
















XWEB300D/500D PRO

(V.1.0)

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CAUTION: TO PREVENT FLAMES FROM DEVELOPING OR ELECTRIC SHOCK, AVOID ANY CONTACT BETWEEN THIS DEVICE AND RAIN OR WATER		
	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
		CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER IT DOES NOT CONTAIN ANY PARTS THAT REQUIRE SERVICING BY THE USER ALWAYS HAVE QUALIFIED STAFF PERFORM THE PROCEDURES.
		THE SYMBOL OF THE LIGHTNING BOLT INSIDE AN EQUILATERAL TRIANGLE IS USED TO ALERT THE USER OF THE POTENTIALLY DANGEROUS NON-INSULATED ELECTRICAL VOLTAGES
		THE SYMBOL OF THE EXCLAMATION MARK INSIDE AN EQUILATERAL TRIANGLE IS USED TO WARN THE USER THAT HE/SHE MUST PAY CLOSE ATTENTION TO THE TOPIC COVERED IN THIS MANUAL
CAUTION 	This device must be installed exclusively by service staff with suitable technical training and experience, who are aware of the dangers that they are exposed to. The operations described herein are set forth exclusively for the service staff. The user is not enabled to open the device.	
CAUTION 	Use only modems and usb-dongles officially supported by this monitoring unit. Dixell srl. cannot be held responsible for any type of damage resulting from the use of unsupported devices.	
CAUTION 	Dixell srl reserves the right to amend this manual without prior notice. The latest available version can be downloaded from the internet site.	
CAUTION 	Immediately after the power failure, no new data is recorded; all recorded data is kept in non-volatile memory. The memory is electronic and no data is kept or conveyed to other media such as paper. When the memory is exhausted, the oldest data is lost to store the most recent data. The product provides memory consumption indications on the user interface. The device does not have its own power supply. The recording interval can be configured from a minimum of 30 seconds to a maximum of 1 day. The duration of the recordings depends on the interval and the number of points configured for each device in configuration. One year of data logging is guaranteed for 2 analog resources with an interval of 15 minutes, per configured device. Selecting other resources can affect storage performance.	
CAUTION 	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	
CAUTION 	Dixell srl reserves the right to vary the composition of its products without prior notice to the customer, ensuring the identical and unchanged features of the same	

<p>CAUTION</p> 	<p>The product is not suitable for environments subject to mechanical vibrations and does not withstand shocks. It must be installed in a dry and clean environment.</p>
<p>CAUTION</p> 	<p>The customer shall bear full responsibility and risk for product configuration in order to achieve the results pertaining to installation and/or final equipment/system. Upon the customer's request and following a specific agreement, Dixell s.r.l. may be present during the start-up of the final machine/application, as a consultant, however, under no circumstances can the company be held responsible for the correct operation of the final equipment/system.</p>
<p>CAUTION</p> 	<p>Since Dixell products form part of a very high level of technology, a qualification/configuration/programming/commissioning stage is required to use them as best as possible. Otherwise, these products may malfunction and Dixell cannot be held responsible. The product must not be used in any way that differs from that stipulated in the documentation</p>

1. PRODUCT DISPOSAL (WEEE)

With reference to the DIRECTIVE 2012/19 / UE OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on Waste Electrical and Electronic Equipment (WEEE), and to the relevant national implementation regulations, we inform you that users of EEE in households:

- there is an obligation not to dispose of WEEE as mixed urban waste and to separate waste collection of WEEE;
- Public or private collection systems required by local laws must be used for disposal. It is also possible, at the end of its life, to return the equipment to the distributor in case of purchase of a new one.
- This equipment may contain hazardous substances; improper use or incorrect disposal could have negative effects on human health and the environment.



- The symbol shown on the product or on the packaging indicates that the product must be treated with separate waste.
- In case of incorrect disposal, sanctions can be applied as established by the local laws on waste disposal.

2. THE RECIPIENTS OF THIS MANUAL

The contents of this manual are intended for professional users, such as XWEB installers. It may also be of use to the administrator of the network that it is connected to.

The mechanical product drawings required for any form of intervention and the possible network configurations are all an integral part of this manual.

