Introducing the 2nd Generation Viconics Wireless Zoning System

www.viconics.com

Bringing a Cost-effective, Scalable Zoning System
to the Commercial Market

VZ7260 Zoning Controller

VZ7260 Zoning Controller with (PIR) Motion Sensor

VZ7656 Central Controller

The VWZS offers unparalleled flexibility through the use of the ZigBee® communication protocol.

The second generation Viconics VWZS Wireless Zoning System has been specifically designed to bring a simple scalable wireless zoning solution to the commercial mid-market without the cost associated with a typical DDC zoning system.

Our zoning system now provides even more flexibility by offering additional functionality and new models covering more applications while still achieving excellent energy savings. The new central models include rooftop and heat pump units controlling analog heat, CO_2 levels and indoor air quality in conjunction with zoning controllers that provide floating and analog damper control. The most unique feature of the zoning system is its scalability; a single central controller unit can support up to 100 individual zone controllers.
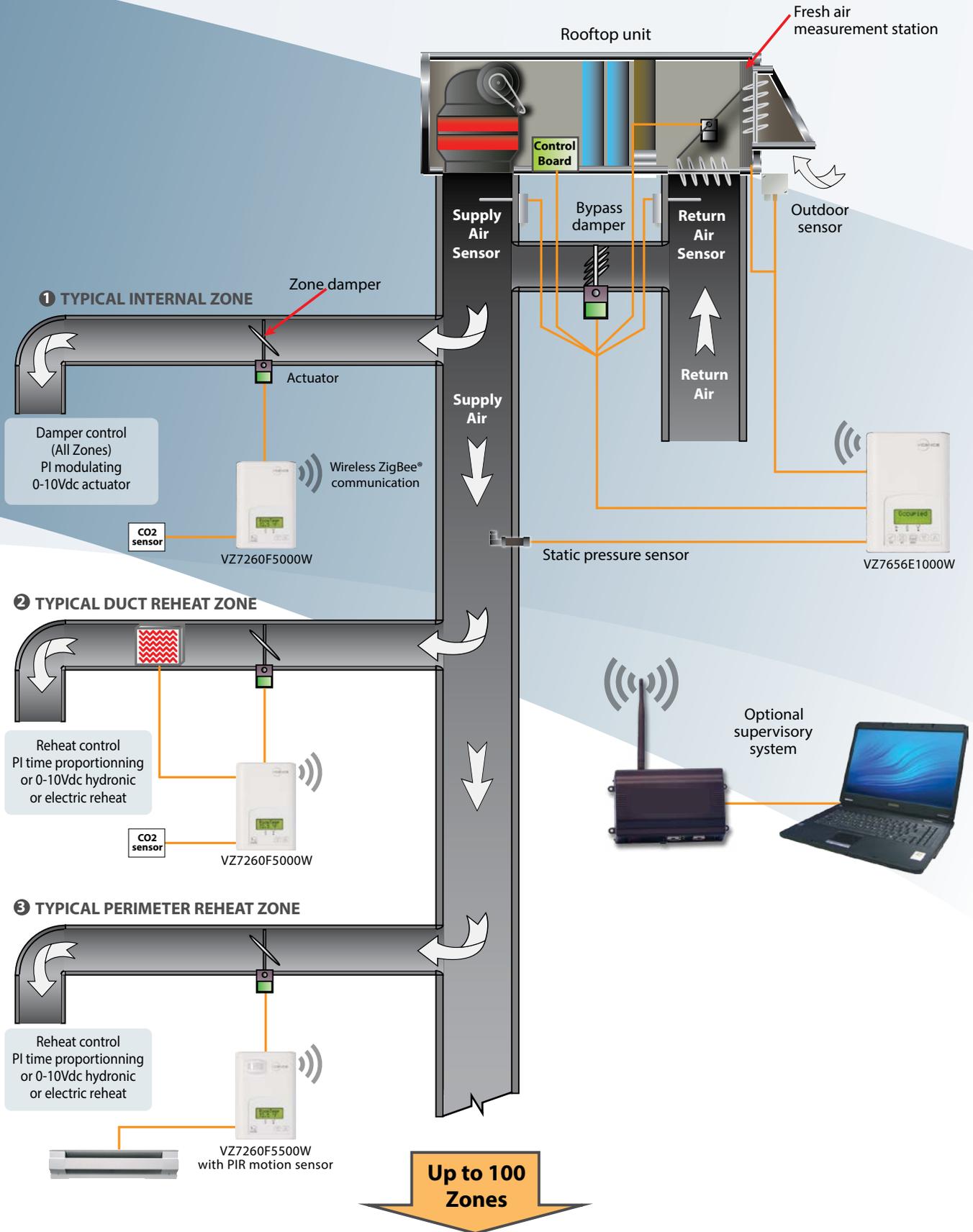
All zone controllers can be ordered with an on-board passive infrared occupancy sensor cover (PIR) that allows for advanced occupancy strategies. This enables the zone controllers to be able to provide even greater energy savings to zones during scheduled occupied events when no occupants are present. This automatic energy-saving feature reduces overall operating costs and accelerates return on investment.

