

Expand Control, Reach and Savings with Johnson Controls wireless BAS technology



The power behind **your mission**



Wireless systems optimize flexibility, control and comfort while saving time and money.

Increase Flexibility

- Expand control into spaces where hardwiring is challenging or costly.
- Minimize impact on structures, architectural details and decorative surfaces, as in museums and historic buildings.
- Quickly and easily enhance existing installations with minimal disruption to building occupants.
- Simplify relocation and setup in areas with frequent re-configurations or tenant turnover.

Save Time

- Simplify and speed installations to meet tight schedules.
- Make retrofits easy.

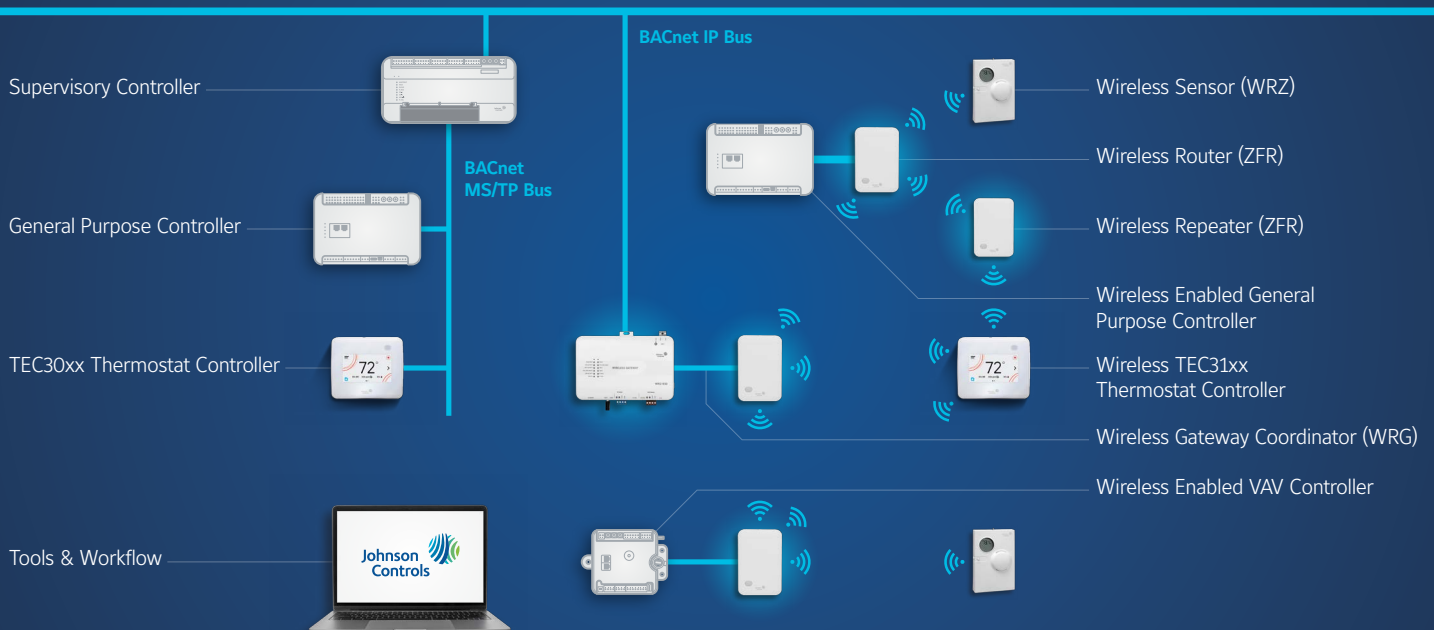
Save Money

- Avoid difficult, cost-prohibitive hardwiring.
- Spend less on labor.
- Work around hazardous materials such as asbestos.
- Speed troubleshooting and repair with remote capabilities.

Improve Performance

- Optimize control and comfort for occupants.
- Ensure signal strength and maximize reliability.
- Gain more reliable control for structures requiring wireless installations.

