Dixell systems 2012

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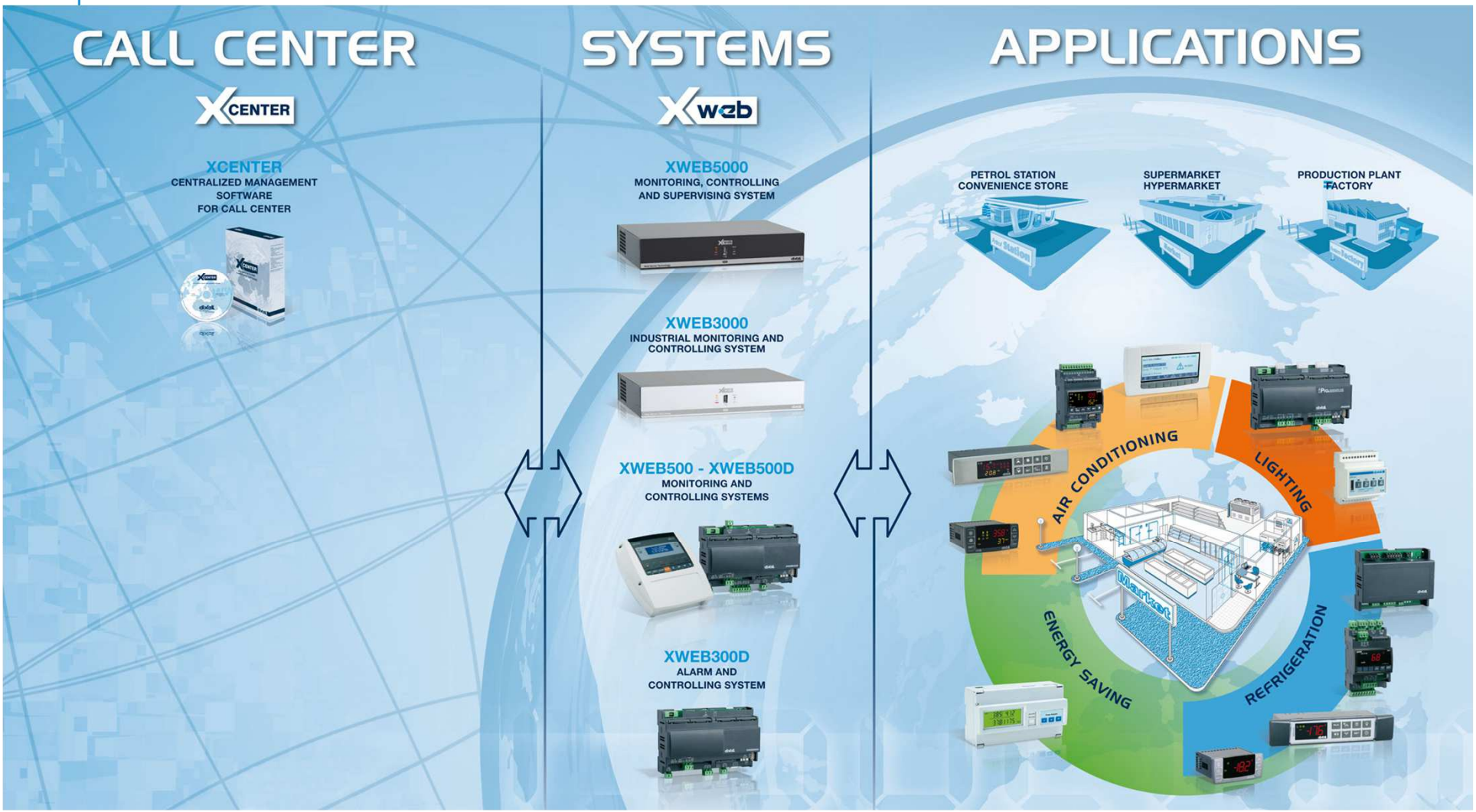
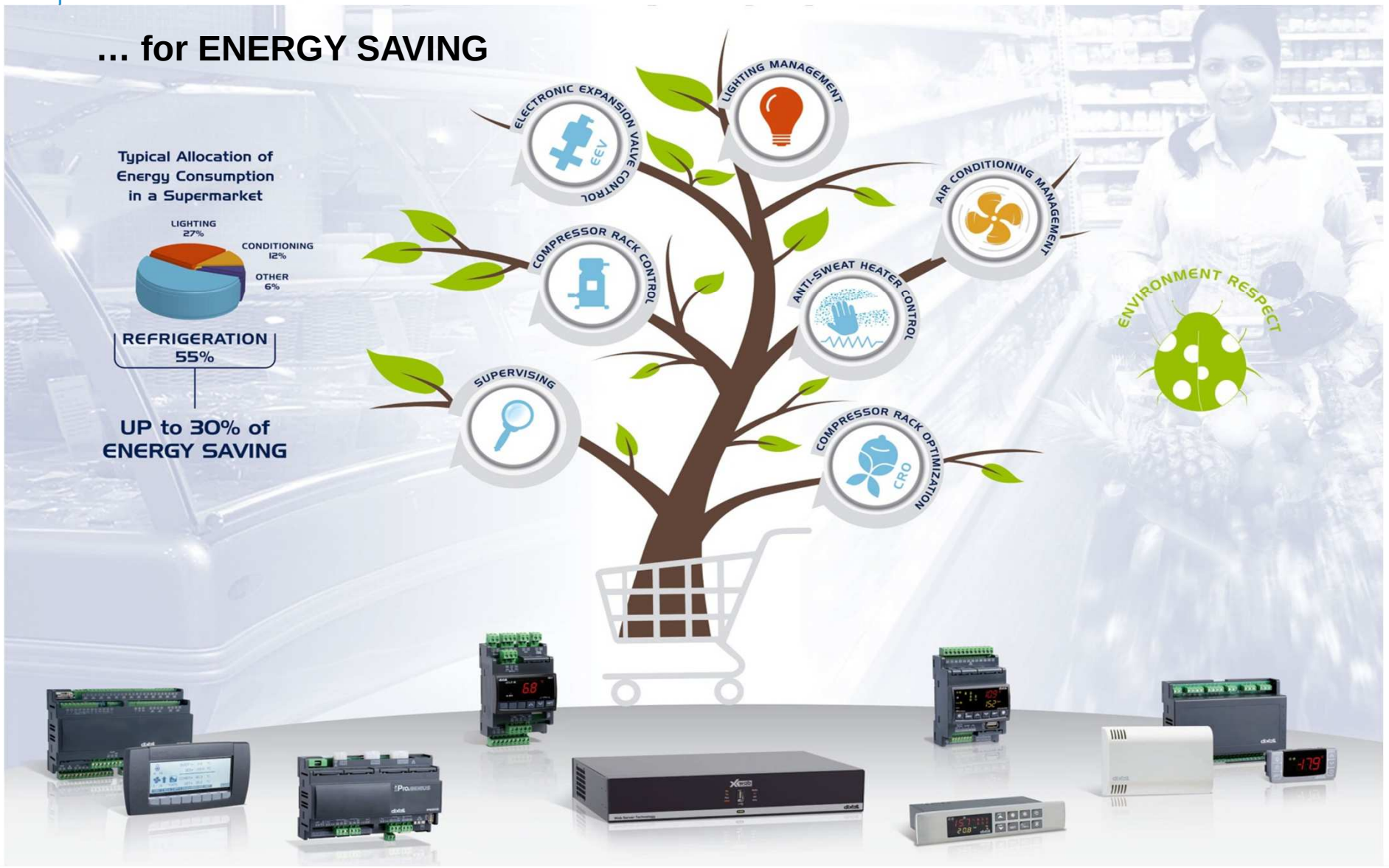
The Solutions…

