

# XWEB FUNCTIONS

An overview of some most important XWEB family functions.

RS485 monitor - Modbus Function

http://192.168.1.62/jriver/Test485.php

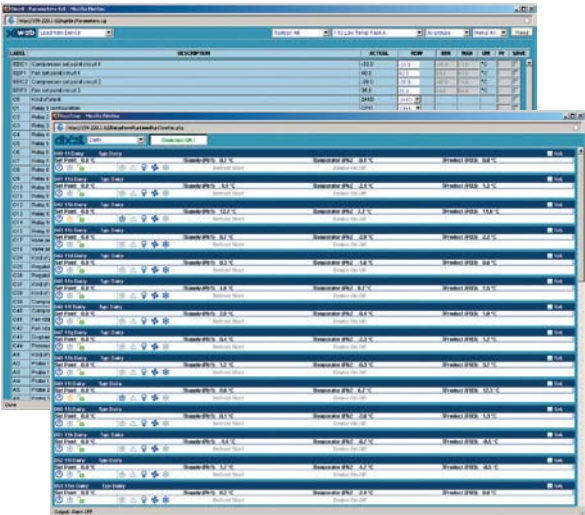
Address	Model	Name	TX	RX	% OK	% Lost	TimeOut	% Acceptation	Test	
73	XM463K	13 HLU	1995	0			01:00:00	100	0	Test
109	XM463K	Liquor Store CR LS1	1995	0			01:00:00	100	0	Test
110	XM463K	Liquor Store CR LS2	1977	0			01:00:00	100	0	Test
76	XM463K	13 HLU	23616	1980		83.33	16.67	0	16.67	Test
77	XM463K	13 HLU	23768	1990		83.34	16.66	0	16.66	Test
78	XM463K	13 HLU	23731	1977		83.34	16.66	0	16.66	Test
79	XM463K	13 HLU	23739	1975		83.34	16.66	0	16.66	Test
80	XM463K	13oz Deli	23742	1978		83.33	16.67	0	16.67	Test
85	XM463K	14oz Bakery	23765	1984		83.33	16.67	0	16.68	Test
95	XM463K	21oz Fruit & Veg	23730	1978		83.33	16.67	0	16.67	Test
96	XM463K	Roll in a Ris Fruit & Veg	23722	1976		83.34	16.66	0	16.66	Test
118	XM463K	25oz High Meat	23734	1977		83.34	16.66	0	16.66	Test
119	XM463K	25oz High Meat	23740	1975		83.33	16.67	0	16.67	Test
121	XM463K	26oz Gourmet	23719	1976		83.33	16.67	0	16.66	Test
89	XM463K	11oz Dairy	23713	1975		83.33	16.68	0.02	16.66	Test
150	ENERO ANAL	Energy Analyzer	10490204015			89.82	10.18	10.38	0	
2	XM463K	151 Sa Icecream	23710	23707		99.99	0.01	0.01	0	Test
55	XM463K	11oz Dairy	23678	23674		99.99	0.02	0.02	0	Test
58	XM463K	11oz Dairy	23745	23707		99.84	0.16	0.16	0	Test
98	XM463K	2oz CR GC1	19792	19791		99.99	0.01	0.01	0	Test
99	XM463K	2oz CR GC2	19800	19780		99.83	0.17	0.17	0	Test
100	XM463K	Bakery CR H	19802	19801		99.99	0.01	0.01	0	Test
105	XM463K	Dairy CR E1	19789	19780		99.99	0.01	0.01	0	Test

## RS485 LINE-CHECK

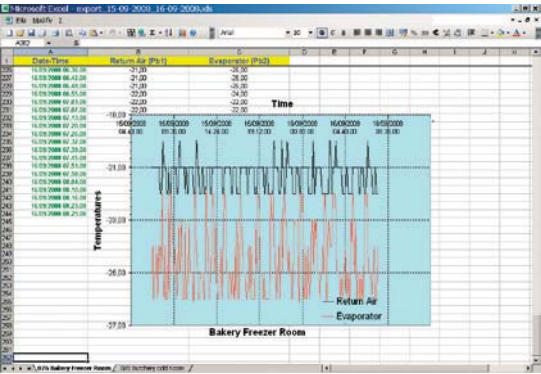
A powerful new tool is able to check performance and statistic data for each controller by carrying out a functional test for every device connected to the RS485 network. You can then have information regarding the quality of the connection. The tool is very useful especially when there is the necessity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