3. PACKAGE

Before opening the package make sure that the packaging is intact and that there is no sign of impact or tampering. Before starting any operation, it is necessary to check that the XWEB box contains:

- 1 XWEB Unit
- 1 Installation Manual
- 1 cross cable 1mt
- Removable female connector
-

XWEB300

- 2x2 ways (1 green and 1 black)
- 2x3 ways

XWEB500

- 2x2 ways (2 green 1 black)
- 1x3 ways
- 1x7 ways

- 1 Jumper 2 vie



If one of the following parts is damaged, promptly contact your dealer.

You may also receive a modem or a wifi dongle- which will not be included in the same package - as a package option. When working with a modem connection, always check that the type of modem you are about to install is a Dixell approved model; as it cannot be held responsible for the malfunctioning of devices not expressly approved by it.

4. TECHNICAL DATA

Dimensions	175 x 110 x 41 mm
Mounting	DIN rail mounting device
Degree of Protection	Indoor use, Open Type (NEMA - UL 50e) IP20 (EN60529)
Power supply	100-240VAC $\pm 10\%$
Power supply frequency	50/60 Hz
Overvoltage Category	II
Rated power	15VA Max
Rated Impulse Voltage	2500V
Rating of the protective branch fuse	15A
Type of Action	1.B
Pollution Degree	2
Ambient Operating Temperature	-20T60°C
Shipping and storage temperature	-40T85°C
Field wiring terminal identification, wire size and torque value	The serial line cable can be of the two-wire type plus the shield, with a minimum section of 0.5mm ² (eg BELDEN 8772).
Internal battery and RTC accuracy	Rechargeable and non-removable lithium battery. 50ppm for temperature variation up to 60 ° C, 5ppm for aging. The maximum drift of the clock in a year is therefore 33 min per year
Digital Inputs	Optoisolated with common at + 12Vdc (isolated), connectable via 2-way terminal block. Present only for XWEB500D
Digital Outputs	AUX1-2-3 clean contacts for 24/120 / 240Vac max 5A resistive loads. AUX1 port ("Systema Alarm") in exchange; connectable via 3-way terminal block; always present. AUX2 ('Alarm 1') and AUX3 ('Alarm 2') ports that can be connected via a 2-way terminal block; present only for XWEB500D. "Pwr Ext Modem" clean contacts 12Vdc max 250mA connectable via 2-way terminal block; always present
RS485 Ports	RS485 port 1: optically isolated (always present) RS485 port 2: optically isolated (only for XWEB500D)
USB Ports	1 standard HOST connector type A port Maximum deliverable current 500 mA
Purpose of control	Operating control
Construction of control	Independently mounted control
Approvals	CE, UL. The system consisting of this control and monitoring unit and Dixell temperature meters compliant with the EN13485 standard complies with the EC regulation no. 37/2005 and in particular with the EN12830 standard. Temperature recorders for the transport and storage and distribution of chilled, frozen, deep-frozen and ice-cream products (UNI EN 12830, S, A, 1, measurement range corresponding to the class of connected devices)

CAUTION



The terminal board for connecting the relays can be used to directly drive high voltage loads (higher than 24V) but the voltages between the different terminals cannot be mixed.

5. INSTALLATION

5.1 XWEB

For installation, the XWEB system must not be open in any way. If the box is opened, the guarantee becomes void. Installation can take place in different ways depending on the model and the type of access to the user interface that you want to provide to the end user. The particularities of these types of connectivity are described in this manual.

ATTENTION: in order to protect both yourself and the XWEB, the unit must be switched on only when all the electrical devices have already been connected. In order to avoid accidental switching on, insert the power cable only after connecting all the other external units.

TERMINAL BLOCK

26		Alarm Relay 1 (**)	1		Power XWEB
27			2		
28		Alarm Relay 2 (**)	33		External GSM modem power supply (*)
29			34		
30		System Alarm Relay			USB port
31		* 30-31 No Alarm			
32		* 30-32 Alarm			
6		Ingresso digitale (**)			COM port
7					
14		RS485 A port			RJ45 port
15					
16					
17		RS485B port (**)			
18					
19					

LED

Led	Colour	Description
Alarm	Red	RS485 alarm
Rec	Blue	Data recording
Power	Green	System turned on
Status	Green	Messages are being sent
System	Red	System alarm
Alarm2	Red	Alarm relay 2 status (**)
Alarm1	Red	Alarm relay 1 status (**)

(*)= 12Vdc - 250mA. Compatible modem TC35-KIT (MC55i by Siemens, CINTERION L30960N2700A100),

Gatetel GT-HE910-EUD, Gatetel GT-HE910-NAD

(**)= For XWEB 500DIN only

ATTENTION: the status of the System LED is linked to that of the corresponding "System alarm" relay

ATTENTION: for XWEB300D the 'relay system' as AUX assumes the following logic:

- at rest (XWEB off) contacts 30 and 32 are closed
- in the event of an alarm, it closes at 30-31
- when switched on, it closes for a few seconds at 30-31. then if there are no alarms it returns to rest and closes at 30-32.

