

TAC Vista Family

# TAC Xenta 700

Everything You Need to Monitor and Control Your Building



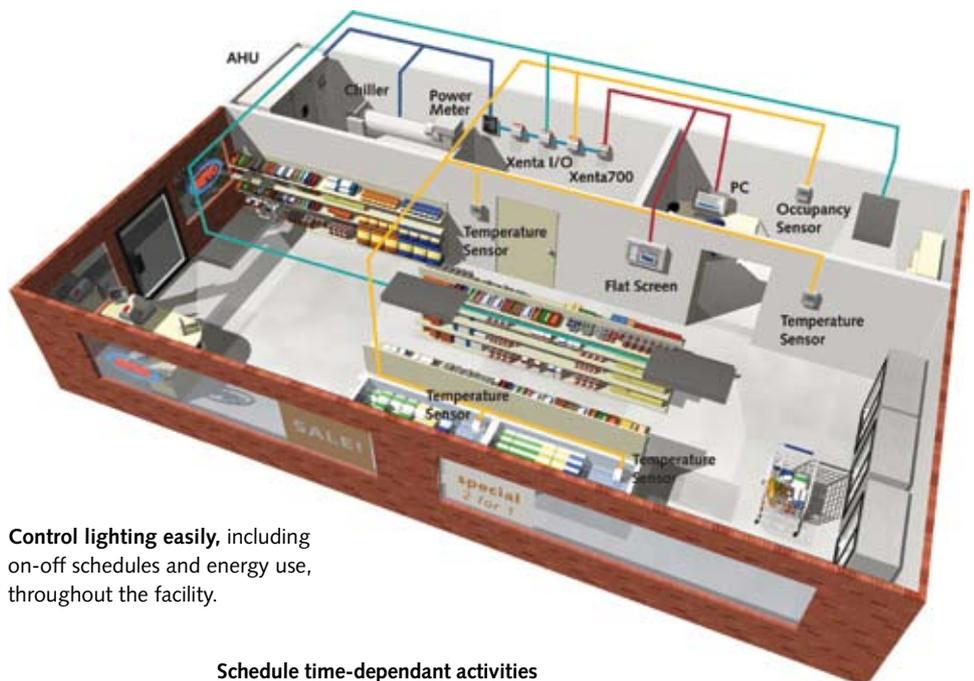
# Retail: an application example for small-size solutions

- The TAC Xenta 700 is a complete Building Management System.
- The TAC Xenta 700 is a family of controllers with built-in web capabilities. The web interface is either configured or automatically generated.
- Systems built around TAC Xenta 700 are extremely scalable and can easily be integrated with TAC Vista.
- IP connectivity enables worldwide access via the Internet.
- The application program is created with the user-friendly tool, TAC Menta.

**Display historical temperatures** to customers and authorities to guarantee high-quality food.

**Log and monitor all temperatures** in the facility, including the temperature in the freezers to ensure food safety.

**Use the built-in power of the TAC Xenta 700** to control indoor climate, minimizing energy usage and saving money.



**Control lighting easily**, including on-off schedules and energy use, throughout the facility.

**Schedule time-dependant activities** such as opening hours and regular cleaning tasks using the comprehensive built-in scheduler.

**Monitor and alarm important events** like high temperature in the freezers or excessive energy use.

TAC Xenta 700 is perfect for facilities where simplicity, cost and flexibility are important. This versatile controller can meet every control requirement of a building such as grocery stores where complex temperature and environmental controls are critical for customer comfort and food safety.

As your organization grows, the highly scalable Xenta 700 grows with you. You can easily add more controllers in the same building, across town, or around the world thanks to the TCP/IP connectivity.

For a small scale solution the Xenta 700 offers:

- A complete building management system
- Easy-to-use graphical interface which means shortened training time and more efficient daily operations
- Individual login pages for every user for direct and easy access to the most-used tasks
- Powerful control capabilities including demanding applications like lighting

# The TAC Xenta 700 is all you need



Building owners need efficient, reliable and cost-effective ways to control the environmental settings of their buildings. Now TAC is leveraging the Internet to meet that need with the Xenta 700 controller. It is the world's first building automation controller to combine building control, web functionality, alarm handling and amazing graphics all in a powerful compact package. This all-in-one solution has everything you need to monitor and control your settings in a single, economical device, including:

- Powerful control capability for environmental systems
- Presentation views via standard web browsers
- Easy and secure communications over the Internet or private intranet
- Scalable from small to large installations using IT standards

## EASY TO INSTALL AND USE

Just connect the Xenta 700 controller to your Ethernet network. Templates and control application libraries are included to help you get started quickly and easily. No dedicated PC or workstation is needed to monitor and operate your Xenta 700 controller. Each Xenta 700 controller includes an embedded web server, allowing you to access and monitor your building controls via a web browser from anywhere in the world, around the clock.