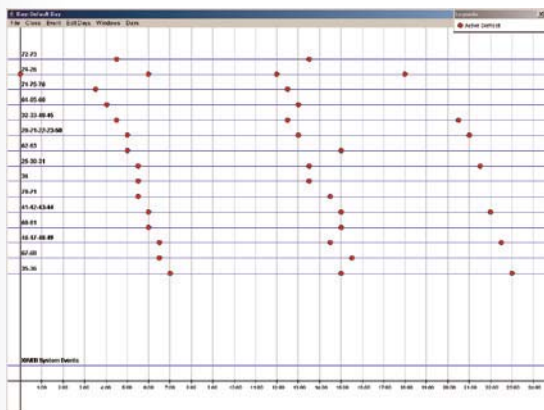
## PARAMETER PROGRAMMING AND RUN TIME

Thanks to the XWEB the user has an intuitive, powerful and at the same time, very versatile device, that allows him/her to modify the 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's 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's possible to modify the various functioning parameters of the instruments.



PARAMETER	DESCRIPTION	ACTUAL	NEW	OLD	UNIT	MIN	MAX
0001	Compressor setpoint (°C)	10.0	10.0	10.0	°C	0.0	20.0
0002	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0003	Compressor setpoint (°C)	19.0	19.0	19.0	°C	0.0	20.0
0004	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0005	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0006	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0007	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0008	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0009	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0010	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0011	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0012	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0013	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0014	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0015	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0016	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0017	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0018	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0019	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0020	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0021	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0022	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0023	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0024	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0025	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0026	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0027	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0028	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0029	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0030	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0031	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0032	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0033	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0034	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0035	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0036	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0037	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0038	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0039	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0040	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0041	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0042	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0043	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0044	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0045	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0046	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0047	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0048	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0049	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0050	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0051	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0052	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0053	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0054	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0055	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0056	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0057	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0058	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0059	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0060	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0061	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0062	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0063	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0064	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0065	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0066	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0067	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0068	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0069	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0070	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0071	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0072	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0073	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0074	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0075	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0076	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0077	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0078	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0079	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0080	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0081	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0082	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0083	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0084	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0085	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0086	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0087	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0088	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0089	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0090	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0091	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0092	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0093	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0094	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0095	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0096	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0097	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0098	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0099	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0
0100	Freeze setpoint (°C)	14.0	14.0	14.0	°C	0.0	20.0



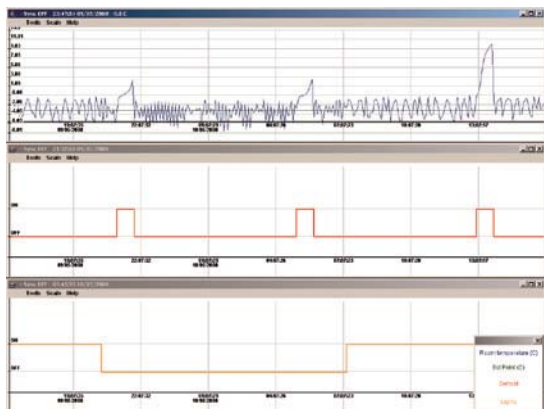
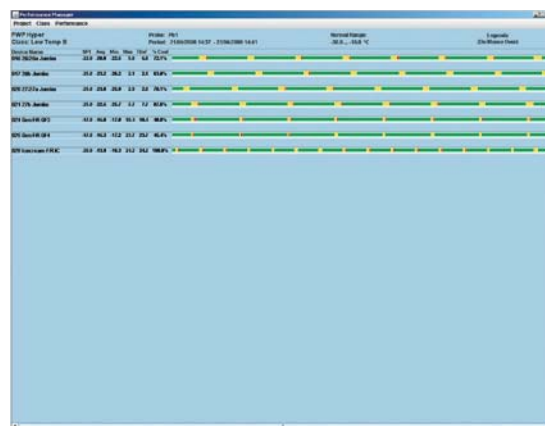


## SCHEDULER (FOR XWEB500D, XWEB500, XWEB3000, XWEB5000)

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 one to verify the right temperature for single devices (wall cabinets, benches, rooms, etc.). The graphic layout offers a complete vision about the plant operating mode.

