

GLOBAL RETAIL SOLUTION

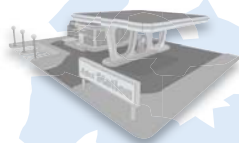
Research, great experience, regulation and design innovation: these are the elements that allow Dixell to offer controllers and supervising systems that are in the forefront for all refrigeration applications, cooking and air conditioning fields. A series of specific solutions and a comprehensive range that extends from Thermometers to Multifunction Controllers, from Supervising Systems to the Call Centers, for a completely centralized plant.

In particular, Dixell's systems are a range designed to satisfy all quality, user friendliness and efficiency requirements for every kind of application.

Dixell, with its systems, integrates and coordinates all components of system regulation in order to optimize the efficiency and to increase energy savings.

APPLICATIONS

PETROL STATIONS
STORAGE CENTRES



SUPERMARKETS
HYPERMARKETS



PRODUCTION PLANTS
INDUSTRIES

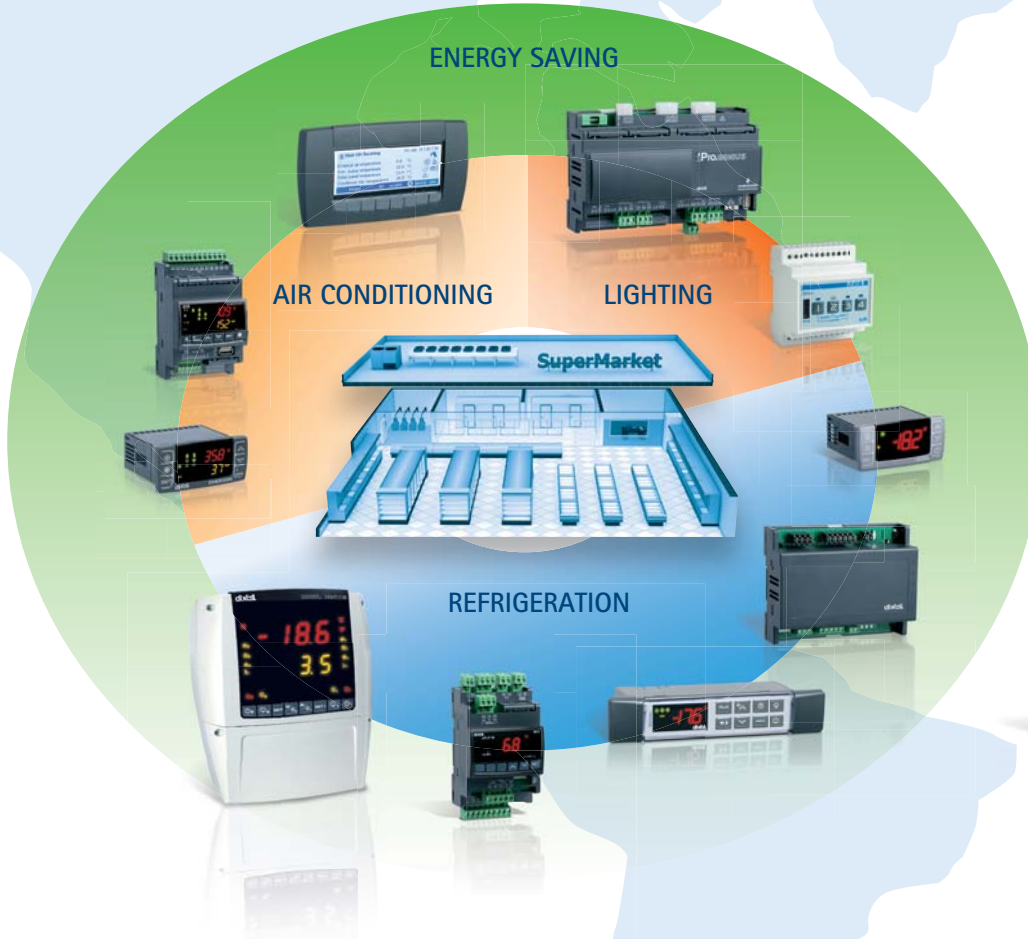


ENERGY SAVING

AIR CONDITIONING

LIGHTING

REFRIGERATION



ModBUS

iCOOLL XJ200



Some of Dixell's instruments that allow this are:

- the innovative suction pressure management of compressor rack's through CRO
- the dew point check and the modular management of anti-sweat heaters
- the load supervising and the electric consumption peak management

In addition the typical functions of a monitoring system:

- the temperature recording according to HACCP regulations
- the transmission and management of regulation and plant alarms

Results prove that Dixell systems are in synergy with all regulation components ensuring:

- better performance
- greater efficiency
- a complete local and remote monitoring
- maximum environmental preservation

XCENTER, the centralized management software ideally suited for a modern and organized Call Center, completes the range of products. A powerful and affordable instrument that allows a remote plant monitoring.

SYSTEMS



XWEB5000



XWEB3000



XWEB500 - XWEB500D

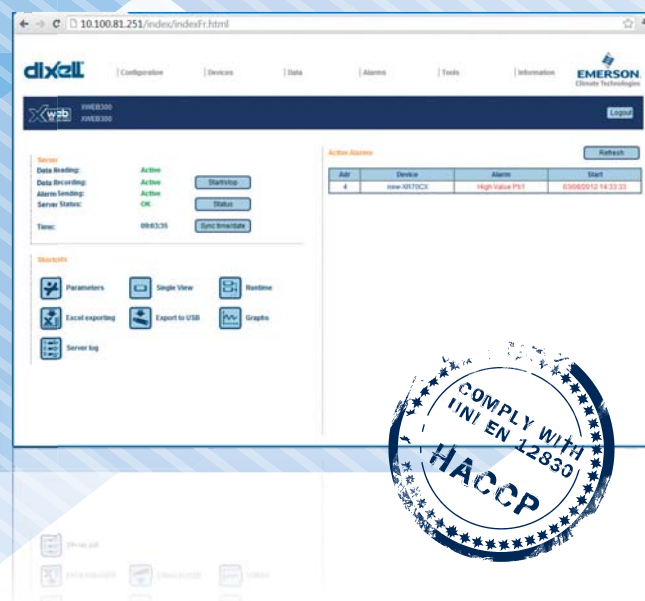
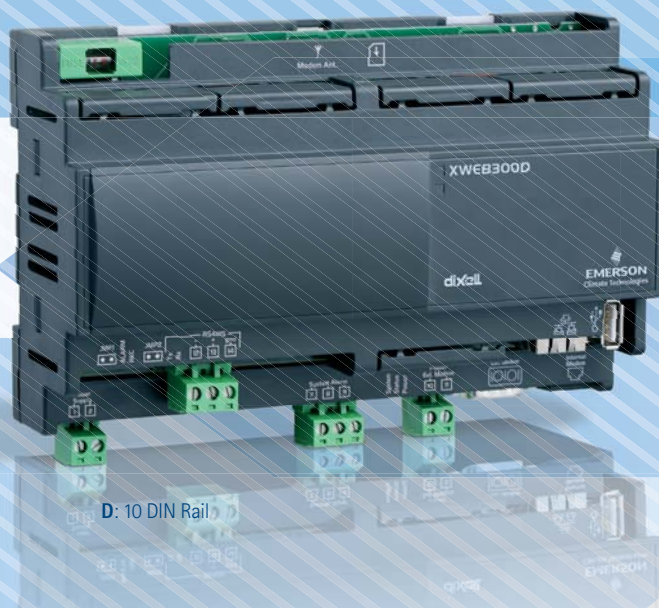


