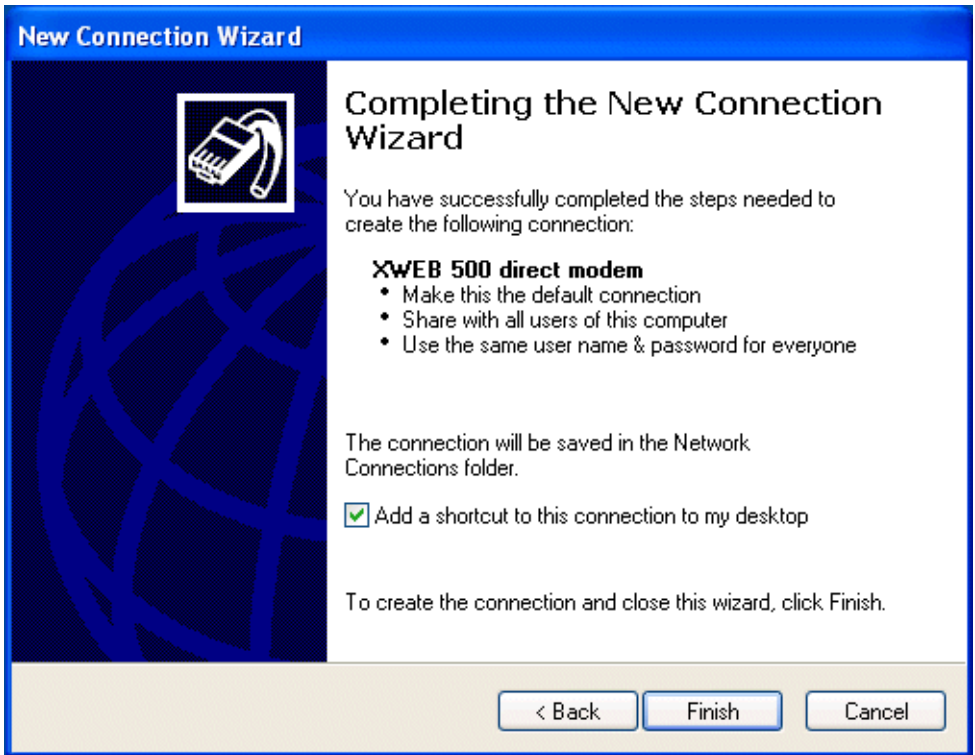
Use this account name and password when anyone connects to the Internet from this computer

Make this the default Internet connection

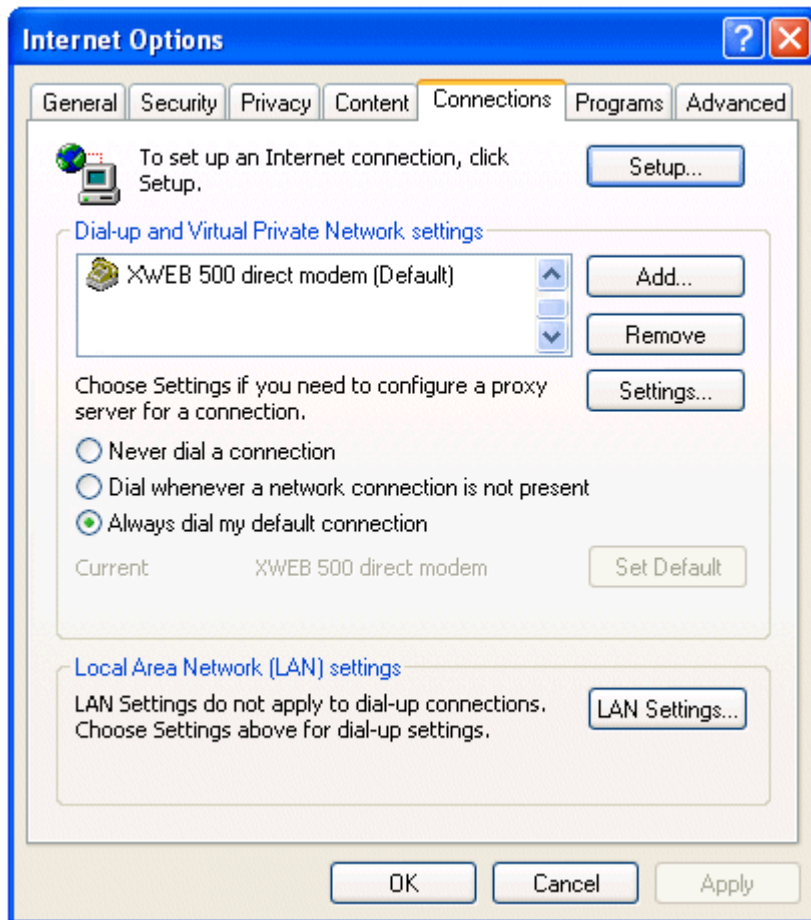
Turn on Internet Connection Firewall for this connection