ATTENTION: always use the power supply of the external modem from the XWEB itself to ensure the correct sending of messages (for example SMS). In other words, use the cable supplied in the modem KIT on terminals 33-34.

ATTENTION: the 'reset modem' relay is energized for reset, in conditions of non-use every two minutes; and before each activation of the service. It is necessary to insert this relay in the power supply circuit of the external modem to ensure the correct sending of messages (SMS).

ATTENTION: During the initial start-up phase, the STATUS, REC and ALARM LEDs FLASH at regular intervals. This flashing IS NORMAL and highlights the regular progress of the ignition phase which can last up to 5 minutes.



- *Avoid direct passage between operators as much as possible (to avoid electrostatic induction and subsequent discharges);*
- *If the electrical voltage supply differs from the required rating, this could seriously damage the system;*
- *Connection errors (and connections that differ from the prescribed ones) can pose a danger to operator safety and cause faults in the system and to the instruments that are connected to it;*
- *Insert one or more easily accessible disconnecting devices to the exterior of the device to separate the device from the power mains;*
- *Do not use the device in environments with flammable gases.*
- *Do not modify the device in any way.*

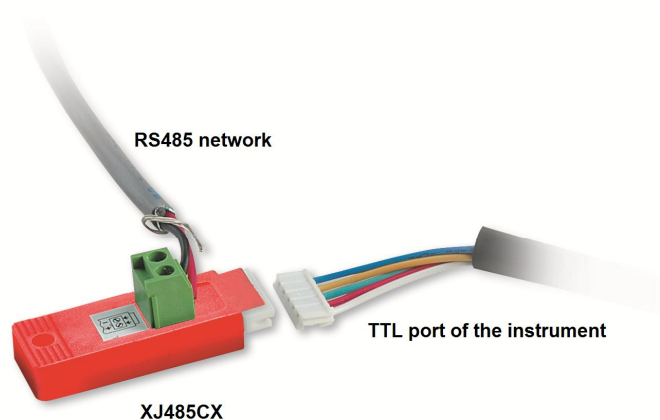
5.2 CONTROLLERS

XWEB has at least one RS485 serial port, on which the line of the controller devices can be connected. If there are more serials, more device lines can be served.

Most Dixell controller devices are equipped with an RS485 serial output and can be connected without the need for any additional module or connection cable. To make sure of this possibility, check the characteristics of the controller in its manual.

Some Dixell devices however, may not be direct, but it can be obtained via the small external Dixell XJRS485 or Dixell XJ485 converter. It converts the controller output from "TTL" (five wires) to "485" (two wires). If you need to use the TTL / 485 converter, please pay attention in:

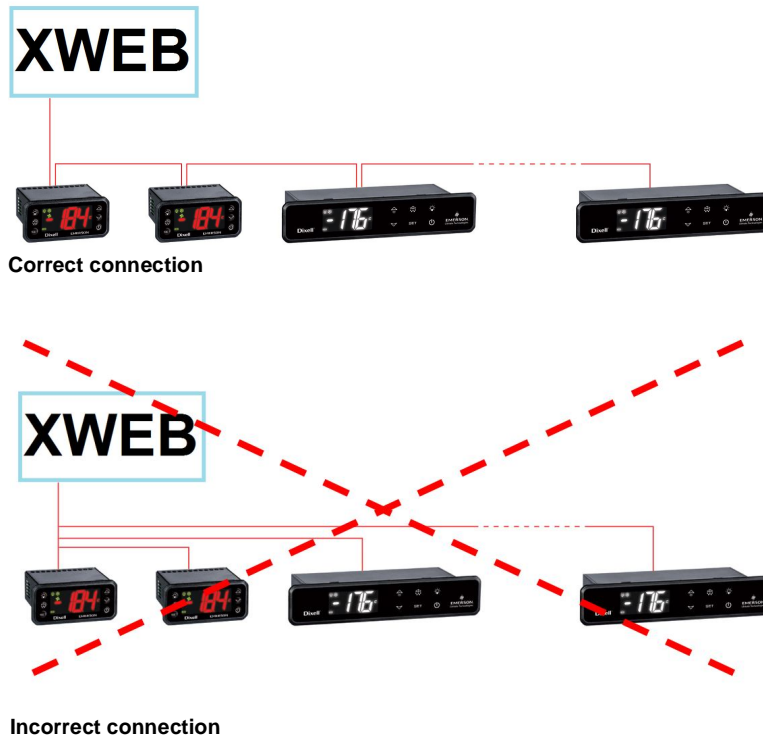
- Keep the TTL cable away from any source of electromagnetic disturbance
- Connect each XJ485 module to the instrument with the TTL cable supplied with the module itself
- Mark the polarity of output 485 which must be respected when connecting the instruments to the network