XWEB300D



CALL CENTER





XWEB300D: ALARM MANAGEMENT and CONTROLLING

It is extremely well suited for 6 or 18 device installations such as petrol stations, mini-market, small storage centres. A simple DIN Rail mounting (4 DIN) and the absence of local user interface make the XWEB300 the ideal solution for the remote assistance (via modem) to the plant. Local or remote connection from PC is made without the need for special software, only standard web browser (Microsoft Internet Explorer® or Firefox®) software is needed; the information is displayed as Web pages. The competitive price lets you to use this Web Server in applications with a only a single regulator such as compressor rack and medical close control.

- Data capture and alarm monitoring WEB server connectable to Dixell's controllers with serial output or to others ModBUS-RTU compatible devices
- XWEB is a 10DIN Rail module for easy DIN Rail mounting (DIN) directly inside the machine board or wall mounting with brackets
- Quick and easy connection to Web pages with dedicated interface for PDA/Smartphone
- Possibility to see and modify the parameters of the connected devices remotely
- Complete and simplified analysis of the unit functioning thanks to a powerful tool that allows viewing data in graphical format (Excel®)
- One year of stored data inside the XWEB memory (one year of stored data with 15min sampling time for 6 or 18 controllers)
- XWEB is always accessible even with isolated installations using the built-in GPRS connectivity (optional)
- Access to customized functions
- Data export on USB pendrive
- Alarm sending via FAX, SMS or e-mail
- 15VA max power absorption

HOW to ORDER

XWEB300D X W E B 3 0 0 D - A B 0 0 E

A	B	E
Power supply	N° of instruments	Internal modem
2 = 24Vac	B = 6	0 = No
8 = 110-230Vac	F = 18	1 = Analogue
		2 = GSM/GPRS

XWEB300D checks the unit and, in case of malfunction alarm, it notifies the assistance center through FAX, SMS or e-mail. It allows OEM's via direct control to decide to engage a local service call out only if necessary. XWEB300D can also record all data relevant to the function of the controlled unit and insert them into a table. In this way the OEM has important information for new models for improvement of the unit itself.

Thanks to LAN port, the connection (also via internet) to the XWEB300D is easy and safe and no special software is required. It is possible to see all the variables of a controller and to manage of all parameters and alarms. With Java Applet it is possible to generate comprehensive visual graphs.

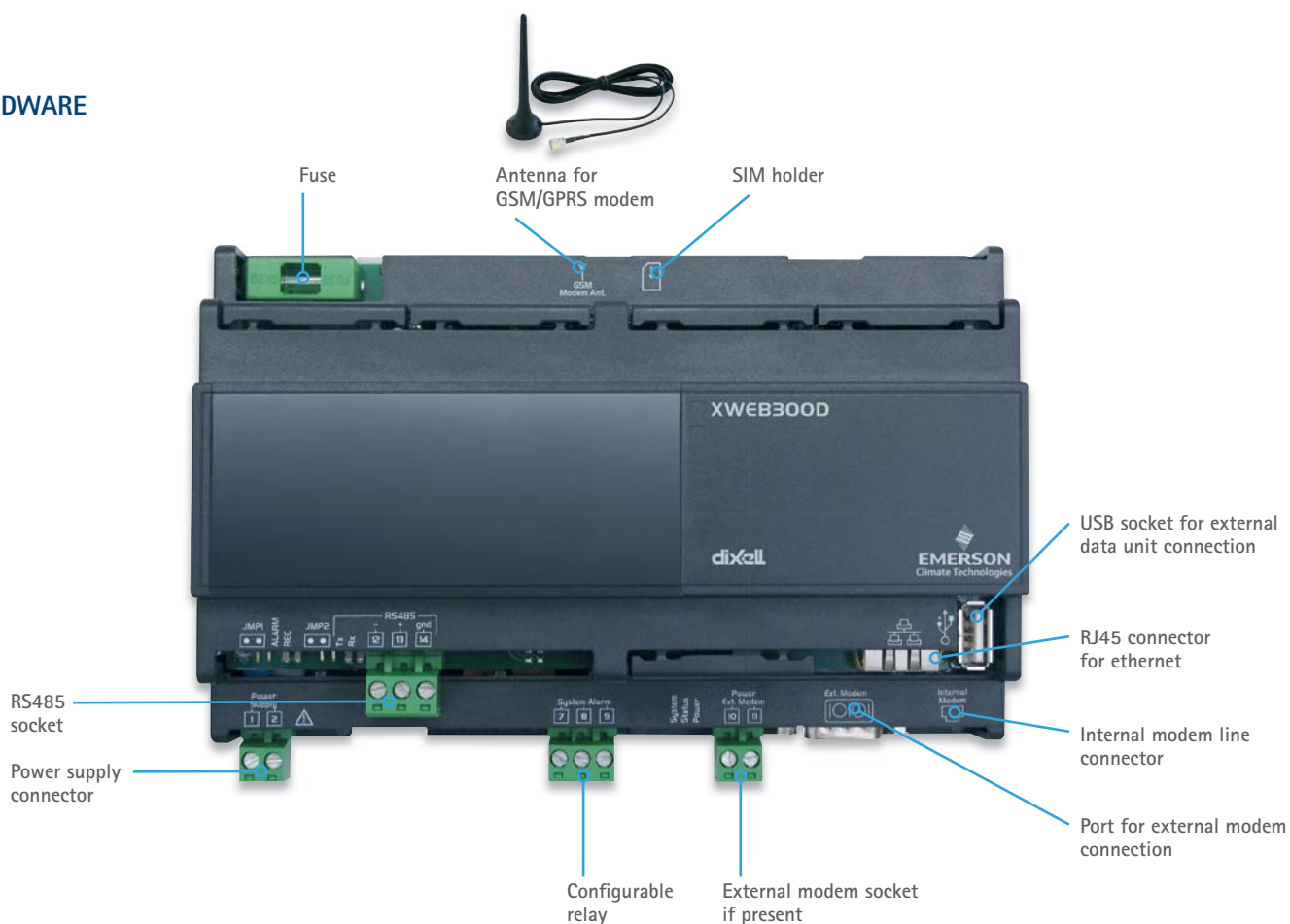


FEATURES

XWEB300D

Power supply	24, 110-230Vac
LAN output	pres
USB output	pres
RS485 output	pres
Relay output	1 config
Sampling time	from 1 to 60 minutes
External modem	analogue or GSM
Internal modem	analogue or GSM/GPRS opt