13. Place a tick in the box to create a shortcut on your desktop, and click "Finish".





14. You are now ready to connect to your XWEB 500. If you want to dial your XWEB 500 DIRECT MODEM connection automatically when you start Internet Explorer, do the following. Start Internet Explorer, and select "Internet Options" from the "Tools" menu. Select the "Connections" tab. Make sure that XWEB 500 DIRECT MODEM is your default connection (if not, highlight it and click "Make Default"). Make sure that the "Always dial my default connection" option is selected.



## 5 Intranet / ethernet connection

The Intranet or Ethernet connection should be initially managed by the net administrator which will assign one free IP address to reach the Server. This number is an example of what you should expect:  
<http://192.168.000.111>.

After receiving the address from your network Administrator the XWEB 500 must be set with this number.

The Intranet method allows the connection to interact with XWEB 500 from all the PC Clients. Insert the net address assigned by the administrator into the Browser address bar. Bookmark the address with personalised name for the future connections.

### Internet connection

It is necessary to have a STATIC IP address for the XWEB 500 which is normally assigned by the Provider of your internet services (ISP).

The Internet connection allows XWEB 500 to be reached from all PC-clients. Insert the net address assigned by the administrator into the Browser address bar. Bookmark the address with personalised name for the future connections.

Ask your provider for more details about the rent of a the static IP.  
This the internet system requirements for the best result:

### Wide band connection

At least 1 static IP address for the XWEB 500.

The internet connection is established through a device called Router that receives and sends the data as interface between an Intranet and Internet. The Provider also assigns the address of the router that is called IP WAN.

Remember that the default value of the IP of the XWEB 500 is:  
192.168.0.200.

Depending on the contract the Provider can also supply the router,

otherwise the user can buy it separately.

ALWAYS: ask qualified personnel for the router installation by using this information.

Used ports that are mapped to the LAN side:

80 (used for the HTTP access)

22 (used for SSH connection)

443 (used for SSL protected connection)

10000 (used for the internal modules of the system)

The above ports are all related to the XWEB 500 IP address 192.168.0.150.

While the ports on the WAN side are:

Telnet (to configure the router from a remote, also via Internet).

HTTP (To access the XWEB 500).

If working with the router GATEWAY and DNS check your Internet contract details. Depending on your network topology you may need a reverse NAT on port 80. It is not enough to link port 80 on the router side to port 80 on intranet side. Some firewall or Router need also the reverse NAT.



## Troubleshooting Guide

Problem	Solution
The log-in page doesn't load	Check your browser setup.
My password doesn't allow me to log-in.	Beware to the caps-lock button an capitol letters. Is it your password correct?
My browser can't reach XWEB 500 log-in page	<p>Check cable typology</p> <p>From windows go to Start-&gt;Run...</p> <p><b>ping 192.168.0.150 -t</b></p> <p>A continuous set of information should be appear.</p>
Someone in the intranet/LAN receive a warning message about an IP conflict.	XWEB 500 uses the same address of a resource already used in your intranet/LAN. Change XWEB 500 IP address.

## Unit Setup Reminder

Please take some moments to make an hardcopy of this page, then compile it and store it near XWEB 500 unit.

HostName \_\_\_\_\_

IP Address \_\_\_\_\_

Gateway \_\_\_\_\_

DNS 1 \_\_\_\_\_

DNS 2 \_\_\_\_\_

SMTP \_\_\_\_\_

E-mail address \_\_\_\_\_

Modem type \_\_\_\_\_

Telephone number \_\_\_\_\_





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