… for GLOBAL RETAIL



The Solutions…



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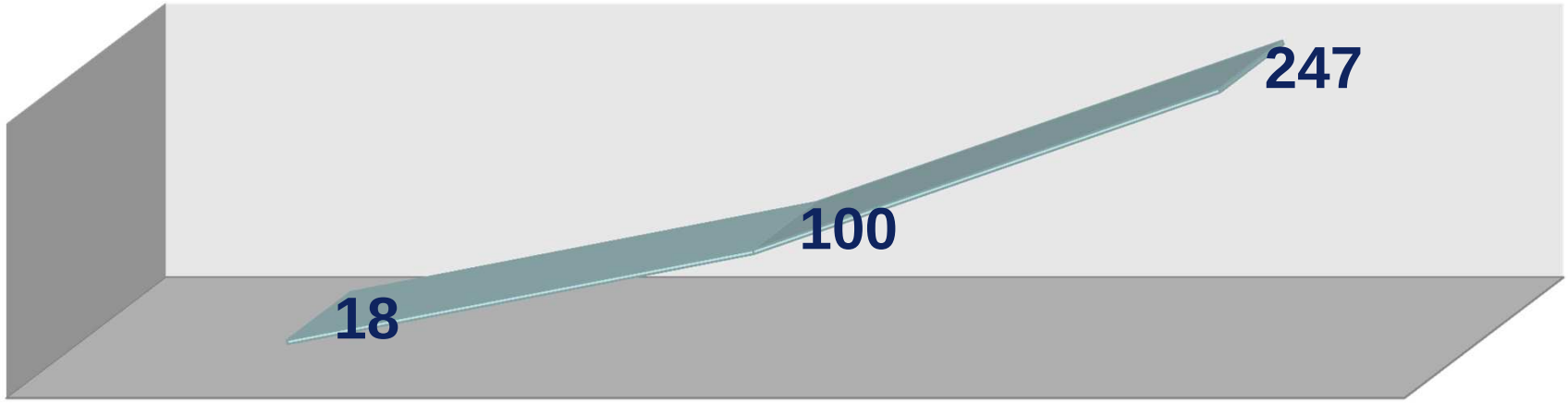
The Range - SYSTEMS

XWEB Series per number of Modbus addresses



XWEB300	XWEB500	XWEB3000/ 5000

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The Range - SYSTEMS

XWEB300/500D

CONNECTIVITY

Analog modem
On/Off Board

GSM

GPRS
On Board

3G via Ethernet

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The Range - SYSTEMS

XWEB300D

ALARMS and MONITORING

- **Compact but effective solution for small installations such as**
  - **Convenience store**
  - **Petrol stations**
  - **Warehouses**
- **Full connectivity: Ethernet, GSM or GPRS modem (built-in), External modem**
- **Up to 6/18 devices (including 3rd party devices)**

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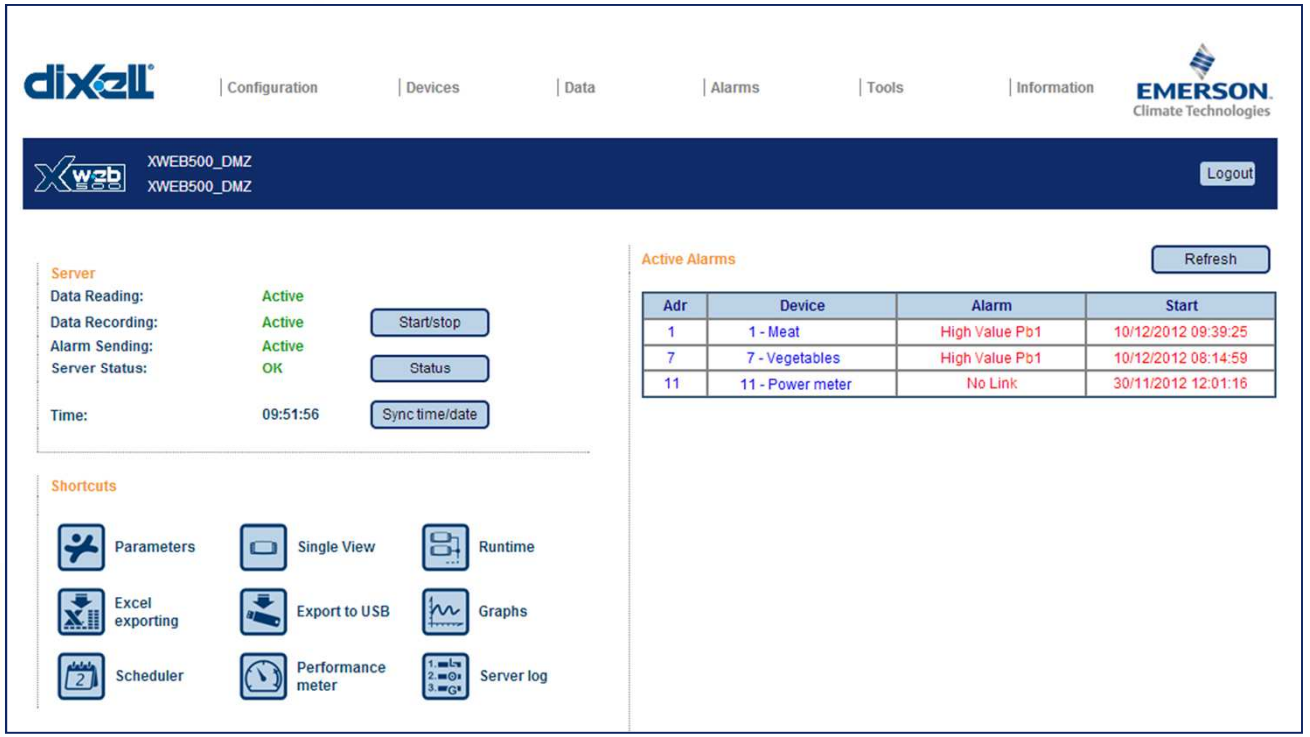
The Range - SYSTEMS