HARDWARE





XWEB500–XWEB500D: MONITORING and CONTROLLING

It is extremely well suited for medium installations up to 36 or 100 devices, such as petrol stations, supermarkets or storage centers. Its innovative and useful features make the instrument suitable for medium-large applications such as production and storage goods centers. Thanks to its two available formats, it can be installed whether on DIN Rail or wall or panel mounting, but can also be used as desk instrument. Local or remote connection from a PC is made without the need of special software, only a standard web browser (Microsoft Internet Explorer® or Firefox®) software is needed; the information is displayed as Web pages.

- Data capture and alarm monitoring WEB server connectable to Dixell's controllers with serial output or to others ModBUS-RTU compatible devices
- Ability to operate in stand alone mode thanks to the local display and keyboard (XWEB500)
- Easy DIN Rail mounting (DIN) directly inside the machine board or wall mounting with brackets (XWEB500D)
- Quick and easy connection to Web pages with dedicated interface for PDA/Smartphone
- Possibility to see and modify the parameters of the connected devices remotely
- Complete and simplified analysis of the unit functioning thanks to a powerful tool that allows to view data in graphical format (Excel®)
- One year of stored data inside the XWEB memory (one year of stored data with 15min sampling time for 36 or 100 controllers)
- XWEB500D is always accessible even with isolated installations using the built-in GPRS connectivity (optional)
- Layout for netsurfing of web site in graphic format
- Data export on USB pendrive
- Performance Meter for cooling demand control
- Alarm sending via FAX, SMS or e-mail
- 15VA max power absorption for XWEB500D and 20VA max for XWEB500

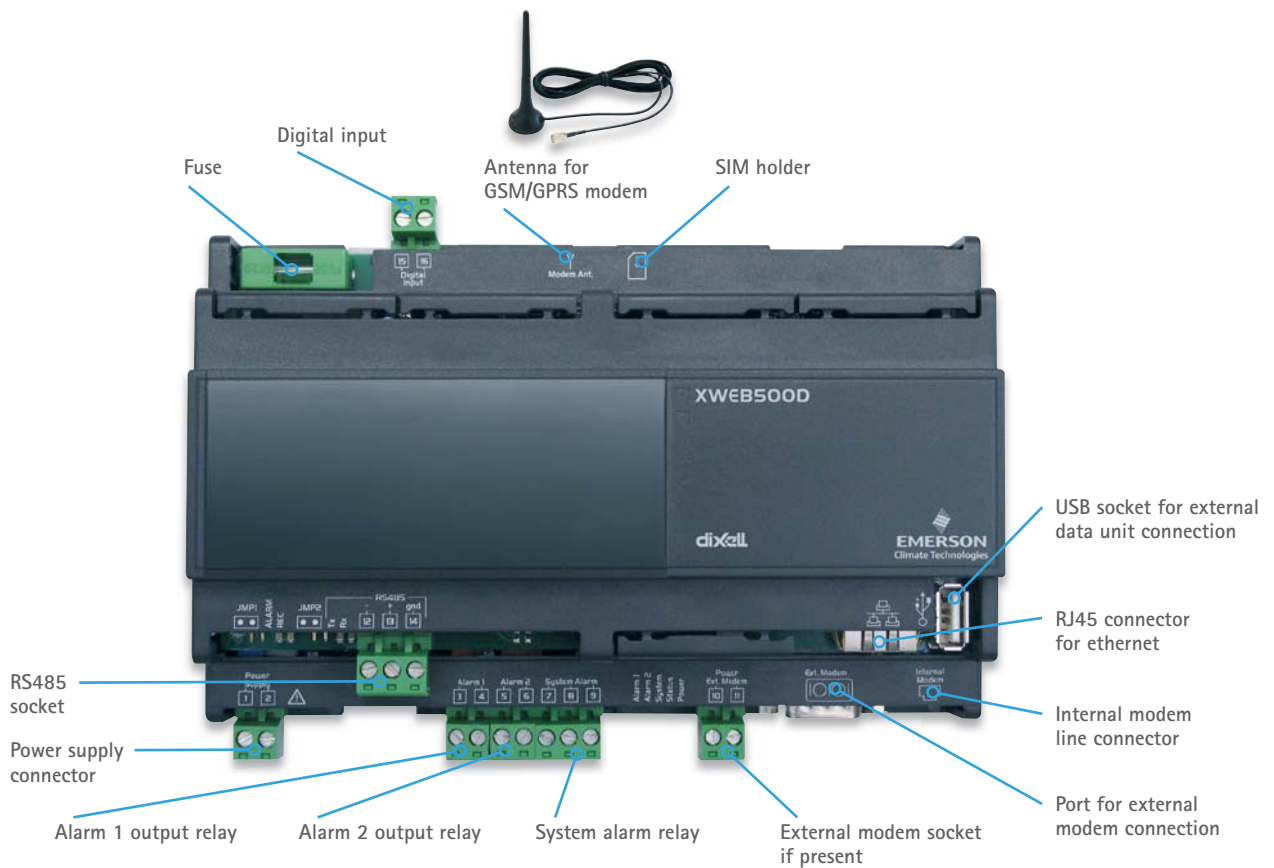
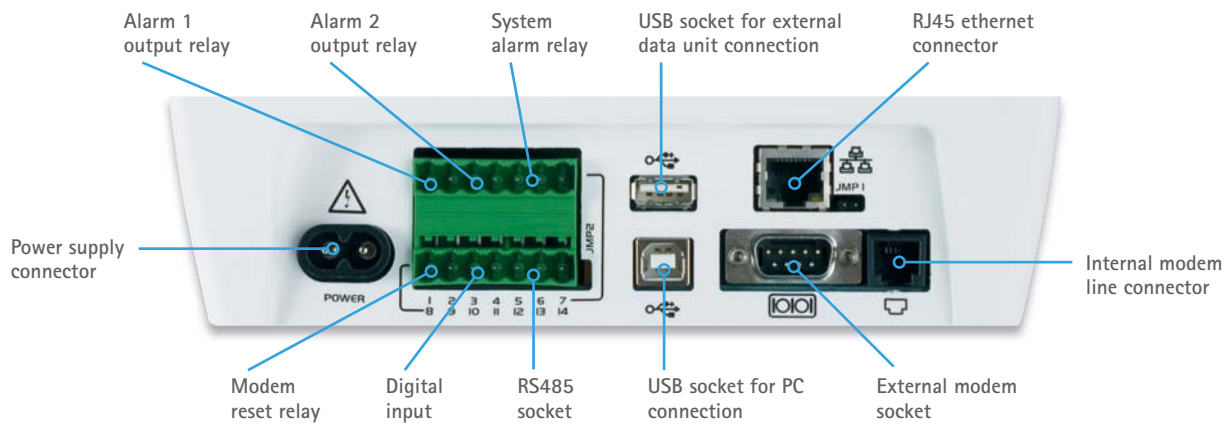
HOW to ORDER