Below is a list of operating tips to obtain the best result in terms of instrument network reliability, RS485 serial connection:

- The serial line cable can be of the two-wire type plus the shield, with a minimum section of 0.5mm² (eg BELDEN 8772). This cable is recommended for its technical characteristics and for maintaining the quality of the electrical signal;
- The serial line cable must reach all the instrument stations: check the plant layout and the various distances that the cable will have to travel;
- The serial line cable can reach a maximum length of 1 km
- Respect the polarities indicated on the instrument with those of the cables leading to the serial
- Keep the serial cable away from power cables and any possible source of electromagnetic disturbance
- Do not connect the shield of the serial cable to the earth of the electrical system
- Do not connect the "Gnd" terminal.
- Draw a map of the installation you are performing: it will be useful both in case of problems and in case of future changes; the serial line must reach all the stations where the instruments must be controlled.

- Do not branch into the line:



On the same line, each controller is normally programmed with its own unique serial address, through the Adr parameter. Refer to the installation manual of the instrument itself for the access and modification procedure. To obtain a simple description of the categories to which they belong, divide the programming of the addresses progressively. Some special cases are listed on the following pages.

To keep the RS485 line balanced, the ends must be terminated with a 1500Ω resistor. If the XWEB is at one end of the RS485 line, it is advisable to insert the 120Ω termination resistor on the last instrument and on the XWEB. To activate the EOL resistor, insert enable TERM. DO NOT enable it if the XWEB is in the middle of the RS485 line.

5.3 CONFIGURATION FOR XC400/600/800/900 AND XH200/300/400 SERIES

These instruments have two serial addresses and must be configured in the same way. Refer to the instrument's installation manual to learn about the access and editing procedures.

5.4 CONFIGURATION FOR XJA/XJP/XJM MODELS

These instruments are configurable with one or more modbus addresses. Refer to their installation manual for the configuration procedures.

6. REMOTE CONNECTIVITY



The user can access the web user interface from a PC or equivalent device properly connected and configured. The use of a PC or in any case a high resolution graphic terminal is recommended in the first configuration phase.

The terminal used must comply with and support the minimum characteristics for the installation and use of the following software.

6.1 DESKTOP SOFTWARE REQUIREMENTS (PC)

Browser	Support	Minimum Version
Microsoft Edge	SUPPORTED	16+
Mozilla Firefox	SUPPORTED	54+
Google Chrome	SUPPORTED	58+
Apple Safari	SUPPORTED	10.1+
Opera	SUPPORTED	44+
Microsoft Internet Explorer	NOT SUPPORTED	

6.2 SOFTWARE MOBILE REQUIREMENTS (SMARTPHONE/TABLET)

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

All newer computers are capable of meeting these requirements. However, it is advisable to use the advice of a computer expert to evaluate the computers to be purchased and / or already in your possession.

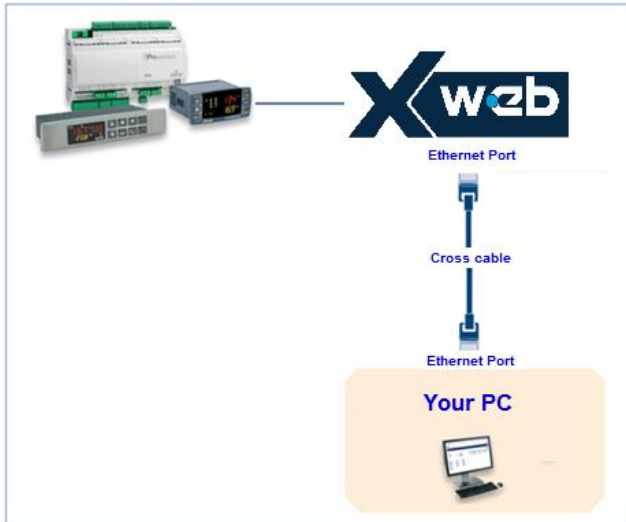
In the following sections, general information on possible network configurations will be provided. Right from the start, we recommend that you make use of IT experts and / or your network administrator to evaluate the configurations best suited to your needs.

