

VWG-50-5045 wireless gateway



Wireless gateway for use with SE7000 wireless room controllers

The high installation costs associated with passing new field communication wiring for building retrofit projects has always been one of the principal deciding factors that ultimately determines whether a building upgrade is feasible or not. In many cases, wiring costs associated with building upgrades deems a project as being cost prohibitive and often leaves older buildings with no other option but to keep functioning with inefficient controls with little to no capacity for energy savings.

The Schneider Electric™ VWG-50-5045 wireless gateway and SE7000 wireless temperature controllers have been specifically designed to target building retrofit opportunities where the installation of new communicating field bus wiring within an existing space is cost prohibitive. This new cost-effective wireless solution opens up possibilities that until now were simply dismissed as being non-viable.

The Schneider Electric VWG-50-5045 wireless gateway and SE7000 wireless room controllers provide a significant reduction in overall installation costs by eliminating the need for field communication wiring. This allows the existing equipment-to-controller wiring infrastructure already in place to be reused for the SE7000 wireless room controllers.

No special tools or training is required when using the VWG-50-5045 wireless gateway. Network discovery is automatic with only a few simple settings required via the SE7000 room controller's user interface and the VWG-50-5045 web configuration interface. Once the settings are applied, the wireless gateway provides familiar BACnet® MS/ TP or BACnet IP connectivity to your preferred iBMS system.

Features and benefits

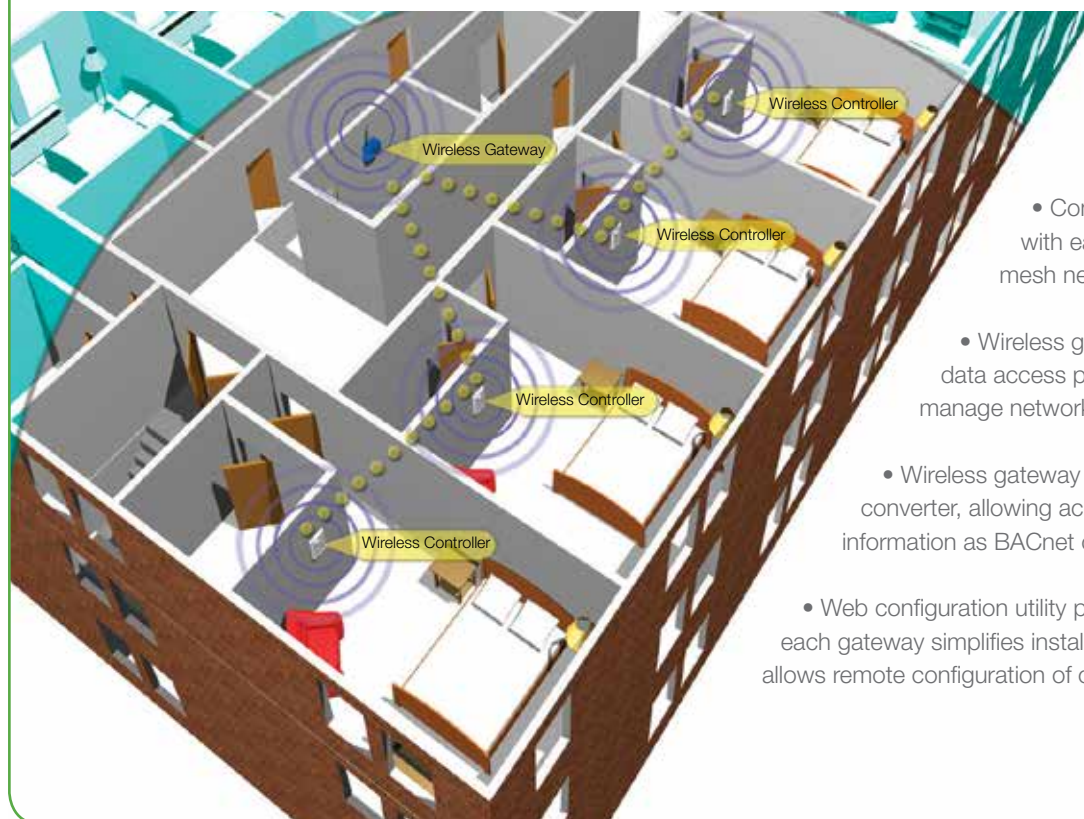
Features	Benefits
One VWG-50 wireless gateway supports up to 50 SE7000 wireless temperature controllers	Supports 20 more controllers than the previous generation gateway with no new communication wiring required
VWG-50 wireless gateway performs auto discovery of wireless controllers	No special tools or training are required
Provides BACnet MS/TP or IP connectivity	Integrates into your preferred BACnet automation system
SE7000 network controllers function as standalone units if no network is present	Provides failsafe default functionality if network connectivity is offline and eliminates the need for any additional communication wiring

Part number	Description
VWG-50-5045	Wireless gateway*
VWG-PS-AC-1045	Universal AC power supply (100 - 240 VAC to 15 VDC)

* The VWG-50-5045 does not come with a power supply. A VWG-PS power supply will be required for each gateway.

Please refer to the SE7000 Series - Product Comparison Guide for all available part numbers. The latest SE7000 Series - Product Comparison Guide is available as a pdf document on the web at: <http://schneider-electric.com/buildings>.

Typical single floor view of wireless mesh network



- Controllers communicate with each other wirelessly via mesh network.
- Wireless gateway is used as a data access point only, and does not manage network traffic.
- Wireless gateway acts as protocol converter, allowing access to all network information as BACnet objects.
- Web configuration utility provided with each gateway simplifies installation and allows remote configuration of controllers.