



TAC Xenta™ 121

Programmable Zone Controllers

The versatile TAC Xenta 121 zone controllers are tailor-made for fan coil and heat pump applications. This new family of controllers is part of the TAC Vista Building Management System, providing efficient management of a single building or a large building complex.

FLEXIBLE ZONE CONTROL WITH A MINIMUM NUMBER OF CONTROLLER TYPES

The TAC Xenta 121 controller is available in either a Fan Coil or Heat Pump version. Because only one controller is needed to handle all fan coil applications and one to handle heat pump control, installation, training, and maintenance are easier and more cost-effective. The Fan Coil controller can be used in both 2- and 4-pipe installations and can be configured for use with a variety of valve actuators. The Heat Pump controller handles both reversing and isolation valves and can be configured for up to three compressors with electric or gas secondary heating.

The TAC Xenta 121 zone controllers are suitable for a variety of facilities, including:

- Hotels
- Computer rooms
- Conference rooms
- Retail stores
- Office buildings
- Schools

USER-FRIENDLY PROGRAMING TOOL

The TAC Xenta 121 zone controllers are not only versatile, but easy to set up and program using ZBuilder, TAC's new windows-based programming tool. The ZBuilder software allows you to quickly and easily download programs and configure parameters for each TAC Xenta 121 zone controller. Plus ZBuilder's user-friendly set-up screens display the controller configuration graphically, reducing set-up errors. ZBuilder can run as stand-alone program on your PC or as a plug-in to either TAC Vista™ or LONMAKER®.

CONTROL FLEXIBILITY MEANS ENERGY SAVINGS

The TAC Xenta 121 controller handles Heating, Cooling and secondary Heating with up to three stages of each. You can separately define when each stage is to be activated, and a common hysteresis guarantees smooth operation. The controller's demand-based fan control program handles both multi-stage and variable speed fans for greater energy efficiency. All inputs and outputs are freely programmable using TAC ZBuilder. Room occupancy sensors, window contacts switches, and outdoor temperature sensors can be added to the controller to further enhance energy savings. The TAC Xenta 121 zone controller also features economizer control, as well as CO₂ and RH control for optimal indoor air quality and a more productive work environment. The TAC Xenta 121 zone controllers assist in meeting Section L2 requirements as mandated by the 2006 European Energy Directive.

- Flexible programmable controllers for fan coil and heat pump applications
- Simple to program using TAC ZBuilder programming tool
- The controller handles Heating, Cooling and Secondary Heating
- Demand-based fan control provides energy savings
- Seamless integration via LONWORKS® to other building systems and functions
- Fan Coil Controller handles 2- and 4-pipe installations
- Heat Pump Controller handles reversing and isolation valves
- Economizer, CO₂, and RH control for optimal indoor air quality
- User-defined Exception Modes override normal control in emergency situations
- Can operate alone, networked with other TAC Xenta controllers, or as part of an open, integrated network



TAC Xenta OP



STR Wall Modules

NEW EXCEPTION MODES FOR SPECIAL CIRCUMSTANCES

Exception Modes are an exciting new feature to the TAC Xenta Controller family. This function allows you to pre-configure different modes to override "normal control" in the case of a specific event occurrence. Exception Modes offer many ways to save energy for example by using a window contact to turn off heat and cooling if the window is open. It can also be used for other functions like special freeze protection, smoke control or simple light control.

LONMARK®—CERTIFIED FOR OPEN COMMUNICATION

The TAC Xenta 121 zone controller is LONMARK-certified. It can communicate over TP/FT-10 networks independently or as part of an open system. Over a LonWorks system, the TAC Xenta 121 can be integrated with other systems, such as lighting, to further optimize the environmental conditions and operating costs in a zone.

The TAC Xenta 121 can be used in three different ways:

- As a stand-alone zone controller
- Together with other TAC Xenta controllers and TAC Vista™, as part of an open integrated control and supervisory system
- As part of an open LONWORKS®-based system

TAC XENTA 121 OPTIONS

TAC Xenta™ OP

TAC Xenta OP is a portable operator's monitoring device that connects to the TAC Xenta 121. The Xenta OP allows the operator to monitor input, outputs, and setpoints without the need to communicate with a central system.

STR wall modules for individual room control

A family of STR wall modules complement the TAC Xenta 121 zone controllers, providing individual control measurement of room temperature, manual fan speed setting, set point adjustments, and manual override. Easy to install and operator-friendly, the STR wall modules are perfect for office buildings, hotels, hospitals, schools, and shopping malls.