XWEB300D

ALARMS and MONITORING



- **WEB Interface**

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The Range - SYSTEMS

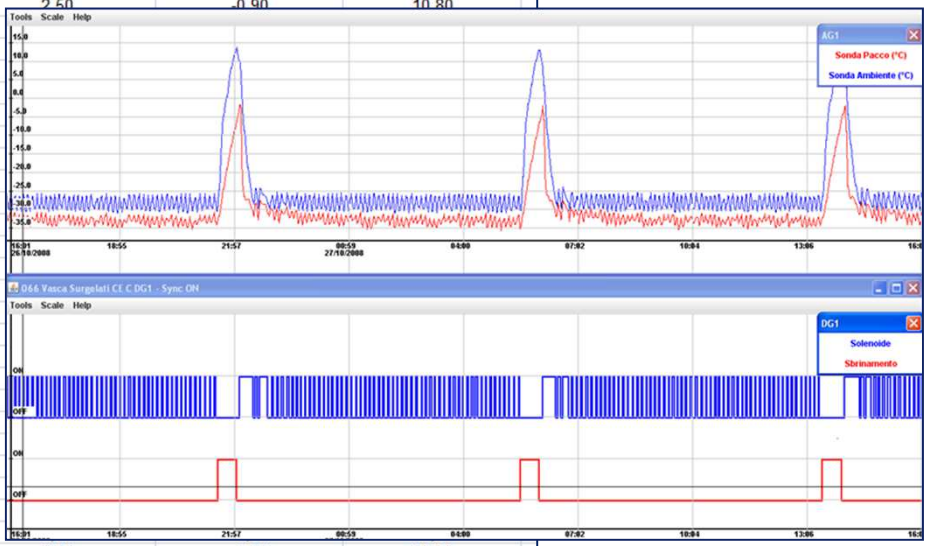
XWEB300D

ALARMS and MONITORING

Clipboard | Font | Alignment

H167

	A	B	C	D
1	Date-Time	air outlet temp	defrost temp	air inlet temp
131	16/05/2012 17:16:00	3,30	-1,30	10,80
132	16/05/2012 17:17:00	3,30	-1,30	10,80
133	16/05/2012 17:18:00	3,30	-1,30	10,80
134	16/05/2012 17:19:00	3,30	-1,30	10,80
135	16/05/2012 17:20:00	2,60	-0,90	10,80
136	16/05/2012 17:21:00			
137	16/05/2012 17:22:00			
138	16/05/2012 17:23:00			
139	16/05/2012 17:24:00			
140	16/05/2012 17:25:00			
141	16/05/2012 17:26:00			
142	16/05/2012 17:27:00			
143	16/05/2012 17:28:00			
144	16/05/2012 17:29:00			
145	16/05/2012 17:30:00			
146	16/05/2012 17:31:00			
147	16/05/2012 17:32:00			
148	16/05/2012 17:33:00			
149	16/05/2012 17:34:00			
150	16/05/2012 17:35:00			
151	16/05/2012 17:36:00			
152	16/05/2012 17:37:00			
153	16/05/2012 17:38:00			
154	16/05/2012 17:39:00			
155	16/05/2012 17:40:00			
156	16/05/2012 17:41:00			
157	16/05/2012 17:42:00			
158	16/05/2012 17:43:00			
159	16/05/2012 17:44:00			
160	16/05/2012 17:45:00	2,80	-1,40	10,70
161	16/05/2012 17:46:00	2,80	-1,40	10,70
162	16/05/2012 17:47:00	2,80	-1,40	10,70
163	16/05/2012 17:48:00	2,80	-1,40	10,70
164	16/05/2012 17:49:00	2,70	-0,50	10,50
165	16/05/2012 17:50:00	2,70	-0,50	10,50



- Temperature logs
- HACCP Compliant
- Data Export for analysis

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The Range - SYSTEMS

XWEB300D

ALARMS and MONITORING

From: xweb500dmz@emerson.com Sent: lunedì 10/12/2012 10:56
To:
Cc:
Subject: -XWEB500_DMZ -Default Type -New alarms

System Name: XWEB500_DMZ
Date: 10:51 10/12/2012
Message: eMail
Alarm Type: Default Type

NEW ALARM START – High Value PB1

Adr	Device Name	Model	Alarm Name	Start		
1	Meat	XM670K_0032000D0004	HI Value Pb1	10:51 10/12/2012		
Data not available						

OTHERS ACTIVE ALARMS

Adr	Device Name	Model	Alarm Name	Start
7	Vegetables	XM670K_0032000D0004	HI Value Pb1	10:51 10/12/2012
11	Power meter	EM21_002000080008	No Link	10:51 10/12/2012

- **Alarms Management**
  - **Email**
  - **SMS**
  - **FAX**

The Range - SYSTEMS

Report
Energy &
Units status

XWEB300

MONITORING

Compressor Racks

HVAC

Display Cabinets

Lights

Power Meters

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The Range - SYSTEMS

XWEB500

ALARMS and CONTROL

- **Compact but powerful solution for small and medium installations such as**
  - **Supermarkets**
  - **Larger Refrigerated Warehouses**
- **Automated tasks and algorithms for Energy Saving**
  - **Lights**
  - **Defrosts**
  - **Suction Pressure Optimization**
- **Up to 36/50/100 devices**