## ADVANCED CONTROLLER FEATURES

As a stand-alone presentation system, the TAC Xenta 700 offers broader functionality than any other product of its kind. For example, it supports remote configuration, trend logging, time scheduling, alarm and event monitoring, viewing and acknowledgement of alarms, and more. As a powerful, freely programmable controller, it provides outstanding performance and can execute a number of concurrent control applications. The TAC Xenta 700 can also act as a time server, and present both dynamic values and dynamic graphics.

## IT-FRIENDLY AND SECURE

TAC is in the forefront of Open, Integrated Systems for Building IT. Xenta 700 supports TCP/IP standards, making it easy to install in IT networks. Both normal proxy servers and reversed proxy servers are supported.

For secure communications, the TAC Xenta 700 utilizes the encryption protocols HTTPS and SSL, the same secure Internet protocols widely used by banks. A user name and protected password are required for logging in. The TAC Xenta 700 also supports selective user authorization for different user levels. Selective information access means users get access to different information, based on their need to know.

## START NOW, GROW LATER

The TAC Xenta 700 is ideal for monitoring installations where cost and simplicity matter, such as district heating plants, apartment buildings, offices or day-care centers. With the TAC Xenta 700, you get all the necessary features of a presentation system at a low cost. In addition to being a stand-alone solution, the TAC Xenta 700 is a core part of the TAC Vista family. All data can be consolidated in TAC Vista Server, creating a highly scalable solution that can grow as your organization grows.