Softwares such as antivirus, firewall, toolbars can prevent the correct display of the XWEB pages. We recommend checking the configuration of these softwares and adding the XWEB IP address to their list of safe sites. **For firewalls, make sure that ports 80 and 22 are mapped to the XWEB so that it can be reached from the outside.**

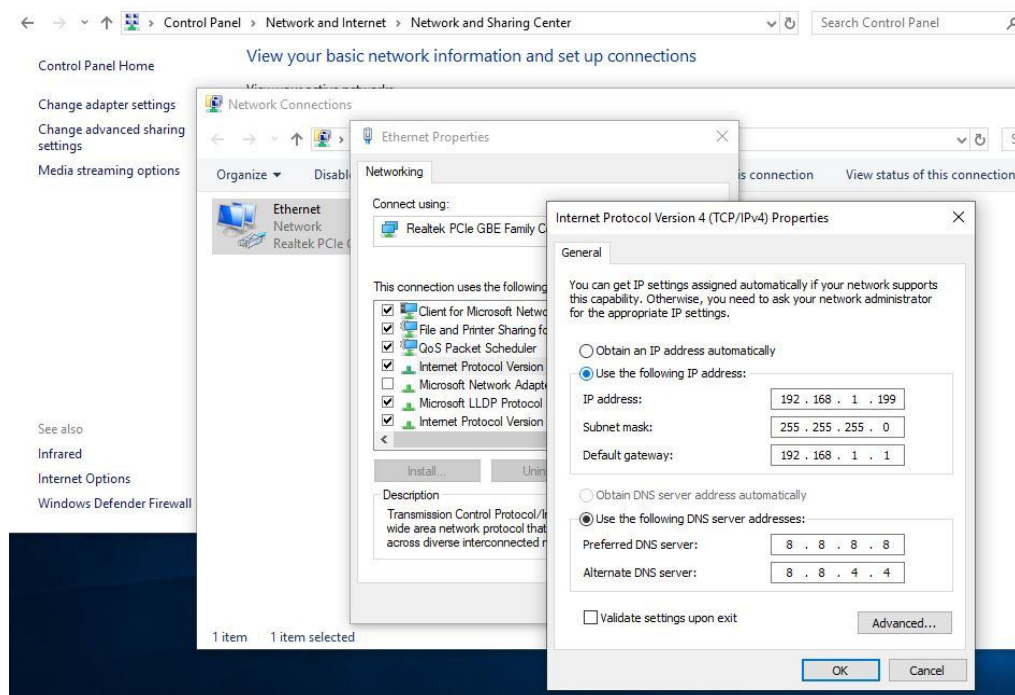
6.3 CROSSOVER CABLE INSTRUCTIONS

Local access from the PC is the fastest way to manage the setup. It is possible to connect a PC to XWEB via the network interface supplied with the 'RJ45 Ethernet connector'. The connection between the two must be made via a crossed network cable (aka 'cross cable'). This cable is available in any computer store. After the physical connection, launch the browser of your PC and enter `http://192.168.0.150` in the address bar. Displaying the initial page (login) will complete the connection procedure. Enter username and password to start using your XWEB.

Warning: a prerequisite to be able to connect correctly is the compatibility of the IP class between the XWEB address and that of the network interface of your PC. For example, with the XWEB network interface configured at 192.168.0.200, the network interface of your PC can be configured with at 192.168.0.15



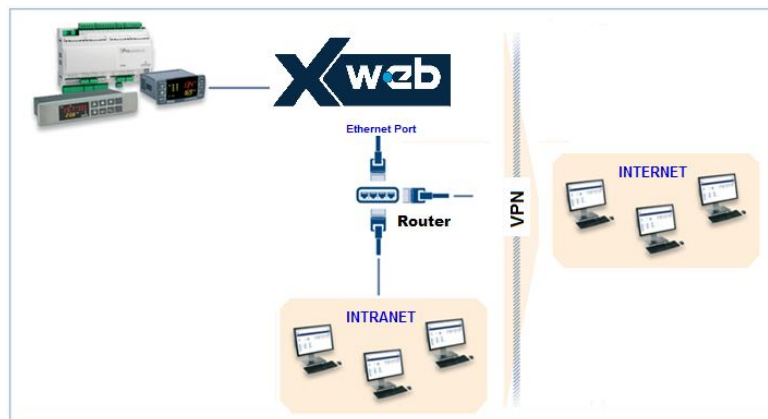
In order to configure the network interface of your PC, administration privileges are normally required. Refer to the documentation of your PC's operating system. The following figure shows the steps to be taken to configure the network interface of a PC with WINDOWS.