XWEB500	X	W	E	B	5	0	0	-	A	B	0	0	E	
XWEB500D	X	W	E	B	5	0	0	D	-	A	B	0	0	E

A	B	E
Power supply	N° of instruments/CRO	Internal modem
2 = 24Vac (for XWEB500D)	H = 36/no	0 = No
4 = 110Vac (for XWEB500)	N = 50/CRO (1 engine)	1 = Analogue
5 = 230Vac (for XWEB500)	T = 100/no	2 = GSM/GPRS (for XWEB500D)
8 = 110-230Vac (for XWEB500D)		

FEATURES	XWEB500	XWEB500D
Power supply	110, 230Vac	24, 110-230Vac
LAN output	pres	pres
USB output	2	1
RS485 output	pres	pres
Relay output	3	3
Digital input	pres	pres
Sampling time	from 1 to 60 minutes	from 1 to 60 minutes
External modem	analogue or GSM	analogue or GSM
Internal modem	analogue opt	analogue or GSM/GPRS opt

HARDWARE



More information about functions and connections at pages 132-136



370x238mm

XWEB3000: INDUSTRIAL MONITORING and CONTROLLING

It is extremely well suited for larger installations with up to 247 devices such as supermarkets, hypermarkets or large storage and distribution centers as well as production and storage goods processing such as fast-food, restaurants, catering up to medical and pharmaceutical applications. XWEB3000 is the ideal solution for service needs (modem, ethernet and internet connection); it can operate, as a stand-alone server without using a PC but it's also simple to connect a monitor, keyboard and mouse. Local or remote connection from a PC is made without the need of special software; only a standard web browser (Microsoft Internet Explorer® and Firefox®) software is needed.

- Data capture and alarm monitoring WEB server connectable to Dixell's controllers with serial output or to others ModBUS-RTU compatible devices
- 19" RACK or desk mounting
- Quick and easy connection to Web pages with dedicated interface for PDA/Smartphone
- All controller values can be shown using a special "Single View" window or using "Run Time" window where many controllers can be viewed at the same time. It is even possible to use a "Layout" view of the plant with pictures and schematics drawings
- Complete and simplified analysis of the unit functioning thanks to a powerful tool that allows to view data in graphical format (Excel®)
- One year of stored data inside the XWEB memory (one year of stored data with 15min sampling time)
- Easy plant management by means of the "Scheduler" to send commands according to a custom calendar
- Calendar function and internal RTC both for alarm transmission to the "in charge" service and command sending to the controllers
- Possibility to divide the controllers set in different categories of products with their own sampling time
- Ability to select particular data on which to perform the monitoring with reduced sampling time
- Alarm sending via FAX, SMS or e-mail
- Commands sending activation through digital input
- Standard communication protocol ModBUS-RTU
- 50VA max power absorption

HOW to ORDER

XWEB3000

X W E B 3 0 0 0 - 6 0 0 0 E

E

Internal modem

0 = No

1 = Yes

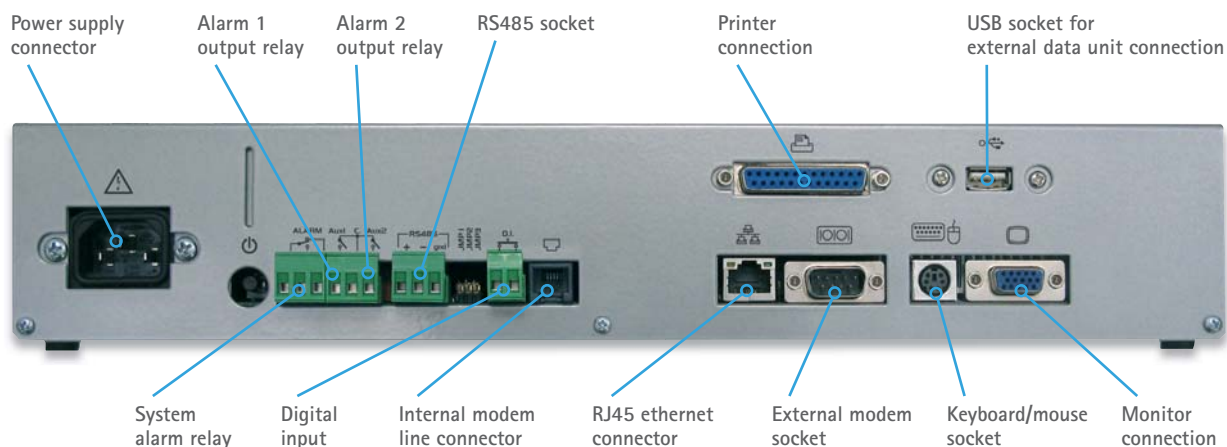
Easy configuration, efficient management of all controller values and a display of controllers also using pictures and schematic drawings: these are some of the XWEB3000's strengths. It is an intuitive, powerful and at the same time, very versatile device. This web server allows parameter and alarm management with different levels and typologies, providing the user with the possibility to divide the controllers into different categories, each with their own sampling periods. Powerful tools include: the scheduler which is a graphic instrument created to manage commands sent to the controllers, data export used to save data in a Microsoft Excel file, and the back-up function to have data-safe protection even in the worst environmental usage, also to save all the unit setup.