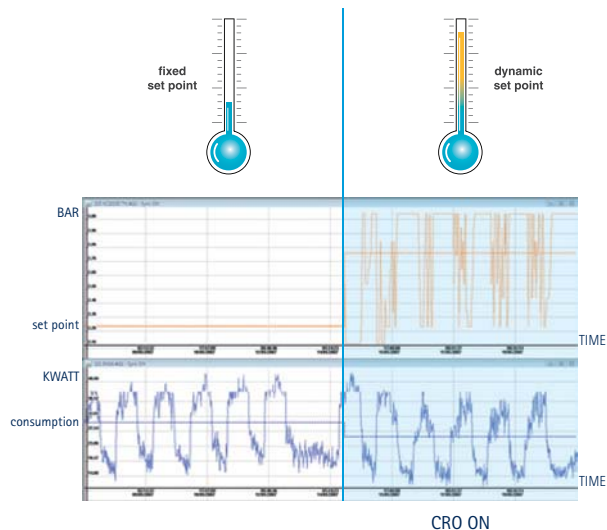


## GRAPHICS (FOR XWEB300D, XWEB500D, XWEB500, XWEB3000, XWEB5000) CIRCULAR GRAPHICS (FOR XWEB3000, XWEB5000)

The XWEB can supply powerful graphs, able to represent multiple analogue 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 for diagnostics.

## CRO (FOR XWEB5000)

The connection to the modern supervising systems (of Dixell) allows, thanks to the special CRO algorithm (Compressor Rack Optimization), to manage the compressor rack set point in the best possible way, depending on the devices connected, resulting in plant optimization and energy saving. 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 redefine the set point in the planning phase of a refrigeration plant. The 2 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.



# XWEB CONNECTIONS

Among many important XWEB system features, a remarkable one is the possibility of linked servers using several methods: by PDA, by local PC or remote PC.

## CONNECTION VIA PALMTOP COMPUTER (PDA)

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



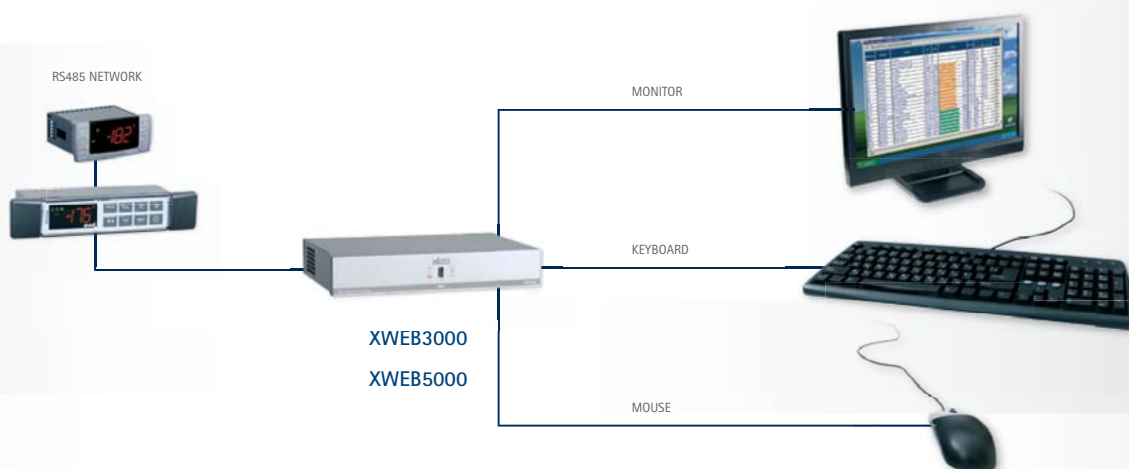
## LOCAL CONNECTIONS

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



XWEB3000 - XWEB5000 - XWEB500 - XWEB3000 - XWEB5000

Thanks to their advanced features, XWEB3000 and XWEB5000 can be used as local machine by means of monitor, keyboard and mouse connection.