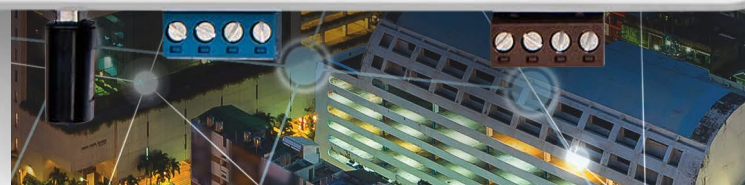
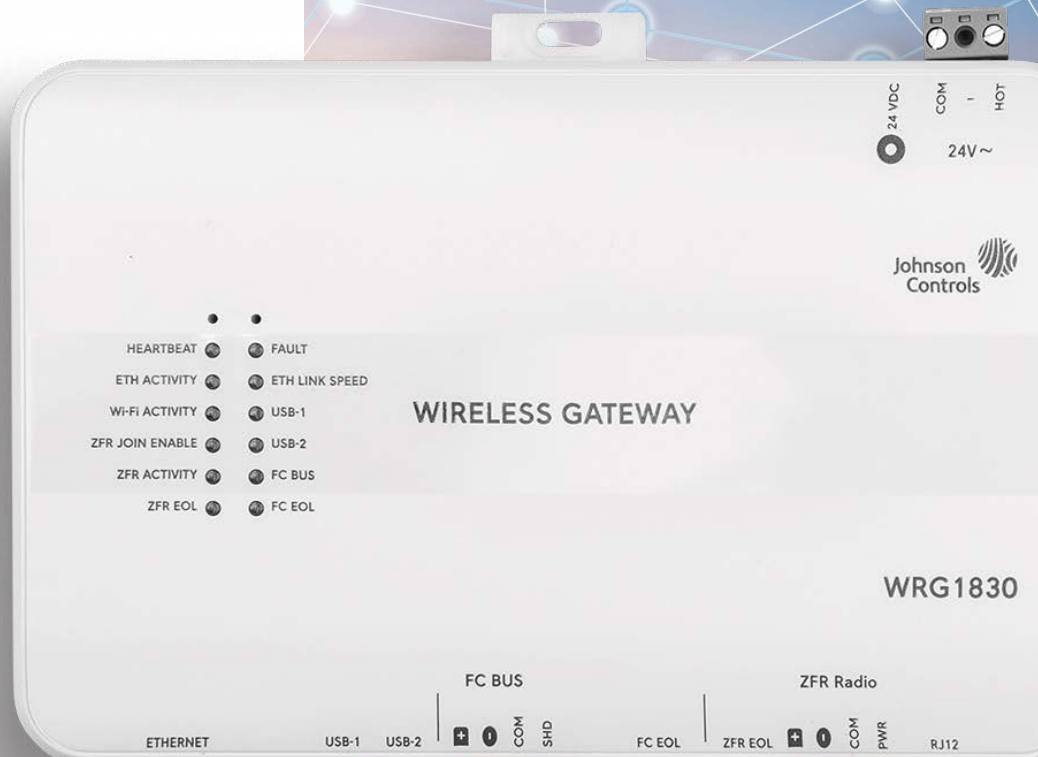
WRG1830/ZFR183x Pro Series Wireless Field Bus System



Do More With the WRG1830/ZFR183x Pro Series Wireless Field Bus System

The new WRG1830/ZFR183x Pro Series Wireless Field Bus System provides a wireless platform for BACnet devices at multiple BAS levels. Wireless devices co-exist with hardwired devices on the same supervisory controller, and standard field controllers can be wirelessly enabled. Gain all the benefits of wireless technology, plus enhanced performance and functionality:

- **More powerful transmission (100mW).** The ZFR1831 router and TEC3000 can provide up to 250 feet of reliable communication between wireless controllers, depending on the installation.
- **Longer battery life.** Algorithms extend battery life up to 10+ years on select WRZ Series room sensor models used in the WRG1830/ZFR183x Wireless System.
- **Advanced security.** End-to-end system security includes 128 bit AES encryption on the wireless network and secure boot at the WRG1830 Wireless Router Gateway to help prevent malware downloads at startup.
- **More flexibility.** The all-in-one ZFR1831 Wireless Router simplifies installation and commissioning to a single physical device type. You can also include the new wireless TEC31xx Thermostat Controller on a single common network.
- **Clear status.** Multi-color LEDs on the WRG1830 Gateway and the ZFR1831 router show wireless network status during installation and operation.
- **Standalone wireless network.** No supervisory controller required.
- **Easy ordering, installation and commissioning.** Embedded tools in the WRG Gateway simplify commissioning and checkout.
- **Streamlined validation and network optimization.** Site Survey Tool (SST) is used to audit wireless installation for maximum performance.



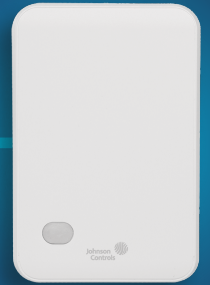
WRG1830/ZFR183x Pro Series System Components

The WRG1830/ZFR183x Pro Series System includes:

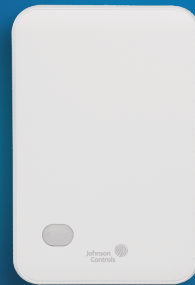
- A wireless network gateway (WRG), connected to a supervisory controller or used as a standalone network
- One or more wireless field bus routers, each connected to a field controller
- One or more new TEC31xx wireless thermostat controllers
- One or more WRZ Series wireless room temperature sensors



Wireless Router Gateway (WRG)



Coordinator



Wireless Router (ZFR)



Wireless TEC31xx Thermostat Controller



Wireless Sensor (WRZ)



More Options for High-Value Control

For installations that require fewer sensors, consider the WRZ-7860 Series One-to-One Wireless Room Sensing System. This alternative system is designed to interface with supported Johnson Controls field controllers for wireless control of room temperature and humidity in a single zone.

A simple one-to-one wireless room sensing system has up to five WRZ Series sensors communicating the zone temperature and humidity data to a WRZ-7860-0 receiver. The sensors and receiver together function as a network sensor, eliminating the need for sensor wiring.

This system does not require a supervisory controller. The WRZ-7860-0 Receiver interfaces with a single Johnson Controls field controller.

Get the Most Out of Your BAS

To learn more about Johnson Controls wireless building technologies, contact your Johnson Controls representative.

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