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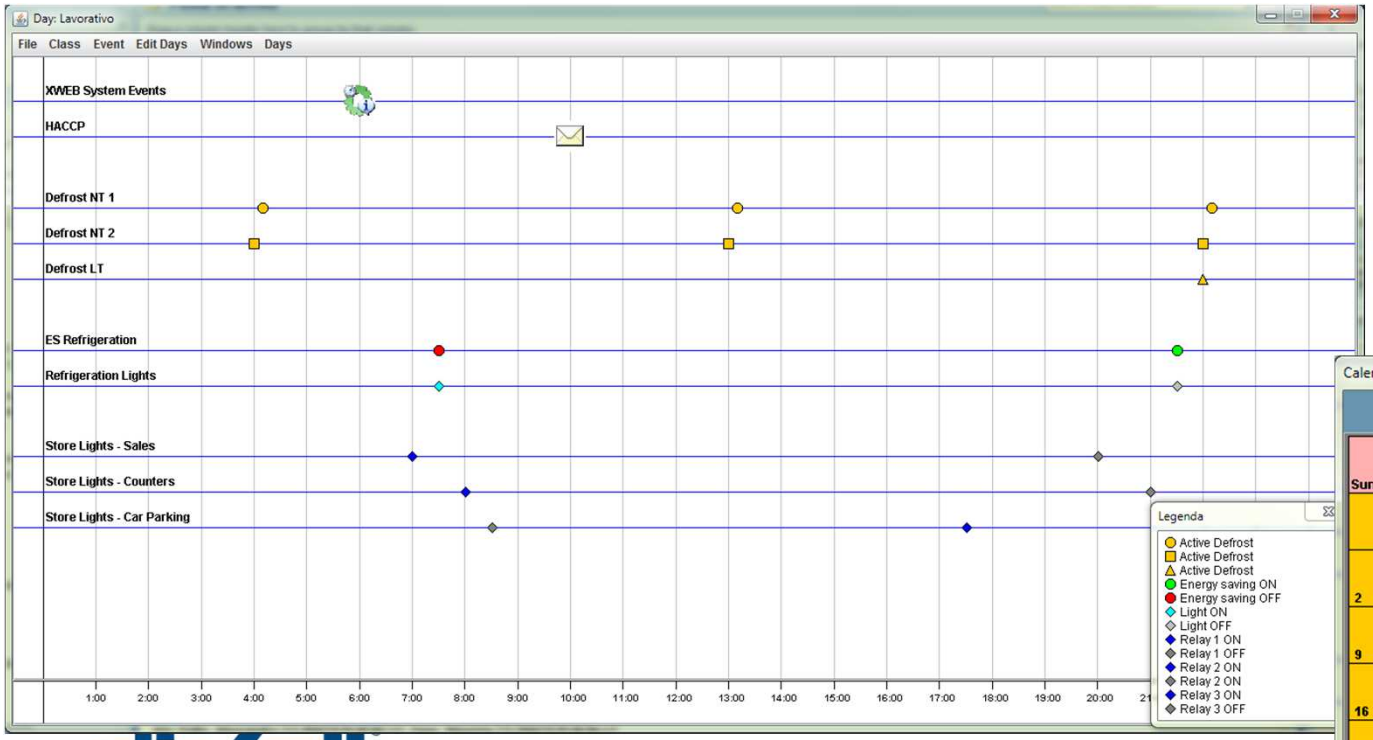
The Range - SYSTEMS

XWEB500

ALARMS and CONTROL

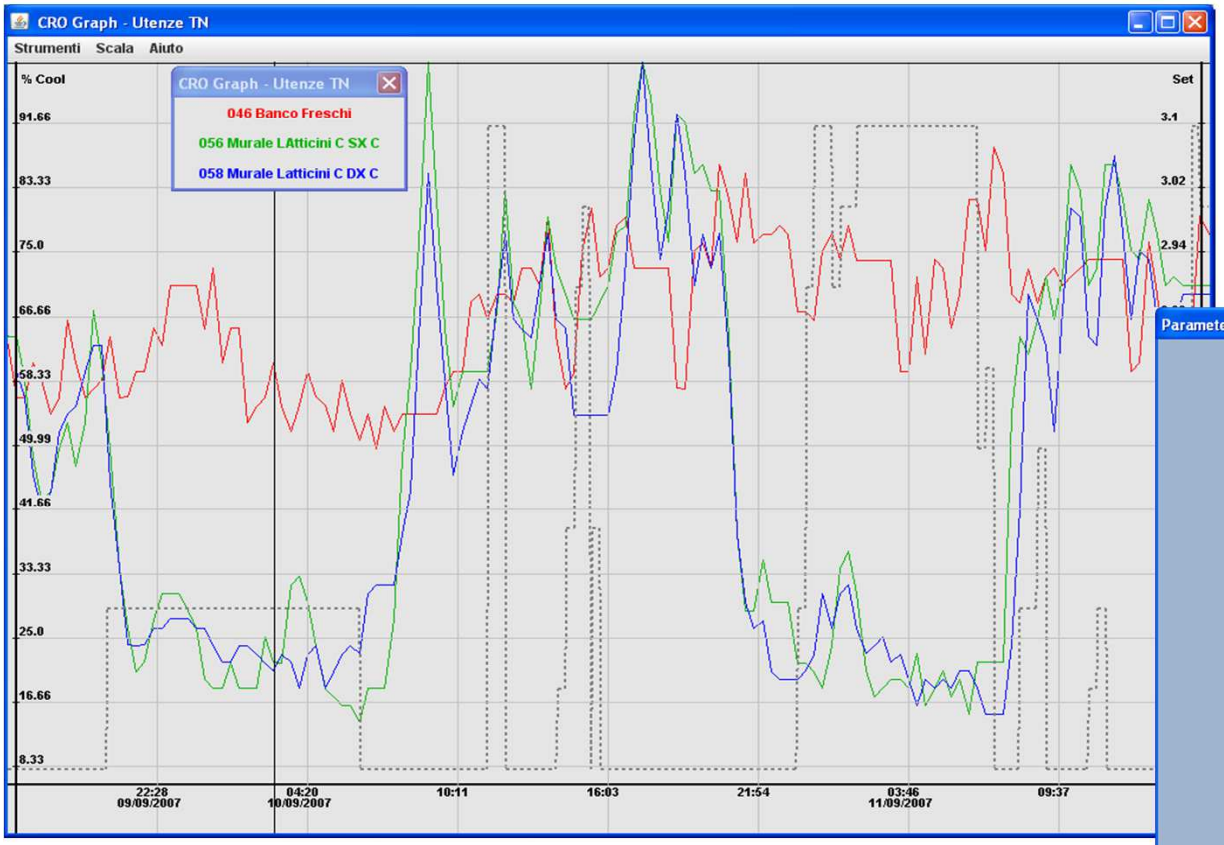
- Scheduled Tasks
  - ES Set points
  - HACCP Export
  - Defrosts
  - Lights
  - Curtains
  - …