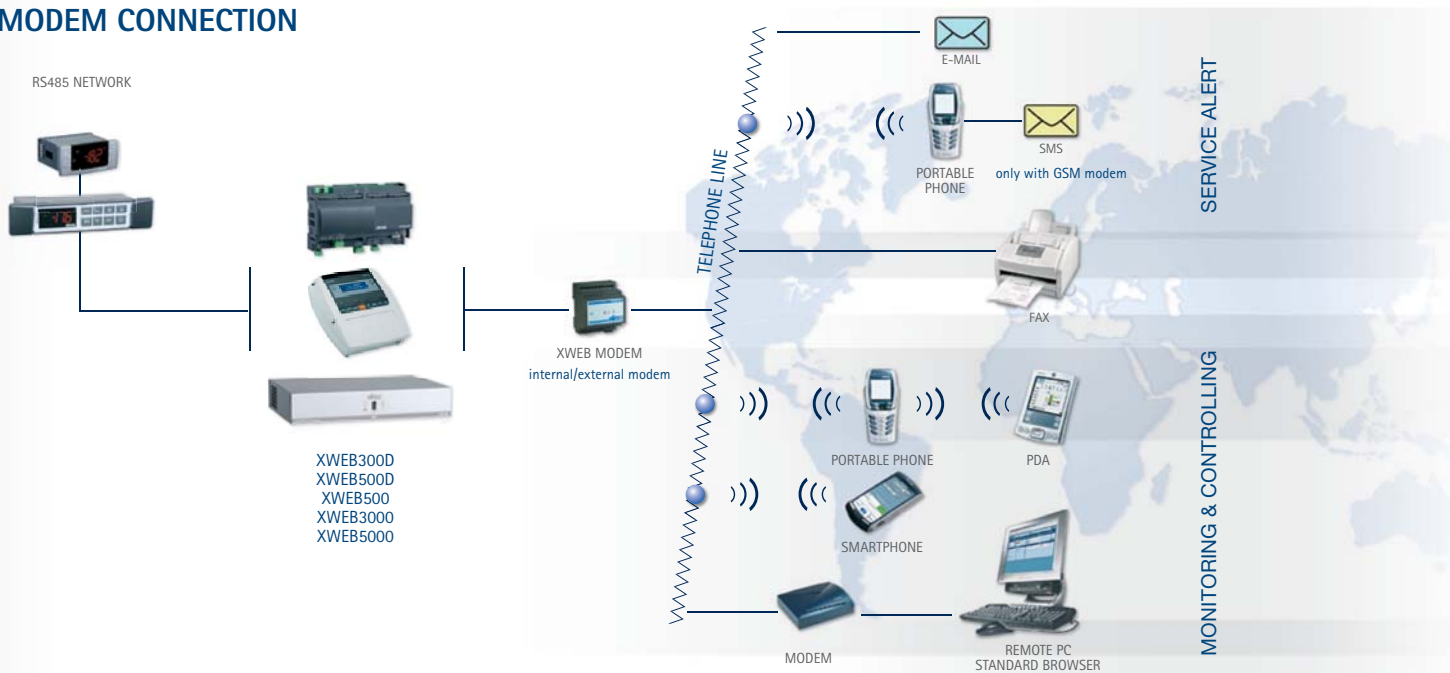
## REMOTE CONNECTIONS

XWEB Server can be remotely accessed using several methods:

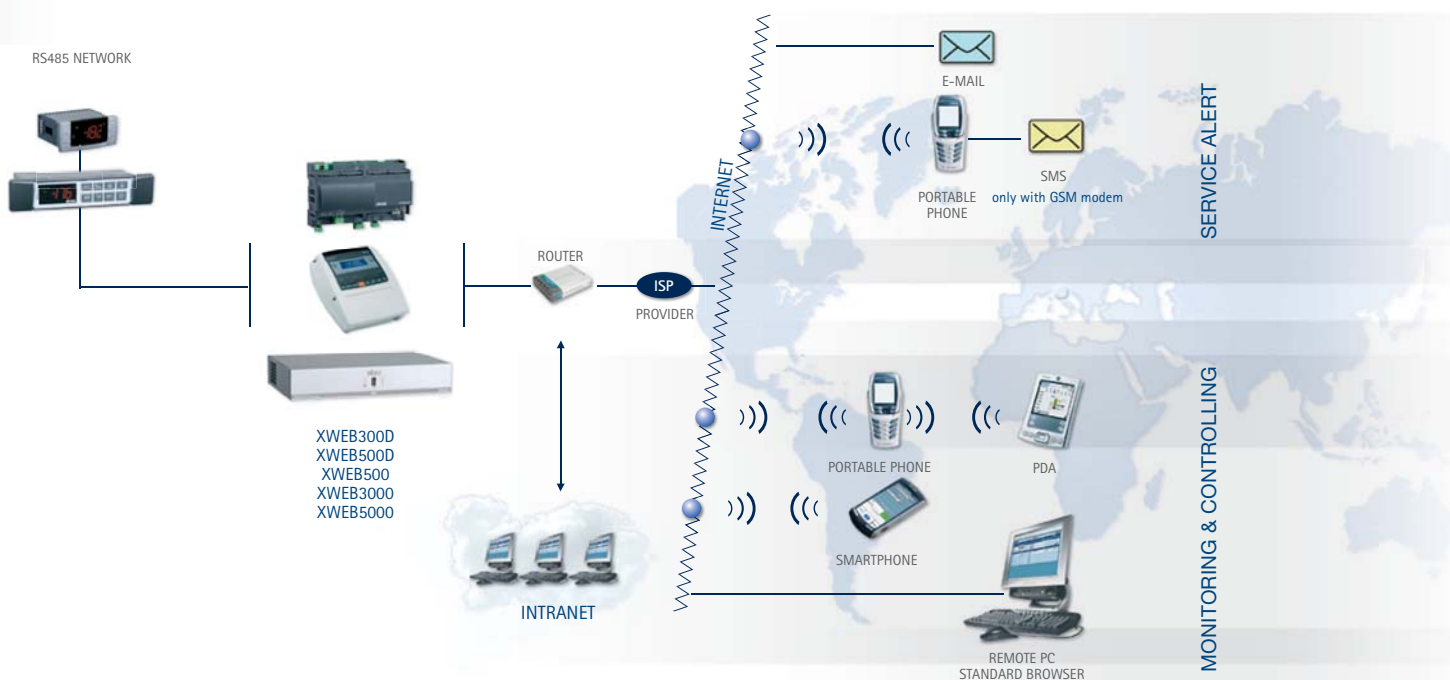
- by modem with point to point connection, also with GSM modem (only for devices that support it);
- by link in local Ethernet network, by means of standard net connector RJ45;
- by direct Internet connection, if provided with a static IP address.