6.4 INTRANET CONNECTIVITY (“OR LAN CONNECTION”) AND VPN

This type of connection will allow you to access XWEB from any PC connected to the local network. This type of connection must also be used to configure the XWEB for connection from the internet via VPN (Virtual Private Network). This last type of connection, once established, brings your PC - connected to the internet - to become part of the local XWEB network.

Attention: the connection to your company's local network is assumed to be managed by qualified personnel and / or by the network administrator. Which must be able to assign a valid IP address to the XWEB and be able to provide - for your PC - any software and credentials if you want to use a VPN network for access.

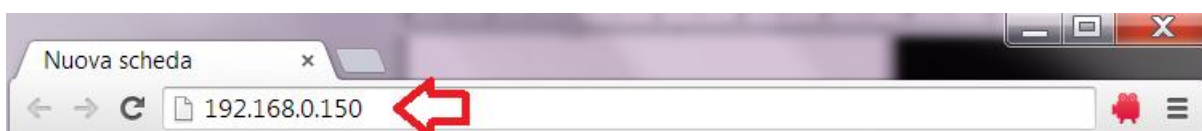


Before connecting the XWEB to the network, check that the IP address you wish to use for the XWEB is actually free and therefore usable. You could perform a PING to that address and if at least one reply is received at the PING, the address must be changed as it is already used.

Example:

```
C:\Windows\system32\cmd.exe
C:\>ping 10.100.82.201
Pinging 10.100.82.201 with 32 bytes of data:
Reply from 10.100.82.201: bytes=32 time=34ms TTL=62
Reply from 10.100.82.201: bytes=32 time<1ms TTL=62
Reply from 10.100.82.201: bytes=32 time<1ms TTL=62
Reply from 10.100.82.201: bytes=32 time<1ms TTL=62
Ping statistics for 10.100.82.201:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 34ms, Average = 8ms
C:\>
```

Before connecting the XWEB to the network, please configure its IP (and other network configuration parameters) using the direct local connection (with screen, keyboard and mouse) or with the local PC connection with crossed cable. Once the network parameters have been set, the XWEB can be connected to the local network with a standard RJ45 cable. Connect from your PC to XWEB by opening the browser and entering the XWEB IP address in the address bar. The default address is: <http://192.168.0.150>. Store the address in the list of favorites.



6.5 INTERNET CONNECTIVITY ON PUBLIC IP

This type of connection will allow you to directly access XWEB from any PC connected to the internet without having to install - on your PC - any additional software.



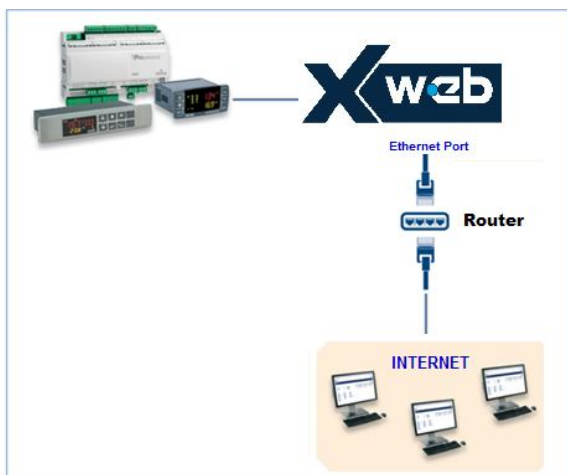
Attention: the connection to the Internet presumes to be managed by qualified personnel and / or by the network administrator.

In order to connect your XWEB to the Internet, you need a 'public and static IP address', which must be specifically requested from your ISP (Internet Service Provider). Tell your ISP that you want to install a webserver: this will help them recognize your needs and provide you with an adequate connection. It is highly recommended to obtain all the details of the supply contract for the management of any future connection problems.