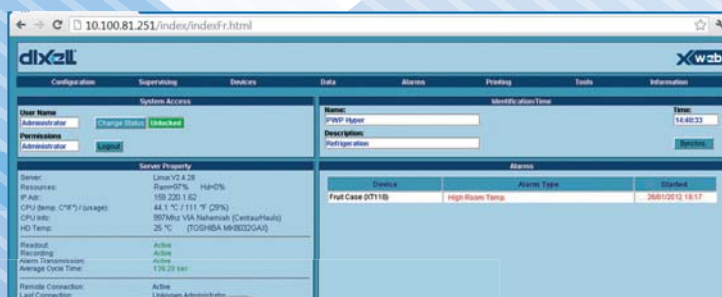
The alarm signalling for service is very flexible and can be done through FAX, e-mail, SMS and also via relay outputs.



FEATURES	XWEB3000
Power supply	110-230Vac
LAN output	pres
USB output	2
RS485 output	pres
Relay output	3
Digital input	pres
Printer output	25 pin
Keyboard/mouse output	pres
Video output	pres
Sampling time	from 1 to 255 minutes
External modem	analogue
Internal modem	analogue opt

HARDWARE





370x238mm



XWEB5000: MONITORING, CONTROLLING and SUPERVISING

It is provided with a powerful supervision engine suited for larger installations (with up to 247 devices) in the refrigeration, conditioning and building automation field, where it is necessary to program several different interactive actions that the controller has to perform. It is extremely well suited to hypermarkets, large storage and distribution centres, as well as production and storage goods processing and is ideal for the large service center (modem, ethernet and internet connection). The system manages the alarm transmission to the "in charge" service (via FAX, e-mail, SMS and also through relay outputs) and it can also work without a PC using direct connection of a monitor, keyboard and mouse. Local or remote connection PC is made using Microsoft Internet Explorer® and Firefox® browser.

- Monitoring, controlling and supervising web server connection to Dixell's controllers with serial output and to other ModBUS-RTU compatible devices
- 19" RACK or desk mounting
- Built-in editor with local and field simulator
- Quick and easy connection to Web pages with dedicated interface for PDA/Smartphone
- All controller values can be displayed using a special "Single View" window or a "Run Time" window with many controllers viewed at the same time. The ability to use a "Layout" view of the plant with pictures and schematic drawings is also an option
- Complete and simplified analysis of the unit functioning thanks to a powerful tool that allows to view data in graphical format (Excel®)
- One year of stored data inside the XWEB memory (one year of stored data with 15min sampling time)
- Easy plant management by means of the "Scheduler" to send commands according to a custom calendar
- Calendar function and internal RTC both for alarm transmission to the "in charge" service and command sending to the controllers
- Possibility to divide the controllers set in different categories of products with their own sampling time
- Ability to select particular data on which to perform the monitoring with reduced sampling time
- Alarm sending via FAX, SMS or e-mail
- Commands sending activation through digital input
- Standard communication protocol ModBUS-RTU
- 50VA max power absorption
- DPC (Dew Point Control) for anti-sweat heater management

HOW to ORDER

XWEB5000

X W E B 5 0 0 0 - 6 0 0 0 E

E

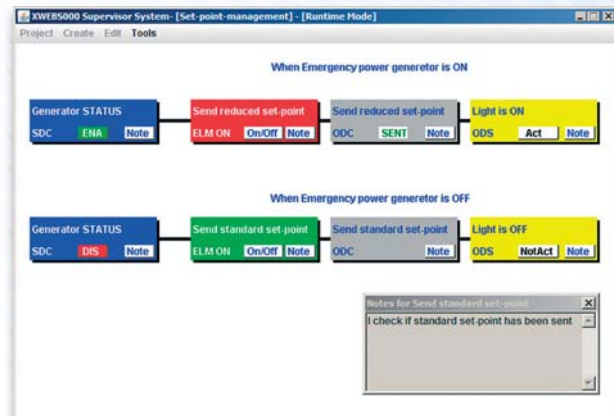
Internal modem

0 = No

1 = Yes

SUPERVISING

With XWEB5000 it is possible to intercept sending commands to monitored devices. The installer can create a supervision "Project" (or several "Projects") by programming links between the input variables (inputs, status and outputs of a controller) and defining what actions the system must take when these conditions are met. Unlike a standard PLC, where the user is required to know a specific programming language, with the XWEB5000 the "project" can be easily created using a simple graphic user interface, but more importantly, without the need to learn a complex programming language. Specific software is not necessary: the supervising software has been written in JAVA and it runs on the client PC. The project is saved to the XWEB5000; several projects can be run simultaneously.



AUTOMATION

The high versatility and programmability allow the XWEB5000 to perform automation programs. In fact it's possible, for example, to manage the use of plant lights, internal or external signs, the battery charge/discharge as fork lifts, increasing the energy saving process. In case of compressor fault or when the absorption threshold exceeds the set, etc., the monitoring unit can automatically interact with the rest of system.

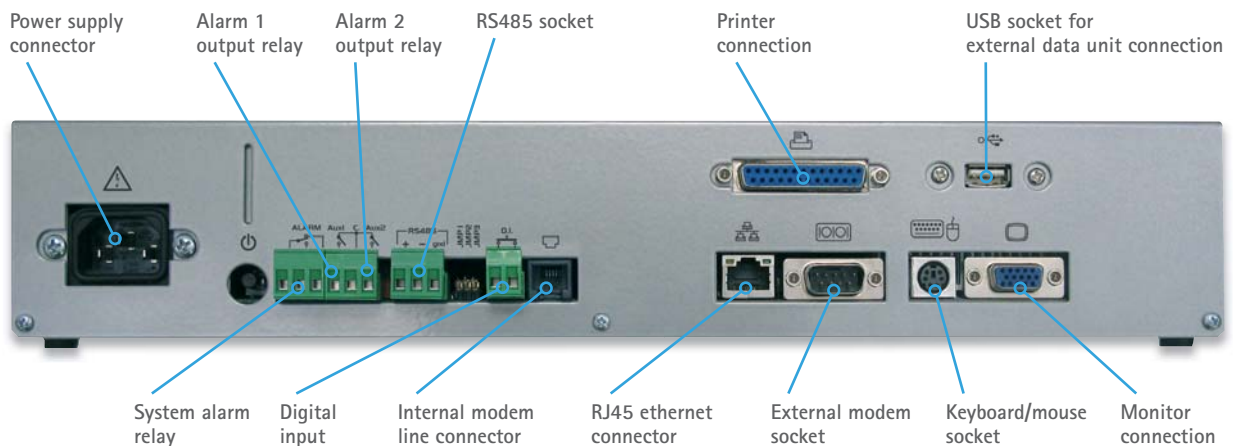
FEATURES

Power supply
LAN output
USB output
RS485 output
Relay output
Digital input
Print output
Keyboard/mouse output
Video output
Sampling time
External modem
Internal modem

XWEB5000

110-230Vac
pres
2
pres
3
pres
25 pin
pres
pres
from 1 to 255 minutes
analogue
analogue opt

HARDWARE



XWEB FUNCTIONS

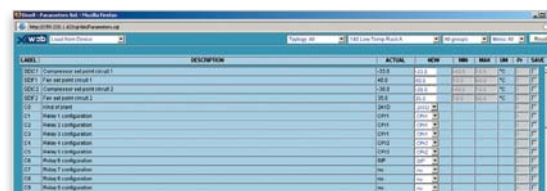
An overview of some most important XWEB family functions.