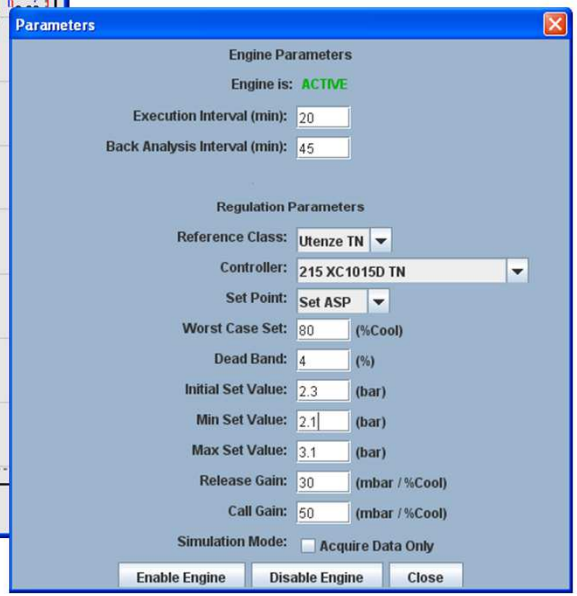


The Range - SYSTEMS

XWEB500

ALARMS and CONTROL





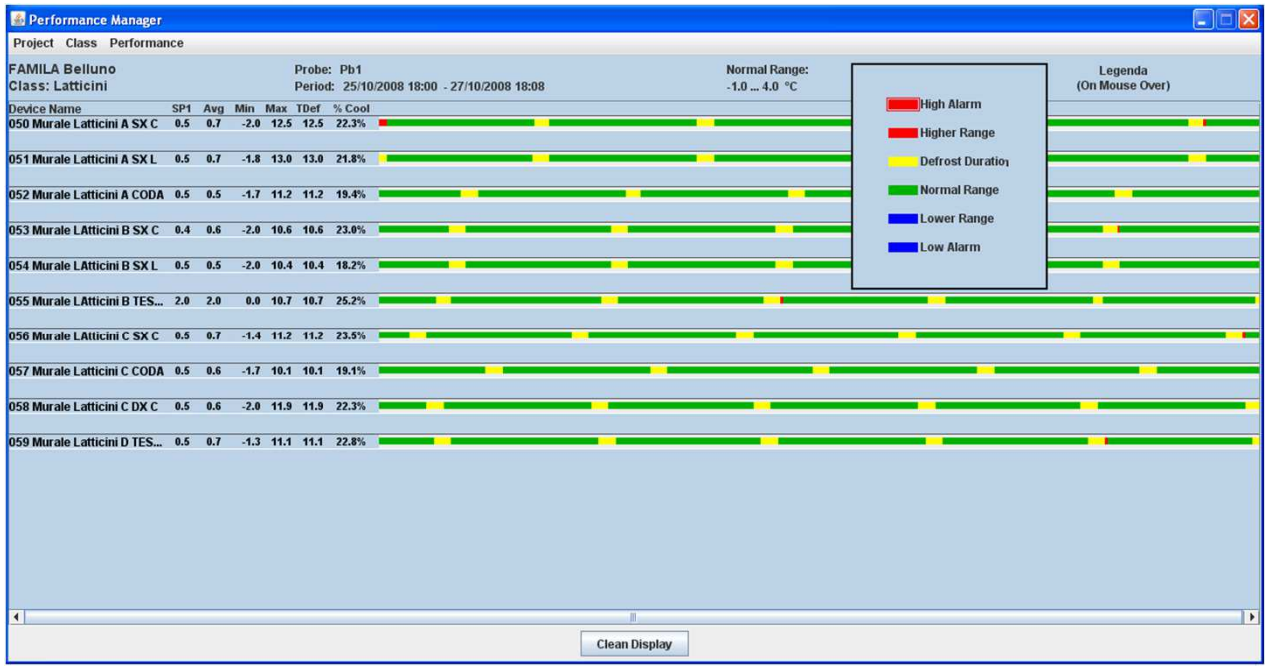
- Compressor Rack Opt.

The Range - SYSTEMS

XWEB500

ALARMS and CONTROL

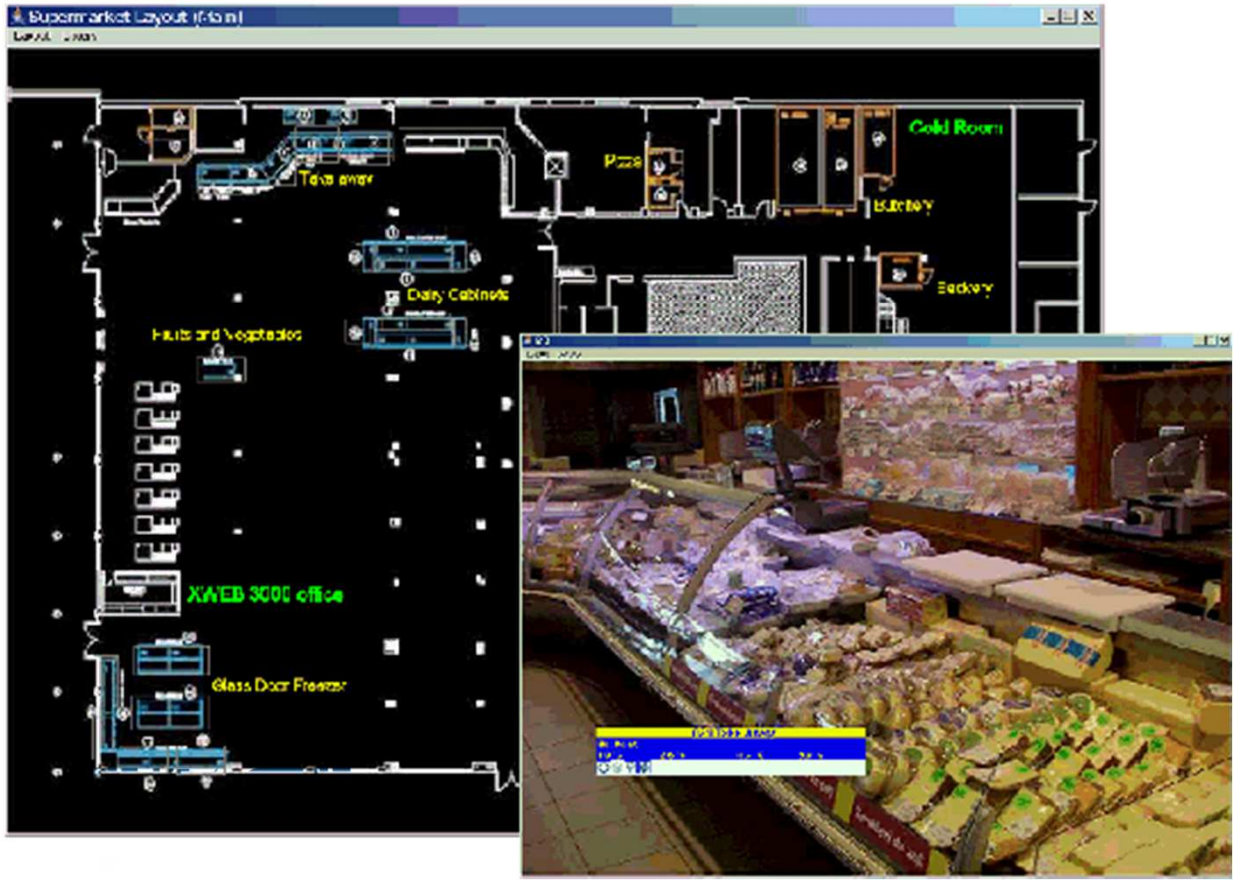
- Performance meter
  - Average temps
  - Peaks
  - Defrosts
  - Alarms
  - Temperature drift