With exceptional system performance rivaling more costly and complex programmable automation systems, the VWZS can be installed at a fraction of the total cost of a comparable system. System setup, installation and commissioning have been simplified by eliminating the need for additional external commissioning equipment or tools. All required testing and configuration including addressing and zone-weighting is accomplished using the easy-to-read LCD interface provided on all controllers.

Moreover, since no other programming tools are required, mechanical service technicians can quickly and easily install and service the system without costly support from other controls vendors.

The VWZS offers unparalleled flexibility through the use of the ZigBee® communication protocol. With the simple addition of a Viconics VWG-APP-1000 wireless communication card into any Jace2 or Jace6 hardware platform and the help of your preferred Tridium Niagara AX™ vendor; the zoning system can be fully integrated into the Niagara AX™ software framework and development environment from Tridium.

ZigBee™ Alliance
Wireless Control That Simply Works

NETWORK READY

Wireless Commercial Zoning System

Rooftop unit

Fresh air measurement station

Control Board

Supply Air Sensor

Bypass damper

Return Air Sensor

Outdoor sensor

Zone damper

❶ **TYPICAL INTERNAL ZONE**

Actuator

Supply Air

Return Air

Damper control
(All Zones)
PI modulating
0-10Vdc actuator

Wireless ZigBee® communication

CO_2 sensor

VZ7260F5000W

Static pressure sensor

VZ7656E1000W

❷ **TYPICAL DUCT REHEAT ZONE**

Reheat control
PI time proportionning
or 0-10Vdc hydronic
or electric reheat

CO_2 sensor

VZ7260F5000W

Optional supervisory system

❸ **TYPICAL PERIMETER REHEAT ZONE**

Reheat control
PI time proportionning
or 0-10Vdc hydronic
or electric reheat

VZ7260F5500W
with PIR motion sensor

Up to 100 Zones

Getting You Closer to LEED Certification

By installing the Viconics Zoning System in your building, energy required to render the space comfortable will be used more efficiently when compared to buildings using conventional control systems. Operating costs will be reduced and an overall healthier work and living environment will be achieved.

With LEED certification becoming more prevalent in today's new and existing commercial buildings, the Viconics Wireless Zoning System now offers the added advantage of bringing your building one step closer to attaining the credits required for LEED certification.

The Viconics Wireless Zoning System can help in attaining indoor environmental quality credits when used in conjunction with third-party CO2 sensors and a fresh air measurement device. The IAQ Controller can monitor indoor air quality, provide C02 demand-based ventilation, fresh air measurement and control. It also offers embedded free cooling economizer control, ensuring that cooling energy efficiency is optimized.

When used with central scheduling functions, the optional PIR motion sensor with occupancy logic based on actual occupancy detection can also help attain HVAC energy-efficiency LEED credits.

The Viconics Zoning System allows building owners to maintain a healthy environment for their occupants as well as maximize the overall environmental and economic performance of their buildings.

For more information on this and other Viconics wireless control solutions, please visit us at www.viconics.com

Features	Benefits
Best in class system scalability	Can be used in small to large size systems. A maximum of 100 zones can be installed for each central unit controller
Provides DDC type control functionality and accuracy	Delivers the same performance as a full BMS without the higher cost associated with it.
No external software tools required for installation, commissioning or servicing with embedded local HMI utility	Faster learning curve for first time installers. Provides quick, simple installation. No previous experience required
Uses ZigBee® communication protocol	No network wires are required for system communication
Full line of models offer solutions for a wide range of application	Can be integrated with various types of systems including typical RTU with extra required functions as well as heat pump units
Can control IAQ with any typical third-party wall-mounted C02 sensor	Control of IAQ means healthier and more productive occupants
Controls and measures fresh air with any third-party fresh air measurement station	Meets new IAQ requirements and can assists in achieving LEED credits
Provides embedded free cooling economizer loop	Provides true energy savings with adjustable economizer control loop. Minimum fresh air can be measured and controlled with fresh air measurement station
Built in Network-ready functionality	Allows for future Network functionality along with remote monitoring of all critical system data points for sustainability
Passive infrared sensor (PIR) cover available as either an accessory or factory mounted option	Further energy savings is possible with the use of a local (PIR) cover to automatically detect local occupancy.