Address	Model	Name	TX	FX	% OK	% Lost	% Timeout	% Acceptance	Test
73	XWEB5000	13 HLU	1995	0		0.00	0.00	0	Test
109	XWEB5000	Liquid Store CIR L01	1995	0		0.00	0.00	0	Test
110	XWEB5000	Liquid Store CIR L02	1977	0		0.00	0.00	0	Test
76	XWEB5000	13 HLU	23616	19906		83.34	16.67	0	Test
77	XWEB5000	13 HLU	23768	19906		83.34	16.66	0	Test
78	XWEB5000	13 HLU	23731	19777		83.34	16.66	0	Test
79	XWEB5000	13 HLU	23729	19775		83.34	16.66	0	Test
80	XWEB5000	13pc Deli	23742	19784		83.33	16.67	0	Test
85	XWEB5000	14ps Bakery	23765	19804		83.33	16.67	0	Test
85	XWEB5000	21b Fruit & Veg	23729	19787		83.33	16.67	0	Test
86	XWEB5000	Fruit in a Box Fruit & Veg	23722	19769		83.34	16.66	0	Test
118	XWEB5000	05c High Meat	23734	19779		83.34	16.66	0	Test
119	XWEB5000	05d High Meat	23740	19782		83.33	16.67	0	Test
121	XWEB5000	06g Oumout	23718	19765		83.33	16.67	0	Test
60	XWEB5000	11w Dairy	23713	19750		83.32	16.68	0.02	Test
150	ENERG-ANAL	Energy Analyser	104902	24015		89.62	10.38	0	Test
2	XWEB5000	15H Sa Icecream	23710	23707		99.99	0.01	0	Test
55	XWEB5000	11b Dairy	23678	23674		99.99	0.02	0	Test
58	XWEB5000	11u Dairy	23745	23707		99.84	0.16	0	Test
82	XWEB5000	0em CIR OC1	19792	19791		99.99	0.01	0	Test
89	XWEB5000	0em CIR OC2	19800	19786		99.93	0.17	0	Test
100	XWEB5000	Bakery CIR H	19802	19801		99.99	0.01	0	Test
105	XWEB5000	Dairy CIR E1	19788	19788		99.99	0.01	0	Test

RS485 LINE-CHECK

A powerful new tool is able to check performance and statistical data for each controller by carrying out a functional test for every device connected to the RS485 network. You can then have information regarding the quality of the connection. The tool is very useful especially when there is the necessity analyze a network problem; with statistics that allow you to easily identify which instrument has a connection problem.



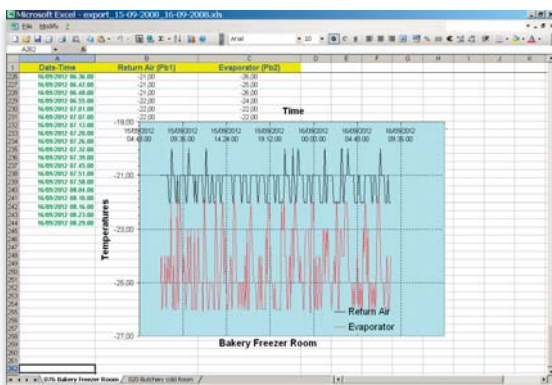
NAME	DESCRIPTION	ACTUAL	NEW	MAX	MIN	OK	FAIL	OK%	FAIL%
0007	Compressor and panel control 1	15.0	15.0	15.0	15.0	100	0	100	0
0007	Fan and panel control 1	15.0	15.0	15.0	15.0	100	0	100	0
0007	Compressor and panel control 2	15.0	15.0	15.0	15.0	100	0	100	0
0007	Fan and panel control 2	15.0	15.0	15.0	15.0	100	0	100	0
01	Water 1 configuration	15.0	15.0	15.0	15.0	100	0	100	0
02	Water 2 configuration	15.0	15.0	15.0	15.0	100	0	100	0
03	Water 3 configuration	15.0	15.0	15.0	15.0	100	0	100	0
04	Water 4 configuration	15.0	15.0	15.0	15.0	100	0	100	0
05	Water 5 configuration	15.0	15.0	15.0	15.0	100	0	100	0
06	Water 6 configuration	15.0	15.0	15.0	15.0	100	0	100	0
07	Water 7 configuration	15.0	15.0	15.0	15.0	100	0	100	0
08	Water 8 configuration	15.0	15.0	15.0	15.0	100	0	100	0
09	Water 9 configuration	15.0	15.0	15.0	15.0	100	0	100	0
10	Water 10 configuration	15.0	15.0	15.0	15.0	100	0	100	0

PARAMETER PROGRAMMING and RUN TIME

Thanks to the XWEB the user has an intuitive, powerful and versatile device all in one that allows modification of various functioning parameters of the instruments. It will no longer be necessary to make manual adjustments on the controller, because by using the different windows available, and with a few simple operations, it is possible to obtain the required updating. The Run Time function displays many devices together in a unique window. This is dynamic page and the data showed is updated in real time. The status of the devices connected (also from different manufacturers) is displayed simply and clearly and it is possible to modify the various functioning parameters of the instruments.