The Range - SYSTEMS

XWEB500

ALARMS and CONTROL



- Store maps
  - Temperatures
  - Units Status
  - Alarms
  - Commands
  - …

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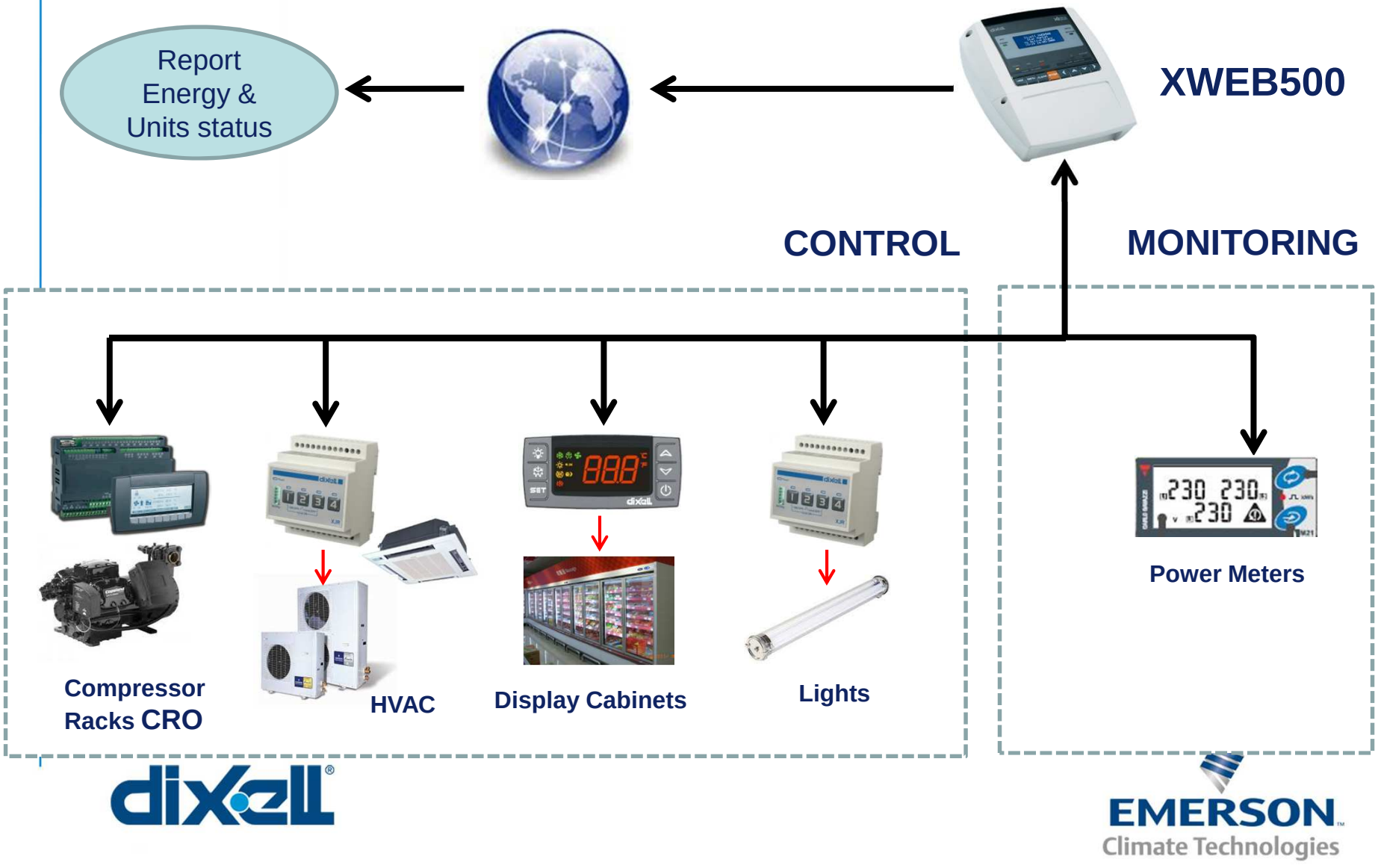
The Range - SYSTEMS



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The Range - SYSTEMS

XWEB3000

INDUSTRIAL GRADE
ALARMS and CONTROL

- **Big installations: Supermarkets, Hypermarkets, Storage warehouses**
- **TCP/IP connectivity: Ethernet (LAN, Internet), Dial-up (via built-in/external modem)**
- **KVM connectivity for local operators**
- **Up to 247 Modbus devices connectable**

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The Range - SYSTEMS

XWEB5000

INDUSTRIAL GRADE
ALARMS and SUPERVISION

- **Enhanced Energy Saving Functions**
  - **CRO**
  - **Dew Point Control**
  - **Supervision**

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The Range - SYSTEMS

XWEB5000

- **CRO Compressor Rack Optimizer**
  - **Suction pressure optimization**
  - **Suitable with mechanical, modulating and stepper valves**