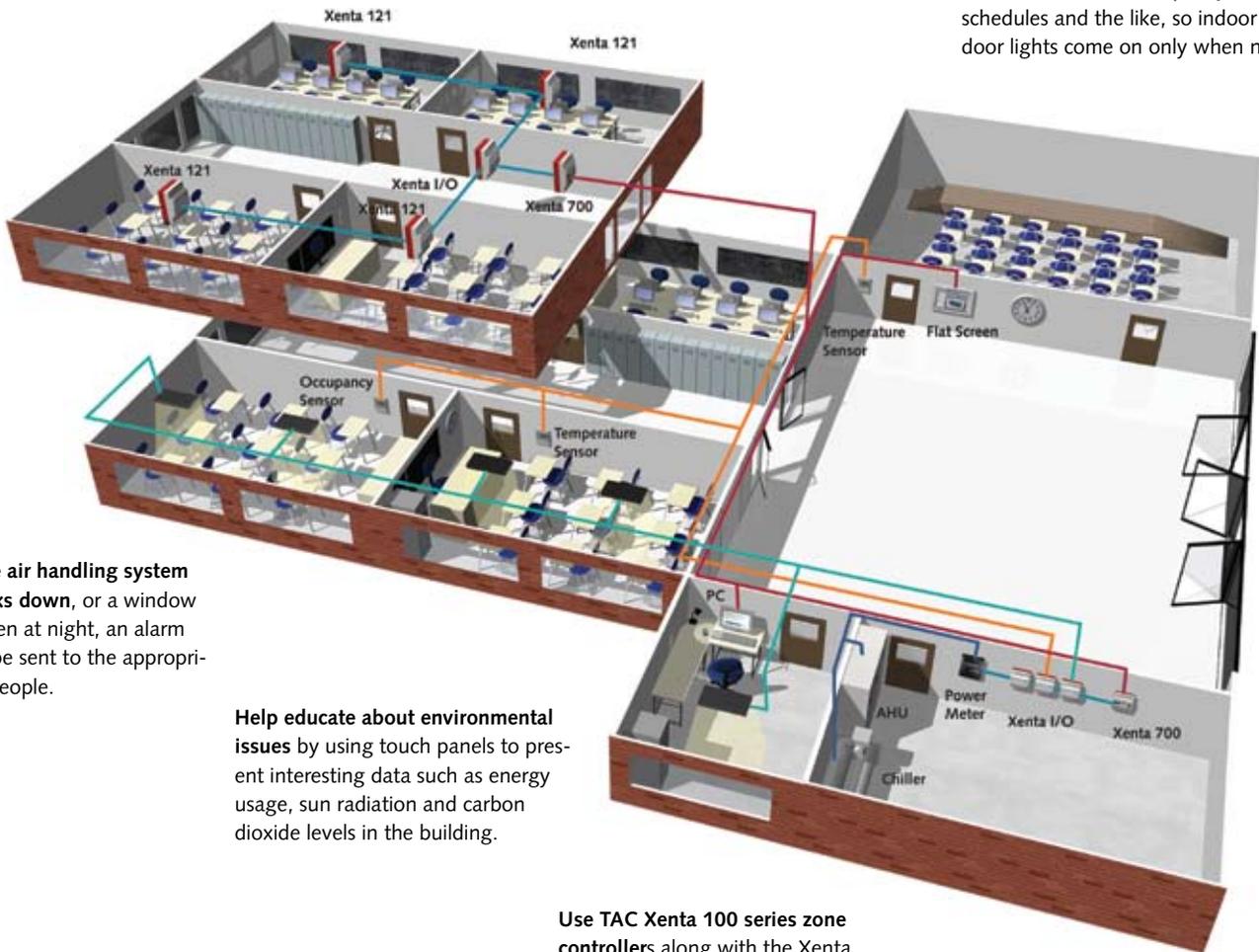


# Education: an application example for mid-size solutions

With secure web connections, many problems can be dealt with remotely, reducing the need to visit the school at night.

Use the built-in scheduler to manage all classrooms and offices for maximum comfort and minimum energy use.

Keep the electrical bill low by linking the TAC Xenta 700 to occupancy sensors, time schedules and the like, so indoor and outdoor lights come on only when needed.



If the air handling system breaks down, or a window is open at night, an alarm can be sent to the appropriate people.

Help educate about environmental issues by using touch panels to present interesting data such as energy usage, sun radiation and carbon dioxide levels in the building.

Use TAC Xenta 100 series zone controllers along with the Xenta 700 for the optimum in comfort and energy conservation.

Even wall clocks can be controlled by the TAC Xenta 700 for accurate time in the school. No excuse for the students to arrive late!

Schools at all levels face a constant challenge of providing a safe, comfortable learning environment, while also keeping costs under control. The TAC Xenta 700 provides the ideal solution.

With its all-in-one capabilities, the Xenta 700 can be used to manage the entire school facility. Simply install where needed and then monitor all environmental and security controls from a standard web browser. Graphical presentation views make it easy and intuitive for everyone to use, from administrators to teachers to maintenance personnel.

For a medium scale solution Xenta 700 offers:

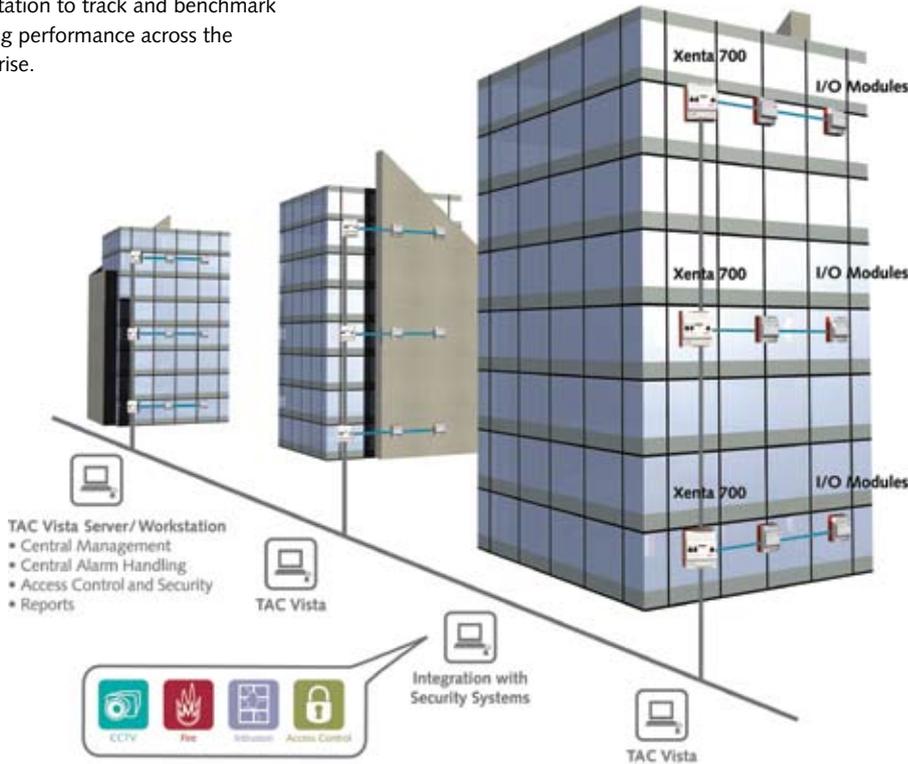
- A complete building management system for an entire building
- Powerful controls that can be monitored from anywhere via web connections
- Easy-to-use graphical views that let you access all the important data about your facility
- Individualized start pages so users can see the information that matters to them

# Offices: an application example for an enterprise-wide solution

Use the TAC Xenta 700 together with the TAC Vista Server and Workstation to track and benchmark building performance across the enterprise.