NAME	DESCRIPTION	ACTUAL	NEW	MAX	MIN	OK	FAIL	OK%	FAIL%
0007	Compressor and panel control 1	15.0	15.0	15.0	15.0	100	0	100	0
0007	Fan and panel control 1	15.0	15.0	15.0	15.0	100	0	100	0
0007	Compressor and panel control 2	15.0	15.0	15.0	15.0	100	0	100	0
0007	Fan and panel control 2	15.0	15.0	15.0	15.0	100	0	100	0
01	Water 1 configuration	15.0	15.0	15.0	15.0	100	0	100	0
02	Water 2 configuration	15.0	15.0	15.0	15.0	100	0	100	0
03	Water 3 configuration	15.0	15.0	15.0	15.0	100	0	100	0
04	Water 4 configuration	15.0	15.0	15.0	15.0	100	0	100	0
05	Water 5 configuration	15.0	15.0	15.0	15.0	100	0	100	0
06	Water 6 configuration	15.0	15.0	15.0	15.0	100	0	100	0
07	Water 7 configuration	15.0	15.0	15.0	15.0	100	0	100	0
08	Water 8 configuration	15.0	15.0	15.0	15.0	100	0	100	0
09	Water 9 configuration	15.0	15.0	15.0	15.0	100	0	100	0
10	Water 10 configuration	15.0	15.0	15.0	15.0	100	0	100	0



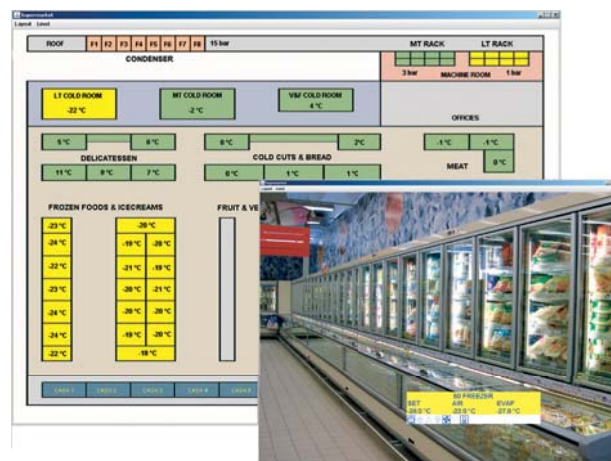
DATA EXPORT

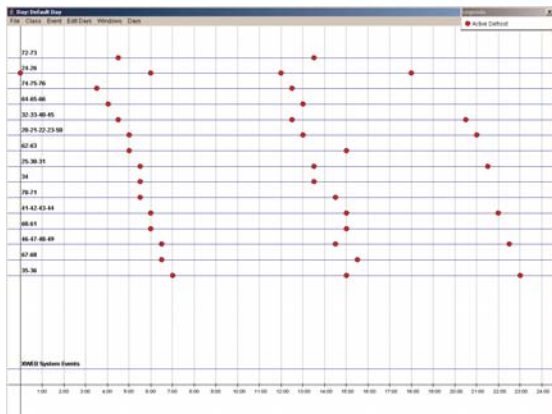
It is possible to export all data information in a Microsoft Excel® file. The user can later use this information to build graphs or to collect data. It is possible to select a data interval and filter between different controllers.

LAYOUT & GLOBAL COMMANDS

(for XWEB5000, XWEB500, XWEB3000, XWEB5000)

A powerful graphic editor that doesn't require the installation of any additional software on your PC is what makes XWEB layout the ideal solution. Using this function, the user can access all the recorded data of the controllers and even send a command to a controller. Global Commands option let you send multiple commands to one or more controllers at the same time. In addition, using the digital input it is possible to automatically start the sending of commands.





SCHEDULER

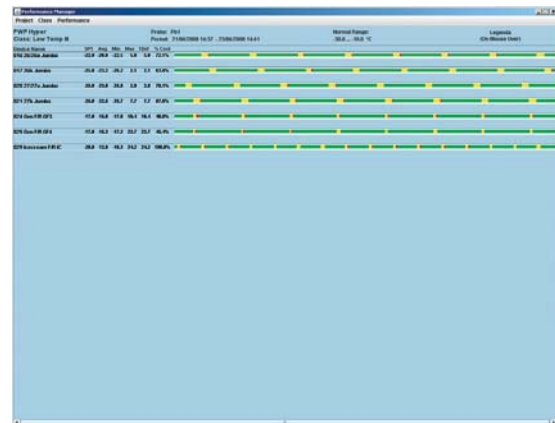
(for XWEB500D, XWEB500, XWEB3000, XWEB5000)

The scheduler is a powerful graphic tool to manage commands sent to the controllers. You can quickly see an overview of all daily activity. This means that energy saving routines and defrosts can be easily scheduled.

PERFORMANCE METER

(for XWEB500D, XWEB500, XWEB3000, XWEB5000)

This highly appreciated function allows users to verify the right temperature for single devices (wall cabinets, benches, rooms, and more). The graphical layout offers a complete view of the plant operating mode.



GRAPHICS

(for XWEB300D, XWEB500D, XWEB500, XWEB3000, XWEB5000)

CIRCULAR GRAPHICS

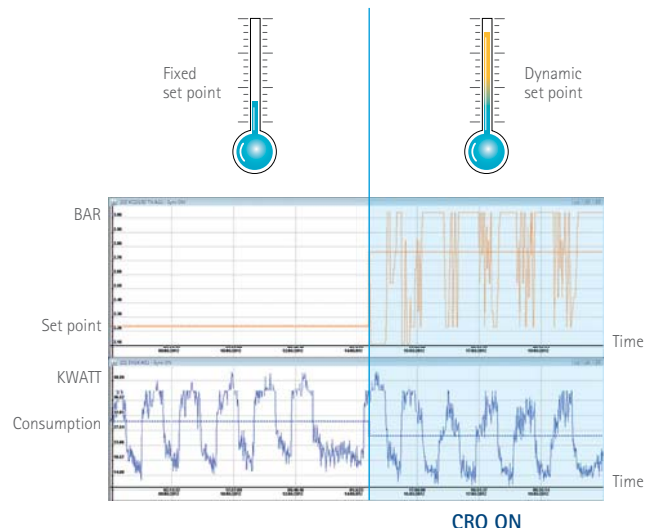
(for XWEB3000, XWEB5000)

The XWEB can supply powerful graphs that are able to represent multiple analog variables on the same pictorial system and the course of the status of the outputs and alarms. This allows the user to have a precise snapshot view of important variables for easy diagnosis of faults. Thanks to the high sampling rate of circular graphs, they are more detailed and appreciated by service personnel for diagnostics.

CRO

(for XWEB500D, XWEB500, XWEB5000)

Thanks to the special CRO algorithm (Compressor Rack Optimization), the connection to the modern supervising systems (of Dixell) allows the management of the compressor rack set point in the best possible way, depending on the devices connected, which can result in plant optimization and energy savings. The system, equipped with the CRO function, analyzes the information from the controller to determine if a controller needs more refrigeration power and how much. The set point will be recalculated in order to satisfy the worse instance and sent from the supervising system to the XC1000D compressor rack controller; this will be the new working set point. If the supervising system can't manage the XC1000D, it's the controller that "decides" to replace the set point (coming from the system) and will then re-define the set point in the planning phase of a refrigeration plant. The two graphs emphasize that when the CRO algorithm is active, in a real installation, the set point becomes on average higher, and consequently the energy consumption decreases. The dotted line represents the average weekly value.