REFRIGERATION

SUPERMARKET 3000m²

WITHOUT OPTIMIZATION

ANNUAL CONSUMPTION

1.100.000 kWh = 154.000 € 100%

WITH OPTIMIZATION

ANNUAL CONSUMPTION

770.000 kWh = 107.800 € 70%

ANNUAL SAVING

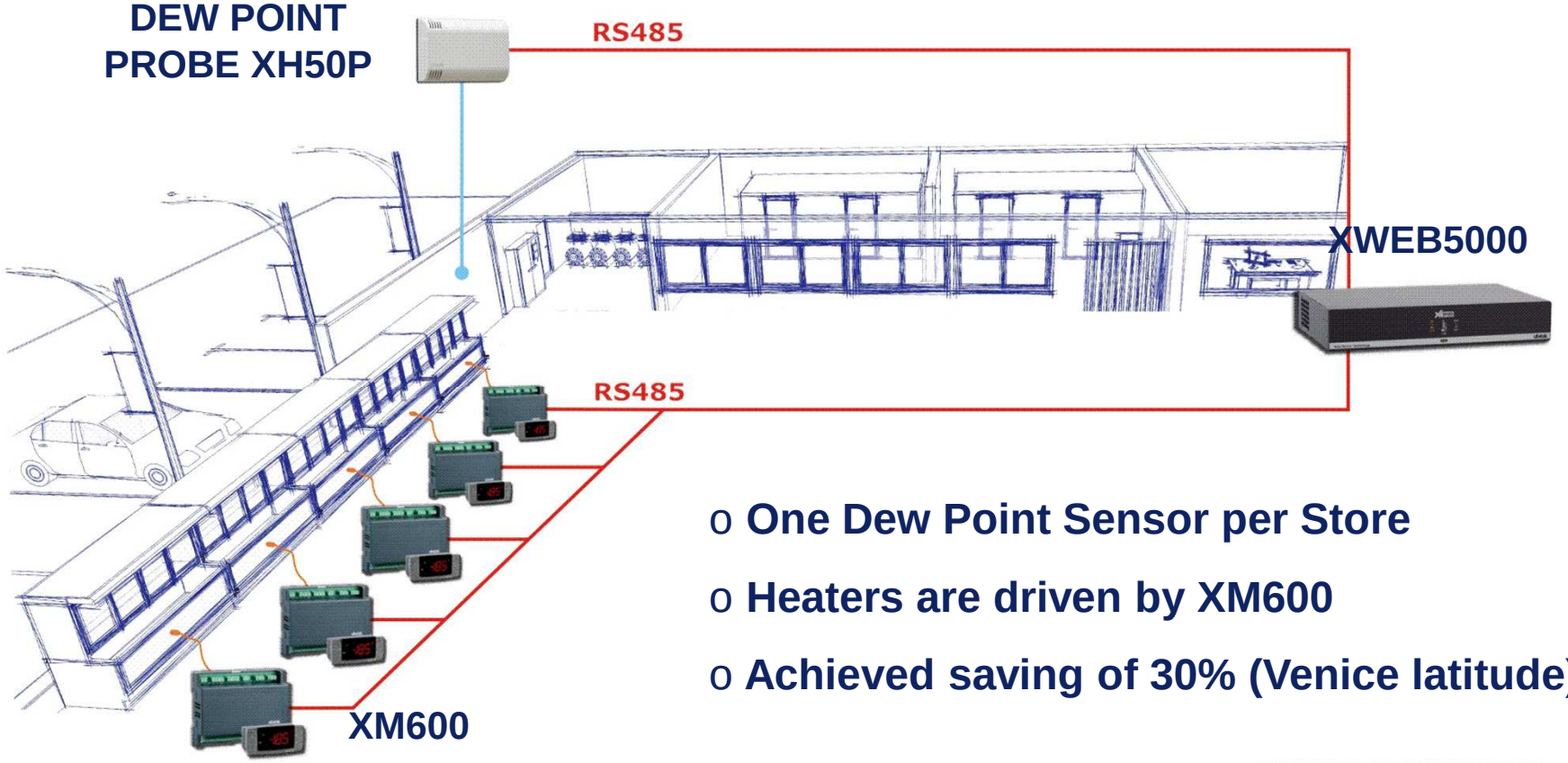
330.000 kWh = 46.200 € 30%

The average electric Italian rate applied for the consumption calculation is of 0,14€/kWh.

The Range - SYSTEMS

XWEB5000

INDUSTRIAL GRADE
ALARMS and SUPERVISION

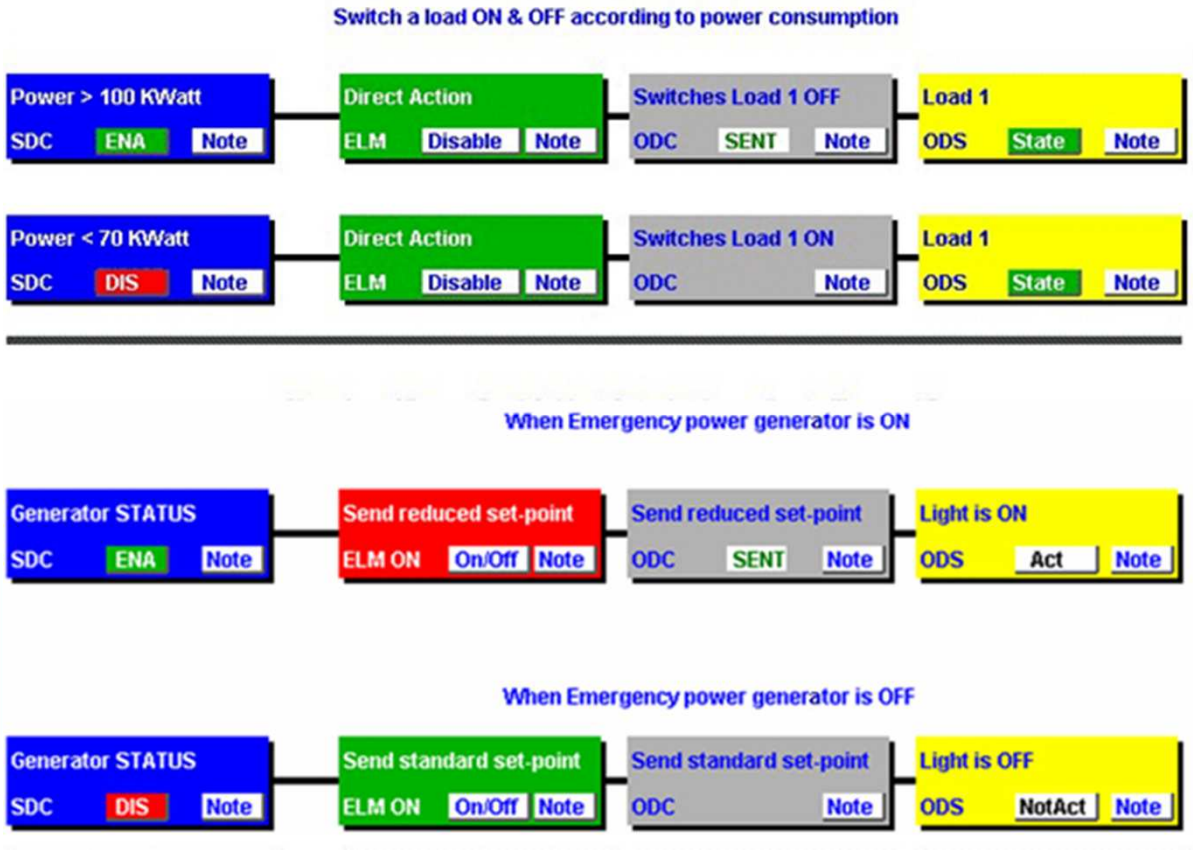


- One Dew Point Sensor per Store
- Heaters are driven by XM600
- Achieved saving of 30% (Venice latitude)