Connection to the internet is possible in the presence of a router. Its configuration, as well as that of XWEB depend on the data provided by your ISP. Depending on the type of contract, the provider can supply the router or the customer can purchase it separately.

Provide your ISP and / or network administrator with the XWEB ports (LAN side)

- 80 (used for HTTP access)
- 22 (used for SSH logins)



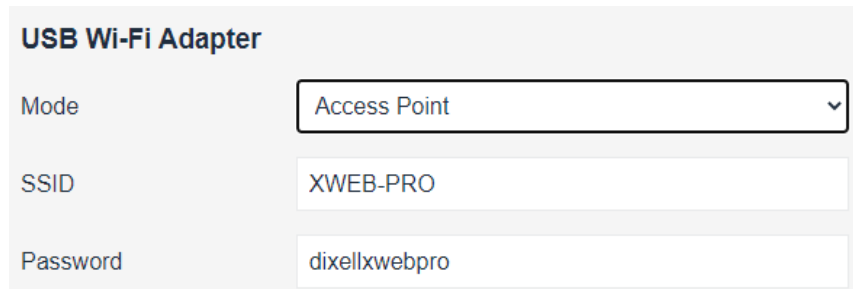
6.6 WIFI CONNECTIVITY

This type of connection will allow you to directly access XWEB from a device equipped with a Wifi connection, or to allow XWEB to access an already configured wifi network. A prerequisite for these types of connectivity is the installation of the WIFI dongle in the XWEB USB port.

ATTENTION: Only use dongles officially supported by this monitoring unit.

i. Connecting a mobile device to the XWEB access-point

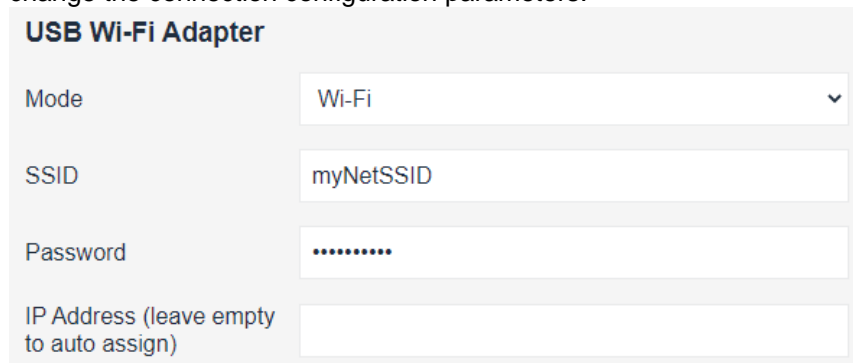
XWEB is normally supplied preconfigured in this mode so that the user can search with his PC / smartphone / tablet to an "XWEB-EVO" SSID network. The default password is "dixellxwebpro".



The screenshot shows a configuration window titled "USB Wi-Fi Adapter". It contains three fields: "Mode" is a dropdown menu set to "Access Point"; "SSID" is a text field containing "XWEB-PRO"; and "Password" is a text field containing "dixellxwebpro".

i. Connection of XWEB to existing wifi network

XWEB can be connected via wifi to a Wifi-AccessPoint already present on the site. In this case, you need to temporarily access the xweb interface with another type of connection (typically with a crossed cable) to change the connection configuration parameters.



The screenshot shows a configuration window titled "USB Wi-Fi Adapter". It contains four fields: "Mode" is a dropdown menu set to "Wi-Fi"; "SSID" is a text field containing "myNetSSID"; "Password" is a text field containing a series of dots; and "IP Address (leave empty to auto assign)" is an empty text field.

Configuration changes can be made by the user after accessing the user interface from the System→Settings→Network menu.

ATTENTION: no access to port 22 service is provided in wifi

7. EMERGENCY PROCEDURE

This procedure is to restore XWEB parameters to factory default values; it is useful in cases where the IP address and / or the web service port and / or access credentials (username / password) have been lost and / or if generic errors occurs. This procedure is applicable with XWEB of software versions 5.0 and above.