CRO ON

XWEB CONNECTIONS

The high connectivity is one of the main XWEB family's strengths; see below for an overview of several methods to connect with the systems.

CONNECTION via SMARTPHONE/PDA

When the connection is made by means of a Palmtop computer (PDA), the XWEB automatically recognizes it and makes several dedicated pages available. It is possible to display all the values of a device and send it commands on the PDA.



LOCAL CONNECTIONS

XWEB server and associated systems can be locally linked connecting the system to a PC.



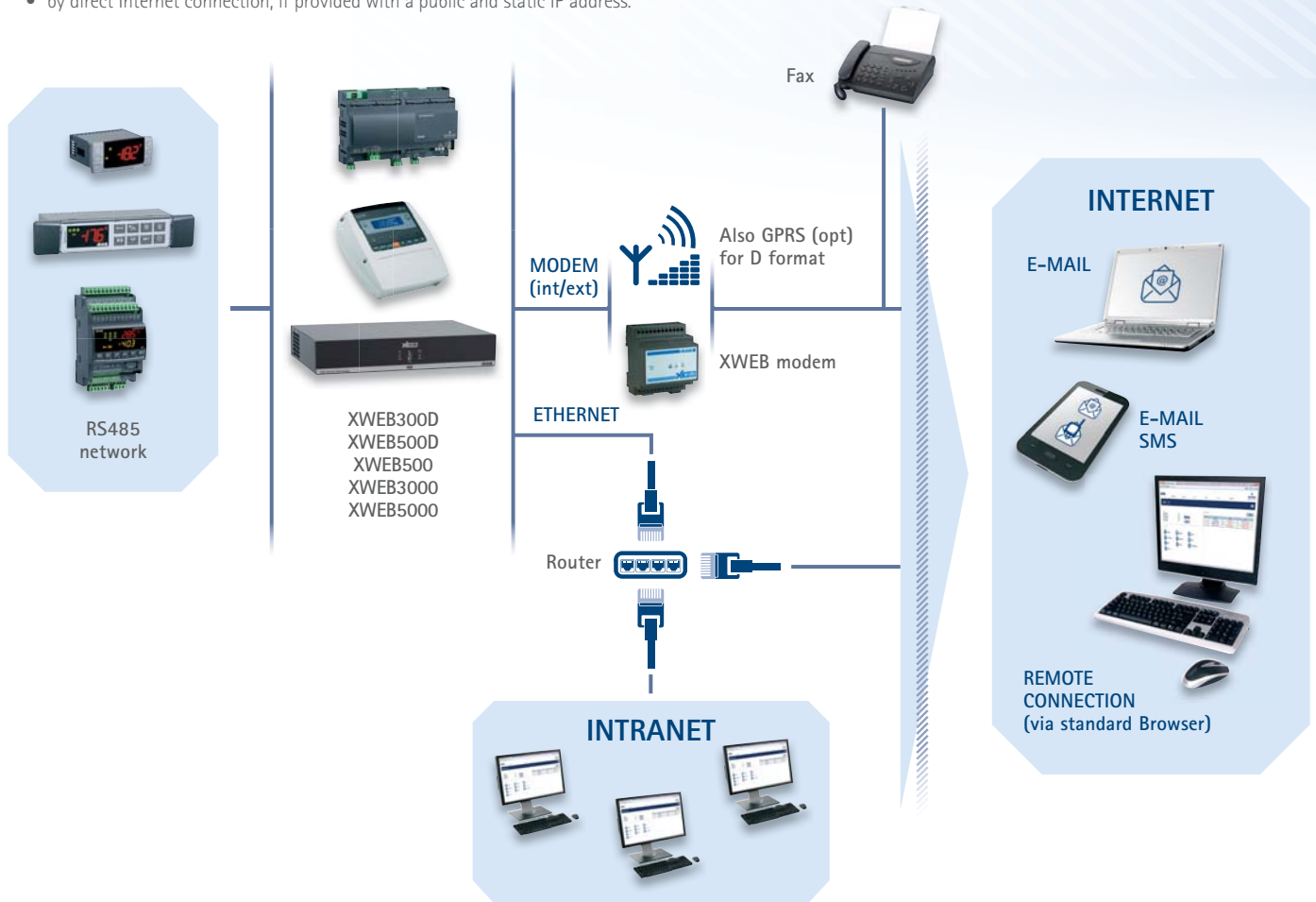
The complete and powerful hardware platform typical of XWEB3000 and XWEB5000 systems allows them to be used as the local machine by way of monitor, keyboard and mouse connection.



REMOTE CONNECTIONS

XWEB Servers can be remotely accessed using several methods:

- by modem with point to point connection, also with GSM modem (only for devices that support it);
- by link in local Ethernet network, by means of standard net connector RJ45;
- by direct Internet connection, if provided with a public and static IP address.



The GPRS connectivities are a popular favorite, which distinguishes it as a best-solution in case of alarm management with medium-small applications, and the ETHERNET in case of tele-assistance and contron with medium-large applications.



XWEB SYSTEM GUIDE

	XWEB300D	XWEB500D	XWEB500	XWEB3000	XWEB5000
Applications	small and medium	medium and large	medium and large	large	large with supervision
Format	10 DIN Rail	10 DIN Rail	210x230x87h	350x235x47h	350x235x47h
Power supply	24Vac or 110-230Vac	24Vac or 110-230Vac	110Vac or 230Vac	110-230Vac	110-230Vac
Display			•		
N° of instruments	6 - 18	36 - 100	100	247	247
USB port for PC connection			•		
USB output for device connection	•	•	•	•	•
Relay output	1	3	3	3	3
Digital input		•	•	•	•
LAN output	•	•	•	•	•
RS485 output	•	•	•	•	•
External modem	analogue or GSM	analogue or GSM	analogue or GSM	analogue	analogue
Internal modem	analogue or GSM/GPRS opt	analogue or GSM/GPRS opt	analogue opt	analogue opt	analogue opt
Sampling time	from 1 to 60 minutes	from 1 to 60 minutes	from 1 to 60 minutes	from 1 to 255 minutes	from 1 to 255 minutes
RS485 line check	•	•	•	•	•
Parameter programming	•	•	•	•	•
Run time function	•	•	•	•	•
Data export in Excel® format	•	•	•	•	•
Graphics	•	•	•	•	•
Layout function		•	•	•	•
Scheduler function		•	•	•	•
Global commands		•	•	•	•
Performance meter		•	•	•	•
Circular graphics				•	•
Supervision module					•
CRO module		•	•		•