## MODEM CONNECTION



## INTERNET/INTRANET CONNECTION



## MODEMS AND CONNECTING CABLES

<b>XWEB MODEM</b>	for XWEB300D/500D 500/3000/5000	Analogue serial modem PDA compatible, 56kbps (DIN Rail format) HOW TO ORDER: XWEBMODEM-200 (with 24Vac power supply) XWEBMODEM-400 (with 110Vac power supply) XWEBMODEM-500 (with 230Vac power supply)	
<b>TC35-KIT</b>	for XWEB300D/500D/500	GSM modem kit containing the modem, the power supply unit, the transmitting antenna with the relevant cable and the connection to controlling system	
<b>CAB/WEB/NET</b>	for XWEB300D/500D 500/3000/5000	Ethernet patch cable, 3m	
<b>CAB/WEB/PC</b>	for XWEB300D/500D 500/3000/5000	Ethernet patch cross over cable, 1m	

# XWEB SYSTEMS GUIDE

	XWEB300D	XWEB500D	XWEB500	XWEB3000	XWEB5000
<b>Applications</b>	Small and medium	Medium and large	Medium and large	Large	Large with supervision
<b>Format</b>	10 DIN Rail	10 DIN Rail	210x230x87h	350x235x47h	350x235x47h
<b>Power supply</b>	24Vac or 110÷230Vac	24Vac or 110÷230Vac	110Vac or 230Vac	110/230Vac	110/230Vac
<b>On-board display</b>			•		
<b>N. of instruments</b>	6 - 18	36 - 100	100	247	247
<b>CPU</b>	200MHz	200MHz	200MHz	1,3GHz	1,3GHz
<b>Internal memory</b>	8 or 24MB	48 or 128MB	128MB	512MB	512MB
<b>USB port for PC connection</b>			•		
<b>USB output for devices connection</b>		•	•	•	•
<b>Relay output</b>	1	3	3	3	3
<b>Digital input</b>		•	•	•	•
<b>LAN output</b>	•	•	•	•	•
<b>RS485 output</b>	•	•	•	•	•
<b>External modem</b>	Analogue or GSM opt	Analogue or GSM opt	Analogue or GSM opt	Analogue	Analogue
<b>Internal modem</b>	Analogue or GSM opt	Analogue or GSM opt	Analogue opt	Analogue opt	Analogue opt
<b>Sampling time</b>	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
<b>RS485 line check</b>	•	•	•	•	•
<b>Parameter programming</b>	•	•	•	•	•
<b>Run time function</b>	•	•	•	•	•
<b>Data export in Excel® format</b>	•	•	•	•	•
<b>Graphics</b>	•	•	•	•	•
<b>Layout function</b>		•	•	•	•
<b>Scheduler function</b>		•	•	•	•
<b>Global commands</b>		•	•	•	•
<b>Performance meter</b>		•	•	•	•
<b>Circular graphics</b>				•	•
<b>Supervision module</b>					•
<b>CRO module</b>					•