The Range - SYSTEMS

XWEB5000

INDUSTRIAL GRADE
ALARMS and SUPERVISION



- Supervision blocks
- Fast deployment
- Immediate use
- ES management
- Critical situations support

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The Range - SYSTEMS

Report
Energy &
Units status

XWEB5000

CONTROL

MONITORING

Compressor
Racks CRO

HVAC

Display Cabinets
Frame heaters

Lights

Power Meters

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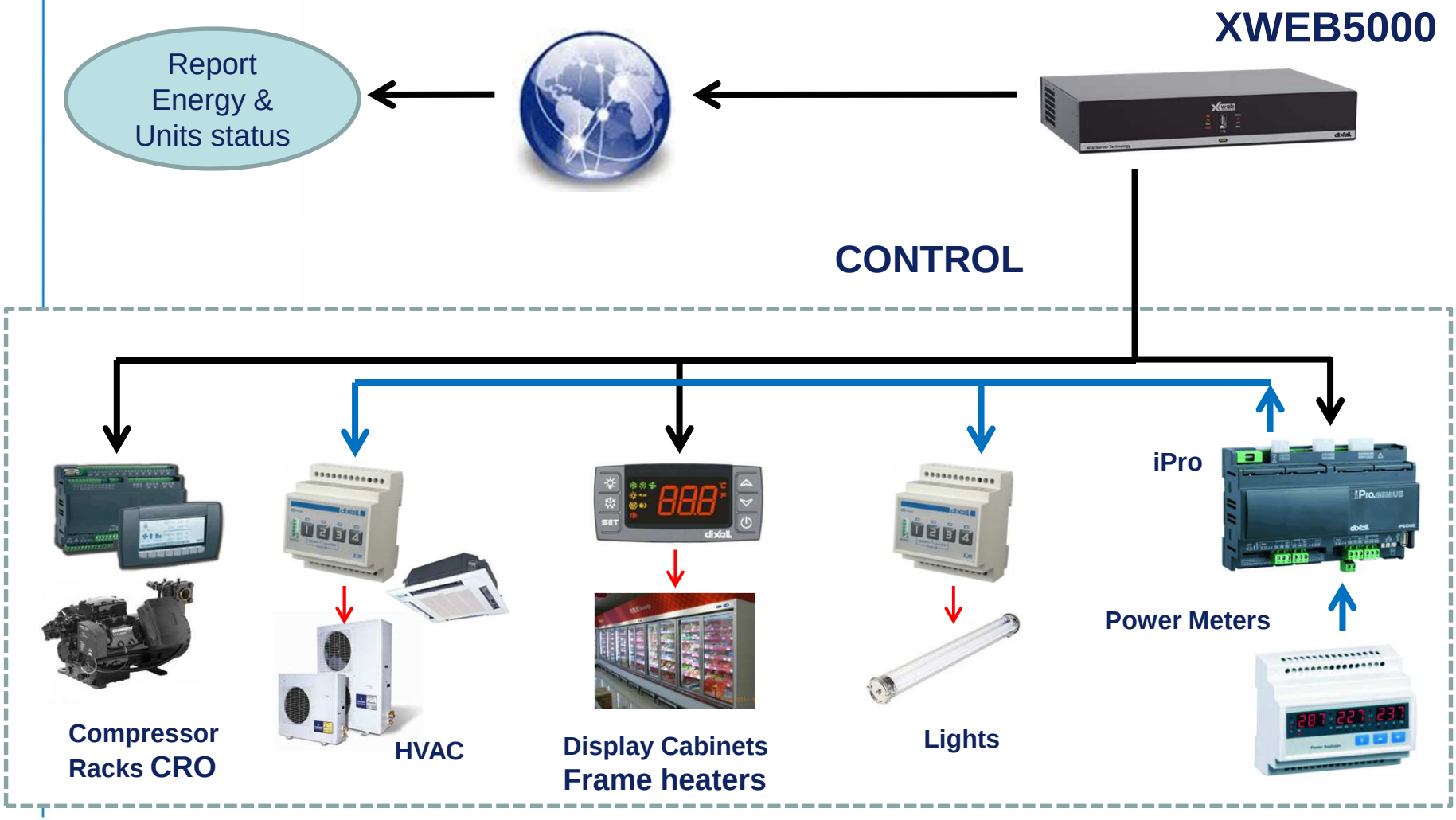
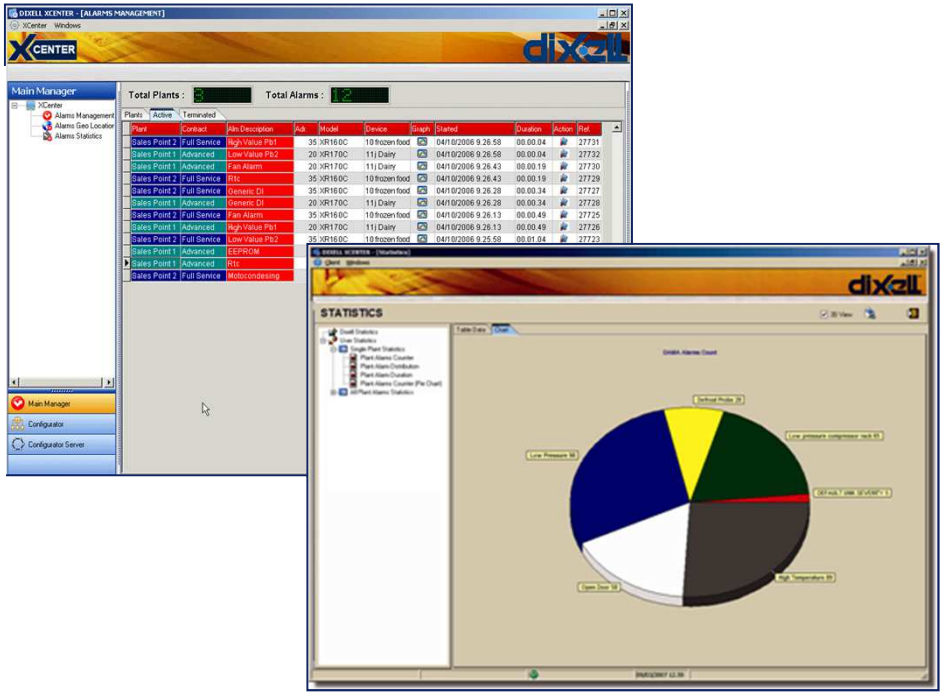
The Range - SYSTEMS



The Range - SYSTEMS

CENTRALIZED ALARMS MANAGEMENT SOFTWARE

- Alarms management and reporting by e-mail and SMS
- Different logics for increasing alarms severity
- Alarms Statistics
- Geo location
- Direct access to the local XWEBs