Add TAC Vista Security to your system and use its built-in capabilities for access control, CCTV and other security-related functions.

Forward alarms to the right people for prompt action. Respond quickly to mechanical problems, intrusions, overheating, excess energy use, etc.



The TAC Xenta 700 can operate seamlessly with the corporate building management system.

Use the graphics package, TGML (TAC Graphic Markup Language), to easily and intuitively operate your buildings and keep costs down.

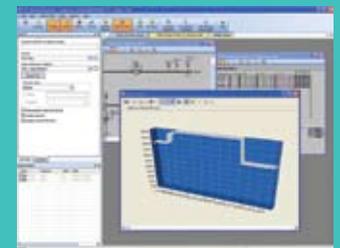
All communications are built on standards, so existing IP networks can be used to reduce cost and make it easier for the IT department.

Studies have shown that office productivity goes up when employees feel comfortable and secure. With the TAC Xenta 700 series of controllers, office buildings can gain the environmental control that managers want, while keeping costs under control at the same time.

The versatile Xenta 700 can be used to manage all building-related functions for the smallest office to the largest commercial complex. You can start with a single building and scale to worldwide offices for a building management system that is both powerful and economical.

The Xenta 700 offers office building owners:

- The ability to easily manage all building-related functions with a single controller solution
- Anytime, anywhere access via secure, web-based communications
- Powerful graphical presentation system that is easy to use
- The ability to seamlessly scale up to an enterprise-wide system using TAC Vista Server and TAC Vista Workstation



Amazing graphics that facilitate easy and intuitive operation of your buildings

# Functions

## ENERGY LOGS

The TAC Xenta 700 can capture energy log data from connected communication systems. The data can be presented in table views and graphs.

## ALARM AND EVENT MONITORING

Built-in alarm and event monitoring features allow users to perform a number of different actions over the Internet such as view alarm status, acknowledge alarms, and receive alarms via e-mail.

## TIME SCHEDULING

The TAC Xenta 700 provides a convenient time scheduling feature, allowing fully flexible control of the building according to customer-defined time settings.

## TREND LOGGING

Trend logging can be managed via a web browser, with the ability to start, stop, and clear the trend log remotely.

## ENGINEERING TOOL

TAC Xenta 700 is configured using the XBuilder tool, which simplifies engineering procedures. Ready-made web pages are provided, with menus and help texts, and an option that lets you create your own web pages and links (TAC Xenta 711 and 731).

## CONTROL APPLICATION

A powerful application engine can run a large number of concurrent control applications at different speeds. The applications are programmed with TAC Menta which is an easy-to-use graphical control language included in XBuilder.

# Specifications

The TAC Xenta 700 family of IP controllers is available in four models, allowing you to choose the web server functionality, number of supported I/O units and supported protocols for your application. Note: "Custom" web means that the web server is customer-configurable; "Service" means that the web server is locked and not designed for daily operation.

Product	Mod-bus	Micro-Net	I/NET	WEB	I/O	Support X280, 300, 401
Xenta 701				Service	10	
Xenta 711				Custom	10	●
Xenta 721				Service	20	●
Xenta 731	●	●	●	Custom	20	●

## PROCESSOR:

32-bit RISC

## MEMORY CAPACITY

Flash 16 MB Expandable with a MMC (MultiMedia Card) with up to 128 MB

## TCP/IP

Supports HTTP, HTTPS, SSL (128-bit), DHCP, DNS, SNMP, SMTP, FTP and PPP

## COMMUNICATION

Ethernet: 10 Base-T  
 LonWorks: FTT-10A for TP/FT-10  
 RS232A: Modem 9600-56000bps  
 RS232B: PC-Connection  
 RS485A: For optional protocols, such as Modbus  
 RS485C: For I/NET communication

## BROWSER COMPATIBILITY

Internet Explorer, FireFox

## FEATURES

- Free programmable control applications
- Real time graphics and values
- Trend logging and charting
- Energy log
- Time schedules
- Time synchronization
- Alarm management
- Alarm notification via email
- Secure login and communication
- Personal home page

Copyright © 2007, TAC  
 All brand names, trademarks and registered trademarks are the property of their respective owners. Information contained within this document is subject to change without notice. All rights reserved.