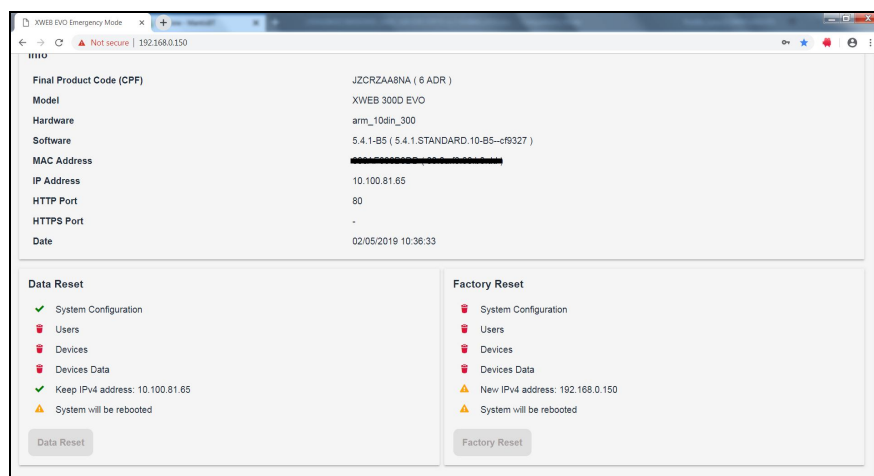
- 1) With the instrument switched off, close the "JMP" contacts using a jumper supplied with the XWEB product



- 2) Connect a network cable between XWEB and PC
- 3) Configure the network interface of the PC with address 192.168.0.6 or compatible class
- 4) Power on XWEB and wait a couple of minutes
- 5) Open with your browser (Firefox or Chrome) the address <http://192.168.0.150>

A page like the one below will be presented in which will be present:

- a. **MAC Address:** XWEB alphanumeric identification code
- b. **IP Address:** IP address functioning outside the emergency procedure
- c. **HTTP / HTTPS Port:** web service ports operating outside the emergency procedure
- d. **DATE:** system date

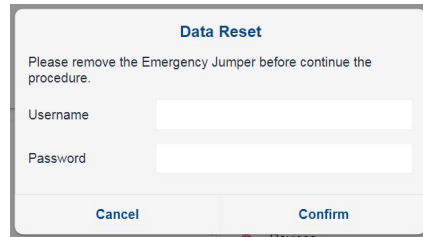


If you only want to recover the IP you can interrupt the procedure now by opening the JMP contacts and restarting XWEB by acting on its power supply.

To complete the emergency procedure and reset the user configuration and the configured field devices, proceed with the operations described below. Warning: all historical data (such as temperatures) will also be

lost; software updates and / or libraries will remain installed. The reset operation is not reversible, and the lost data will not be recoverable by XWEB.

- 6) Press on FACTORY RESET to reset the system parameters including the network configuration; with this option the system will become reachable outside the emergency procedure only on IP:192.168.0.150; press on DATA RESET to avoid losing the network configuration (and the other system configuration parameters); the system will then be reachable outside the emergency procedure with the IP of "IP ADDRESS" present on the page described in the previous section.
- 7) Open the JMP contacts by disconnecting the jumper
- 8) Enter the credentials provided by Dixell Technical Support; the data of MAC ADDRESS and DATE must be provided beforehand:

A screenshot of a web-based dialog box titled "Data Reset". The dialog has a light gray background and a thin border. Inside, the text "Please remove the Emergency Jumper before continue the procedure." is displayed. Below this, there are two input fields: "Username" and "Password", each with a corresponding text entry box. At the bottom of the dialog, there are two buttons: "Cancel" on the left and "Confirm" on the right. The "Confirm" button is highlighted in blue.

- 9) Press the "Confirm" key: if the data entered are correct the system will complete its operations and will be restarted automatically. Warning: do not disconnect the power supply until XWEB completely restarts.
- 10) Wait a couple of minutes to complete the operation and the emergency procedure; it will now be possible to log in with a username and password: Admin / Admin

8. OPERATIVE PROCEDURES

For the operating procedures please refer to the OPERATING MANUAL, in the "Download Manuals" section of the website <http://www.dixell.com> where the updated version is available.

9. SYSTEM IDENTIFICATION

Fill in the table below, make a xerox copy and keep it near the XWEB.

HostName	_____	[example: myXWEB001]
IP Address	_____	[example: 192.168.0.123]
Gateway	_____	[example: 192.168.0.1]
DNS	_____	[example: 8.8.8.8]
SMTP	_____	[example: 192.168.0.14]
E-mail Address	_____	[example: myXWEB001@company.com]
Telephone number	_____	

10. TRADEMARKS

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Linux is a trademark registered to Linus Torvalds.

Other names may be trademarks of their respective owners.

11. NOTE



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